Hohokam Irrigation Longevity and Agricultural Success in the Lower Salt River Valley, Arizona

by

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ABSTRACT

The primary focus of this research is the poorly understood relationship between water insufficiency and broad-scale social change, in the semi-arid lower Salt River Valley, in central Arizona. The overarching research question guiding this research is if water insufficiency could have prompted sociopolitical change among the Hohokam. Specifically, the research investigates if long-term water deficits were a catalyst for the two most consequential transformations in Hohokam history – the Preclassic/Classic transition (A.D. 1070-1100/1150) and the early to late Classic period transition (ca. A.D. 1300).

This research used extensive historical aerial photographs and cultural resource management excavation data to complete the largest-scale reconstruction of Hohokam irrigation. These lines of evidence provided exceptional insight into the developmental histories of eight major irrigation systems along the lower Salt River, four of which are newly defined here. Also, historic Salt River streamflow trends are leveraged to refine previously reconstructed annual flow discharges. The irrigation system reconstruction provided the means for estimating irrigation demand through irrigated acreage, and monthly streamflows supplied the amount of water available during key points in the two agricultural cycles per year. Together, irrigation demand and water availability provided necessary data to identify persistent water shortages during Hohokam history between A.D. 740 and 1450.

The findings discussed in this dissertation demonstrate that water insufficiency likely had no notable effect related to either the Preclassic/Classic or early to late Classic

transitions in the lower Salt River Valley. Instead, there was possibly enough water through time for Hohokam farmers to meet agricultural demands. Three substantial additional insights were gained from this research. First, an extremely large flood, occurring either during the late Colonial or early Sedentary periods, may have profoundly altered irrigation agriculture and social organization in the valley. Second, during at least the Sedentary and Classic periods, Hohokam irrigation was structured into standardized irrigation units (SIU), a far more complex and efficient method of irrigation than previously perceived along the lower Salt. Third, a bedrock reef located near Canal System 2, and not at other lower Salt irrigation systems, is plausibly a determinate in Canal System 2's longevity.

This work is dedicated to my Mom, Marsha Caseldine.

Her love and patience ensured I had a sound educational foundation.

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CHAPTER 1: INTRODUCTION

The semi-arid confines of the lower Salt River Valley, central Arizona, was the setting for one of the most complex and long-enduring preindustrial irrigation complexes in the ancient world. For nearly a thousand years, communities of intrepid farmers transformed a brown desert scrubland into a verdant agricultural oasis. Centuries later, Euro-Americans repurposed these hydraulic works and set the foundation for the rise of the modern Phoenix metropolis. Archaeologists identify the prehistoric farmers as the Hohokam.

Small-scale farming households banded together to form complex irrigation cooperatives, beginning 1500 to 2000 years ago. Initially flanking the banks of the lower Salt River, the Hohokam constructed more and more expansive irrigation systems, first across the floodplain and then up onto the broad terraces tens of kilometers from the riverbed. The Hohokam operated the most expansive and complex irrigation network north of Peru by the fourteenth century (Fish and Fish 2007:1). By the end of the Hohokam occupation in the valley, ca. A.D. 1450, the lower Salt had supported large-scale agricultural production for nearly a millennium.

Hohokam people and their irrigation infrastructure have captured the attention of both popular (e.g., Diamond 2005) and anthropological (e.g., Scarborough 2003; Wittfogel 1957) audiences as an enigmatic conundrum. The archaeological record indicates that large-scale irrigation management, including irrigation cooperatives with hundreds of members, occurred without the expected social hierarchy. Evidence for hierarchical political leaders is not apparent archaeologically (Craig and Woodson 2017). Further, Hohokam researchers have yet to rectify a gulf between irrigation developmental

histories and the Hohokam cultural sequence. Although agricultural production is thought to have become increasingly difficult after A.D. 1300, irrigated land seems to have increased over time until the end of the cultural sequence in the valley (Howard 1990, 2006). Conversely, Hohokam society experienced both minor and major cultural changes during that time. Hohokam researchers essentially have conceptualized irrigation as existing in a world apart from the wider Hohokam society.

Research Question

The primary focus of this dissertation research is the relationship between water insufficiency and broad-scale social change. The water sufficiency analysis (Chapter 7), and contributing components are carried out to examine if major sociopolitical changes were related to persistent water deficits. Water insufficiency, as an indicator of problematic agricultural production, has been investigated before within the Phoenix Basin (Howard 1993; Hunt 2007; Woodson 2010), but not at the irrigation scale documented in the lower Salt River Valley. It is unknown if or when water deficits caused prolonged agricultural failures that may have shaped the trajectory of Hohokam cultural development. Therefore, the overarching question addressed is: Could water insufficiency have prompted sociopolitical change among the Hohokam? Specifically, were long-term water deficits a catalyst for the two most consequential transitions in Hohokam prehistory? First, a shedding of Preclassic cultural traits marked the Preclassic/Classic Transition (A.D. 1070-1100/1150) (e.g., the collapse of the ballcourt and marketplace systems, and shift from subterranean to above-ground residential architecture). Second, the early to late Classic period transition (ca. A.D. 1300) was marked by new forms of social exclusion, including towering compound walls and

platform mound ceremonialism (see Chapter 2 for further discussion of both transitions). These cultural hinge points in the developmental sequence are well documented archaeologically, whereas Hohokam researchers have yet to provide viable explanations for their occurrences.

The findings reported here demonstrate that water insufficiency likely had no notable effect related to either the Preclassic/Classic Transition or the early to late Classic transition. As illustrated by a water sufficiency analysis, there was possibly enough water through time for Hohokam farmers to meet agricultural demand. Agricultural success may have been far more nuanced than portrayed by previous water insufficiency studies.

Although the Hohokam likely carried out two agricultural cycles per year, annual demand may have been met during the first cycle alone. The high degree of water deficits during the second cycle hints that any crops grown during that cycle were likely supplementary to the first crop. Further, a bedrock reef at the Canal System 2 intake perched subsurface streamflows and allowed that system's cultivators to tap water that was unavailable to other irrigation cooperatives upriver.

The centerpiece of this dissertation research is an unprecedented reconstruction of irrigation systems along the lower Salt River. An irrigation system is, "composed of (1) a facility (gate, offtake) which takes water from a natural channel and moves it away from its natural downhill course and (2) the subsequent control works (canals, gates, fields) that guide the water flowing on the surface to the agricultural plants until that water either soaks into the earth or flows on the surface out of the control works" (Hunt 1988:339–340). The major Hohokam irrigation systems along the lower Salt were first mapped by Omar Turney. Ever since, Turney's (1929) diagrammatic representation has been a

baseline for Hohokam research, imprinted on the minds of generations of Southwest archaeologists. It is a striking result, therefore, that the largest of those irrigation systems, Canal System 1, is shown here to be four separate systems. Historic aerial photographs and archaeological excavations provided evidence that rather than a single entity, the four systems had their own separate histories of development.

The refined chronology and system layouts significantly altered understanding of agricultural demand used in the water sufficiency analysis. Agricultural production, determined through cultivated acreage, provided snapshot views of Hohokam agricultural success through time. That evidence shows that construction and management of the hydraulic infrastructure was dynamic and continuously modified to meet growing subsistence needs.

Aerial photographs lead to the identification of a fundamentally different structure for Hohokam fields and irrigation management. Agricultural water application likely occurred through the standardized irrigation unit (SIU). As shown here, SIU irrigation infrastructure, which centered on interconnected lateral canals between bifurcated canals, was organized to direct water efficiently through the hydraulic network. Water was able to flow to areas of need, rather than lost once it left a main canal, as suggested by previous Hohokam irrigation models (Howard 1990, 2006). SIU ubiquity across the valley fundamentally alters Hohokam irrigation conceptions. The SIUs provided for relatively easy agricultural production expansion, vis-à-vis Howard (1990), and more efficient water usage.

The Hohokam were well adapted to flooding at various intensities. Hohokam researchers previously pinned the Hohokam collapse to endemic flooding during the late

A.D. 1300s (e.g., Graybill et al. 2006; Hill et al. 2015). The close timing between several high flow years along the lower Salt River and the end of the Hohokam cultural sequence in the lower Salt River Valley convinced some that a direct correlation could be made. Countering this suggestion is an extremely large flood that occurred sometime between the late Colonial and early Sedentary periods (ca A.D. 900). Rather than triggering a societal collapse, the flood pushed the Hohokam toward a new direction. After the flood, there was a proliferation of SIUs across the valley and an explosive expansion of agricultural production. The late Colonial/early Sedentary extremely large flood set the stage for settlement and demographic patterns documented during the Sedentary and Classic periods.

New Methodologies

Prior to this dissertation research, irrigated acreage was estimated through three kinds of methods. First, historic analogy, followed by canal cross-sectional area, and then field location, were used by Hohokam researchers to extrapolate prehistoric irrigated acreage from the Phoenix Basin archaeological record. Each method has limitations for accurately estimating Hohokam acreage caused by historic farmers false reporting in-use acreage (historic analogy method), requiring each canal in an irrigation system to be documented in cross-sectional profile (canal cross-sectional area method), and the limited documentation of known prehistoric fields along main canals along the lower Salt (field location method). Woodson (2010) was able to provide a reasonable link between Hohokam field locations and the field location of their descendants (Akimel O'odham) along the middle Gila River, but an explicit link had not been made along the lower Salt.

A new contribution to Hohokam agricultural success research is provided here by a refined irrigated acreage estimation and the development of a methodology for inferring prehistoric lower Salt River monthly streamflows. The irrigated acreage estimate used here differs from previous estimates (also see Chapter 5) because of the SIUs' more precise acreage calculations based on improved predictions of where agricultural production likely occured. Acreage calculations for the SIUs revealed less agricultural production than previously thought.

The methodology for determining monthly water availability avoided previous reliance on annual streamflows for irrigated acreage estimates, since they did not realistically reflect prehistoric agricultural production inferred from the ethnographic record (see Chapter 6). As first noted by Castetter and Bell (1942) and Bohrer (1970), and later refined by Hunt and Ingram (2014), agricultural water needs were likely aligned with specific points in the agricultural calendar (i.e., maize planting and silking). A refined monthly flow, therefore, better approximated the water supply in the lower Salt River during agricultural production.

Organization of the Chapters

Chapter 2 provides a background foundation for the study. It begins with a Hohokam cultural overview that leads into an irrigation summary. Previous attempts to assess cultural change and agricultural success are then discussed. Also, three lines of data are considered, which contributed to the water sufficiency analysis: irrigation system developmental histories, irrigated acreage, and water availability.

Chapter 3 outlines the methodological steps taken to reconstruct lower Salt River Valley irrigation developmental histories. The chapter begins with defining terms used

throughout the dissertation. Then, combining historic aerial photographs with canal data documented during archaeological excavation projects allowed canals to be identified and aggregated into chronological groups for each irrigation system. Of great significance, Canal System 1 was found to be four managerially independent irrigation systems, rather than one.

The irrigation system reconstructions are provided in Chapter 4. The chapter begins with a discussion outlining two noteworthy results uncovered during the dissertation research. A flood greater than any identified in the lower Salt River Valley geoarchaeological record appears to have rushed through the valley sometime between the late Colonial and early Sedentary periods, ca. A.D. 900. It is suggested here that the extremely large flood pushed the local cultivators to reset their irrigation. After the flood, SIUs were evident in irrigation systems across the valley. These units appear to be an agricultural component on which the Sedentary and Classic period Hohokam built their economy.

Chapter 4 then provides developmental histories for all eight of the large irrigation systems in the valley. They included the four systems that were partitioned from Canal System 1 (Crismon, Sedimento, Riverview, and Los Muertos) and four previously defined systems (Coyote, Lehi, Scottsdale, and Canal System 2). The detailed system reconstructions document where in-operation canals were located during each Hohokam chronological period. In-operation canal locations made acreage estimations possible. More easily accessible aerial photographs and all previous archaeological excavation work incorporated here makes the lower Salt system reconstructions the most comprehensive and impactful ever attempted for the Hohokam case.

Chapter 5 uses the irrigation system reconstructions to estimate irrigated acreage. The methodology used for SIU acreage is defined. Bounded by SIU on the lower limit and a buffer method developed by Woodson (2010) on the upper limit, a range allows for acreage estimates through time. The estimated acreages serve to measure water demand for the irrigation water sufficiency analysis.

Chapter 6 provided the other variable necessary for the irrigation water sufficiency analysis, water availability. Annual reconstructed streamflow discharges were modified to approximate monthly flows. Historically documented Salt River monthly trends were used to approximate each month's contribution to the annual flow.

Chapter 7 discusses prehistoric agricultural success along the lower Salt River through a water sufficiency analysis. The goal of the analysis is to identify when water deficits may have caused declined agricultural production and to assess possible impacts on Hohokam society. After first defining the water depth application range, four methodological steps are outlined. In sum, the amount of available water is reduced by each irrigation system until either all systems have received water, or all water was diverted. If all water was diverted, then some systems would receive little to no water.

The water sufficiency analysis results elicited several general insights that substantially alter characterizations of Hohokam irrigation within the lower Salt River valley. Of considerable importance, study data provide little support for the Preclassic/Classic transition and the early to late Classic Period transition being caused by persistent water deficits. Additionally, Canal System 2 longevity appears to be directly attributable to a bedrock reef that extended between Papago and Tempe buttes.

The research results are synthesized in Chapter 8 to place them within a larger Hohokam and anthropological framework. To do so, four topics are discussed: the late Colonial/early Sedentary extremely larger flood, SIUs, the irrigation system reconstructions, and three types of agricultural success (Canal System 2 bedrock reef, first cycle agricultural need satisfaction, and irrigation acreage flexibility). When viewed together, these topics imply that the Hohokam were masterful managers of their multi-generational large-scale irrigation systems, despite facing a variety of hydrological conditions.

CHAPTER 2: THE HOHOKAM AND PREVIOUS CONCEPTIONS OF SOCIETY AND AGRICULTURAL SUCCESS

This chapter provides background for the remaining chapters. The overview begins with a Hohokam cultural summary to provide context to the dissertation research. Next, the discussion highlights past concepts of Hohokam social organization, especially in irrigation operation. The overview then turns to three factors examined during the water sufficiency analysis found in Chapter 7 - Hohokam irrigation system reconstructions (results provided in Chapter 4), Hohokam water demand estimations (results provided in Chapter 5), and reconstructed prehistoric Salt River annual streamflows (results provided in Chapter 6). Background for the three factors provides a foundation for work highlighted in this dissertation.

The Hohokam Cultural Sequence

Archaeologists assign the term Hohokam to the pre-European cultural manifestation and associated people in the Sonoran Desert and Basin and Range Physiographic Province (Péwé 1978:1) in southern Arizona, between A.D. 500 and 1450 (Craig and Woodson 2017:323). As noted by Doyel (1991:231), the full extent of the Hohokam region "encompassed roughly 65,000 sq km (40,000 sq mi) in area from the Verde Valley in the north to the New Mexico border on the east and the international border on the south to Gila Bend on the west" (Figure 1). The geographic and cultural core was in the Phoenix Basin, along the lower Salt and middle Gila rivers. Critically important to Hohokam longevity, those rivers allowed thousands of acres to be irrigated.

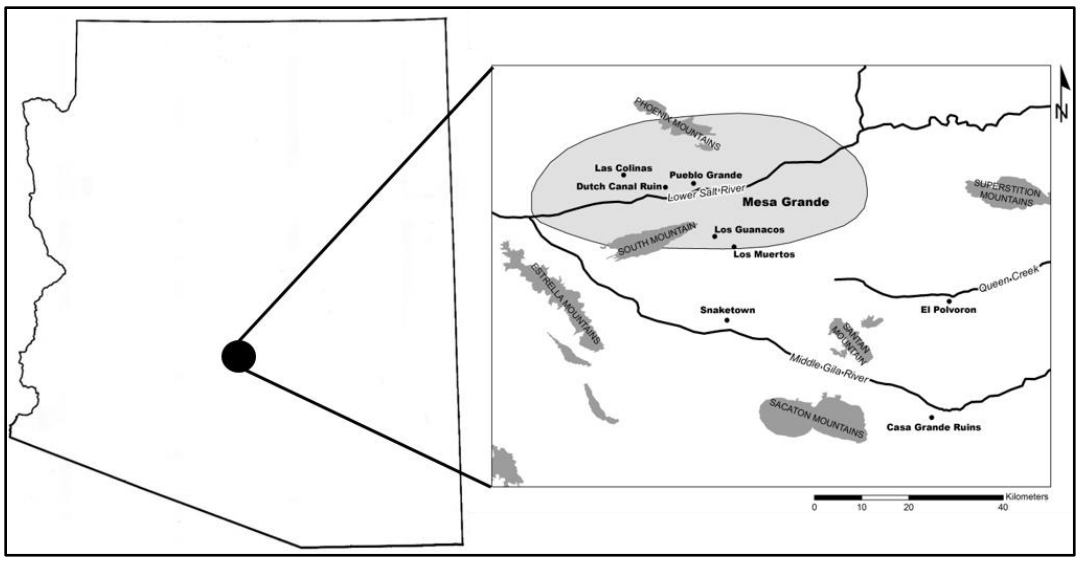


Figure 1. Location of the Phoenix Basin. The gray shading on the inset map denotes the lower Salt River Valley.

Hohokam settlements in the Phoenix Basin relied on canal irrigation to divert water from the lower Salt and middle Gila rivers, because rainfall (totaling approximately 20 cm annually) did not occur in sufficient quantities during the agriculturally productive summer months (Craig and Woodson 2017:328; Hunt 2015:162). Highly fertile land, juxtapositioned between environmental aridity and large rivers, led Hohokam farmers to create one of the largest pre-industrial canal networks north of Peru (Fish and Fish 2007:1). The largest canals are thought to extend up to 25 km; irrigating approximately 4000 hectares (Howard 1993a; Woodson 2010a).

The Hohokam cultural sequence began around A.D. 500 (Table 1), in conjunction with a large-scale subsistence shift from diverse foraging and household-level farming to large-scale intensive irrigation agriculture (Craig and Woodson 2017:331). Villages, with smaller neighboring settlements, were founded along the lower Salt and middle Gila rivers between A.D. 500 and 700 (Wallace and Lindeman 2012). Those villages were

Table 1. Hohokam Cultural Sequence Chronology.*

General Period	Period	Phase	Date Range (A.D.)
	Pre-Hohokam	Red Mountain	?-300
		Vahki	300-500
Preclassic	Pioneer	Estrella	500-600
		Sweetwater	600-700
		Snaketown	700-800
	Colonial	Gila Butte	800-850/900
		Santa Cruz	850/900-1000
	Sedentary	Sacaton	1000-1100
Preclassic/Classic Transition		Santan	1070-1100/1150
Classic	Classic	Soho	1100/1150-1300
		Civano	1300-1450

*Based on Abbott (2002) Chenault (2000), and Dean (1991).

structured by a fairly standardized organizational plan (Wallace 2007; Wilcox et al. 1981; cf. Haury 1976:75). Residential areas, consisting of subterranean pit structure (e.g., pithouses and house-in-pits) groupings oriented toward a common courtyard, were arranged around a central plaza area with public facilities (e.g., cemeteries and communal cooking areas) along their margins, and monumental architecture (e.g., ballcourts) (Wilcox and Sternberg 1983). Ringing an inner circle of residential areas was structured trash mounds. By A.D. 800, most Hohokam individuals were living in a village or closely neighboring settlement (Craig and Woodson 2017:332).

Ballcourt activities, and surrounding periodic marketplaces, were public gatherings that brought individuals together from different irrigation systems, and

beyond, for interactions at different social levels (Craig and Woodson 2017:335). Ball games are thought to have strong ritual significance and forged strong community and cultural identities (Wilcox and Sternberg 1983). The marketplaces would have served an essential role in everyday life because distant producers manufactured many household items (e.g., pottery, shell jewelry, and groundstone; Abbott 2009; Abbott et al. 2007; Fertelmes and Stubing 2019; McGuire and Howard 1987). Coordinating marketplace exchange with ballcourt activities would have concentrated goods from different source locations for wide distribution across the Hohokam region (Abbott 2010; Abbott et al. 2007).

The Preclassic/Classic Transition (ca. A.D. 1070-1200) saw the shedding of Preclassic cultural characteristics across the Hohokam world (Bayman 2001:281; Crown 1991:151–152). The transition included a shift from pithouses to above-ground multi-room adobe compounds (Sires 1987), a rise in inhumations (Crown 1991:152), the collapse of the ballcourt and marketplace systems (Abbott 2010), and social balkanization (Abbott 2003:209). It appears that the Hohokam began to erect social boundaries between settlements within irrigation systems and those outside the systems. Further, they assumed a more localized economy of pottery production within, rather than across irrigation systems.

Social segregation triggered during the Preclassic/Classic Transition was ubiquitously institutionalized by the beginning of the late Classic Period (A.D. 1300) (Abbott 2003; Bayman 2001; Crown 1991:150–153; Doyel 1991:251–252). Gone were mechanisms that allowed for unimpeded social interactions (e.g., open layout of courtyard groups). Instead, barriers took their place. Most notably were towering

compound walls that encircled both residential and public areas. Further, a much more exclusionary ceremonialism took root at platform mounds (Downum and Bostwick 2003; Wilcox 1987a). Although conducted on behalf of the community, these rituals were often obscured behind walls. Despite overlapping settlement locations in some areas, the Preclassic and Classic Hohokam differed fundamentally, both in material culture and social organization (Haury 1991).

Hohokam Social Organization

Hohokam "settlement communities" were sociopolitical units that operated above individual sites (Abbott 2000; Gregory 1991); often composed of larger settlements surrounded by smaller occupations. The distribution of public facilities (e.g., ballcourts and platform mounds) usually define community boundaries (Fish and Fish 1991, 1994, 2000). Villages with public architecture were thought to be a focal point for community integration and administration. As such, communities acted as unified political bodies with strong identities (Craig and Woodson 2017:339).

Above settlement communities were "irrigation communities" (Abbott 2000; Abbott et al. 2006). This social organization integrated farmers living along a common main canal into a unified entity that would have shared operational and maintenance tasks governed by rules that dictated water allocation and dispute resolution (Craig and Woodson 2017:339). The irrigation communities, through cross-cutting social relationships, were likely self-governed by member farmers.

It is thought that task groups were the basic level of irrigation organization (Howard 2006; Woodson 2010a). These groups would have overseen everyday maintenance and operational tasks. Major villages are suggested to have served as

administrative centers for managing activities affecting the entire irrigation system (e.g., main canal maintenance and water allocation). Administrative village primacy in irrigation management is seen to be a possible point of entry for some households to gain disproportionate access to agricultural goods (Woodson 2010a).

The high agricultural potential of irrigation systems in the Phoenix Basin has led to questions concerning Hohokam social organization in irrigation. Researchers debated if social hierarchy structured irrigation management (e.g., Howard 2006; Fish and Fish 2000b; Hunt et al. 2005; Nicholas and Neitzel 1984; Scarborough 2003:127–129; Woodson 2010a). Recent Hohokam irrigation studies have convincingly argued that coordinated management was required to operate the large systems, but the coordination did not necessitate centralized political authority (Hunt et al. 2005). There are no notable personal markers or monuments to individual leaders or households manifest in the Hohokam archaeological record, except a few richly appointed burials (Craig and Woodson 2017:340; Fish and Fish 2000b:155). Instead, some irrigation system members may have been afforded an elevated social status through irrigation management and engineering skills (Howard 2006). Importantly, the privileged social position given to irrigation leaders did not seem to translate into political power. The leaders likely used persuasion, rather than imposing their will on system members (Craig and Woodson 2017:340).

Factors for Studying Irrigation Water Sufficiency

Past Hohokam agricultural success studies (Howard 1990a; Hunt 2007; Woodson 2010a) demonstrate that three components are necessary for asserting irrigation water

sufficiency: accurate irrigation system reconstructions, acreage estimates, and water availability.

Past Hohokam Irrigation System Reconstruction

The mapping of Hohokam canals along the lower Salt River has advanced through several phases. Beginning with the documentation of prehistoric canals and large settlements seen on the ground surface in the late 1800s, reconstructions of Hohokam irrigation have ascribed to a similar organizational structure. Namely, main canals receive river water through headgates and direct it out to agricultural fields. Although recent work has highlighted greater infrastructure complexity, in the form of branch canals to direct water from main canals to field areas, main canals continued to be depicted as the central irrigation feature. All attached canals were therefore seen as an extension of the main canal.

Hohokam canal documentation occurred in four phases. Each phase contributed a line of evidence for reconstructing prehistoric irrigation that was not available during the previous phase. The phases were first generation surface mapping, second generation surface mapping, remote sensing, and cultural resource management.

Phase 1: First Generation Surface Mapping. The Hemenway Expedition conducted the first archaeological documentation of Hohokam canals in the late 1880s (Haury 1945; Hodge 1893). A small crew from the expedition that included Fredrick Hodge (1893) traced possible canal routes (Figure 2) and completely excavated two or more canal segments (Figure 3), as the Los Muertos village was investigated. Unlike the archaeological investigations that followed it, very little land between the river and Los Muertos had been privately acquired and developed for either agriculture or settlement

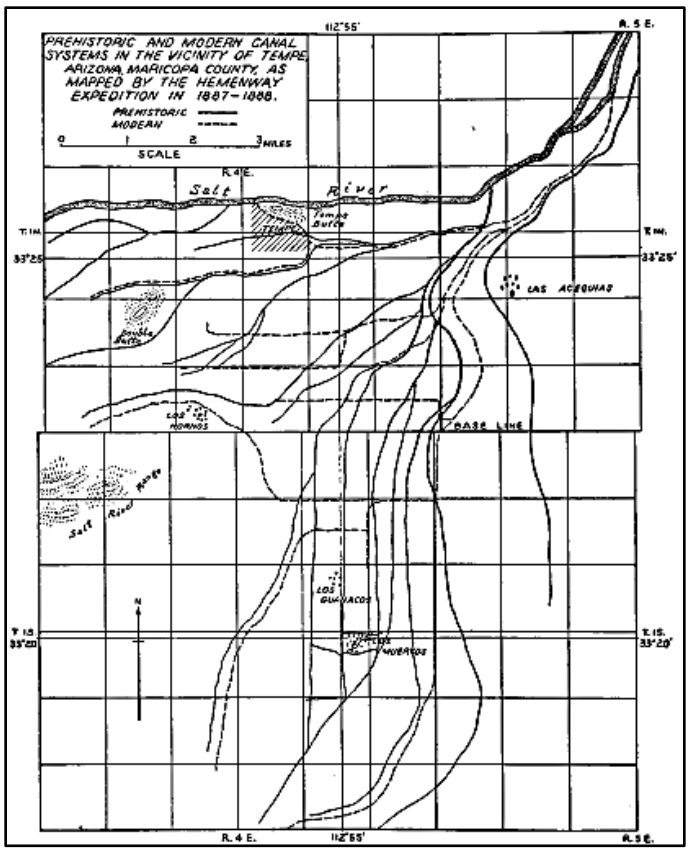
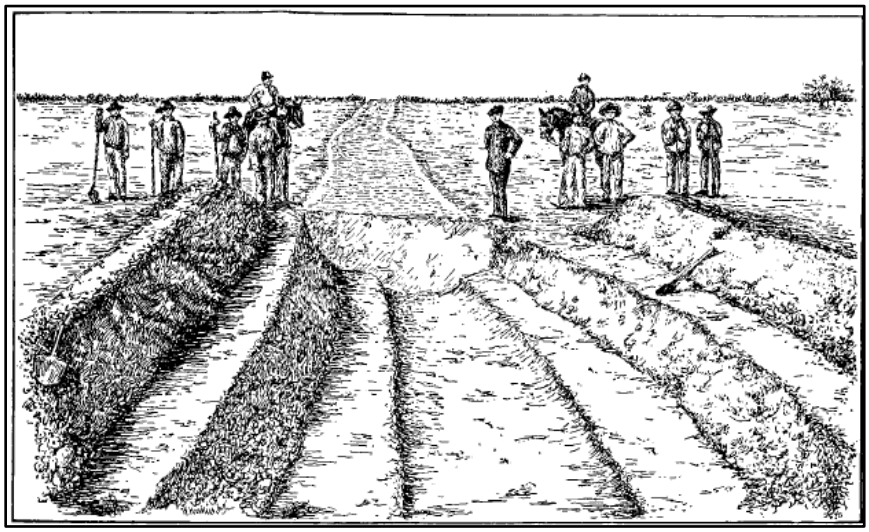


Figure 2. Map recreated from survey and excavation notes made during the Hemenway Expedition (Haury 1945:Fig. 24).


Figure 3. A sketch of the canal that was excavated at Los Muertos village during the Hemenway Expedition (Haury 1945:Fig. 25).

(Figure 4). As such, the channel could be largely traced from Los Muertos village to the river by following canals still visible on the surface (Figure 5) or lines of artifacts (Hodge 1893:324).

The Los Muertos canal documentation was the most impactful of any Hohokam irrigation study. The reliance on canal remnants and signatures visible on the ground surface biased the Los Muertos mapping toward larger canals. Smaller canals that were critical for water delivery to fields more quickly filled with sediment, so were obscured from ground surface documentation. The inability to see smaller aspects of irrigation infrastructure led to the impression that irrigation water was transported along main canals from headgates to fields. The depiction of Hohokam irrigation systems as collections of main canals became the standard model (see Chapter 4 for a detailed discussion of irrigation infrastructure).

The standard irrigation model was scaled up to the level of the lower Salt River Valley by Herbert Patrick (1903). Patrick was a local surveyor that compiled cartographical information on Hohokam canals between 1878 and 1903. The canals Patrick depicted across the valley (Figure 6) became the foundation of the irrigation systems that were later identified as Canal System 1, the Lehi System, the Scottsdale System, and Canal System 2 (see Figure 7; Howard 1987, 1990a, 2006; Turney 1929). Patrick's (1903) illustration of only main canals, therefore, canonized the standard canal model as the Hohokam method of irrigation, not just the way irrigation was organized near Los Muertos village.

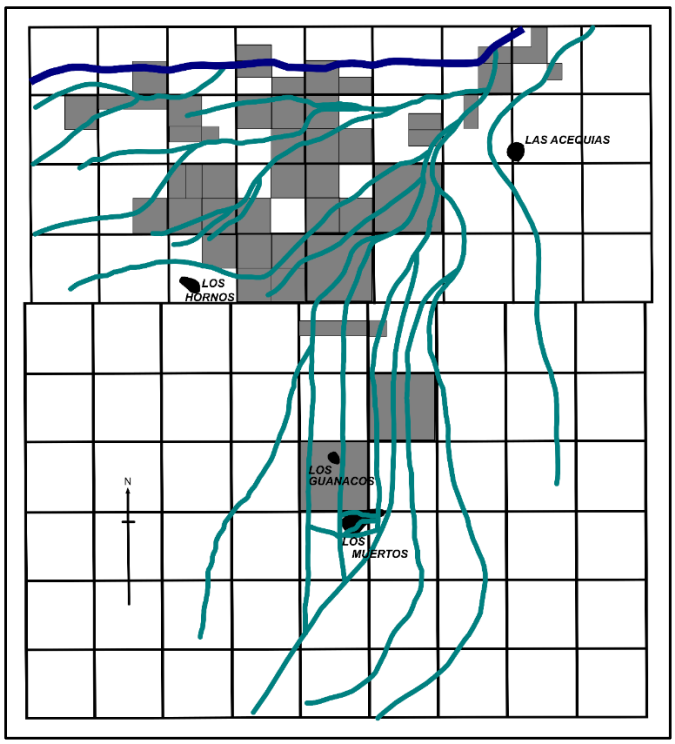


Figure 4. Redrawn Hemenway Expedition Los Muertos canal map (Haury 1945:Fig. 24) depicting sales-cash land patents and homestead residence made before 1887 (gray shading). The dark blue line denotes the lower Salt River. Aqua lines denote prehistoric canals. Land claim information acquired from the Bureau of Land Management (BLM), General Land Office (GLO) Records Automation website (https://glorecords.blm.gov/default.aspx).

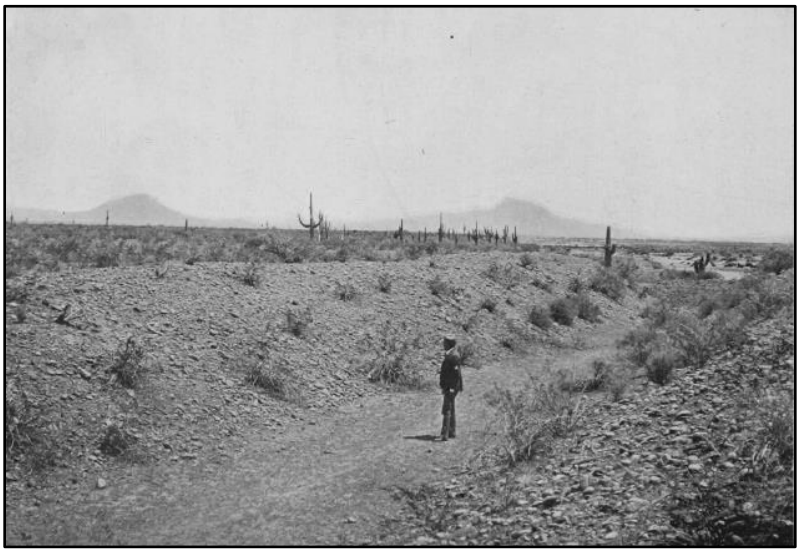


Figure 5. Example of an intact Hohokam canal seen around the turn of the twentieth century (Hodge 1893:5). The photographed canal was located on the north side of the lower Salt River, in the Scottsdale System.

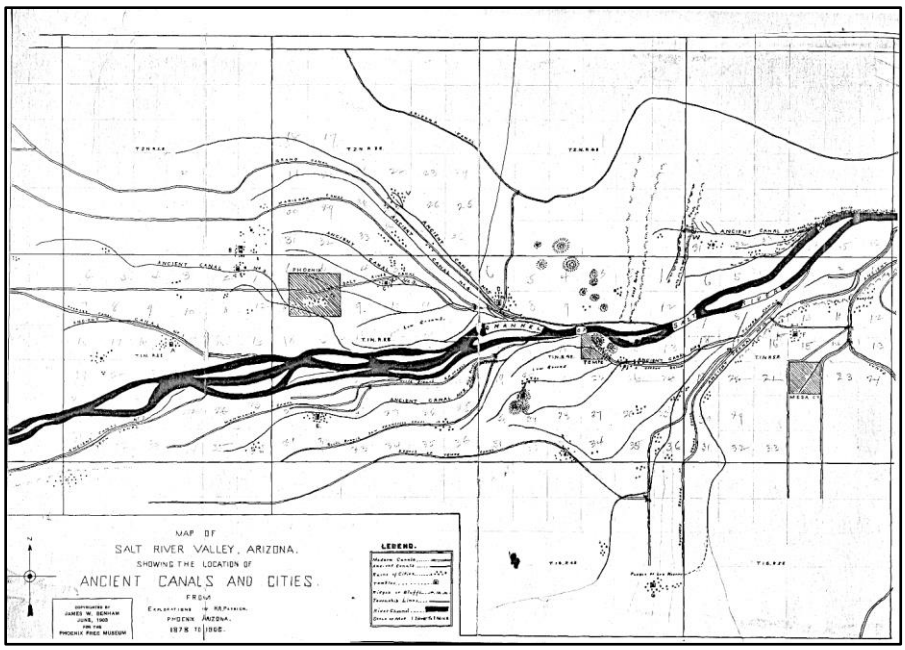


Figure 6. Prehistoric canal map produced by Herbert Patrick (1903:Plate II).

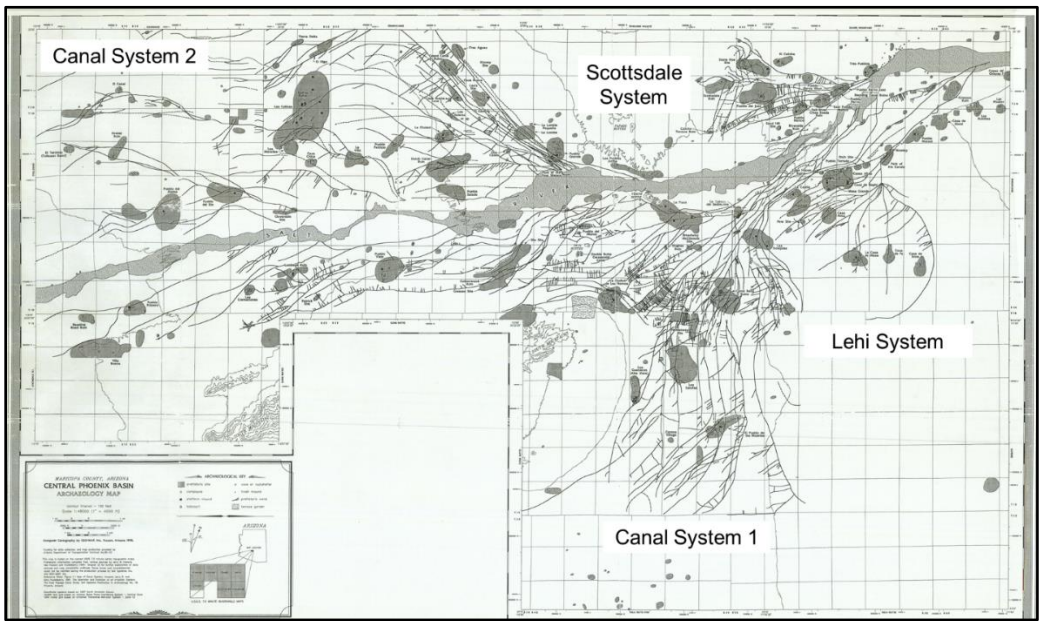


Figure 7. Major Hohokam irrigation systems along the lower Salt River. Labels added to Howard (1992).

The reliance on canal signatures visible on the ground surface constrained the first phase of irrigation reconstruction to a superficial view of the archaeological record. Its impact on Hohokam irrigation studies extended further than any other subsequent phase

of work. Subsequent canal documentation phases contributed to the structure of prehistoric irrigation, but all conformed to the organization boundaries established by the Hemenway Expedition and Patrick.

Phase 2: Second Generation Surface Mapping. The second phase of canal documentation involved an intensification of the surface mapping. Omar Turney (1929), City of Phoenix engineer, used surveying equipment to increase Hohokam canal detail and the number of documented settlements. Turney mapped both platform mound and ballcourt locations, and some residential structures. The mapping vitally showed the full extent of irrigation along the lower Salt River and settlement patterning for areas rapidly disappearing because of urbanization.

Despite identifying some architectural features within settlements, Turney's focus was the prehistoric canals. Turney's limited focus on documenting non-canal features led to a general characterization of settlement patterns that shaped future interpretations. While Turney depicted ballcourts and platform mounds where he believed they once existed, he illustrated domestic architecture and other features (e.g., trash mounds and hornos) as a cluster of dots. Turney therefore visually represented the Hohokam world along the lower Salt as main canals directing water to settlements with ballcourts and platform mounds, orbited by clusters of domestic features.

Turney's attention to mapping Hohokam remnants was carried on by Frank Midvale. Early in his career, Midvale worked with Turney to map Hohokam features (Wilcox 1987b:1). Midvale's interest in accurately documenting prehistoric sites permeated throughout his work until his death in the early 1970s. Midvale integrated surface signatures with landowner discussions to reconstruct the location of

archaeological remains. These interactions shaped Midvale's interpretation of the structures and canals that once existed (e.g., the purported Crismon Ruin ballcourt and the Casa de Mesa platform mound). Midvale (1968:29–30) devised and followed a list of nine indicators of buried canals. These characteristics allowed him to identify buried canals with a high level of confidence.

Midvale conducted excavations at sites like La Cuidad (Wilcox 1987b) and Mesa Grande (Placona 1979; Stewart 1967), but it is unclear to what extent he excavated canals. If Midvale did not excavate canals to correlate his surface documentation, then his characterization of Hohokam irrigation is narrow in scope (e.g., a snapshot of the last canals in use rather than canals used through time).

On early versions of lower Salt River canal maps (Figure 8), Midvale depicted the Los Muertos headgate location in a range and township section northeast of the section shown by both the Hemenway Expedition (Haury 1945:Fig. 24) and Turney (1929). An undated alteration of Turney's (1929) canal map made by Midvale, likely after 1945, shows a realignment of the Los Muertos canals (Figure 9). Later versions of Midvale's maps (e.g., Midvale 1966) therefore depicted the headgate location several kilometers upriver from any previous canal maps (compare Figure 9 to Figure 8).

It is unclear why Midvale moved the Los Muertos canals headgate location. There is no known record of archaeological excavations in the area of Midvale's realignment. Midvale's canal paths, however, are useful for proposing connections between excavated canal segments (e.g., Howard 1990). Caution must be exercised because they are not necessarily tied to observed features. Midvale relied heavily on the recollections of older landowners, vis-à-vis excavation, to determine the location of destroyed structures, as

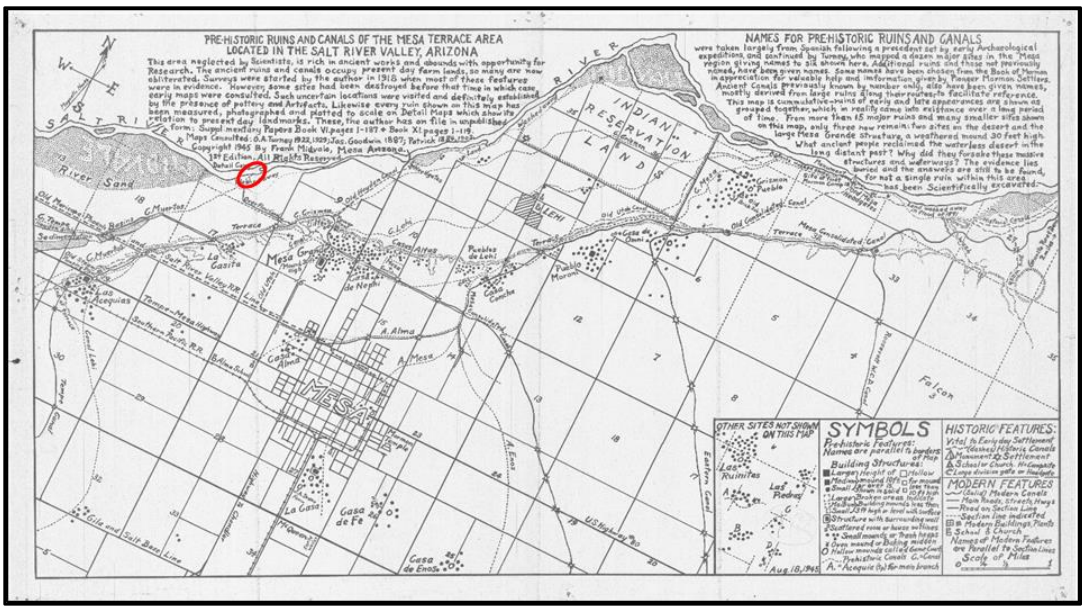


Figure 8. Midvale's (1945) early depiction of canals south of the lower Salt River. The red oval denotes the headgate location of the Los Muertos canals.

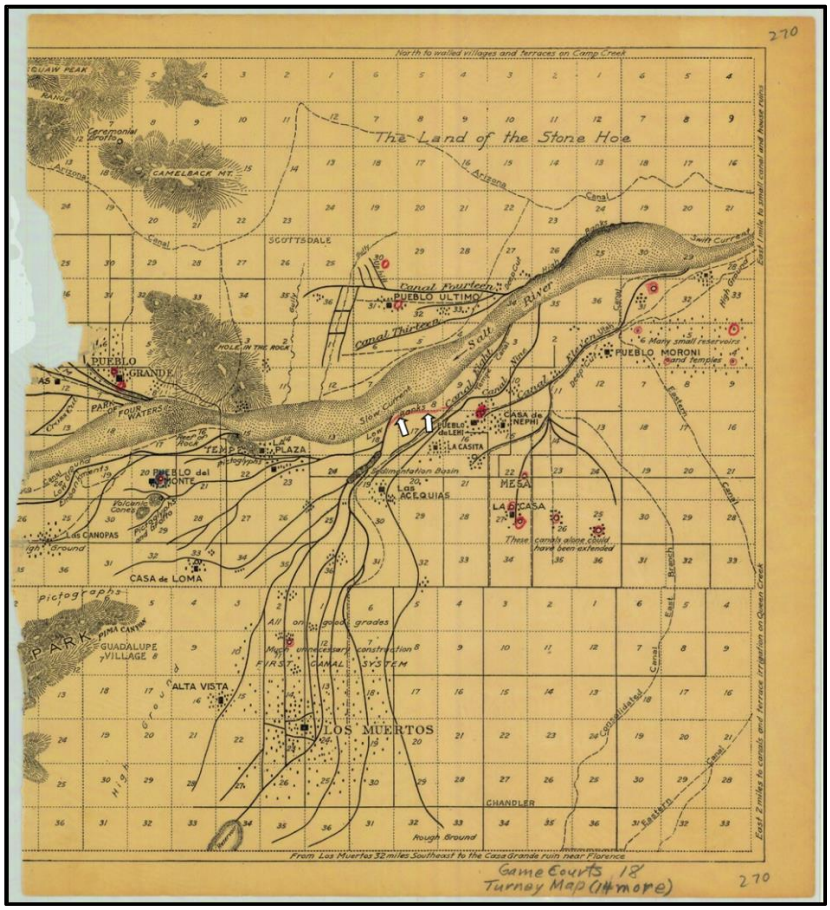


Figure 9. An undated alteration of Turney's (1929) canal maps made by Midvale depicting the realignment of the Los Muertos main canal (white arrows).

illustrated by the inability to locate the ballcourt proposed by Midvale for Crismon Ruin during right-of-way clearance (Henderson 2011). Aspects of Midvale's maps that greatly differ from previous canal depictions and are not collaborated by excavation data therefore need to be viewed with skepticism.

The second phase of canal documentation benefited from an increased body of lower Salt River Valley archaeological information and understandings about Hohokam culture discovered along the middle Gila River and in the Tucson Basin. The lack of subsurface investigation of buried canals led to an elaboration of the first phase maps, rather than providing new insights into prehistoric irrigation.

Phase 3: Aerial Remote Sensing Technology. Remote sensing pushed the study of Hohokam canals forward by providing archaeologists a vantage point of irrigation infrastructure not possible at the surface. The earliest remote sensing technology employed in the lower Salt River Valley was aerial photography. Since 1930 (Judd 1931), irrigation researchers have viewed prehistoric canal networks from high above the ground surface. Despite being long-buried, the subsurface canals retain moisture longer than surrounding areas (Cox 1992; Masse 1981:411). Finer channel sediments trap residual water, due to their higher hydrological storage capacity than the surrounding substrate, causing those areas to stand out. Prehistoric canals outside archaeological investigation areas therefore came to light through documentation facilitated by aerial photography. Additionally, the photographs revealed new channels that connected previously documented canal segments.

In 1930, Neil Judd (1931) (Division of Archeology curator at the Smithsonian Institution), with the assistance of a US Army Air Corps pilot and photographer,

conducted the first Phoenix Basin aerial survey, at the solicitation of Arizona Senator Carl Hayden. The project's goal was to find evidence of prehistoric canals long-thought destroyed. The photographs captured prehistoric canals that were not visible at ground level, as hoped (Figure 10). Judd (1931:166) insightfully noted, "[r]eaching across these fields and under these houses, light or dark streaks mark former prehistoric Indian canals which only the aviator may readily detect... Slight differences in vegetation, imperceptible when close at hand, take on color variations that enable one at a considerable height to retrace works which otherwise have been wholly effaced."

Despite the stated goal of mapping the prehistoric canals, Judd did not produce a canal map based on the aerial photographs. The use of aerial photography to aid canal mapping did not occur until the second half of the twentieth century.

The effectiveness of aerial photography for identifying buried canals was tested in the early 1970s. Robert Herskovitz (1974; Herskovitz and Hartmann 1981), an employee of the Arizona State Museum, was contracted to mitigate encountered archaeology before the extension of the US 60 Freeway through the City of Mesa. Herskovitz acquired an aerial photograph taken of the project area in 1964 by the Arizona Department of Transportation to aid his search for ancient canals. Using Turney's (1929) canal map as a reference, Herskovitz (Herskovitz and Hartmann 1981:Fig. 12) constructed a map of possible buried canals seen in the 1964 photograph (Figure 11). With this map in hand, Herskovitz was able to demonstrate that two canals seen on the map were canals he excavated (AZ U:9:46 [ASM] Feature 12 and 19). The ability to "ground truth" canal signatures identified in an aerial photograph gave support for the acceptance of remote sensing canal documentation.

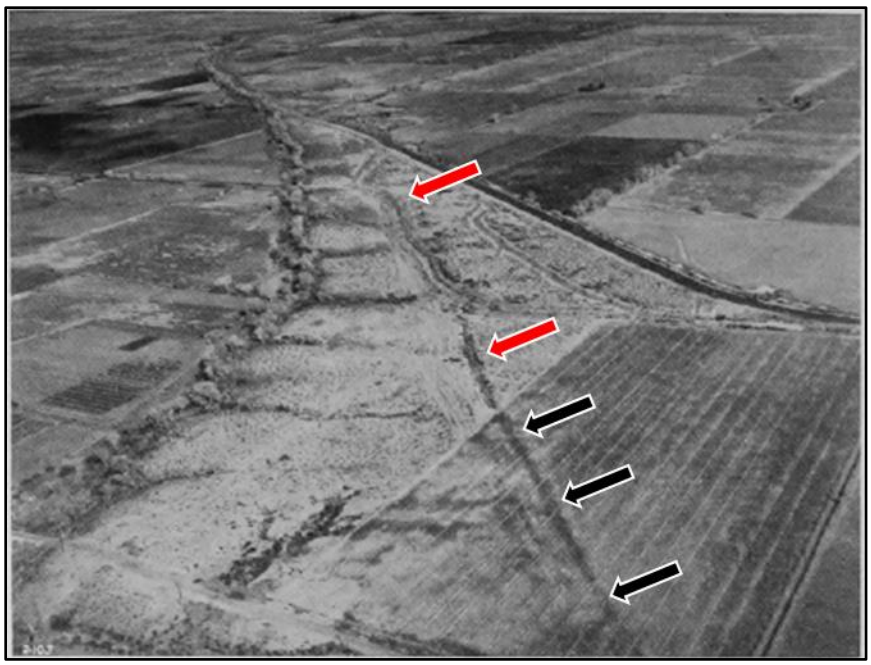


Figure 10. Aerial photograph taken during the 1930 aerial survey conducted by Judd (1931:Fig. 136). The photograph depicts the main canal of the Lehi System after transitioning from the Lehi terrace to the Mesa terrace. Red arrows denote the portion of the canal that was visible on the ground surface. Black arrows denote the portion of the canal that was not visible on the ground surface, but was identifiable from the air because of its subsurface linear signature.

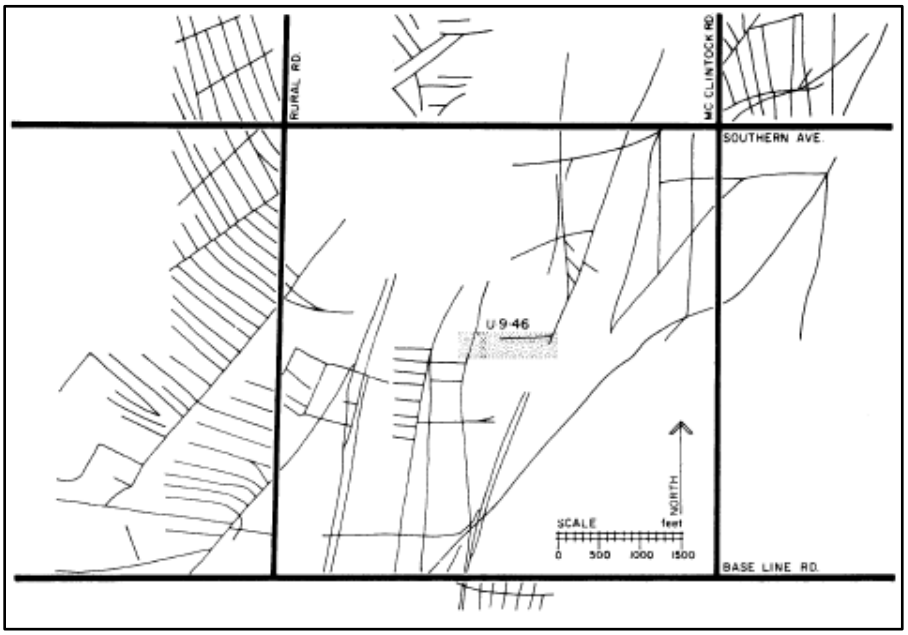


Figure 11. The prehistoric canal map Herskovitz (Herskovitz and Hartmann 1981:Fig. 12) created from a 1964 aerial photograph provided by the Arizona Department of Transportation.

Herskovitz limited canal signature ground truthing to the freeway project area. Wide-spread systematic integration of aerial photographs and ground truthing was left for future research.

Less than a decade after Herskovitz's work, Bruce Masse expanded the utility of aerial photography beyond possible canal locations in excavation project areas. Masse (1981) discovered that available photography had fine enough resolution to document multiple levels of irrigation infrastructure, not just large canals. Masse (1981:411–412) identified main canals dividing into branch canals, at the high level of hydraulic infrastructure. Between the branch canals were lateral canals that transported water to agricultural fields. Masse insightfully concluded that irrigation water did not follow a set main, branch, and distribution canal progression, from river to fields. Instead, water could enter one main canal and intermix with water from another canal down the network until it was used to irrigate fields or was lost.

Masse's profound insight into the structure of Hohokam irrigation had a limited impact on Hohokam scholars. Later researchers (e.g., Howard 2006; Woodson 2010a) did discuss the interconnected network Masse identified, but suggested it was a refinement of Turney's (1929) work, rather than a new model of Hohokam irrigation. The long-standing characterization of Hohokam irrigation established during the first phase of mapping was therefore reinforced, rather than fundamentally altered.

Satellite imagery was advocated as the next step forward in prehistoric canal documentation. Satellite imagery provided a continuous visual record of the lower Salt River Valley, unlike the patchwork of individual aerial photographs used during previous projects (Herskovitz and Hartmann 1981; Judd 1931; Masse 1981). The imagery extent

allowed for the tracing of buried canals over their entire length, from intake to terminus. The first attempt at this was carried out by the National Park Service (Ebert and Lyons 1980). Images captured by Skylab III and Landsat MSS were enlarged to facilitate the identification of canal features not easily identifiable in the original image sizes. Skylab III's cameras produced black and white photographs, whereas Landsat MSS recorded reflectivity in multiple bands or wavelengths. The combination of both types of imagery allowed researchers to identify canal signatures that were both visible to the human eye and those that were not (e.g., infrared).

Ebert and Lyons (1980) proposed that the identification methodology was valid because identified buried canals aligned with nearly 80 km of Hohokam canals depicted on Turney's (1929) irrigation map. Documentation was limited to larger canals due to the low image resolution (90 x 90 m per pixel). Fine-grain details Masse (1981) identified therefore were not visible in the satellite imagery.

A refinement to satellite photography methodology for canal documentation was attempted by Pamela Showalter (1993). The next-generation satellite equipment, Landsat TM, recorded the ground surface reflectivity at a finer resolution (30 x 30 m) and in more spectral bands than Landsat MSS. Additionally, advances in image processing software since the National Park Service work allowed for the combining of three bands into a single composite image and image enhancements (e.g., edge enhancement). Showalter used the software to create a computerized composite picture of Landsat TM band images taken in 1986. She then traced the prehistoric canal signatures onto acetate for map construction. The results were then digitized using AutoCAD and compared to available canal maps.

The increased pixel resolution of Landsat TM did allow for smaller canal identification, but it did not produce radically different results from the National Park Service project. Showalter (1993:86) found that only 7.05% of the canal signatures she identified in the satellite images corresponded with canals on available maps. Showalter's results highlight the inherent shortcoming of satellite photography. Imaging remote sensing technology requires both a clear view of the ground surface and sufficient contrast between canals and the surrounding area. Historic aerial photographs show that by the 1970s, a large portion of agricultural land in the lower Salt River Valley had been converted for other uses (e.g., housing). The decrease in agricultural land reduced the number of areas where buried canal signatures would be visible. Canal signatures therefore appeared as a jumbled assortment of short segments, rather than continuous channels. Despite the potential satellite imagery held for documenting Hohokam canals, the technology arrived too late to provide a substantial contribution.

Phase 4: Cultural Resource Management. Projects conducted in response to historical preservation laws, under the rubric of cultural resource management, are the final canal documentation phase. This phase differs from previous ones because existing prehistoric canal maps were refined through synthesizing university and publicly sponsored archaeological project results. It was reasoned that new insights into Hohokam irrigation structure and function could be elicited by interpreting the untapped dataset. The proliferation of road and public use projects in the 1980s and 1990s led to the amassing of a large piecemeal canal dataset. From these data, two individuals ignited cultural resource management mapping that continues today.

A profound and fundamental insight into Hohokam irrigation was derived from the Master's thesis work of Linda Nicholas (1981; Nicholas and Feinman 1989; Nicholas and Neitzel 1984) at Arizona State University. Prior to Nicholas' work, Hohokam canals were depicted as monoliths of the landscape that had remained unchanged since their original construction (e.g., Midvale 1966; Turney 1929). The same canals were depicted on maps, regardless if the temporal focus was the Pioneer or Classic periods. Nicholas (1981) fundamentally upended this misconception through survey data. Nicholas plotted sites occupied during each period, based on dating information collected by the Department of Anthropology at Arizona State University. Settlement distribution then informed the probable canals in operation. Nicholas' results showed that Hohokam irrigation systems grew to their large size over time, rather than constructed in their entirety from the beginning.

The fundamental issue with Nicholas' study was the lack of cross-sectionally documented and securely dated canals at the time of her work. Data available to Nicholas were precise enough for her to identify the growth of irrigation systems, as indicated by settlement occupations, but not refined enough to document the mechanisms of growth. Without a subsurface view of canals, provided by canal excavations, Nicholas assumed that once built canals remained in operation until the end. As such, a canal constructed during the Pioneer would remain in operation until the entire system fell out of use. The growth of irrigation systems were therefore carried out through the accretional addition of new sections onto preexisting canals. An aspect first suggested by Woodbury (1961). The further accumulation of excavation canal data showed Nicholas' Hohokam irrigation model to be incorrect.

Jerry Howard's (1987, 1990, 1992, 1993; Howard and Huckleberry 1991) canal documentation work is the most influential of the cultural resource management phase. Howard's Master's thesis work coincided with the proliferation of ADOT road work, especially north of the lower Salt River in the Canal System 2 area, providing unprecedented access to canal exposures. Unlike previous canal investigations, Howard was able to collect and correlate canal cross-sectional data from different locations along a single canal alignment and link them together. The linkage analysis used multiple variables to determine if two cross-sections were part of the same canal or not (Howard 1990a:45–57). Canal cross-sections that had a similar depositional sequence, contained cross-sectional areas consistent with an empirically derived logarithmic equation defining downstream size reduction, and allowed water to maintain a downslope pathway were identified as likely part of the same canal.

Howard's (1990) Master's thesis and subsequent work provided evidence for two important insights into Hohokam irrigation. First, the examination of canal cross-sectional profiles showed that the Hohokam constructed the artificial channels to maintain an "optimal gradient" (Ackerly 1982; Howard 1990, 2006). The gradient or canal bed slope, which was determined by the surrounding landscape slope, was found to be at a relatively consistent slope over the entire course of a canal. Constructing canals at the optimal gradient therefore ensured water flowed at a rate that allowed it to reach the end of the canal without excessive erosion or sedimentation. The optimal gradient used in canals by Hohokam irrigators necessitated new main canal construction when irrigation systems expanded. Data collected during cultural resource management projects demonstrated systems could not grow, as Nicholas (Nicholas and Neitzel 1984:176–177)

and Woodbury (1961) contended. Extending canals would have also required the cross-sectional area to increase. Further, the gradient at the junction between the canal extension and the existing channel would differ, causing a sudden change in flow characteristics (e.g., too shallow a gradient in the extension would cause decreased velocities and increased sedimentation). Gradient consistency over the entire length of a canal evinced the necessity for new main canal construction when irrigation systems grew (Howard 1990, 2006).

Second, main canal reconstruction was indicated by maintenance and reconstruction sequences documented in canal cross-sectional profiles. Canals were often cleaned (e.g., operational sediments removed) and reconstructed along the same path when channels filled or were damaged (Howard 1990, 2006). In cross-sectional profile, the excavators could see if a canal was constructed, filled with sediment, and a new channel destroyed part of or accumulated on top of the older one. This line of evidence showed that Hohokam farmers adapted canal locations and size to meet current needs, rather than maintaining the remains of the oldest canals in a system. Howard demonstrated that prehistoric farmers were not rigidly anchored to a monolithic irrigation structure.

Howard's synthesis of cultural resource management data provided an unprecedented view of Hohokam irrigation. These data confirmed prehistoric canals were highly engineered and changed through time. Despite the high-quality data Howard (1990, 2006) used to document Hohokam irrigation, he faced the same issues as previous irrigation researchers - data bias. Howard pulled together canal information from across the lower Salt River Valley, but the most abundant and detailed canal data came from

Canal System 2. In that irrigation system, Howard (1990a; Howard and Huckleberry 1991) found an infrastructure that was exquisitely constructed to the topography of the area north of the lower Salt. Main canals were forced to follow a single path once construction began to ensure it maintained an optimal gradient. South of the river and east of Tempe Butte, however, Howard (2006) suggested farmers were not closely tied to topography but could construct canals to almost any point across the landscape, based on a limited number of excavations. Instead of using that canal information from south of the river to reevaluate his irrigation model, Howard identified farmer unboundedness from topography as a particularity of the geography south of the river (e.g., canals were not restricted to transport water in a single direction, but in many possible angles away from the river). The model Howard (1990) developed from Canal System 2 data therefore remained relatively unchanged despite its dependence on particular geomorphic conditions.

The fundamental issue with the latter three Hohokam canal documentation phases was the implicit acceptance of previous irrigation maps as a snapshot of how the Hohokam canal network structure. The lines of evidence added during each phase did improve our understanding and refine prehistoric irrigation system resolution, but ultimately, the refinements were only slight alterations of the irrigation systems originally documented by the Hemenway Expedition. Several sets of recently available historic aerial photographs signal that a reevaluation of the prehistoric irrigation structure is needed.

Canal System 1 and the Riverview Archaeological Project. Canal System 1 was the largest and earliest documented of the four major Hohokam irrigation systems along

the lower Salt River (Haury 1945; Howard 2006). The system received little research attention due to its location on the south side of the valley and away from active research in Canal System 2. Little systematic excavation occurred, vis-à-vis the system's acreage size, excepting Price Freeway right-of-way clearance (Masse and Layhe 1987; Ackerly and Henderson 1989), a few spatially confined excavations carried out by Arizona State University (e.g., Howard 1984), and much later, the Loop 202 right-of-way clearance (Mitchell and Motsinger 1998; Powell and Boston 2004). Instead, the Canal System 1 developmental history was inferred from surface survey data (Nicholas 1981; Nicholas and Feinman 1989; Nicholas and Neitzel 1984) and settlement data (Howard 1990b, 2006; Howard and Glass 1995).

In 2005, an opportunity to chronologically reconstruct Canal System 1 arose.[2.1] Prior to the construction of a retail center, the Arizona Museum of Natural History carried out an excavation operation (Riverview Archaeological Project or RAP) to document and date Canal System 1 canals. Curator of Anthropology and Project Director Jerry Howard suspected that a geographic constriction formed by the river to the north and the Lehi terrace to the south would have forced all Canal System 1 main canals through the project boundaries (Figure 12). The documentation process revealed that main canals did indeed pass through the project area. Unexpectedly, the largest and southernmost main canal was the earliest, based on in the field observations and single-grain optically stimulated luminescence (OSL). Dating revealed that the earliest canal was in operation during the Colonial Period, if not earlier. Further single-grain OSL samples from canals north of the Colonial canal reveal that they operated between the Sedentary and Classic periods.[2.2]

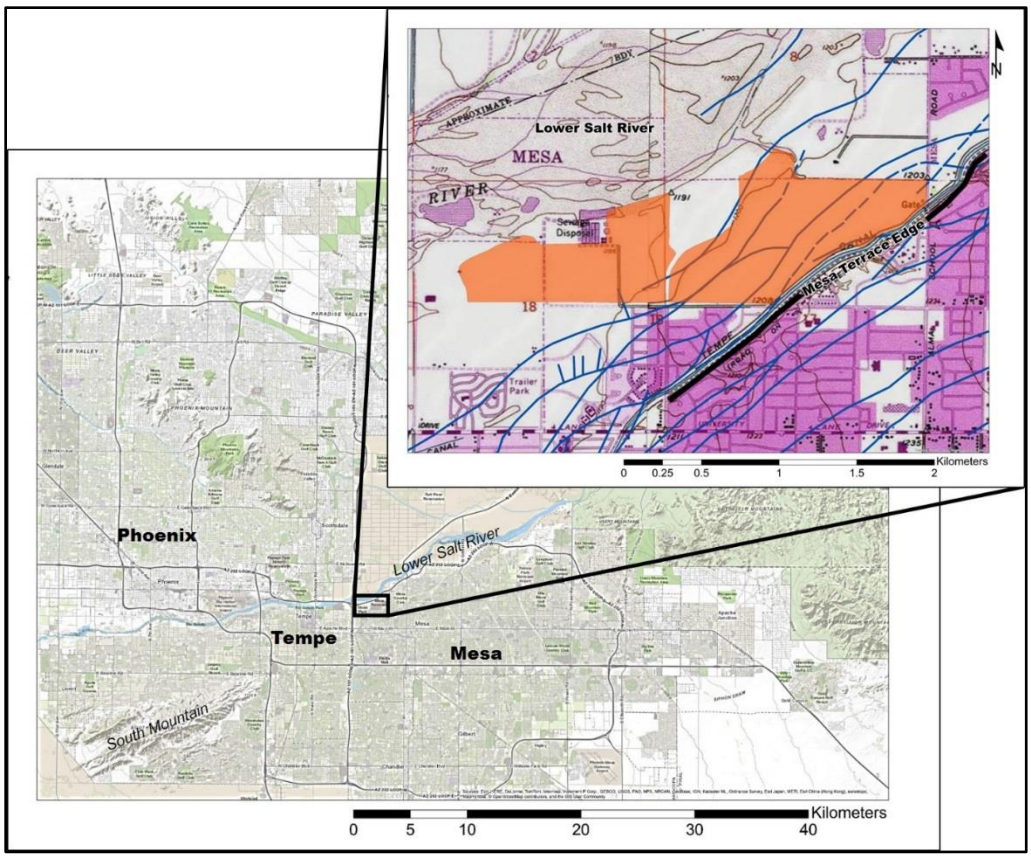


Figure 12. Location of the Riverview Archaeological Project. Orange shading within the inset denotes the project boundaries. Blue lines denote the location of possible Hohokam canal locations on previous Hohokam irrigation system maps.

The RAP indicated that Canal System 1 likely operated from the Pioneer through the Classic. This chronology fit well with previous Canal System 1 reconstructions (Howard 2006; Nicholas 1981; Nicholas and Feinman 1989; Nicholas and Neitzel 1984). However, the irrigation system reconstruction methodology outlined in Chapter 3 revealed that Canal System 1 was not one irrigation system, but four.

Past Contributions to the Estimation of Hohokam Water Demand

Interest in the prehistoric water demand in the lower Salt River Valley extends back to the beginnings of Euroamerican agricultural production in the valley. Civil engineers and agricultural economists, in addition to archaeologists, speculated about the

amount of land ancient farmers irrigated (Ackerly 1989a:7–12). Their differing perspectives led to three phases of water demand estimation.

Phase 1: Historic Agricultural Production Analog and Canal Length. The work of agricultural economists and civil engineers dominated the first water demand phase. Although both perspectives relied on the ancient canal remains visible on the ground, they extrapolated irrigated acreage differently from one another. Agricultural economists suggested that the extents of prehistoric and historic irrigation were similar and thus, historic acreages were indicative of ancient ones (Ackerly 1989a:11). According to Code (1902:11) and Means (1901:287), the Hohokam irrigated 120,000 or more acres along the lower Salt River, based on farmer self-reporting from the turn of the century.

Agricultural economist Arthur Davis (1897a) raised caution about accepting self-reporting acreage values provided by farmers and irrigation system operators. Water rights were appropriated based on the reasonable use of water, so it was in the interest of the water users to claim all possible agricultural land was irrigated, rather than the actual in-use acreage. As such, farmers exaggerated irrigated acreages by four to five times actual totals (e.g., farmers reporting that a full 160-acre water allotment was irrigated, but only 30-40 acres were actually in-use; Davis 1897a:53). A detailed census of in-operation agricultural land carried out in the 1890s revealed that farmers within the lower Salt River Valley were irrigating, in actuality, approximately 35,000 acres (Davis 1897a:53–54). The inflated acreages provided by farmers in the valley made estimates of prehistoric acreages derived from historic accounts erroneous.

Although occurring in tandem with the work of agricultural economists, civil engineers approached ancient acreage estimation through the remains of prehistoric

canals themselves. The basic assumption underlying civil engineering estimates was that canal length equated to irrigated acreage (e.g., Haury 1976:147; Patrick 1903:8; Schroeder 1943:380; Turney 1929:19–20). Traced prehistoric canals were thought to feed thousands of irrigable acres across the valley. The civil engineers did not provide the methodology used to estimate acreage from canal length, but it is inferred that all arable land surrounding ancient canals was assumed irrigated. Non-systematic assumptions led to acreage estimates ranging from 100,000 to 450,000 acres.

Two fundamental issues underlaid non-systematic and assumed acreage estimates. First, the methodology assumed that all prehistoric canals documented on the surface were used simultaneously (Woodbury 1961:553). Subsequent work has shown canals in the same area could be constructed and abandoned at different times (e.g., Howard 1990a). Second, the only canal variable that was accounted for was length. Although mentions were made of canal cross-sectional area (e.g., Haury 1976; Schroeder 1943), it was assumed that acreage was a linear function of length (Ackerly et al. 1987:10). Two or more canals of equal length were therefore assumed to have the same acreage, regardless if the canals had different cross-sectional areas.

Phase 2: Canal Dimensions. The second phase of prehistoric acreage estimation attempted to rectify the civil engineering approach inadequacies. The previous approach was revised based on the fundamental assumption that Hohokam farmers did not build canals larger than they needed (Haury 1976:144). In other words, prehistoric canals were not overbuilt but were constructed to parallel agricultural demand. Canal size measurements recorded in cross-sectional profile during excavation projects were said to be indicative of irrigation need (e.g., Howard 1990a; Howard and Huckleberry 1991;

Huckleberry 1998; Phillips and Droz 2004). The amount of irrigated land in operation therefore could be extrapolated from the cross-sectional area of recorded canals.

As discussed in detail by Howard (1990, 1993), several equations are used to calculate irrigated acreage by canal cross-sectional area. Earthen canals quickly buried after construction can appear trapezoidal in cross-section, but most earthen canals conform to a parabolic shape during their use-life (see Figure 13 for a historic example). Lower water velocities in the corners of trapezoidal canals cause sediment deposition leading to a parabolic cross-sectional shape (cf. Chow 1988:Fig. 2-4; Depeweg et al. 2015:191–195). Canals did not maintain a trapezoidal cross-sectional shape throughout their use-life until the wide-spread use of concrete linings, as demonstrated by archaeologically documented historic canals (e.g., Powell et al. 2004).

The estimation of irrigation demand using the canal cross-sectional area method requires multiple equations. The results of each equation, beginning with cross-sectional area, are applied to the next equation. The necessary equations, as discussed by Howard (1990, 1993), are as provided here as a point of reference.

Cross-sectional area for parabolic canals is calculated with the equation:

$$A = 2/3(Ty)$$

Where: A = cross-sectional area

T = top width of canal

y = canal depth



Figure 13. Removing deposited sediment within the Arizona Canal in 1908 (Photograph courtesy of the Library of Congress, HAER ARIZ,7-PHEN.V,1-6). Note the parabolic shape of the canal.

The equation for the wetted perimeter, which is the surface of a channel in direct contact with the flow, is:

$$P = \left(\frac{T}{2}\right) * \left[\left(\sqrt{1 + \left(\frac{4y}{T}\right)^2}\right) + \left(\frac{1}{\frac{4y}{T}}\right) * \ln\left(\sqrt{1 + \left(\frac{4y}{T}\right)^2}\right)\right]$$

Where: P = wetted perimeter

T = canal top width

y = canal depth

ln = log normal

Or as wetted perimeter appears in Chow (1988:Table 2-1):

$$P = (T/2)[\sqrt{1 + x^2} + 1/x \ln (x + \sqrt{1 + x^2})]$$

Where: P = wetted perimeter

T = canal top width

ln = log normal

x = (4 * canal depth) / canal top width

Hydraulic radius, a necessary component of the Manning equation (maximum channel velocity), is calculated as:

$$R = \frac{A}{P}$$

Where: R = hydraulic radius

P = wetted perimeter

A = cross-sectional area

Water velocity is calculated by solving the open channel Manning equation:

$$V = n^{-1} * R^{2/3} * S^{1/3}$$

Where: V = water velocity (ft/s)

R = hydraulic radius (ft)

S = hydraulic gradient (elevation difference between two points along a canal bed divided by distance between the two points)

n = coefficient of roughness (e.g., 0.02 for fine sand to 0.035 for river cobbles, typically 0.03 within Hohokam canals; Huckleberry 1991)

Finally, discharge is calculated with the following equation:

$$Q = A * V$$

Where: Q = discharge (ft^3/s)

A = cross-sectional area (ft^2)

V = water velocity ft/s)

Haury (1976:144) suggests that 40 to 70 acres could have been serviced per cubic foot per second of discharge, following irrigation guidance provided by the Bureau of Reclamation (1951:122).

Through the canal cross-sectional area method, coupled with reconstructed prehistoric Salt River streamflows (Graybill 1989; Nials et al. 1989), Howard (2006:240) argued that irrigating agricultural land became more precarious as time progressed through the Classic Period. Howard's (1993b, 2006:240) simulation of Hohokam agricultural production indicated that water demand was met three of four years during the beginning of the Classic and declined to one of four years during the late Classic, for a calculated acreage of 112,000 (Howard 2006:238). Howard's simulation therefore hinted that Hohokam irrigation systems should have collapsed early in the Classic, caused by severe water shortages.

Although the acreage methodology employed by Howard is widely used among Hohokam archaeologists, the archaeological record from the lower Salt River Valley provides a divergent narrative from the simulated irrigation system collapse (Howard 2006:247–251). Settlements within Canal System 2 (e.g., Pueblo Grande, Las Colinas, and Casa Buena), the system of focus for Howard's (1993b) simulation, continued to be occupied late into the Classic, despite the proposed water uncertainty. The acreage values provided by the cross-sectional method are likely over-estimated.

A source of the over-estimation may be traced to Haury's (1976:144) application of historic hydrology method to Hohokam canals. The page that Haury references from

the Irrigation Advisors' Guide (Bureau of Reclamation 1951:122) does not discuss acreage serviced per cubic foot per second (cfs), as Haury's explanation of acreage methodology implies. Rather, the page provides canal size specifications to achieve particular cfs discharges based on a range of gradients. Elsewhere in the Irrigation Advisors' Guide (Bureau of Reclamation 1951:23), one cfs is said to service 40 to 70 acres, but the perimeters determining the number of acres irrigated are not stipulated.

Haury's (1976) acreage estimate appears to be too imprecise for accurately calculating acreage. Modern hydrologic engineers have adopted an equation with a different set of variables (e.g., Martin 2011; Natural Resources Conservation Service 1997:4–3). According to the Natural Resources Conservation Service of the US Department of Agriculture (Schmitt 1996), the following equation is used to find irrigated acreage, as well as other aspects of irrigation:

$$Q * T = D * A$$

Where: Q = Discharge (cfs)

T = Time (hours)

D = Depth of water applied to fields (inches)

A = Amount of acreage to be irrigated

Rather than assuming a set relationship between discharge and acreage, the modern acreage equation quantifies four important aspects of irrigation. The simple equation allows for any single variable to be solved as a function of the other three (e.g., $A = \frac{Q*T}{D}$).

Time is critical for estimating irrigated acreage. Its incorporation, instead of a blanket acreage per cfs of discharge, accounts for the water volume that could be applied to agricultural fields. For example, water applied for two hours will be twice the volume

of water applied for one hour, assuming field area and discharge are equal. The absence of a method for extrapolating time to irrigate from the archaeological record makes estimating acreage impossible.

A second issue with the canal cross-sectional area method is a failure to account for the spatial boundness of agricultural areas. As Woodson (2010a, 2010b:16–17) convincingly argued, agricultural production did not occur everywhere within an irrigation system, but rather, at particular locations (also see Schaafsma 2015). Some excavations of Hohokam sites in the lower Salt River Valley have shown that dispersed structures (e.g., fieldhouses) were located among canals and field areas (e.g., Greenwald et al. 1994; Herskovitz and Hartmann 1981). Other excavations (e.g., Henderson 2015) and aerial photographs (see Chapter 3), however, more commonly show a differentiation between settlements and fields. These lines of data reveal that although networks of canals brought water across an irrigation system, the areas where water was applied to agricultural fields were spatially bound. As such, canals directed water through areas where agricultural production did not occur. Realistic acreage is therefore less than the complete area flanking the entirety of canals.

Accepting that water application only occurred in spatially defined areas raises the question of what canal cross-sectional area indicates about Hohokam irrigation. Alternative to indicating irrigated acreage, it is possible that cross-sectional area is indicative of the distance water was transported from the river. Although main canals could be quite large, it is likely their large size ensured sufficient water pressure could be maintained from intake to the end of canals. Howard's (1990:87–122, 1993a:283–289) work on linking canal cross-sections across Canal System 2 showed that main canals

rapidly reduced in area over the first 10 km, and then slowly declined in cross-sectional area. Howard demonstrated that Hohokam farmers manipulated the canal cross-sectional area to increase water pressure, so main canals channeling water out to settlements tens of kilometers away from the river would need to be quite large to allow for necessary reductions. It is therefore necessary to know where agricultural production occurred to determine actual irrigated acreage.

A canal that transports water a few kilometers away from the river needs less cross-sectional area reduction than a canal guiding water tens of kilometers. As such, the longer a canal is, the greater its cross-sectional area should be at its intake. Without knowing where agricultural production occurred, it is not possible to determine if a canal was large because it irrigated a large area or was large to ensure sufficient water pressure was maintained over long distances. The need to reduce discharge estimates by 75% prior to calculating irrigated acreage (see Ackerly 1989b) may signal that distance was an integral aspect of cross-sectional area, and not accounted for in the canal cross-sectional methodology. It is therefore impossible to estimate acreage based on main canal morphology alone. Hence, I abandon this approach in favor of another one centered on agricultural production.

Phase 3: Location of Agricultural Production. A more recent method for estimating irrigation demand was provided by Woodson (2010a:376–380). Rather than deriving acreage from the canal cross-sectional area, Woodson sought to link acreage to the location where agricultural production occurred. Based on previous work along the middle Gila River (Ravesloot et al. 2005; Woodson 2004), Woodson (2010a:376–380) suggested that laterals were the direct source of water for irrigating crops. Woodson

reckoned that lateral-fed agricultural areas would flank canals on both sides where possible. For example, within the Snaketown System, laterals were suggested to be between 800-1000 m in length, based on the spacing of branch canals and agricultural areas (Ravesloot et al. 2005; Woodson 2004).

Woodson (2010a:378) reevaluated these lengths with data derived from more recent documentation of prehistoric and historic canals in the Snaketown System area. Woodson found that laterals measured between 94 and 464 m, for a mean length of 254 m, rather than 800-1000 m. Woodson then found that the lateral-length range and mean for the Snaketown System area were quite similar to Howard's (2006:148) results south of the lower Salt River. In that study, Howard found that laterals were between 150 and 380 m in length, with a mean of 238 m.

Given the similarities between the mean lateral lengths along the middle Gila and lower Salt rivers, Woodson (2010a:380) applied a buffer along main and branch canals. Buffers extended 254 m perpendicularly from each side of canals. Woodson's buffer method therefore provided a means for estimating irrigated acreage based on agricultural locations. The amount of irrigated land can be estimated if canal lengths, geography, and settlement patterning are known.

Woodson's (2010a) buffer method addresses the shortcomings of the canal cross-sectional area methodology, but it may also over estimate acreage. As discussed in Chapter 5, aerial photographs (e.g., over the Scottsdale System) and excavations at the PHX Sky Train Project area (Henderson 2015), near Pueblo Grande, indicate that agricultural fields likely occurred in bounded agricultural areas. These lines of data

suggest that water was applied in locations between bifurcated canals and not outside those areas (see Chapter 4).

Past Contributions Summary. Irrigated acreage was estimated in three phases prior to this dissertation research. The first phase correlated prehistoric acreage with historically reported acreage. The second phase turned to ancient canals seen on the surface to determine irrigated acreage. Prehistoric acreage was tied to canal length, but not cross-sectional area. The third phase shifted acreage estimates away from canals and to proposed agricultural field locations. Rather than assuming all land along a canal was irrigated, the third phase used information about space between lateral canals and historic agricultural observations to suggest where fields were or were not located.

Excavations carried out since the first two phases have shown that acreage was not fixed as assumed, but changed over time. Further, canal cross-sectional area could not be used to estimate acreage without knowing where agricultural fields existed. Finally, excavations and aerial photography revealed that agricultural production did not flank the length of canals, but occurred at specific locations. The shortcomings of the three phases provide support for the development of a new estimation methodology.

Previous Work on Reconstructing (Retrodicting) the Prehistoric Salt River Annual Streamflow

The lower Salt River Valley is located in the northern portion of the Phoenix Bain of central Arizona (Figure 14; Graybill and Nials 1989:5). Geologically, the Phoenix Basin encompasses many topographic and stratigraphic basins, with the lower Salt River

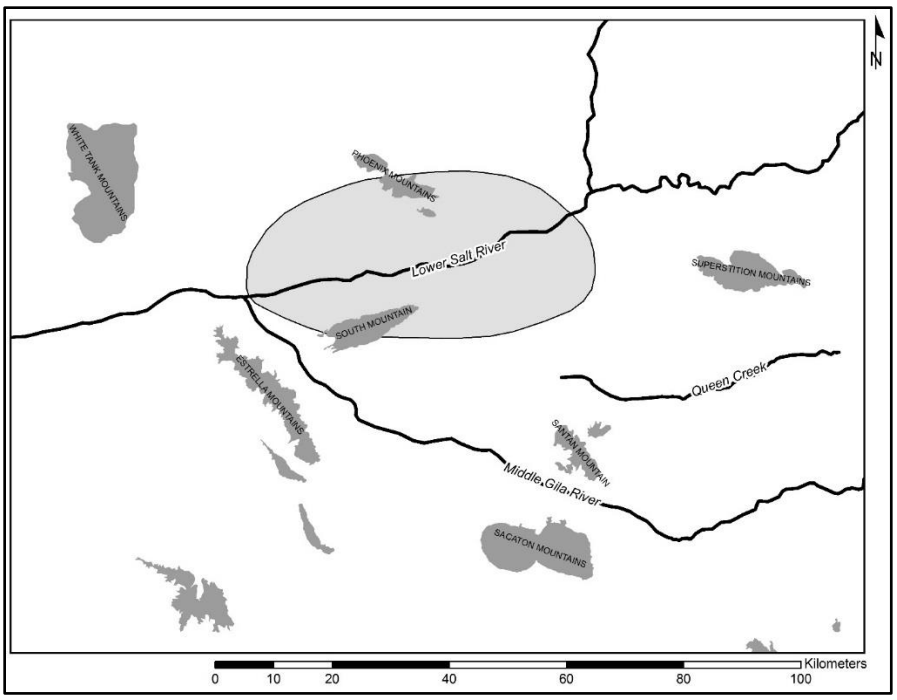


Figure 14. Location of the lower Salt River Valley (light grey shading) in the Phoenix Basin.

Valley forming within an area of tilted fault blocks sliding toward the northeast (Figure 15; Graybill and Nials 1989; Péwé 1978; Reynolds and Bartlett 2002). Lower Salt River flow is comprised of surface runoff captured by tributary streams (e.g., White, Black, Verde, East Verde rivers, and Tonto Creek) and the discharge of springs (Fuller 1987:4; Graf 1983:127; Graybill and Nials 1989:5). The current lower Salt streambed is comprised of cobbles, gravels, and coarse sand with a cap of sand, silt, and silty clay flood deposits (Fuller 1987:7–9; Graf 1983:132; Huckleberry et al. 2013:41). As with many rivers within an arid or semi-arid area, the lower Salt historically did not reach long-term equilibrium (e.g., channel stability) because the flow was not continuous, leading to bank instability caused by reduced vegetation growth (Graf 1983:125; Graybill et al. 2006:81).

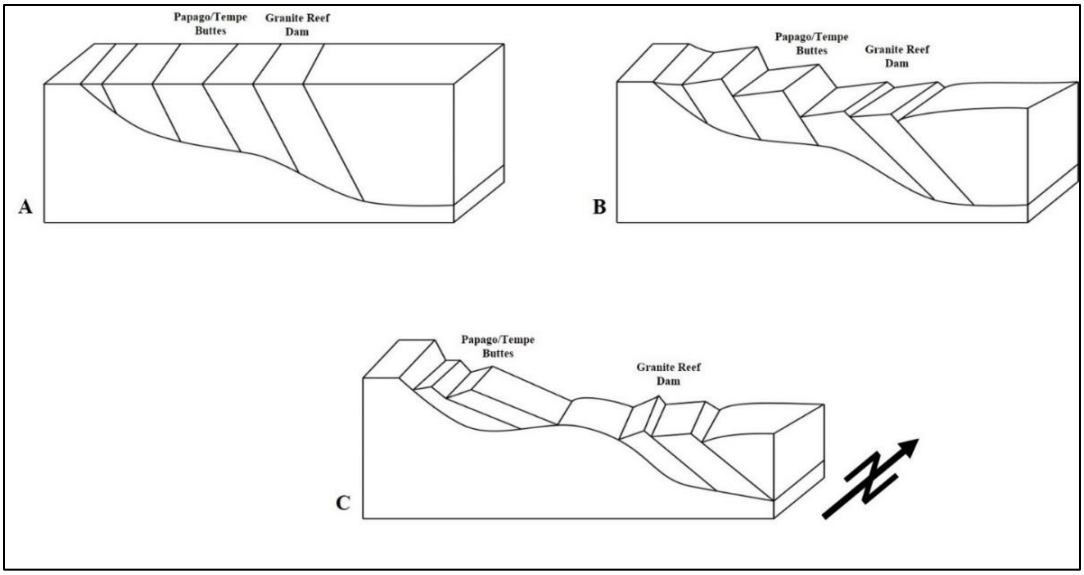


Figure 15. Illustrations of the development of the lower Salt River Valley (modified from Reynolds and Bartlett 2002:Fig. 4). Diagonal faults form approximately 22 mya (a). Tilted fault block form and begin to slide toward the northeast approximately 19 mya (b). Full separation of western and eastern tilted fault blocks approximately 5 mya (c).

Prior to the construction of the Roosevelt Dam in 1911 (Zarbin 1984), and other later dams within the Salt River watershed, the lower Salt was a braided stream with multiple shallow channels (Graybill and Nials 1989). Due to the instability of braided streams, large high energy alluvial events widened the river and caused the main channel of the lower Salt to shift as much as 1.5 km historically (Graf 1983:128; Graybill and Nials 1989:7; Huckleberry 2015:77). Although riverbank erosional downcutting may have occurred in some areas during these events, particularly west of Papago/Tempe buttes in the area of Canal System 2 (e.g., Graybill and Nials 1989:7; Huckleberry et al. 2013; Huckleberry 2015), the ability of the river to shift laterally reduced the severity of erosion, as compared to the more constricted middle Gila River, the other major river within the Phoenix Basin (Ackerly 1989b:58).

The lower Salt River sediment load is unexpected for a river of its size. Davis (1903:41) somewhat comically comments that, "[m]ost of the streams of the southwest

carry a considerable quantity of solid matter which causes annoyance in canals, and has the tendency to fill any reservoir constructed on the stream... There is silt also in the waters of the Salt River, as shown by its occurrence in the canals, but it is not nearly as abundant as [other Southwestern streams]". In reference to the proposed reservoir that would be associated with Roosevelt Dam, Davis (1903:42) goes on to state, "it would require eight hundred years to fill the reservoir [with sediment] if none were drawn off. It would probably be one hundred years before the loss of storage capacity would be seriously felt and it would become necessary to resort to methods of clearing it out." Documentation of the Salt River water column revealed that sediment contribution never reached above 0.01% and several periods had no observable sediment.

In contrast, Davis (1897b:30–32) reported the suspended sediment load or "mud" in the middle Gila River reached as high as 20% of the total water column at several periods during the year. The extremely low amount of canal clogging sediments and the relatively large amount of available water in the lower Salt River therefore provided ideal conditions for the Hohokam to grow the extent of their irrigation infrastructure along the river.

Methodologies for Reconstructing Prehistoric Salt River Streamflow

The first reconstruction of prehistoric Salt River annual streamflows was carried out in association with the excavations at Las Colinas, preceding the expansion of the I-10 Freeway (Graybill 1989). Before the prehistoric streamflow retrodiction, it was implicitly assumed that Hohokam farmers were regularly able to direct water to fields (e.g., Haury 1976:144). Irrigated acreage was extrapolated from the volume of water that could have flowed through documented canals (Howard 1990a; Howard and Huckleberry

1991; Haury 1976:144). Historic records of irrigation within the lower Salt River Valley discussed the variation in water availability (Ackerly 1989b; Graybill and Nials 1989), so a reconstruction of prehistoric streamflows was necessary to identify trends in agricultural success and failure that ancient farmers may have faced.

The reconstruction of prehistoric streamflows was achieved through dendrohydrology. The bases of dendrohydrology is the process of tree net food balance over time (Graybill 1989:25). In some species, tree-ring width is largely determined by food production, photosynthesis, and nutrient consumption at the beginning of the growing season. Southwestern arid-site conifers in stressful low forest settings are preferred for dendrohydrology. These trees are most ideal because precipitation is the greatest limiting factor in their growth. As Graybill convincingly demonstrated, the more precipitation sampled trees received, the wider the annual rings were. Therefore, the width of sampled tree-rings provided a correlated measure of precipitation entering the hydraulic system, and thus, the amount of corresponding streamflow discharge.

Following pioneering dendrohydrology work in the Colorado River Basin (Smith 1981; Stockton 1975; Stockton and Jacoby 1976), living trees in the headwaters of the Salt and Verde rivers were cored (Graybill 1989). Annual ring growth per sample site was expressed mathematically, based on the tree-ring measurements. The expressed values were then integrated into an equation to calculate the expected annual growth, allowing for a chronology of tree-ring growth to be constructed for each sample area. Further detail about the mathematical operations for determining tree-ring growth is provided by Graybill (1989).

The dendrohydrological chronology of the Salt and Verde rivers were reconstructed from 10-20 sample site chronologies. In areas of higher tree-ring resolution, fewer sequences were required (e.g., four to five); however, in most cases, multiple sequences per sample site were necessary to bridge the chronological gap between the historic and prehistoric. These chronologies provided the means for determining prehistoric Salt River annual streamflows.

Modern chronologies of living tree-ring sequences were computed for 1800-1979, but documented streamflows extended back to the late 1800s and early 1900s (Graybill 1989). The historic period reconstructed streamflows for the Salt River drainage were "calibrated" against documented streamflows for 1914-1979. The calibration period of the Verde River drainage was 1895-1979. Cross-check adjustments made to the calibration period, based on a comparison of historic streamflow to redacted historic flow, provided confidence in the reconstructed prehistoric streamflows for the combined drainages.

The prehistoric annual streamflows were reconstructed from structural beams found in archaeological sites near the town of Show Low and Grasshopper Ruin for the Salt River and the Flagstaff area for the Verde River. The archaeological tree-ring sequences provided information about annual streamflow for A.D. 1040-1370 for the Salt River, and A.D. 740-1370 for the Verde River. Comparisons of the Salt River and Verde River tree-ring chronologies revealed that there was a "sufficiently strong relationship" between the Verde tree-ring series and the predicted Salt streamflow discharges (Graybill 1989:30). This finding allowed the Verde tree-ring series to project the reconstructed annual streamflows for the Salt back to A.D. 740.

Graybill (1989) acknowledged that the reconstructed annual streamflow for the lower Salt River was limited for understanding water availability, by month, during the agricultural cycle. The total annual streamflow may have been enough to water all in-operation fields, but sufficient water may not be available at key points when it was needed for successful plant growth. Graybill saw the value of the annual reconstruction in its ability to display periods of abnormally high or low streamflows. The multi-year perspective of water availability therefore provided the foundation for work to understand the relationship between water availability and agricultural production.

The application of Graybill's reconstructed annual Salt River streamflows was achieved by defining the perimeters of low and high discharges. Graybill and colleagues (Nials et al. 1989) sorted annual streamflows from highest (2,599,794 acre-feet) to lowest (290,869 acre-feet) discharge. The sorting of discharges allowed for the use of the recurrence interval equation ($RI = \frac{n+1}{r}$): where *n* is the number of years (631) and *r* is the sorted magnitude rank of the discharge (1 [highest discharge] – 632 [lowest discharge]). The equation is widely used to calculate the frequency of a particular discharge (e.g., 10-year floods and 100-year floods).

For example, sorting by Graybill and colleagues (Nials et al. 1989:Table 5.2) revealed that the retrodicted flow of A.D. 899 (2,599,794 af) was the highest of the sequence. Plugging in the appropriate values produced $\frac{631+1}{1} = 632$. The equation reveals that the A.D. 899 discharge is expected to occur only once every 632 years.

The calculation of the recurrence interval revealed that 290 years had discharges above the mean for the reconstructed period (949,648 acre-feet), and 341 years were

below. In total, every 20 years, the annual discharge exceeded nearly all (95% of) flows above the mean. Similarly, flows that were less than nearly all (95%) discharges below the mean were spaced approximately every 20 years apart.

The analysis of periods of high and low discharges suggested that the availability of water fluctuated over time (Nials et al. 1989). Graybill and colleagues found that A.D. 798-899 was problematic for Hohokam irrigation because several high flow years occurred, including the highest flow in A.D. 899. The next period (A.D. 900-1196) differed from the preceding period because annual discharges became stable and likely allowed for the widespread expansion of irrigation across the lower Salt River Valley. The reliability of predictable streamflows was replaced by high variability from A.D. 1197-1355. It was suggested that the fluctuation between years of low flow and high flow put stress on Hohokam irrigators and may have begun to impede irrigation system operational stability. The final period (A.D. 1356-1370) continued the pattern of unpredictable discharges. The aspect that stands out during this period from the previous one is the number of very high flows that occurred over the course of a few years. The final period characteristics were suggested to have been a factor in the decline of Hohokam irrigation within the valley (Nials et al. 1989:75–76).

Several years later, Graybill and colleagues (Graybill et al. 2006) extended the reconstructed annual streamflow record for the Salt River. Their continued work on the dendrohydrological sequences allowed for annual discharges to be reconstructed for A.D. 572-1988. The extension of the record provided annual streamflows for nearly the entire Hohokam sequence. The period of very early irrigation development remained beyond the reconstructed discharge record, but the timing of the formation and development of

complex irrigation systems and significant sociopolitical changes among the Hohokam fell within the reconstructed period. Two new results derived from the expanded dataset were the high variability of annual discharge during the Pioneer Period and the sequence of several years of extremely high flows during the A.D. 1350s and 1380s. The additional data indicated that the relative calm of much of the Preclassic and early Classic was bookended by high water uncertainty.

The interpretations given by Graybill and colleagues for the updated reconstruction of prehistoric annual Salt River streamflows provided important new information pertinent for the study of Hohokam irrigation, but that dataset was not available. Unlike the Las Colinas report (Graybill 1989; Nials et al. 1989), discharge data were provided only in summarized tables, rather than the complete dataset. Particularly high and low flow years were identified, and means, low, and high discharges were given for periods of years, but annual streamflow discharges were not provided for the entire reconstruction sequence (A.D. 572-1988). Sadly, Graybill had passed away before the publishing of the updated reconstruction, and his coauthors were unable to locate the original data. A different source of data was therefore accessed to fill in the gap associated with the original streamflow reconstruction.

In 2003, the Salt River Project (SRP) funded a project to document extreme streamflow events in the Upper Colorado and Salt-Verde River basins (Hirschboeck and Meko 2005). The project's goal was to understand the occurrence of floods and droughts over time and provide information for current water management decision-making. The project pulled dendroclimatological and dendrohydrological data from several sources (see Hirschboeck and Meko 2005:6), including the updated reconstruction of the

prehistoric Salt River annual streamflow (Graybill et al. 2006). Unlike the updated reconstructed prehistoric streamflows, the SRP funded project (Hirschboeck and Meko 2005) included an appendix of all annual streamflow discharges between A.D. 1199 and 1988.

The inability to obtain the updated reconstruction dataset generated by Graybill and colleagues (Graybill et al. 2006) left a hole of 79 years (A.D. 1371-1450) in the prehistoric streamflow dataset. Reconstructed streamflow discharges from that range of time are extremely important because factors, internal and external to Hohokam society, led to the end of the Hohokam cultural sequence. The merging of recent reconstructed streamflow data (Hirschboeck and Meko 2005) with the Graybill and colleagues dataset (Graybill 1989; Nials et al. 1989) therefore provided the means for determining water availability for irrigation during the late Classic Period.

Issues Using Annual Streamflow to Understand Prehistoric Irrigation. As suggested by Graybill (1989:34) and later by Robert Hunt (2007, 2015), prehistoric annual streamflows provide only a partial view of water availability. Above-average discharge may have been calculated for a year, but the streamflow may have occurred at times when it was not needed for agricultural production (e.g., months when crops are not being grown). Conversely, streamflow discharge may have been calculated to be less than the average, but relatively high flow events may have occurred. If the events occurred at points during the year when water was needed, and damage to irrigation infrastructure was not severe, then Hohokam farmers may have been able to produce a successful agricultural yield.

Graybill (1989) attempted to address the annual streamflow issue by calculating winter and summer discharge splits. The sampled trees used for the dendrohydrological reconstruction often produced two tree-rings per year. Measurement of these tree-rings allowed for the tabulation of precipitation during the winter prior to the start of the agricultural cycle and during the summer, when agricultural production was underway. Although the split streamflows provided information about water availability prior to and during agricultural production, chronologically fine-grain water demands (e.g., monthly) could not be examined with the presented reconstructed streamflow record.

The Hohokam agricultural calendar for timing the application of irrigation water to fields cannot be derived directly from the archaeological record, but a useful proxy exists. Archival work by Robert Hunt and Scott Ingram (Hunt and Ingram 2014) has provided the agricultural calendar of the Akimel O'odham during the early twentieth century. The adoption of European crops (e.g., winter wheat) differentiated the historic O'odham crop selection from that of the Hohokam; however, the Hohokam staple crops of maize, beans, and squash remained important crops through the historic period (Castetter and Bell 1942). European crops that did not interfere with the production cycle of traditional crops were integrated into the O'odham agricultural cycle, such as winter wheat. It is therefore plausible that the historic O'odham agricultural calendar was similar to the Hohokam calendar.

Paleobotanical evidence suggests the Hohokam menu of agricultural goods extended beyond maize, beans, and squash (e.g., Bohrer 1970; Cable and Mitchell 1988). The timing of when each agricultural plant needed water naturally differs slightly, so it was necessary to pick a single crop to serve as a proxy for all Hohokam irrigation

scheduling (Hunt 2007, 2015). Simulations of prehistoric crop production along the middle Gila River by Hunt, suggested that the watering schedule of maize could be used as a proxy for the timing of irrigation need. Maize was the most abundantly grown crop among the Hohokam and the timing of irrigation was greatly influenced by the timing of key points in the growth cycle of maize: planting and silking. The Hohokam possibly multi-cropped other agricultural staples within maize fields, so the timing of maize irrigation was also the timing of other crop irrigation.

The historic O'odham agricultural calendar included two cycles of agricultural production for maize. The production of two yields necessitated irrigation at two points (Hunt and Ingram 2014:Table 1). The first was prior to planting, which occurred late February-early March for the first cycle and July for the second cycle. Monsoon patterns in the headwaters and streamflow of the Salt River (see below), suggest that the second cycle likely started in August. The second point of water need was prior to maize silking, occurring in April during the first cycle and October for the second cycle. The irrigation demand schedule therefore required values of streamflow available by month to be determined to allow for an analysis of agricultural water sufficiency. Estimating monthly water availability is the topic of Chapter 6.

Background Discussion

Following a summary of Hohokam cultural history and social organization, three factors were discussed that contributed to the water sufficiency analysis (Chapter 7). The first factor was previous Hohokam irrigation systems reconstructions, which included four phases of research. Each phase was largely dependent on the available technology for discovering and mapping canals both on and below the ground surface. The last phase

has now led to a wholly revamped perspective on the Hohokam irrigation systems and a nearly complete historical reconstruction of canal development in the lower Salt River Valley (Chapters 3 and 4).

The second factor was previous Hohokam water demand estimations, which first relied on historical analogs, later depended on canal cross-sectional dimensions, and finally on the actual field locations. Each approach (highlighted in Chapter 5) was a refinement from the previous methods.

The third contributor to the water sufficiency analysis was the reconstructed prehistoric Salt River annual discharges. Irrigated acreage estimates were derived from the dendroclimatological record. Although the record provided annual information about the precipitation that formed the river discharge, refined values necessary for reconstructing agricultural cycle production were not available. Chapter 6 arose out of the call for more refined river discharges by applying historically documented flow trends to the reconstructed annual discharge. The trends allowed for monthly streamflows to be estimated.

Notes

2.1 Information provided for the Riverview Archaeological Project derives from my conversations with Jerry Howard (project director) that began in 2012. Howard had intended to produce a comprehensive report detailing excavations carried out in 2005, prior to Riverview shopping center and a car dealership construction, and in 2012, before the Chicago Cubs spring training complex construction and associated public park improvements, so reports for each phase of the project were not produced. Unexpected health complications led to Howard's early retirement and prevented him from compiling the project report. Field notes, canal profiles, a few chapter drafts, and my conversations are the only record of the project. Citations are therefore not noted for the Riverview Archaeological Project summary. Project documents and artifacts are housed at the Arizona Museum of Natural History in Mesa, Arizona.

[2.2] I originally intended to prominently feature the Riverview Archaeological Project (RAP) in this dissertation research, but faced preventative obstacles. Due to data management issues, I was unable to locate necessary RAP documents in a reasonable timeframe, especially canal profiles. Despite finding many documents since downgrading RAP data contribution, in favor of other projects (e.g., Price Freeway and Loop 202), some important documents have yet to be located (e.g., the canal profile drawing from the large Colonial Period canal where OSL sample locations are noted). A stratigraphic chronology for all documented canals is therefore not possible. Arizona Museum of Natural History staff, especially Curator of Anthropology Emily Early, enthusiastically assisted my search.

CHAPTER 3: METHODOLOGY FOR RECONSTRUCTING THE DEVELOPMENTAL HISTORY OF HOHOKAM IRRIGATION SYSTEMS WITHIN THE LOWER SALT RIVER VALLEY

Defining Terms

Several terms used throughout the dissertation need to defining before highlighting the methodological steps taken to reconstruct Hohokam irrigation systems. Table 2 provides the central definitions. Of terminological importance, a clear distinction is made between an irrigation system and a canal system. In the past, Hohokam researchers have used the terms interchangeably (e.g., Howard 2006; Hunt et al. 2005; Woodson 2010a). Although both terms had a similar basic definition (e.g., a canal network that transported water from a water source to agricultural fields), Hohokam etymology necessitates the distinction. Equating the terms canal system and irrigation system is a source of potential confusion because two canal networks contained canal system in their name (i.e., Canal System 1 and Canal System 2). To avoid confusion, "irrigation system" is used in reference to one or more canal networks, whereas "canal system" is used to denote only Canal System 1 and Canal System 2.

Table 2. Key Irrigation Definitions.

Term	Definition
Irrigation System	Following Hunt (1988:339–340), an irrigation system is "composed of (1) a facility (gate, offtake) which takes water from a natural channel and moves it away from its natural downhill course and (2) the subsequent control works (canals, gates, fields) that guide the water flowing on the surface to the agricultural plants until that water either soaks into the earth or flows on the surface out of the control works." An irrigation system can be comprised of one or more main canals.
Canal System	Canal systems are irrigation systems, but within the Lower Salt River Valley, are also the names of the well-known systems of Canal System 1 and Canal System 2. Canal system is therefore only used in reference to the named systems and not irrigation systems in generals, as it has been used by previous Hohokam researchers.
Irrigation Cooperative	The group of irrigator households that participated in the construction and maintenance of common irrigation infrastructure. The social relationships of the members cross-cut settlement boundaries (cf. Abbott 2000).
Irrigation Infrastructure	The physical features that direct and regulate water from a natural source to agricultural fields.
System Intake	The location where river water is diverted from its natural course and toward irrigation canals. The system intake often assumes the form of a dam constructed from natural materials.
Headgate	A feature that separates the system intake from the rest of an irrigation system. A headgate regulates water flow into the system through the use of a manually operated gate structure that can be open and closed to increase or decrease flow velocity. Headgates are an integrated feature of main canals; therefore a headgate regulates only the flow entering its attached main canal.
Headgate Area	The location of one or more headgates that share a common system intake. In discussion, the headgate area is equivalent to the system's intake area.

Table 2. Key Irrigation Definitions, continued.

Term	Definition
Main Canal	The first canal to receive water from a river, often through a headgate, and conveys the water away from the river. Lower order canals diverge from main canals to deliver water to agricultural fields.
Branch Canal	A canal that bifurcates off of a main canal and conveys water toward primary lateral canals. Branch canals form the boundary of Lower Salt River Standard Irrigation Units
Primary Lateral Canal	A canal that connects two branch canals and conveys water to secondary lateral canals.
Secondary Lateral Canal	A canal that connects to a primary lateral canal and conveys water to field turnouts. Once water enters a secondary lateral canal it remains in the field service area. Water will either be used to meet agricultural water demands or it will be lost through seepage and evaporation, because it cannot rejoin water flowing to other parts of the system.
Field Turnout Canal	A canal that connects to a secondary lateral canal and conveys water to a field intake.
Field Intake	An opening in the berm surrounding an agricultural field that allows water to enter the field from a field turnout canal. A field can have one or more intakes.
Field Service Area	An agricultural field area that is comprised of secondary lateral canals, field turnout canals, and field intakes. Hohokam farmers likely had the most common interactions with these infrastructure features, as compared to the rest of the system, because they would have had to service them at the household level.

The Next Phase of Hohokam Canal Documentation

This dissertation research represents the next phase in Hohokam canal documentation. The central aspect of this phase is the melding of historic aerial photographs with new cultural resource management canal data. My methodology is differentiated from the previous ones by three aspects. First, several black and white aerial photographic series are now easily accessible through a local government website. Acquiring different photographic series was very difficult before the start of this

dissertation research. A digitalization effort by the Flood Control District of Maricopa County substantially decreased access barriers for photographic series taken from 1930 to the present. The centralization of photographic series in one location provided the means for easy photographic series comparison among different years in the lower Salt River Valley. The aggregation, therefore, allowed for the selection of years that best depicted buried canals on aerial photographs.

Second, the photographic series selected for this research documented the ground surface when most of the lower Salt River Valley was still agricultural land; providing an opportunity to identify now obscured soil lineations. The repeated photo documentation increased the probability that prehistoric canal signatures appeared in at least one series. Previous aerial photograph studies of prehistoric canals (Ebert and Lyons 1980; Herskovitz and Hartmann 1981; Masse 1981; Showalter 1993) were restricted to a single year. If the ground was too dry during photographing, then the buried canals were not visible, and thus, not documented.

Third, recent CRM investigations have successfully identified the outlines of prehistoric agricultural field areas in detail through excavation. Pre-Hohokam field systems had been documented in Tucson (e.g., Mabry 2008), but the equivalent had not been found along the lower Salt River until a few years ago. Using an excavation technique similar to the one used in Tucson, the outlines of canal networks transporting water to fields were identified just northeast of Pueblo Grande (Henderson 2015). The canal network leading to the fields was profoundly important because it was structurally similar to the canal model proposed by Masse (1981), and not the irrigation model suggested by Howard (1990a, 2006). A comparison of the excavation results with canal

signatures seen in historic aerial photographs demonstrated that finer-grain aspects of the canal networks could be seen in the photographs.

The three recent developments provided a new opportunity to investigate buried Hohokam canals in the lower Salt River Valley. A multi-step approach was employed to maximize the potential of the historic aerial photographs.

Historic Aerial Photograph Selection for the Identification of Subsurface Canals

The multiple historic aerial photograph series used for this research were obtained from the Flood Control District of Maricopa County (FCDMC) online archive (https://gis.maricopa.gov/GIO/ HistoricalAerial/index.html, as of November 2018). The archive contains aerial photograph series from 1930 through the present. The extensive archive allowed for comparison between each available year of photographs to determine the series that would provide the clearest indications of subsurface linear features. During the comparison, it was found that black and white photographs provided the best resolution and opportunity for identifying possible linear features, as compared to color photographs. Black and white photographs displayed the most contrast between subsurface linear features and surrounding areas, making possible buried canal identification easier. Similarly, photograph series from the first half of the twentieth century provided the greatest area of non-urbanized land where linear features could be seen. Aerial photographs from the second half of the century did show subsurface linear features and were important for the identification of buried canals within some irrigation systems, but much more land was covered by urban development than during the first half of the century.

Four black and white photographic series provided the most information on subsurface canals (Table 3). The first available series is the 1930 Smithsonian Institution aerial photographs (Figure 16). These relatively high-resolution photographs (1 pixel = 3 feet) provide the most unobstructed view of subsurface canals. The relatively low level of urban sprawl, as compared to the vast expanse of agricultural land, provided favorable conditions for the appearance of subsurface linear features. Unfortunately, the extent of the photographic coverage is roughly half of the later photographic series used to identify potential buried canals. The use of the 1930 series was therefore restricted to areas flanking the lower Salt River (<10 km on each side of the river).

Table 3. Historic Aerial Photographic Series Used for this Dissertation Work.

Year	Color	Resolution	Extent
1930	Black and White	1 pixel = 3 feet	<10 km on each side of the lower Salt River
1937	Black and White	1 pixel = 9 feet	All land irrigated by Hohokam south of lower Salt River and most north of the river
1949	Black and White	1 pixel = 1.75 feet	All land irrigated by Hohokam in lower Salt River Valley
1959	Black and White	1 pixel = 2 feet	Scottsdale System on the north side of lower Salt River

The next available series is the 1937 Fairchild aerial photographs (Figure 17). Although a lower resolution than the 1930 series (1 pixel = 9 feet), the 1937 photographic series documented a much larger expanse of the lower Salt River Valley. The series showed all land south of the lower Salt River that was irrigated by the Hohokam and most of the irrigated areas on the north side. The lower resolution of this series led to its

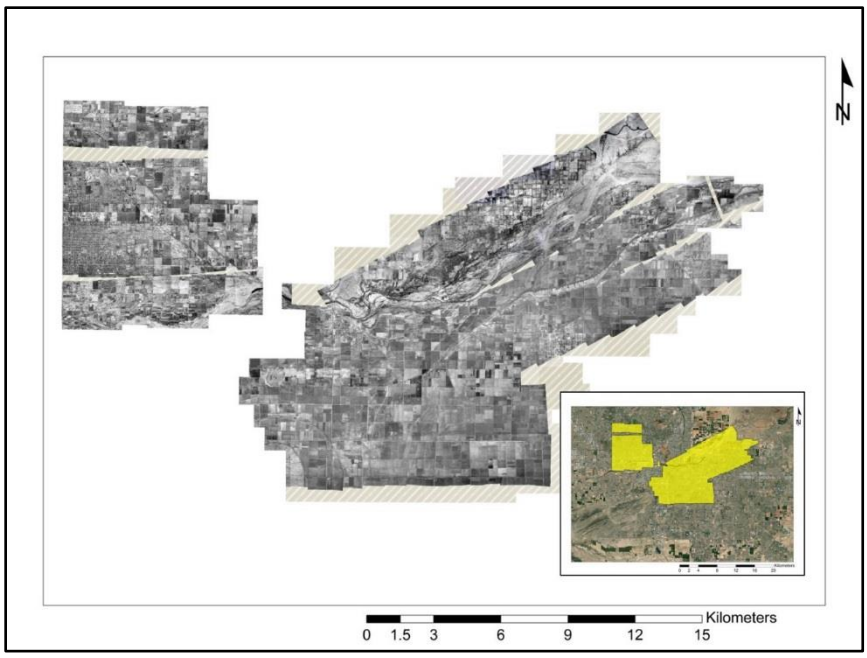


Figure 16. 1930 aerial photographic series used for the identification of subsurface linear features. Inset map shows coverage of photographs in the lower Salt River Valley. Inset extent is the same for Figures 16-19. Photographic series courtesy of the Flood Control District of Maricopa County.

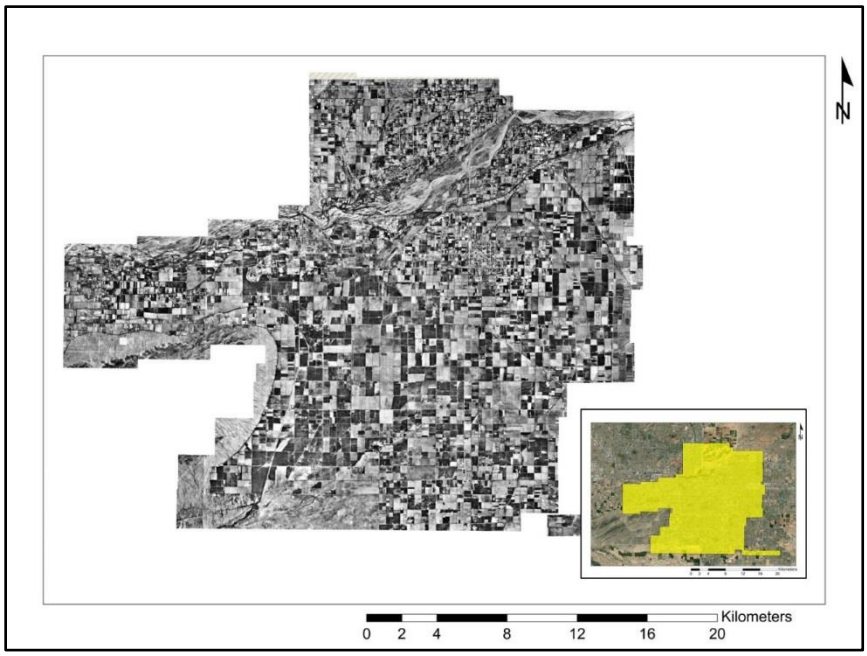


Figure 17. 1937 aerial photographic series used for the identification of subsurface linear features. Inset map shows coverage of photographs in the lower Salt River Valley. Inset extent is the same for Figures 16-19. Photographic series courtesy of the Flood Control District of Maricopa County.

use as a cross-check for possible buried canals identified on higher resolution photographic series.

The most valuable aerial photographic series for identifying possible buried canals was taken in 1949 (Figure 18). This photographic series had the highest resolution (1 pixel = 1.75 feet) and showed all areas once irrigated by the Hohokam along the lower Salt River. Despite the resolution, the visibility of possible subsurface linear features differed on the two sides of the river. South of the river, fields had been planted and irrigated before aerial photographs were captured. Consequently, subsurface features contrasted well with the surrounding soil. North of the river and east of Canal System 2, surface conditions made identifying possible buried canals more difficult. Within the Scottsdale System, most of the fields lacked sufficient moisture for subsurface linear alignment to contrast distinctly from the surrounding soil. The possible buried canals that did appear were seen as faint lines.

The Coyote System area presented the greatest challenge for identifying possible buried canals within the 1949 photographic series (see Chapter 4 for irrigation system description). When the series was photographed, agricultural production had ceased, and any previously operated fields had transitioned to a desert landscape. The texture of the ground and low subsurface moisture content made subsurface linear features identification difficult. The other photographic series (1930, 1937, and 1959) that included the Coyote area had similar surface conditions, so it was necessary to rely upon more recent color photographs. Recently, the desert was reclaimed for agricultural production, so subsurface linear features were visible.

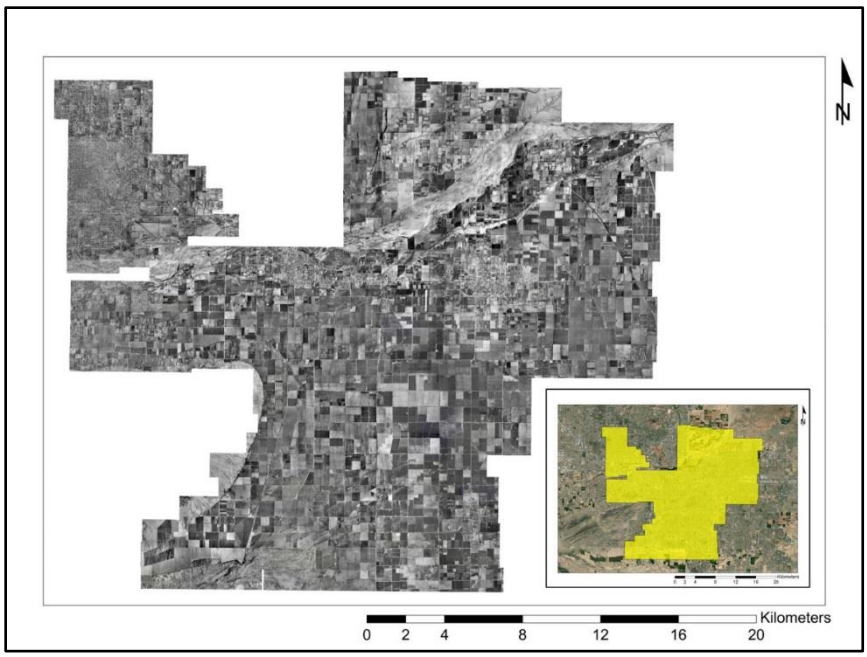


Figure 18. Mosaiced 1949 aerial photographic series used for the identification of subsurface linear features. Inset map shows coverage of photographs in the lower Salt River Valley. Inset extent is the same for Figures 16-19. Photographic series courtesy of the Flood Control District of Maricopa County.

The final aerial photographic series used to identify possible buried canals was taken in 1959 (Figure 19). This photographic series was mainly used to identify possible buried canals in the Scottsdale System area. The 1959 series has slightly lower resolution than the 1949 series (1 pixel = 2 feet), but appears to have been photographed shortly after irrigation, given the high contrast between subsurface linear features and surrounding soils. The 1959 series was not used for the identification of possible buried canals within the other irrigation systems. The photographs either did not provide new identification information or the moisture content of buried canals and the surrounding soils were similar.

Identifying Prehistoric Canals in Historic Aerial Photographs

Buried canal identification is made possible by differences in soil morphology related to texture. Morphological differences within soil causes water to percolate at

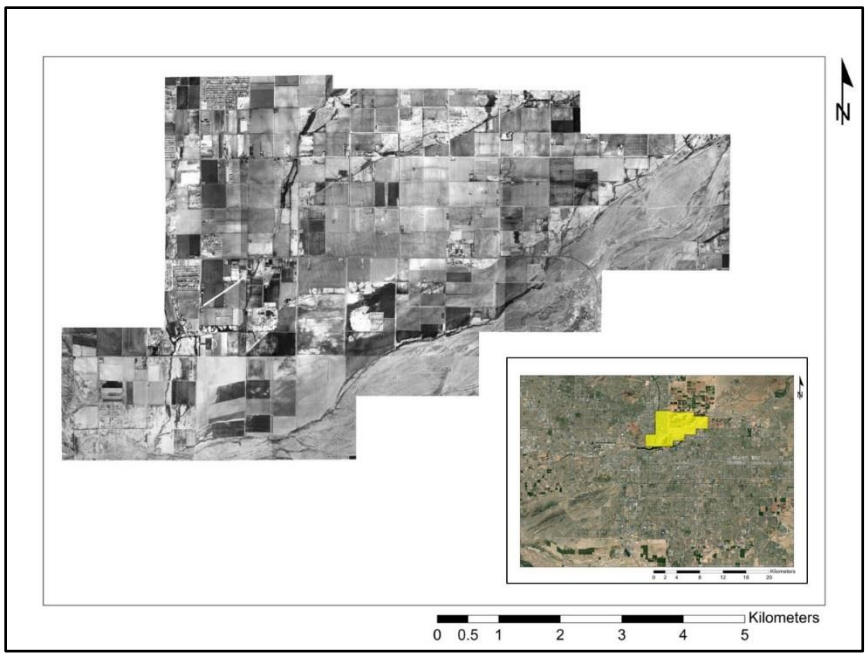


Figure 19. 1959 aerial photographic series used for the identification of subsurface linear features. Inset map shows coverage of photographs in the lower Salt River Valley. Inset extent is the same for Figures 16-19. Photographic series courtesy of the Flood Control District of Maricopa County.

different rates across a landscape (Grøn et al. 2011:2025). Water applied to a landscape that has a high sand content will be absorbed much quicker than if the substrate were clay-rich. Within aerial photographs, moist soils appear darker, and areas of less permeable sediments are more likely to appear darker because moisture is retained longer (Judd 1931; Nicholas and Feinman 1989). The accumulation of finer textured, less permeable sediments in canals results in dark linear features appearing in aerial photographs (Figure 20). In essence, buried canals often appear as dark linear features because water continues to reside in the canals as soil moisture (Jerry Howard, personal communication 2012).

During this investigation, the reconstruction of Hohokam irrigation system histories in the lower Salt River Valley began by identifying potential buried canals, denoted by dark linear features, in the four aerial photographic series. The FCDMC

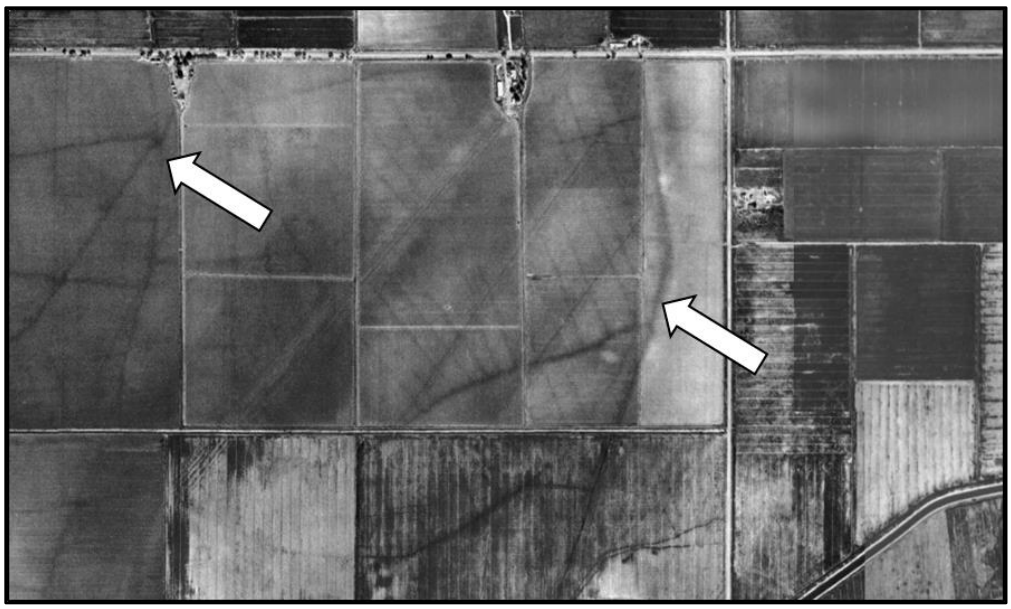


Figure 20. Aerial photograph taken over agricultural land in Tempe, Arizona in 1949. The dark linear alignments or lines (yellow arrows) denote the buried canals. Photograph courtesy of the Flood Control District of Maricopa County.

website allowed for the viewing of historic aerial photographs at different magnifications (i.e., zoom). Comparisons of dark linear features visible at different zoom levels in the GIS mapping software used for this research (ArcGIS suite of mapping software), revealed that a 600-foot scale zoom extent provided the best balance between resolution and computer memory processing demand (Figure 21). Measurements in feet are discussed here because the scalebar provided by the FCDMC website could not be altered to display metric units. After setting the zoom level to display the scalebar at 600 feet, a jpeg image of the displayed extent was exported from the website for import into the GIS software. The visual extent was then moved to the next section of the photographed area. A border of the previous extent was included to serve as a visual reference for stitching the jpeg photographs together into a mosaic map. The process was initiated with the 1949 photographic series and then repeated for the other three series (1930, 1937, and 1959).

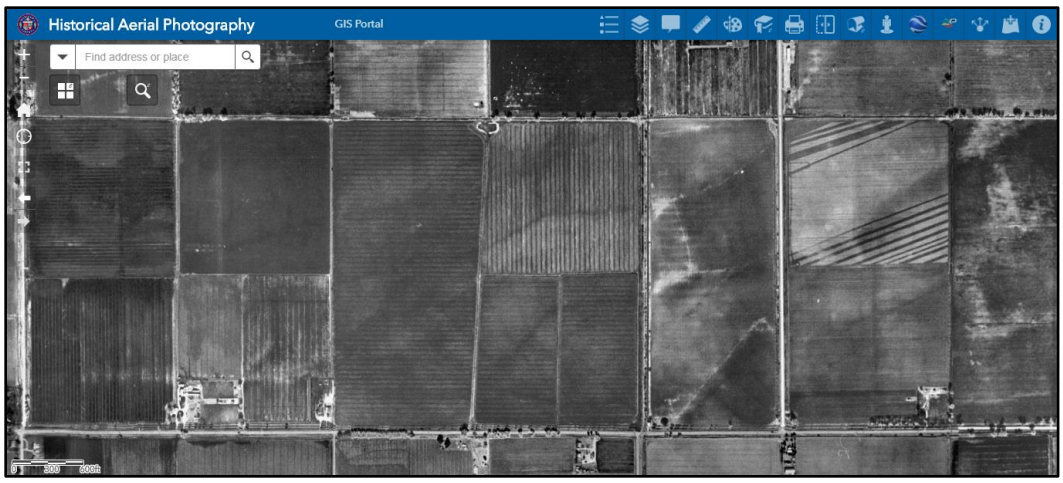


Figure 21. Example of the Flood Control District of Maricopa County aerial photograph website interface with 600-foot scale displayed in the lower left corner. The image shown is from the 1949 photographic series.

The GIS software, and aerial photograph basemaps provided by the software, allowed for the joining and spatial placement of historical aerial photographs. Beginning with georectified basemaps available through the ArcMap 9 series of ArcGIS software, historic aerial photographs with road alignments or buildings that matched ones seen in the basemaps were identified. Points on the historic aerial photographs that matched items in the basemap were locationally set within a UTM coordinate system (WGS84 12N) to attach them to their actual location in space. Historic aerial photographs from areas neighboring the georectified photographs were attached and adjusted to approximate their actual spatial extent better.

Ensuring that the 1949 photographic series scaled with its actual extent in space was challenging; however, georectifying aerial photographs from the 1930 and 1937 series proved more challenging. The landscape of the lower Salt River Valley changed dramatically between 1949 and when the photographs in the basemap were taken. Similarities in major street alignments and older parts of modern cities allowed for the identification of common points for georectification (Figure 22). The aerial photographic

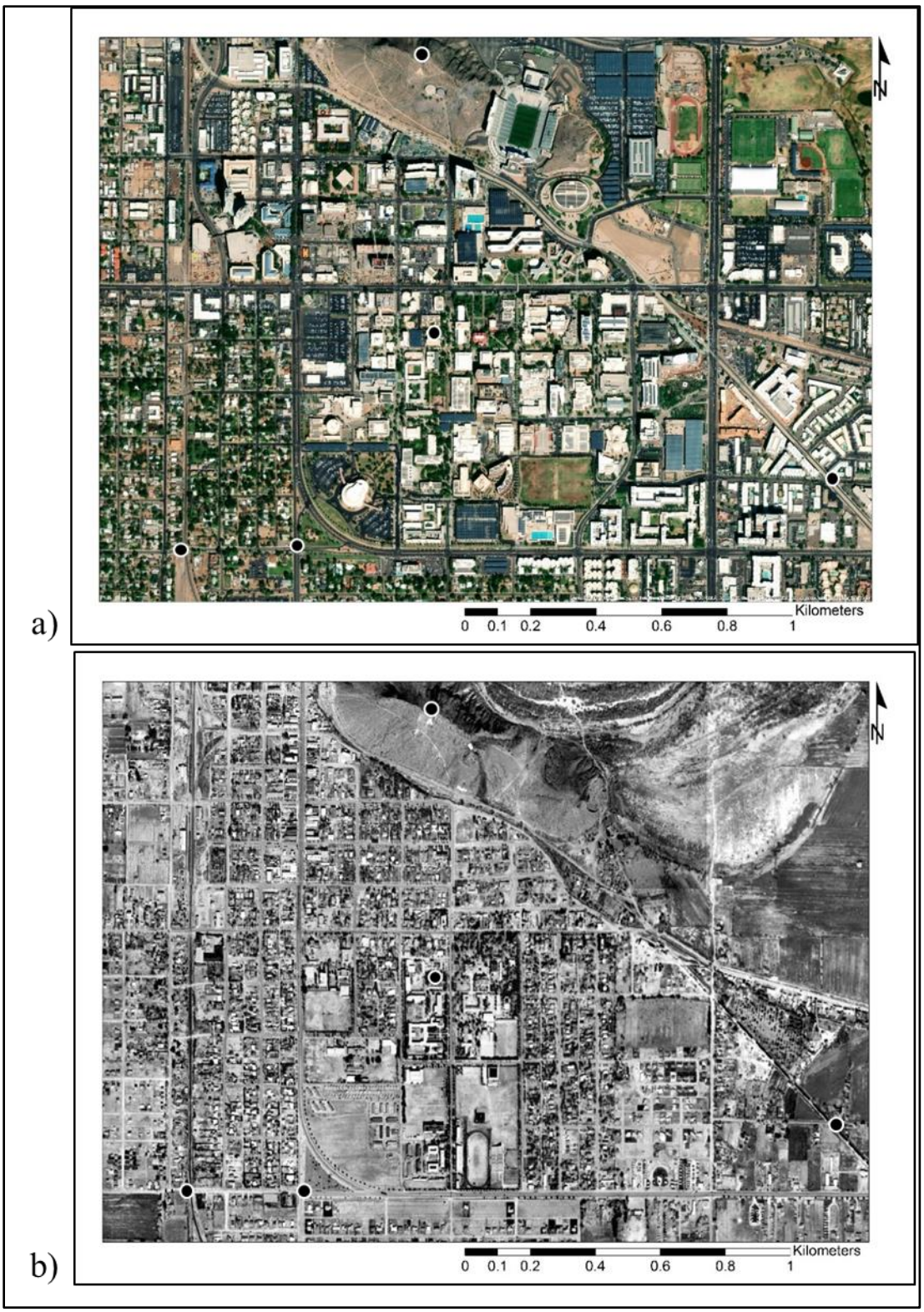


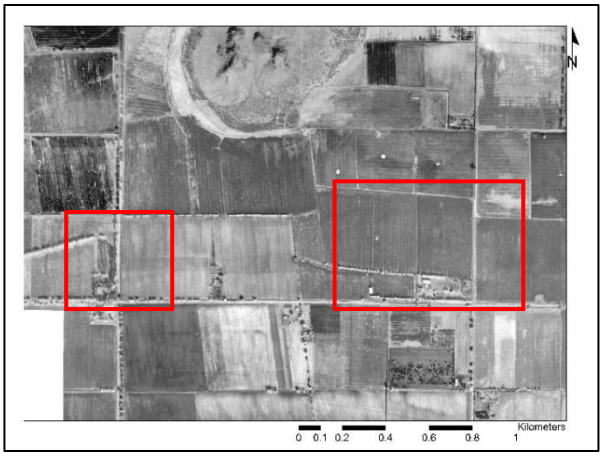
Figure 22. Example of points of similarity (black dots) among modern photographic basemap (a) and 1949 photographic series (b).

series from 1930 and 1937 differed substantially from both the 1949 series and the basemap. A surprising insight from these photographic series is agricultural field realignment frequency. Before georectifying the historic aerial photographs, it was expected that field locations would be relatively consistent. It was thought that some fields might change size and shape as the land was divided among family members, but overall, fields would remain the same during the first half of the twentieth century. Instead, nearly all fields changed significantly in at least one aspect, such as size, shape, and orientation (Figure 23). The few points of similarities (e.g., longstanding roads and geological features) made georectifying earlier photographic series possible.

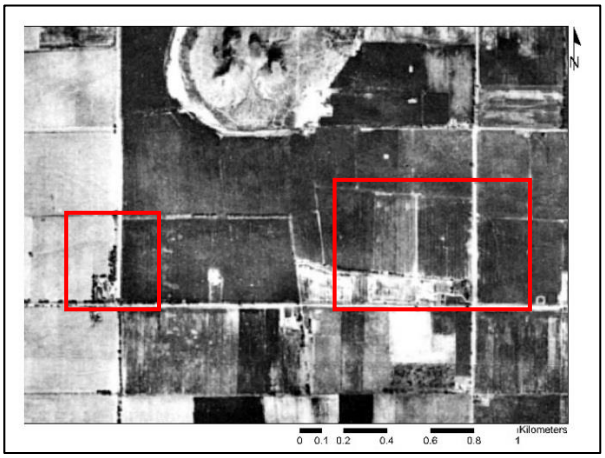
Dark linear features in the historic aerial photographs signified the location of possible buried canals. Dark linear features were marked with polylines in the GIS software, starting with the 1949 photographic series. Spaces between alignments were examined in the other photographic series to see if linear features appeared during a different year. Initial linear feature identification was repeated for each series of historic aerial photographs. Each photographic series was cross-referenced to fill in gaps between linear features, as had been done with the 1949 series.

Urbanization and other historic disturbances contributed to the segmentation of subsurface linear features, so other lines of evidence were consulted. The most reliable secondary source for linking linear features was previous irrigation maps. The trajectories of canals in previous maps were consulted to determine if a canal was reasonably close to a linear feature to suggest that the linear segments were a part of the feature.

a)



b)



c)



Figure 23. Example of changes to historic fields seen in the 1930 (a), 1937 (b), and 1949 (c) photographic series. Red rectangles denote field areas that changed shape between 1930 and 1949.

Integrating Topographic Models into Canal Reconstructions

In areas where subsurface linear segments appeared to be part of a single canal alignment, but could not be linked through any photographic series or previous canal maps, topographic models were consulted to identify possible canal paths based on slope. Digital Elevation Models (DEM), with a resolution of 30 x 30 meters, were accessed through the US Geological Survey's Earth Explorer website. The DEMs provided landscape elevations for the entire lower Salt River Valley. Modern buildings cause elevation anomalies (e.g., building heights falsely shown as the ground surface height), but ArcGIS software allowed for the removal of those anomalies through topographic smoothing tools. Although not reproducing the exact elevations of the prehistoric landscape, the smoothed DEMs provided a reasonable approximation, given subsurface topography identified during excavation projects across the valley.

The smoothed DEMs provided valuable insights about Hohokam irrigation south of the lower Salt River, beyond what was suggested by the subsurface linear segments. Previous irrigation maps (e.g., Howard 1992; Turney 1929) and studies (Howard 2006) suggested that after the Mesa and Lehi terraces merged west of the site of Las Acequias, the landscape south of the lower Salt River in the area of Tempe and Chandler was a flat plane. It was therefore presumed that canals beyond the terrace merger could receive water from any intake location on the lower Salt east of the merger. The smoothed DEMs demonstrated that the canals along the eastern half of the Mesa terrace beyond the merger could not receive water from the Riverview Archaeological Project area (Figure 24; see Chapter 2 for Riverview Archaeological Project description). Constructing canals from the Riverview area to the east half of the land would have required water to flow uphill,

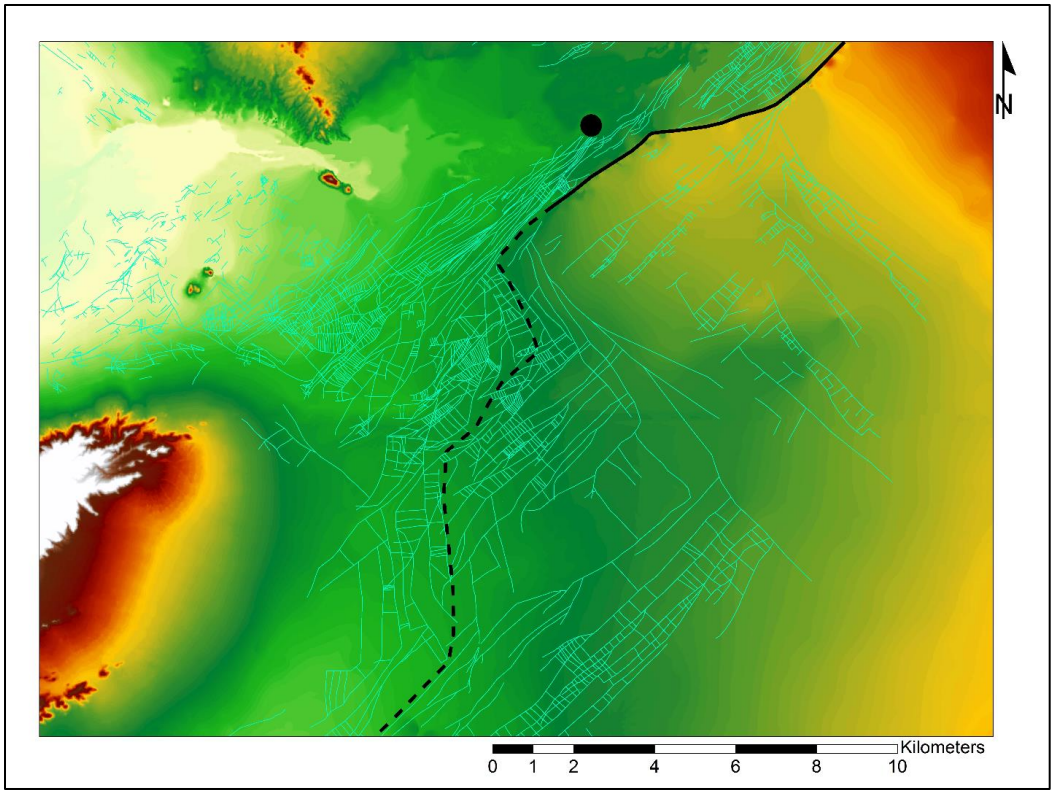


Figure 24. Smoothed DEM of the lower Salt River Valley south of the lower Salt River. Solid black line denotes the northern edge of the Mesa terrace. Dashed black line denote the division between possible subsurface canals identified within historic aerial photographs. Canals east of the dashed line could not have received water from the intake area north of the Riverview Archaeological Project area (black dot).

an engineering impossibility for Hohokam technology. Instead, the canals on the eastern portion would have necessitated water from an intake area further upriver to maintain a downslope canal gradient, so that water did not flow to elevated areas. The smoothed DEMs, therefore, suggested that two irrigation systems operated south of the river beyond the terrace merger.

Matching Canal Signatures in Aerial Photographs with Previous Canal Data

The final step in creating the initial irrigation infrastructure map was the comparison of canals documented during excavation projects and the proposed buried canals based on aerial photographs and DEM analyses. Identified linear features that did

not precisely conform to the trajectory of documented canals, but were similar enough to suggest an alignment, were realigned to neighboring documented canal trajectories, tying a linear feature to a documented canal (Jerry Howard, personal communication 2012). The documented canals, therefore, provided dates for the proposed irrigation infrastructure that connected to them. Linear segments that were not linked to a canal trajectory were not included in the finalized Hohokam canal map. The deleted segments were likely short, non-canal features (e.g., buried historic dirt paths).

Archaeologically, the differentiation of prehistoric canals from short, non-canal features is relatively easy when observed in cross-sectional profile. Canals will be relatively deep (e.g., >1 m below canal berm tops) with bands of sediments, denoting controlled flows. Away from the intake area, the canal deposits will be clay, silt, and occasionally very fine sand. Conversely, the short, non-canal features will appear as relatively shallow compacted masses of unsorted grain sizes.

The linkage methodology used by Howard (1990a, 1993b) to reconstruct Canal System 2 was not employed here. The occurrence of many excavation projects in the Canal System 2 area allowed Howard to link multiple canal cross-sectional profiles within a single channel, utilizing the methodology discussed above. The linking of cross-sectional profiles was not possible outside Canal System 2 because a sufficient number of excavation projects have not occurred to allow for the documentation of the same canal at multiple locations along its course.

Archaeological excavations have taken place within all major lower Salt River irrigation systems, but individual canals were often only identified within a single project area. Howard was able to trace out main canals for kilometers within Canal System 2 due

to several closely spaced road work projects that cross-cut the same Hohokam canal. The same repeated documentation of individual canals has not occurred in the other Hohokam irrigation systems. Instead, the restricted extent of road clearance projects and a few excavation projects conducted by the Department of Anthropology at Arizona State University, as compared to the expanse of land with buried canals, made repeated canal documentation impossible.

The lack of data necessary to complete canal cross-sectional linkages, as defined by Howard (1990), therefore prevented the use of Howard's linkage methodology with the irrigation systems investigated here. Instead, the methodology used for this dissertation research compared possible buried canals seen in aerial photographs to both excavation data and previous prehistoric irrigation maps.

Factors Affecting Possible Buried Canal Identification

As alluded to in the preceding section, buried Hohokam canals identification necessitated a rigorous examination of historic aerial photographs and excavated canal data to reconstruct subsurface canal networks. There were four factors, which made identification challenging, that are worth noting for future studies of buried canals. One factor that impeded the identification of subsurface canals was depth. Within the Price Freeway Project (Ackerly and Henderson 1989) and the Riverview Archaeological Project area, the earliest canals were the deepest buried. Searches of historic aerial photographs for subsurface linear features that fit with the likely early canal paths proved unsuccessful. The visible linear features either better aligned with the trajectory of younger canals or no alignment was identified in the vicinity of a deeply buried canal. As a general rule, canal signatures dating to the Pioneer and Colonial periods are not visible

in historic aerial photographs (Gary Huckleberry, personal communication 2019). The reconstructed paths of these canals are instead based on the other lines of evidence discussed in this chapter.

A second factor affecting buried canal identification was the timing of when the aerial photograph was taken. Precipitation is a crucial component for causing spatial differences in soil moisture and subsurface linear feature to appear, but modern irrigation contributed more to the identification of buried canals. Large amounts of rain can fall in the lower Salt River Valley, especially during the summer monsoon. That rainfall however often occurs as short and dispersed low-intensity events. During those events, standing water either quickly runs off into hydraulic features (e.g., washes) or quickly evaporates. Subsurface linear features are either visible for a relatively short period or not at all, depending on the intensity of the event. If relying upon precipitation alone, aerial photographs must be taken immediately after an event to capture evidence of subsurface linear features.

Irrigation techniques utilized during the first half of the twentieth century (see Davis 1903; Newell 1902) applied a much more substantial amount of water to a wider expanse of the landscape than precipitation. Beginning around the last frost, usually in February, farmers historically began to water their fields shortly after planting (McClatchie 1902:127). The initial watering, and the subsequent waterings during the growing season, applied tens of centimeters of water to agricultural fields. The water depth ensured that sufficient moisture percolated into the root zone, despite evaporation rates. Deep and regular watering increased the amount of time finer-grained soils retained moisture and linear canal indications remained visible on the surface. Instead of minutes

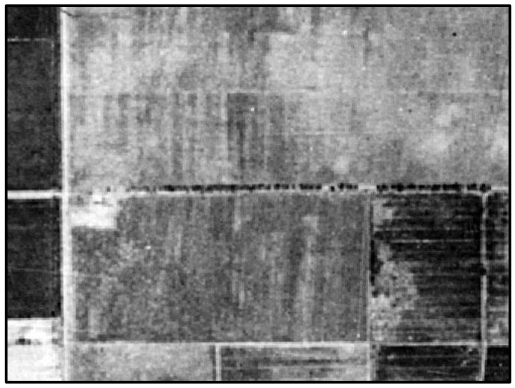
or hours, irrigation likely increased the length of time that linear features were highlighted by soil moisture differences and could be seen from the air in agricultural fields.

A third factor that affected buried canal identification was the characteristics of the ground surface. Open land not used for agricultural production (e.g., desert or non-operating fields) obscured buried canals, much like urban development did. As depicted by Figure 25, linear features often become invisible in areas that were not in agricultural production. A less obvious obstruction to buried canal identification was the orientation of in-operation fields (Figure 26). Subsurface linear features were visible when buried canals ran perpendicular to irrigation furrows in fields or if fields were relatively flat. Examinations of the historic series of aerial photographs revealed that changes to field orientation through time commonly occurred. Viewing many photographic series was necessary to ensure that no buried canals were beneath historic agricultural fields with furrows oriented parallel to prehistoric canals. Access to multiple historic photographic series with similar extents was crucial for a thorough identification of all possible buried Hohokam canals.

The fourth factor is data bias. As discussed above, few excavation projects have occurred south of lower Salt River and east of Canal System 2 on the north side. The Price Freeway Project (Ackerly and Henderson 1989), Red Mountain Freeway Project (Powell and Boston 2004), and the Riverview Archaeological Project documented many canals south of the river, but most were documented in only one of those project areas. Smaller canals beyond those project areas that received water from these canals were not documented. In particular, of the multiple signatures seen in historic aerial photographs,



Figure 25. Aerial photograph taken over Chandler, Arizona in 1949. The white arrows denote a dark linear alignment that visually terminates when its path encounters desert terrain southwest of the agricultural field (black arrow). Photograph courtesy of the Flood Control District of Maricopa County.

a) 

b) 

Figure 26. Aerial photograph taken of an agricultural field in the City of Tempe, Arizona in 1937 (a) and 1949 (b). The reorientation of irrigation furrows from north/south to east/west prior to 1949, resulted in the dark linear alignment becoming visible in the 1949 photograph (white arrows). Photographs courtesy of the Flood Control District of Maricopa County.

less than ten canal cross-sections were documented through excavation in the Los Muertos System (Allen et al. 1992; Mitchell and Crary 1996; Potter 1994), including a single main canal exposure. The lack of canal exposures restricts chronological reconstructions to the project areas. The Los Muertos System may, therefore, be older than current canal chronological data suggest; if evidence of older canals were eliminated by more recent channels in the project areas. Settlement data (e.g., occupational dating) were thus a key line of evidence for reconstructing the Los Muertos System.

In the Scottsdale System, excavations occurred along the State Route 87 Beeline Highway near the system's intake area (Hackbarth et al. 1995) and toward the terminus of the system (Adams et al. 1994; Doyel et al. 1995), but the area between has not been investigated for prehistoric canals. The gap in data between the beginning and end of the system leaves the dense network of identified canals untested (see Chapter 4). Further, the canal or canals in operation during the Pioneer Period, as indicated by settlement patterning, has not been documented through excavation.

Finally, the development of the Coyote System is entirely dependent on prehistoric canals remnants on the ground surface and settlement patterns derived from survey data and excavations at Coyote Ruin and Stoney Ridge Ruin (Center for Archaeology and Society Repository Site Files; Zyniecki et al. 1990). Through much of the twentieth century, agricultural and urban development was minimal in the Coyote System area. The relative lack of historic disturbance left many segments of larger canals intact at the surface, facilitating their documentation (e.g., Midvale 1964). The dating of the canals, however, must be inferred from chronological settlement data until documentation through excavation is conducted.

Dating Subsurface Hohokam Canals

Three lines of evidence were used to date canals in the current analysis. First, confirmed dated canals had at least one documented canal cross-section associated with it that was absolutely dated (e.g., optically stimulated luminescence and radiocarbon) or contained diagnostic pottery. Dates from documented canals allowed all linear features connected to the canal to be dated. The canal cross-sections were further important because they allowed for the identification of changes to the canal through time (e.g., cleaning and remodeling).

Second, when canal segments lacked directly dated stratigraphy, ages were inferred through stratigraphic relationships with directly dated canals. Stratigraphic relationships between canals were common in project areas and provided an important avenue for dating canals. Reconstructing the stratigraphic (cross-cutting) relationships among canals within an excavation area allowed a few well-dated canals to relatively date other canals. The stratigraphic relationships, therefore, provide an ordinal list of canals, from oldest to youngest, anchored by the chronology of the confirmed dated canals.

In cases where canal segments lacked stratigraphic age information, a third approach to assigning ages to canals was based on their proximity to dated Hohokam settlements (indirect dated). Canals located in areas that have not experienced archaeological excavations necessitated the use of chronological data from settlements for dating. Multi-household settlements away from the lower Salt River would have required irrigation water to meet agricultural needs, so canal alignments can be inferred by the placement of habitation sites away from the river (Howard 1990, 2006; Howard

and Huckleberry 1991). Dating canals to a cultural phase (e.g., Gila Butte and Santa Cruz phases) was not possible with this dating methodology, but it did provide general trends of change for each period of the Hohokam cultural sequence.

The importance of indirect-dated canals is exemplified by the developmental reconstruction of the Los Muertos System (see Chapter 4 for system description). Excavations at AZ U:9:112 (ASM) provided a few radiocarbon and ceramic cross-dates from canals (Potter 1994), but canals not interconnected with those canals had not been directly dated. Referencing the dating of sites previously recorded by the Department of Anthropology at Arizona State University (Nicholas and Feinman 1989) and data from the site of Los Muertos (Brunson 1989), it was concluded that the Los Muertos System may have been initially established during the late Sedentary Period, but the main operation of the system occurred during the Classic Period. System establishment manifested through ephemeral occupations (e.g., field houses) that did not persist. These occupational remains appear to have derived from activities associated with the construction of the irrigation infrastructure during the late Sedentary to early Classic Period. The founding of the site of Los Muertos (as indicated by the burial assemblage) and Las Acequias was likely during the early Classic, but the main occupation at both settlements occurred during the late Classic Period (Brunson 1989; Hackbarth 1997).

Contemporaneous canals that received water from a common intake area were grouped as part of the same irrigation system. The topography on the north side of the lower Salt River made separating the three previously defined systems, Canal System 2, Scottsdale System, and Coyote System, a straight forward process. South of the river, the same kind of geographic barriers do not exist, except the edge of the Mesa terrace.

Evaluation of Canal System 1

Canals south of the lower Salt River were grouped into either Canal System 1 or the Lehi System, prior to this dissertation research (see Chapter 4 for Lehi System discussion). Howard (2006:127) stated, "Canal System 1 heads on the river in a location just north of the site of Mesa Grande... Canals then fan out to cover a specific area of the valley." As shown in Figure 27, Canal System 1 was depicted as a network of canals, beginning northeast of Mesa Grande, leading out toward Los Muertos. Canal System 1 was thought to have more land under cultivation than the Lehi System, Scottsdale System, and Canal System 2, as depicted originally by Turney (1929) and later by Howard (1992, 2006). Although Canal System 1 was the largest and longest studied, with canal documentation extending back to the late 1800s during the Hemenway Expedition (Haury 1945), very little was known about its developmental history. What was known, was derived from surface documentation (e.g., Howard 2006; Midvale 1966; Turney 1929) and a few excavation projects (e.g., Ackerly and Henderson 1989; Herskovitz 1974; Herskovitz and Hartmann 1981; Masse and Layhe 1987).

Howard (2006) linked the development of Canal System 1 with the development of Mesa Grande. Howard (2006:127) reasoned that the proximity of Mesa Grande to the headgates of Canal System 1 indicated that the settlement controlled the system. The earliest occupation of Mesa Grande occurred during the late Pioneer, so Howard (2006:185) insinuated that Canal System 1 also began at that time. Although the few excavation projects south of the river supported Howard reconstruction of the system, later excavations and historic aerial photographs challenged the depiction of Canal System 1 as a single irrigation system.

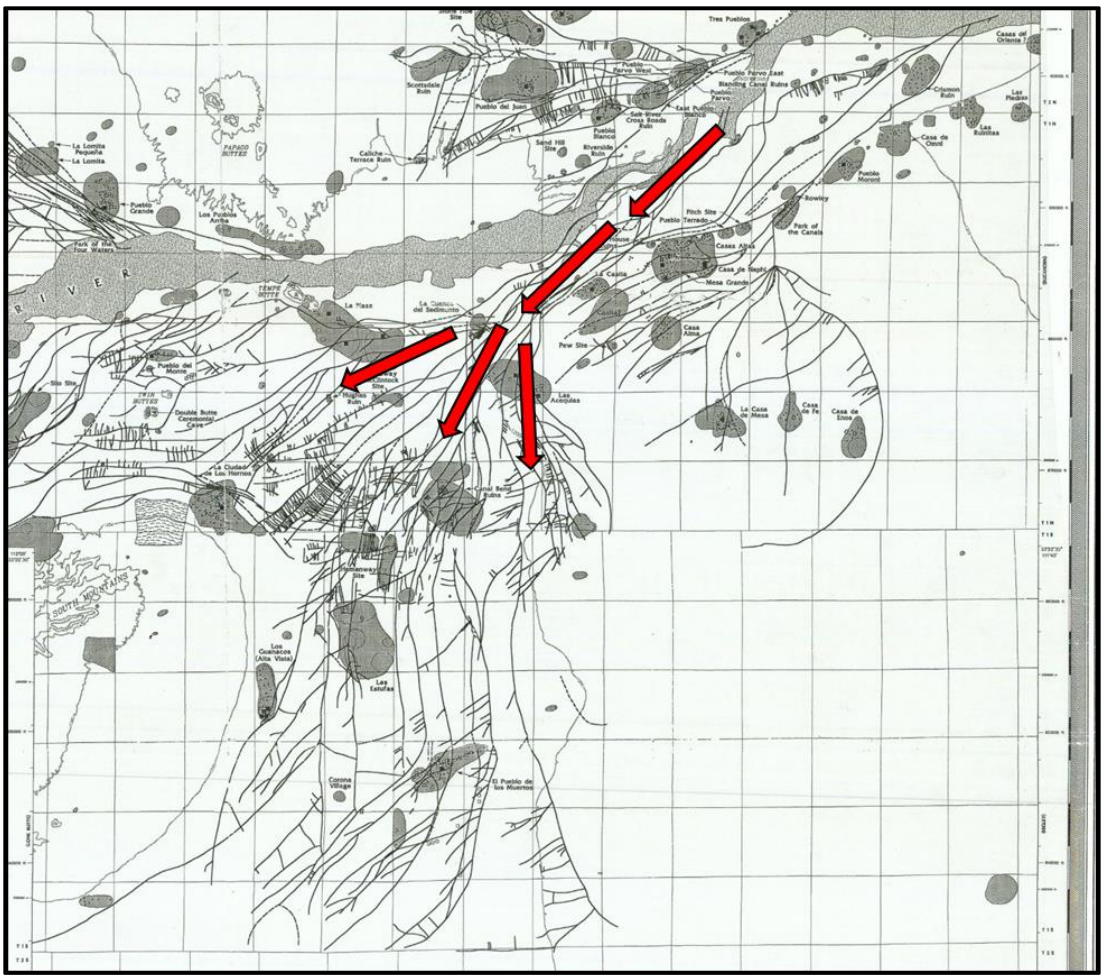


Figure 27. Canal System 1 as characterized by Howard (2006:127). Red arrows denote the flow direction from headgates. Modified from Howard (1992).

Canal System 1, as a single irrigation system, was called into question by the results of the Riverview Archaeological Project. Nearly all documented canals were found to begin just north of the project boundaries, rather than to the northeast of the project area (Figure 28). The canal starting location was unexpected because the most current irrigation maps (Howard 1992; Midvale 1966) did not depict an intake in that area. Further, multiple canals had been documented along the Loop 202 right-of-way (see Crismon System discussion below; Powell and Boston 2004), east of Crismon Ruin, that should have linked to the canals in the RAP area.

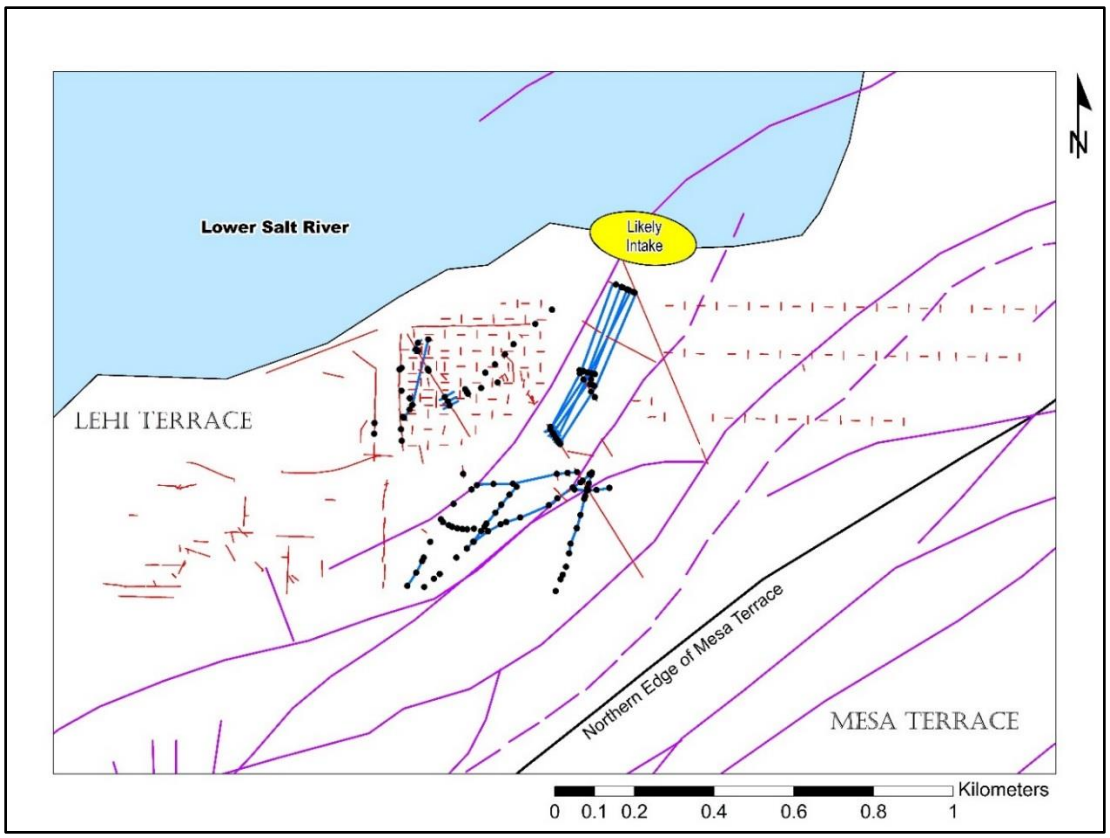


Figure 28. Comparison between proposed Hohokam canals (Howard 1992) and canals documented during the Riverview Archaeological Project. Purple lines denote previously proposed Hohokam canals. Red lines denote excavation trench locations. Black dots denote locations in excavation trenches where prehistoric canals were documented. Blue lines denote proposed canal paths based on canal cross-sectional information. Note that previously proposed Hohokam paths were intersected by excavation trenches, but were not identified.

Close examination of the historic aerial photographs evinced that a gap existed between the canals to the north of the Riverview Archaeological Project area (Figure 29). Near the Tempe Canal, subsurface linear features that started near Crismon Ruin appeared to terminate and linear features west of the Tempe Canal appeared to start at an intake area near the Canal Eight intake on Turney's (1929) map (Figure 30). Rather than a photograph anomaly in a single photographic series, the break or gap was recorded in all historic photographs.

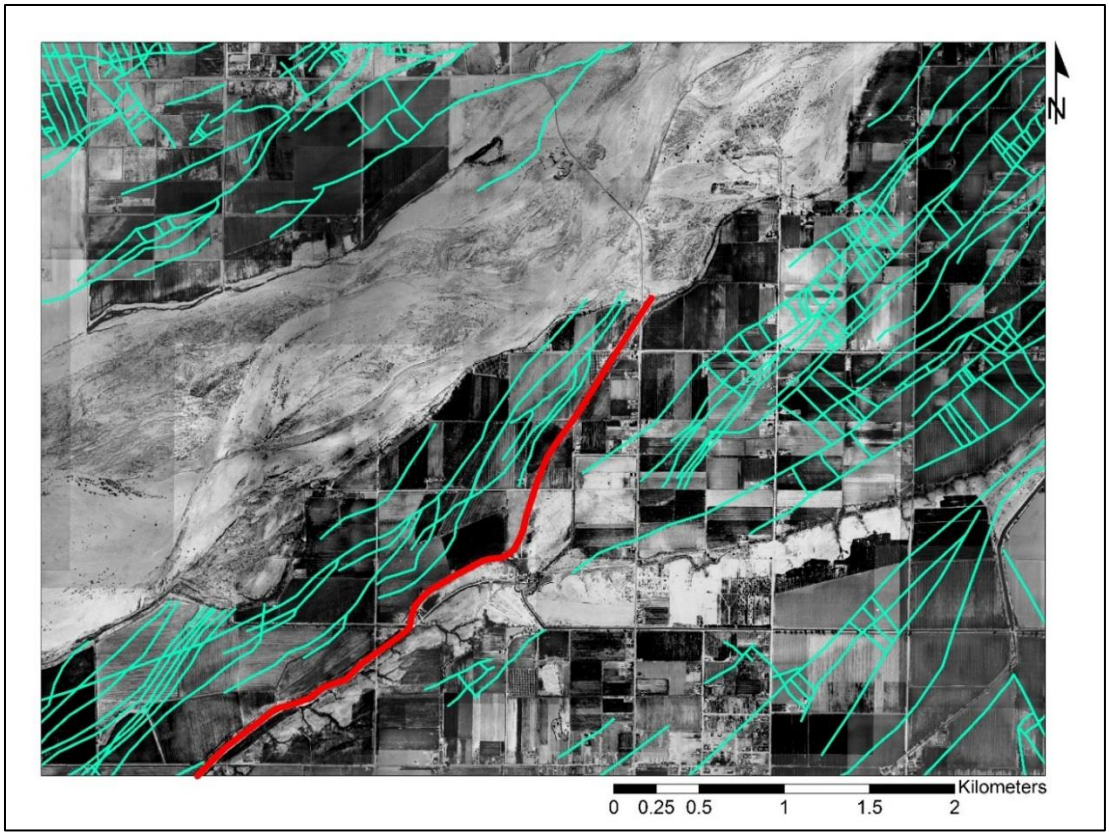


Figure 29. Historic aerial photograph (1949 photographic series) of the area near the historic Tempe Canal intake. The red line denotes the trajectory of the Tempe Canal. Aqua lines denote possible subsurface canals identified in historic aerial photographs.

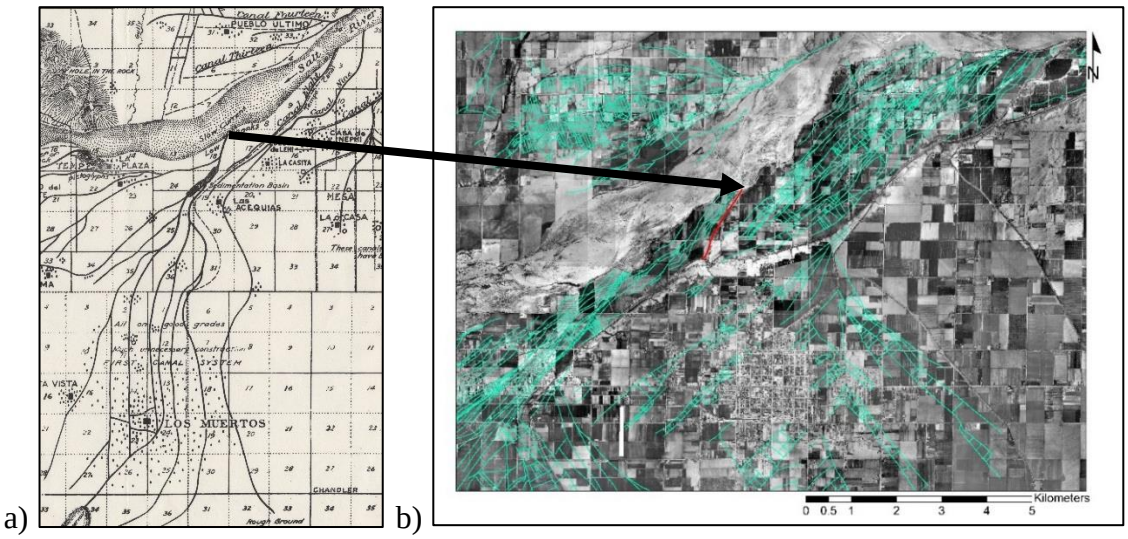


Figure 30. Side by side display of Turney's (1929) Canal Eight intake (a) and the intake location of canals that start just west of the Tempe Canal (red line) (b). Canals denoted by aqua colored lines.

An excavation project has not occurred in the area of the Tempe Canal intake to test the validity of the gap, but the Riverview Archaeological Project provided strong evidence for its existence. Rather than passing through the Riverview area, from an intake area to the east as depicted on Howard's (1992) map, excavated canals in the project area originated just north of the project area, except the oldest and largest canal that has been assigned to the Sedimento System in this research (see Chapter 4). The synthesis of canal data from the Riverview area and other data discussed in this chapter evince that Canal System 1 was not one large system, but likely four systems with varied developmental histories.

Summary

This chapter outlined the methodology used to reconstruct Hohokam irrigation systems in the lower Salt River Valley. The chapter began by defining the terminology used throughout this chapter and the ones that follow. Importantly, the term irrigation system is the generic term applied to canal networks because the term canal system is used only to refer to Canal System 1 and 2. Next, the historic aerial photography sets or series were identified. The series, dating to 1930, 1937, 1949, and 1959, were each used because they are the earliest available aerial photographs and buried canal segments appear in each series at differing visibility, from obscured to highly visible.

The steps taken to identify buried canals were then provided. Possible buried prehistoric canals were identified by spotting dark linear alignments in each historic aerial photograph series. Differential drying between finer sediments deposited in buried canals and surrounding soils made subsurface canals appear as dark lines. Those lines were marked in GIS software to compile possible canal maps.

Next, attempts were made to link possible canal segments. Canals were often not continuously visible from their start to terminus, but appeared as linear alignments that followed along a consistent trajectory. In instances where gaps existed between linear alignments that may have been part of the same canal, previous Hohokam irrigation maps and topographic models (DEMs) were consulted. If the alignments followed similar paths as depicted on previous maps, then the segments were linked.

Four factors that affected the identification of buried were discussed. First, earlier canals are deeply buried, and thus, not visible in aerial photographs. Second, when the aerial photographs were captured is critical. Ideally, the photographs would be taken after irrigation occurred to allows for differential drying. Third, in addition to moisture conditions, the photographed land had to be agricultural and oriented in the correct direction. If the land were desert or if field furrows were parallel with buried canals, then subsurface canals were not visible in the aerial photographs. Fourth, there is an archaeological excavation data bias toward Canal System 2. Although excavations have occurred east of Canal System 2 and south of the lower Salt River, those projects occurred in limited locations, as compared to excavation projects in Canal System 2. It was therefore not as easy to substantiate that linear alignments were buried canals outside Canal System 2.

The chapter then turned toward dating buried canals to allows for Hohokam irrigation system reconstructions. The most rigorous chronological assignments were made through absolute dating (confirmed dated). Canals that did not have absolute, but could be stratigraphically associated, allowed for chronological relationships (inferred dated). Finally, canals that did not have absolute dates or could not be stratigraphically

associated with known dated canals, were dated based on the dating sequences of the settlements they serviced (indirect dated). These three chronological levels allowed the developmental histories of irrigation systems to be determined.

The chapter ended by reevaluating Canal System 1. Prior to this dissertation research, Canal System 1 was characterized as a single irrigation system. The historic aerial photographs and canal data collected during the Riverview Archaeological Project suggested multiple distinct intakes likely serviced separate irrigation systems. The gap identified in aerial photographs catalyzed dividing Canal System 1 into four systems.

CHAPTER 4: A REEVALUATED HISTORY OF HOHOKAM IRRIGATION IN THE LOWER SALT RIVER VALLEY

The long history of mapping Hohokam irrigation systems in the lower Salt River Valley is continued here. The previous reconstructions provided valuable information about the canal networks that directed water away from the lower Salt River. Newly available data discussed in Chapter 3 provided the opportunity for a more in-depth reconstruction of Hohokam irrigation through time. A reevaluation of Hohokam irrigation along the lower Salt was justified by previously difficult to access historic aerial photographic sets and recent excavation data.

This chapter is divided into two parts. The first part examines two topics that affected the development of Hohokam irrigation within the lower Salt River Valley. The first topic is an extremely large flood that may have fundamentally reshaped the trajectory of irrigation development within the lower Salt River Valley. I suggest that available data signal the infrastructural layout of irrigation systems after the flood were radically different from those in operation before its occurrence. Irrigation system growth shifted from slow and incremental to massively expansive.

The second topic is the radically different irrigation infrastructure that appears to have spread across the valley after the extremely large flood. Previous Hohokam models depicted lower Salt River irrigation as a simple system that directed water through a main canal to a branch canal and out to agricultural fields. Historic aerial photographs and recent excavations near the Canal System 2 intake area provide evidence for a much more complex interconnected canal network in use by at least the Sedentary Period. Those lines of evidence suggest that the interconnected canal networks were likely organized

into standardized irrigation units, allowing for better utilization of available irrigation water and easier new agricultural land expansion.

In the second part of this chapter, I quite literally redraw the map of Hohokam irrigation in the lower Salt River Valley. It reflects a radically different valley-wide reconstruction of hydraulic development through time brought to light through previously unavailable data. Four managerially separate irrigation systems are newly defined, which were previously amalgamated together as Canal System 1. The four new irrigation systems are the Crismon, Sedimento, Riverview, and Los Muertos systems. Second, the reconstruction of the Lehi, Coyote, Scottsdale systems, and Canal System 2 are re-evaluated in light of new data. Finally, by interrogating these findings together, a novel and richly detailed narrative emerges for the 800-year-long record of large-scale irrigation in southern Arizona.

Factors That Affected Hohokam Irrigation Development in the Lower Salt River Valley

Before discussing the developmental histories of lower Salt River irrigation systems, two factors must be considered: 1) a late Colonial-early Sedentary extremely large flood, and 2) standardized irrigation units. Study data suggest that these factors may have profoundly altered the trajectory of Hohokam irrigation that had been established as early as the Red Mountain phase (ca. A.D. 50). Both appear to have fundamentally impacted Hohokam life by reorganizing irrigation infrastructure and strongly influencing where agricultural production and settlement occurred. As indicated below, the two factors likely reshaped irrigation system development after the Colonial Period.

Late Colonial-Early Sedentary Extremely Large Flood

As mentioned in Chapter 2, the lower Salt River was a braided stream with multiple shallow channels prior to the completion of Roosevelt Dam (Graybill and Nials 1989). Braided streams are inherently unstable, so large high-energy alluvial events tended to widen the river and cause the lower Salt channel to shift as much as 1.5 km (Graf 1983:128; Graybill and Nials 1989:7; Huckleberry 2015a). Critical for understanding morphological changes to the river, the lower Salt has a long history of high energy flood events.

Historically, weir dams and non-concrete headgates were damaged and destroyed by flow discharges of 12,000-20,000 cubic-feet per second (cfs), but the extent of those floods largely remained near the river banks (Ackerly 1989a:56). The irrigation infrastructure that directed water into canals was likely damaged on a near annual basis (Ackerly 1989a:60–61), so those features were likely designed to facilitate rapid repair and replacement (Ackerly et al. 1987:95–97; Nials and Gregory 1989:51; Woodson 2015:194, 196). In other areas, nutrients would have been deposited from the sediment-rich floodwaters, replenishing soil fertility (Huckleberry 2015b:103–104). Historically, the Akimel O'odham, recognized descendants of the Hohokam, differentiated potentially beneficial floods (*ge'edag shuudagĭ*, "big water") from floods that extended widely from the banks of the river and caused substantial damage (*cheshadag akimel*, "overflowed river") (Woodson 2015:181–182).

In a review of historic flood recurrence, Ackerly (1989b:77–79) found that floods with discharges in excess of 100,000 cfs, occurred every 14 years. These types of floods, which were five to eight times greater than normal annual floods, would have occurred

seven times per century. Ackerly (1989a) suggested that flooding frequency during the Hohokam cultural sequence was similar to historically documented trends, so Hohokam farmers likely expected very large floods to occur and cause destruction to irrigation infrastructure.

During the Riverview Archaeological Project (RAP; see Chapter 2) one canal was unlike the other canals documented during the project. The canal (Feature 10, identified as Canal Sedimento below) was much larger and further south than the other canals documented in the RAP area. Detailed examination of the canal's stratigraphy revealed a thick silt layer overlaying active canal channel alluvial deposits (Figure 31). The deposit's thickness and absence of grainsize sorting indicated that it may have been left by a very large flood (Jerry Howard, personal communication 2012). That flood apparently led to the canal's disuse because it was not reconstructed and remained buried below flood deposits. Optically stimulated luminescence (OSL) samples recovered from the uppermost active canal channel deposits showed the flood may have occurred around 1220 ± 100 (A.D. 694-894; OSL age estimate in calendar years before 2014). All other canals documented during RAP were either positioned above the flood deposit or cut through it.

A very large flood was documented two decades earlier a few kilometers west of the RAP area. During the Price Freeway project (Ackerly and Henderson 1989), carried out in the late 1980s, three of the four project loci (Locus 1 [northern half of AZ U:9:68 (ASM)], Locus 2 [southern half of AZ U:9:68 (ASM)], and Locus 3 [AZ U:9:69 (ASM)]) had a single canal, in use during the Colonial Period. Each was capped by a massive flood deposit (Katzer 1989). The flood deposit was not directly dated, but was instead

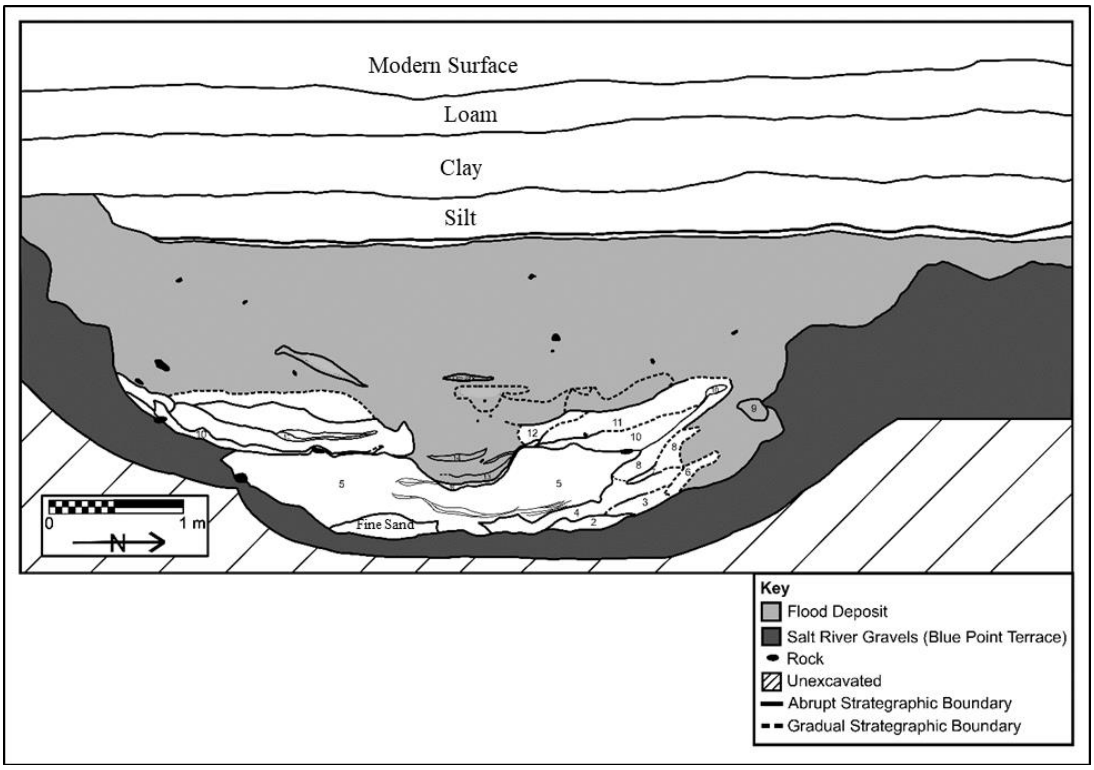


Figure 31. Canal Sedimento (Feature 10) cross-sectional profile as documented within the Riverview Archaeological Project area.

linked to the series of high flow events between A.D. 798 and 899, identified within prehistoric Salt River streamflow reconstructed by Graybill (1989; see Chapter 2).

Studies of slackwater flood deposits in the Salt and Verde canyons, referenced by the Price Freeway project, showed that a major flood occurred sometime before A.D. 1000 (Fuller 1987). The location of the slackwater deposits above the riverbed suggested that the corresponding flood had a possible peak discharge of 400,000-450,000 cfs (11,300-12,700 cms). Katzer (1989:208–209), the individual who identified the flood in the Price Freeway project area, suggested that it may have occurred late in the ninth century. According to streamflow reconstruction by Nials and colleages (Nials et al. 1989), the year with the greatest Salt River annual discharge between A.D. 740-1370, was A.D. 899.

The flood Katzer identified, at 400,000-450,000 cfs, was certainly among the largest floods identified in the geoarchaeological record during the Hohokam cultural sequence, and therefore can be described as an extremely large flood.[4.1] A question arises: is an extremely large discharge dating to the A.D. 800s manifest in the archaeological record beyond the RAP and Price Freeway project areas? If the extremely large flood was as large as Katzer and others (Fuller 1987) contended, then evidence should be apparent at various places along the lower Salt River.

The archaeological record documented at the RAP and Price Freeway project areas do not provide discernible insight into the effects of the extremely large flood, beyond the fact that it capped and possibly ended the use of the Colonial Period canals in both areas.

Collaborating evidence was derived from east of the RAP and Price Freeway project areas, in a right-of-way clearance excavation for the Loop 202 Freeway. Located along the western portion of the project area, AZ U:9:200 (ASM) contained at least one major canal that was in operation during the Colonial Period. Based on landscape reconstructions, the largest flood recorded at the site occurred around A.D. 850 (Redman et al. 2004:208) or possibly A.D. 899 (Phillips and Droz 2004:529). The flood deposit contained gravels, sands, and clay lenses, whereas, all later floods deposited only fine sands and clays. The late A.D. 800s' flood and later floods differed in deposit grainsizes, with coarse-grain sediments during the earlier flood and finer-grain deposited later in time. Prehistoric streamflow discharge is complex to calculate from alluvial deposits because a multitude of factors affect when grainsizes fall out of suspension (e.g., bed roughness, location in the water column, and turbulence). However, the width and

thickness of the A.D. 800s flood deposit across AZ U:9:200 (ASM) would have necessitated a much larger and more energetic (i.e., higher velocities) flow than those that later reached that area.

The Colonial Period canal (Alignment 4) documented at AZ U:9:200 (ASM) appears to have been brought to an abrupt end by the A.D. 800s flood (Phillips and Droz 2004:529; Phillips et al. 2004:37). The canal was capped by the flood deposit and not reconstructed, but it was possibly replaced by a newly constructed canal that followed a similar topographic trajectory and had a similar possible discharge (Phillips and Droz 2004:529).

The link among the RAP and Price Freeway project areas and AZ U:9:200 (ASM) is a very large flood, occurring in the latter part of the A.D. 800s, capped active irrigation infrastructure, leading to its disuse. In sum, very large flooding occurred in the AZ U:9:200 (ASM) area at approximately the same time as the extremely large flood documented in the RAP and Price Freeway project areas.

Moving west to Canal System 2 (discussed below), settlement patterns indicate that a major event occurred between the Colonial Period and the beginning of the Sedentary Period (Howard 1990a, 1991, 1993). During the Colonial Period, irrigation and settlement occurred on the upper portion of the floodplain and across the bajada slopes. By the beginning of the Sedentary Period, however, it appears that irrigation and settlement shifted off of the floodplain to the north. Although agricultural production and settlement shifted south again during the Classic Period, archaeological evidence suggests the floodplain was neither occupied nor farmed during the Sedentary. Howard

(1991:5.16) suggested that variability in streamflow and high-magnitude discharges between A.D. 798 and 899, likely caused the shift in settlement and irrigation.

Near the Canal System 2 intake area, a flood deposit was identified at the Park of the Four Waters, which contained abundant Santa Cruz and Sacaton Red-on-buff pottery (Masse 1976:25–26). The higher frequency of Sacaton Red-on-buff than Santa Cruz Red-on-buff, as well as an absence of Classic Period pottery types (e.g., Casa Grande Red-on-buff), led to the deposit being dated to the earlier part of the Sedentary Period. If this flood event is the extremely large flood, then the extremely large flood occurred during the transition between the late Colonial and early Sedentary, and possibly slightly later than A.D. 899.

Characterizing a Historic Extremely Large Flood: the 1891 Flood. Beginning on February 19, 1891, residents of the lower Salt River Valley experienced the largest historically documented flood event in the valley (Honker 2002). Concrete headgates and sections of main canals near the river were damaged, adobe houses and unsecured food stores in the floodwater path were destroyed, and city boundaries near the river were flooded. At the height of the flood, which occurred on February 24th, a peak discharge of 300,000 cfs was recorded (Honker 2002:117). It was feared that this unprecedented amount of water would render all of the irrigation systems along the lower Salt inoperable for a prolonged period of time or possibly result in the abandonment of some systems (Arizona Republican 1891a). After the waters receded to within the banks of the river and cleanup began, the residents of the valley discovered the results of the floods were somewhat different than they initially thought.

The floodwaters knocked out some headgates, ruptured canal berms near the river, silted some portions of canals, melted adobe structures throughout the valley, destroyed food stores, and killed at least five individuals on the Salt River Reservation south of the river, confirming initial fears (Arizona Republican 1891c, 1891d, 1891e). The extent of this destruction was larger than it would have been otherwise, because the floodwaters flowed along both in-use and abandoned historic canals and spilled out into city roads at weaknesses in canal berms (Arizona Republican 1891f).

Conversely, there were several positive results. Canals near the river burst and saved irrigation infrastructure farther away from the river. The ruptured sections acted like pressure-release valves, allowing high-velocity water to flow out of the canals, rather than eroding the entire length of the canals (Arizona Republican 1891c, 1891d, 1891g). The flood was described as a silt-rich "muddy deluge" that deposited 6 inches to a foot of nutrient-rich silt onto fields and raised the height of the riverbed a foot and a half north of the town of Lehi (Arizona Republican 1891b, 1891e, 1891h; also see Graybill et al. 2006:105–109).

The 1891 flood provides some characteristics of an extremely large flood in the lower Salt River Valley. Portions of canals and non-reinforced intake infrastructure (e.g., headgates) were significantly damaged and destroyed. Also, the bursting of canals near the headgates prevented further damage down the length of canals. The rushing waters destroyed earthen structures and food stores, and the high silt load entrained within the floodwaters led to depositional conditions that raised the height of the riverbed and replenished nutrients in agricultural fields. Although sand deposits do occur along the lower Salt, reports about the 1891 flood described a much finer sediment load.

The 1891 flood record gave visual reference to the effects of a flood with a peak discharge of 300,000 cfs or greater (Figure 32). The historic proxy suggests the late Colonial/early Sedentary extremely large flood would have caused widespread destruction to irrigation infrastructure along the river, through erosion and deposition, but irrigation agriculture persisted. Historic valley residents were able to resume agricultural production in about a month. The prehistoric flood likely fundamentally changed irrigation along the lower Salt River (see Sedimento and Riverview system descriptions below), but did not impede societal longevity, as exemplified by the five centuries of Hohokam occupation in the valley after the extremely large flood.

Standard Irrigation Units

The methods used to reconstruct Hohokam irrigation in the lower Salt River Valley (Chapter 3) revealed an irrigation structure not seen with previously available data. As discussed below, this infrastructure termed standardized irrigation units (SIU), was far more sophisticated than described in the Hohokam literature. The SIUs allowed for more efficient water usage and easier expansion while requiring social relationships that cut across settlement boundaries.

Prior to this dissertation research, the hydrological methods Hohokam farmers used to direct water from the lower Salt River to distant agricultural fields were well-described by Howard. Hohokam irrigation, Howard (1990a, 2006:26–29) contended, followed a stepped progression to reach agricultural fields (Figure 33). Water entered a main canal through a headgate located in an intake area on the river's edge. Water was delivered directly to fields (one level system), or was directed through one or more canals to reach fields in multiple areas (e.g., among neighboring settlements). Regardless of the

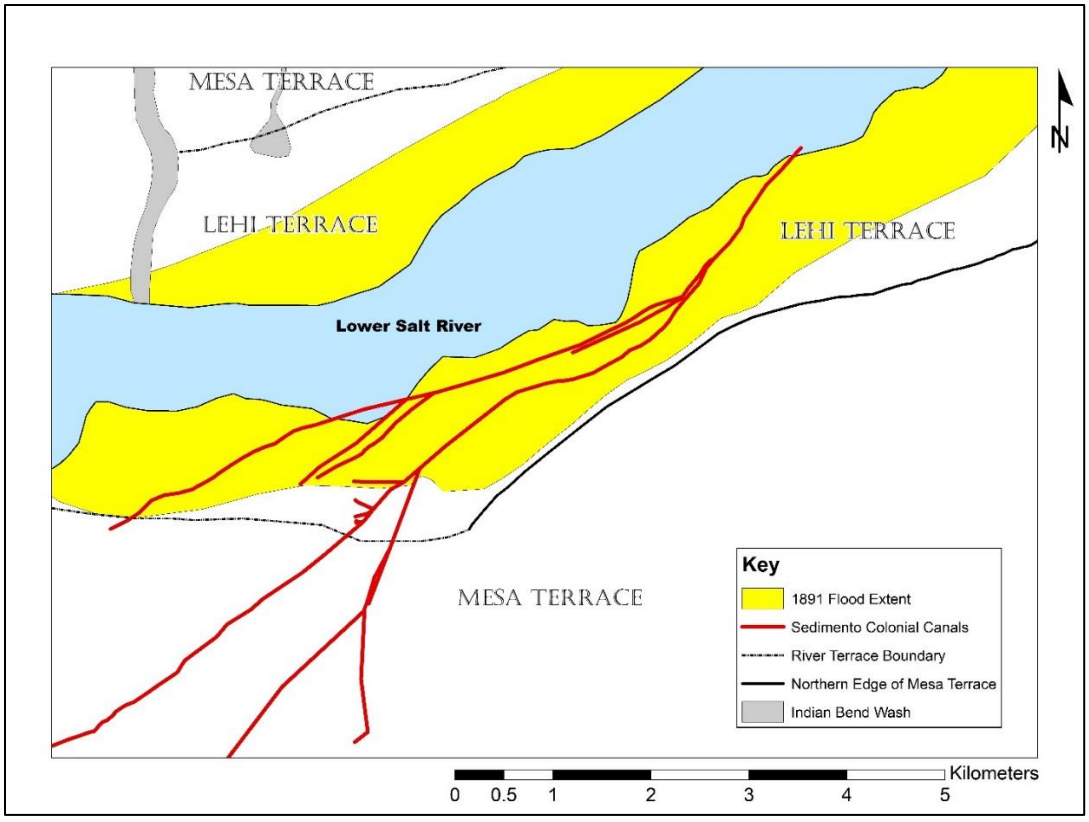


Figure 32. The extent of the 1891 flood (yellow shading) in relation to the location of Canal Sedimento and the Sedimento System during the Colonial Period. River terrace boundaries from Pearthree and Huckleberry (1994).

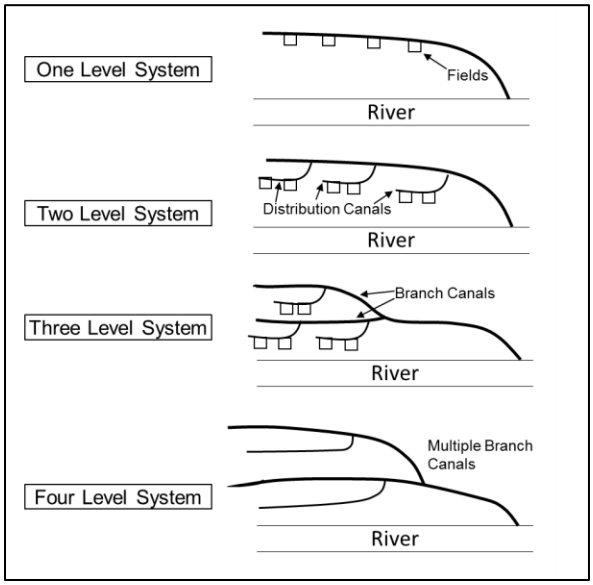


Figure 33. The theoretical "schematic comparison of irrigation system structures by number of levels of operation and possible organization" Howard (2006:Fig. 1) used to understand the structure of irrigation systems. This theoretical schematic was derived from the work of Uphoff (1992:60–66). Modified from Howard (2006:Fig. 1).

number of canals the water was diverted through, once the water exited a main canal, it could not be redirected farther down the line back into the main canal.

According to Howard's model, water entering a branch or distribution canal had to either be applied to fields or was lost through seepage and evaporation. If an agricultural field along a main canal met water requirements, the excess water within the branch and distribution canals could not be transferred to other parts of the irrigation system. During times of limited water availability, the confinement of water within branch and distribution canals likely had wasteful effects. Without the ability to transfer water between agricultural areas, portions of an irrigation system could have been well watered while other areas were left dry and experience reduced agricultural yields.

Howard's model provided a similarly restricted means of infrastructure growth. The amount of agricultural land could only increase through the addition of branch and associated distribution canals. Once a main canal was constructed, branch and distribution canals were added to create new agricultural plots. The creation of new fields ceased when new branch and distribution canals reached the end of the main canal.

The necessity to maintain equivalent water levels in the main and all the associated or "attached canals" limited the placement of the new infrastructure (Figure 34). When water entered an attached canal, it was required to travel downslope until sufficient water pressure or hydraulic head was established. This pressure was necessary for the irrigation water to reach all areas along an attached branch canal after the canal turned 90° to parallel the main channel (Howard 1990a:17–21). Once the canal flows reached their intended destination, the hydraulic head was also required to lift the flow and spill it onto the planted surface. Assuming that all attached canals were placed upon a

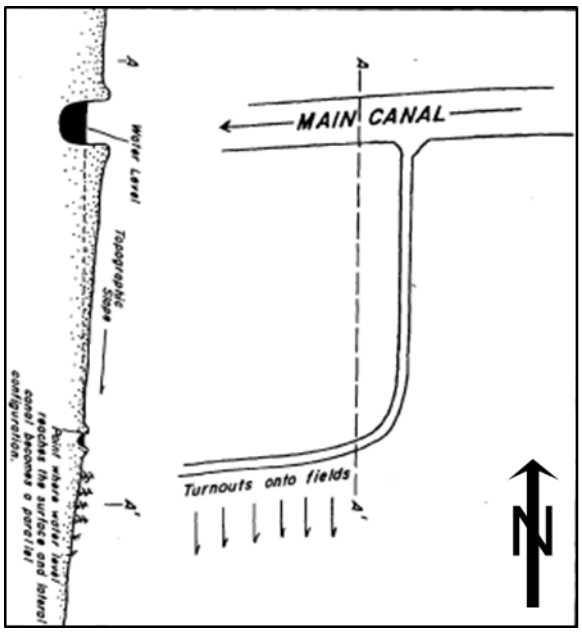


Figure 34. Howard's (2006:Fig. 12) model of the redirection of water from main canals through distribution canals and out to agricultural fields.

level ground surface, they would have required the same minimum distance to establish sufficient head pressure. Howard (2006:140) argued that attached canals were constructed at regular intervals and on only the downslope side of canals.

Diverting water downslope, before turning parallel with a main canal, demanded newly attached canals to be constructed at the preceding attached canal's terminus. New main canal construction was therefore required when all possible branch positions were occupied in order to increase the irrigated acreage further.

Historic aerial photographs (Figure 35) and excavation records present a view of Hohokam irrigation infrastructure that diverges from Howard's irrigation model. The stepped progression (river, main canal, branch canal, and agricultural fields) is not born out by the prehistoric record. Instead, the Hohokam archaeological evidence indicates that highly integrated canal networks directed the irrigation water. In the early 1970s, cursory evidence was presented for a highly sophisticated and socially complex irrigation

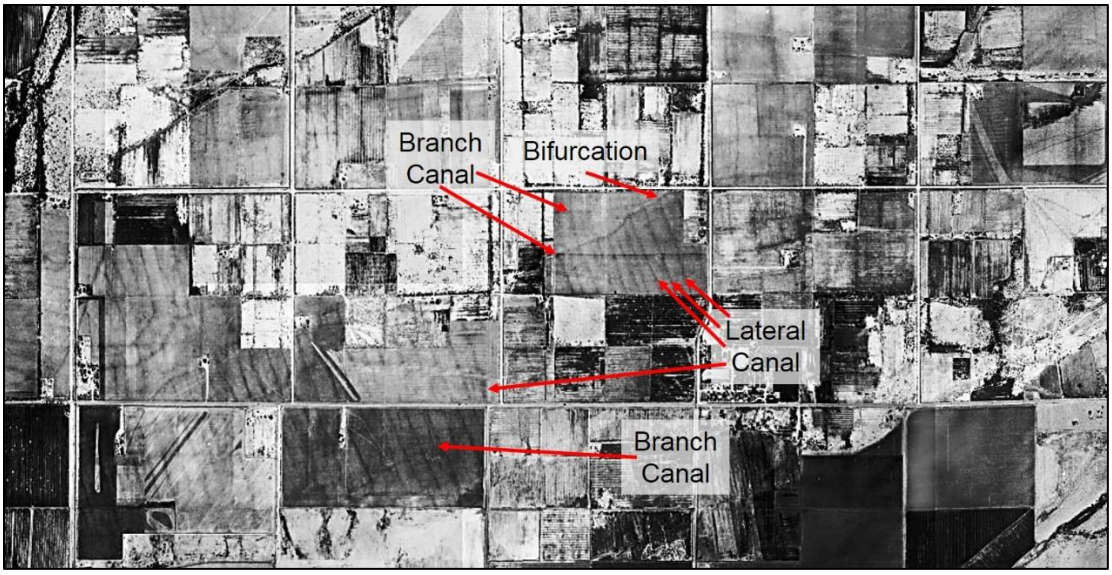


Figure 35. Example of the relative completeness of the canal network proposed by Masse (1981) as seen in historic aerial photographs taken over the Scottsdale System.

infrastructure. The Arizona Department of Transportation (ADOT) contracted with the Arizona State Museum to conduct archaeological clearance excavations prior to the construction of the US 60 Freeway (Herskovitz 1974; Herskovitz and Hartmann 1981). Five canals were documented in the right-of-way, but more importantly, Herskovitz acquired aerial photographs from ADOT. Within these images, Herskovitz identified several connected buried prehistoric canals. He was able to correlate canal segments seen in the photographs with canals documented during the excavation.

Herskovitz limited his use of aerial photography to identifying buried canals, but the extraordinary value of the photographs was demonstrated in the early 1980s. Bruce Masse (1981) found the canals seen in the aerial photographs were likely interconnected. Masse (1981:412) stated, "[t]he main canal is divided into a myriad of branches (distribution canals), each serving various field locations. Lateral canals, the smallest visible component of the irrigation system, are usually sandwiched between, and run perpendicular to, the distribution canals."

Evidence substantiating Masse's characterization of Hohokam irrigation was identified during an excavation project located just northwest of Pueblo Grande. Before construction between the Lightrail (PHX Sky Train) and Sky Harbor International Airport, a field crew from Desert Archaeology uncovered the most detailed Hohokam field system ever discovered along the lower Salt River (Henderson 2015). Using an excavation methodology similar to one employed during the Las Capas project in Tucson (Mabry 2008), the PHX Sky Train project area was mechanically stripped, revealing an intricate canal network that guided water to fields (Figure 36). Uncovered were branch canals that provided water to primary lateral canals. The lateral canals were perpendicularly connected to the branch canals. Extending from the primary lateral canals were secondary laterals that then directed water to field turnouts and applied water to agricultural fields. Optically Stimulated Luminescence dating of the canals indicated the irrigation network was in use by the late Sedentary to the beginning of the Classic periods, between A.D. 1000 and 1150 (Schaafsma 2015:117).

The PHX Sky Train field system is striking, in part, because it is tens of kilometers away from the location where Masse proposed a highly integrated Hohokam irrigation infrastructure. The distance suggests that the canal network was not a localized anomaly found south of the lower Salt River, but it was widespread. The historic aerial photography examined for this dissertation research reveals the canal network is indeed observable across the lower Salt River Valley. The pervasiveness of the network supports the use of the term standardized irrigation unit (SIU) to describe this irrigation infrastructure model.

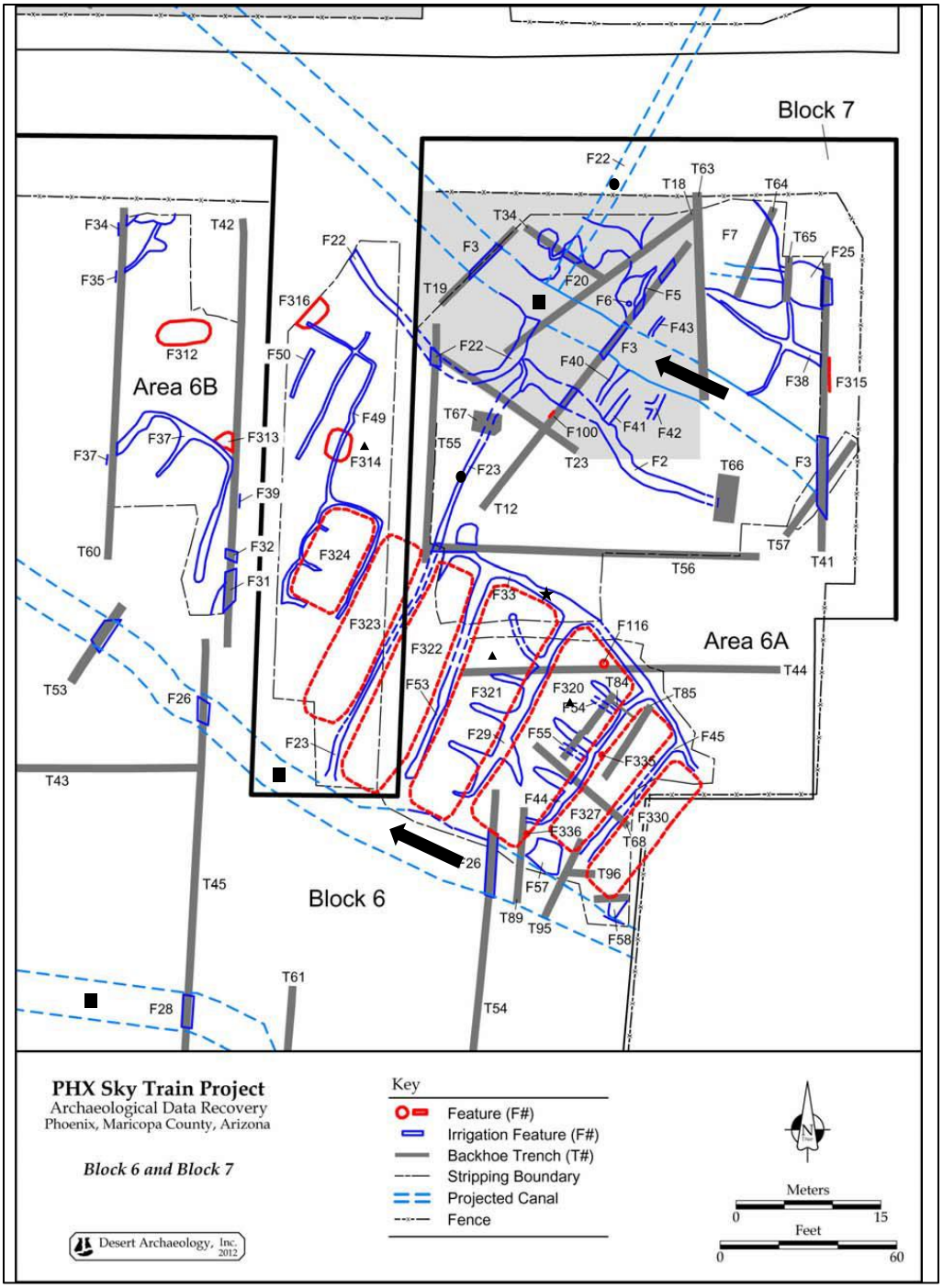


Figure 36. Plan map of field network excavated during the PHX Sky Train Project (modified from Henderson 2015:Figure 2.7). Black squares denote branch canals. Black circles denote primary lateral canals. Black star denotes secondary lateral canals. Black triangles denote the location of field turnout canals into field areas. Black arrows denote the direction of water flow.

The SIU model is characterized as having several components (Figure 37). The largest component was the main canal. The second component was found where the main line bifurcated into two branch canals. It was between these branch canals where crops were cultivated. Running between the sides of two bifurcated canals was the third component, primary lateral canals. Finally, a fourth component was secondary lateral canals, which extended from the primary lateral canals. Within the secondary lateral canals, water could flow to fields until the demand was met. When needs were satisfied, secondary lateral gates, such as the one identified in the boundaries of La Cuidad (Figure 38 and 39), could be closed. Remaining water would then flow to the next primary lateral canal and the next set of neighboring fields, or to the downslope bifurcated canal.

Field turnout canals, which connected to the secondary lateral canals, directed water to field areas, is identified here as the service area (see Figure 37). The service area is equivalent to the command area, as discussed by Howard (2006). Upon reaching agricultural fields, water flowed through openings in the side of the field turnout canals, identified as field intakes. The intakes would remain open until the field received its share of water. Once in the service area all water was either applied to fields or lost (e.g., seepage and evaporation).

Unlike the limited growth potential of Howard's (1990a, 2006) irrigation model, the SIUs would have allowed for the lateral growth of new agricultural areas before requiring new main canals to be constructed. As illustrated by Figure 37, a bifurcated canal could be further bifurcated before reaching the canal terminus. Further bifurcated canal additions could be continued until sufficient water head could not be maintained in

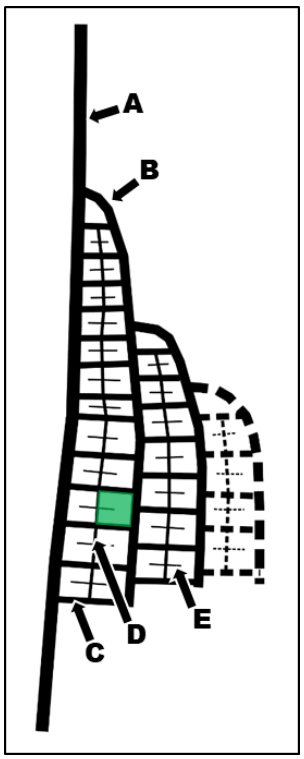


Figure 37. Theorized depiction of the standardized irrigation unit model of irrigation. The dashed lines represent the location of where a new portion of the unit can be added laterally to create new agricultural areas. Standardized irrigation unit component key: A = main canal, B = bifurcated canal, C= primary lateral canal, D = secondary lateral canal, E = field turnout, and green shading = service area.

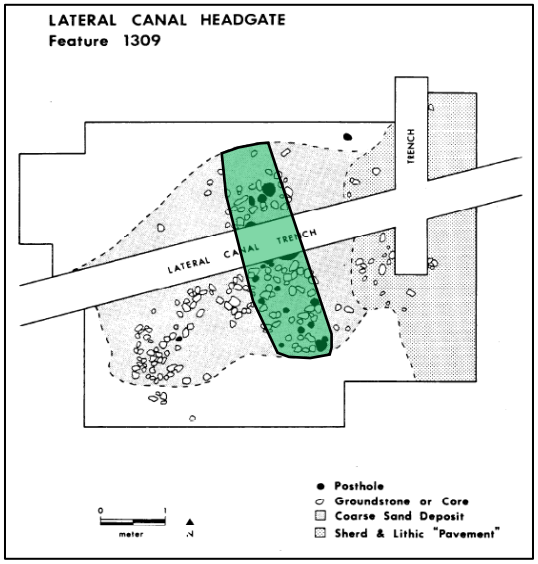


Figure 38. Planview map of La Ciudad lateral gate (Ackerly et al. 1987:Fig. 5.4). Green shading denotes the alignment of postholes interpreted as the lateral gate location. The relatively high density of groundstone likely results from its integration as a part of the lateral gate construction (see Figure 39).

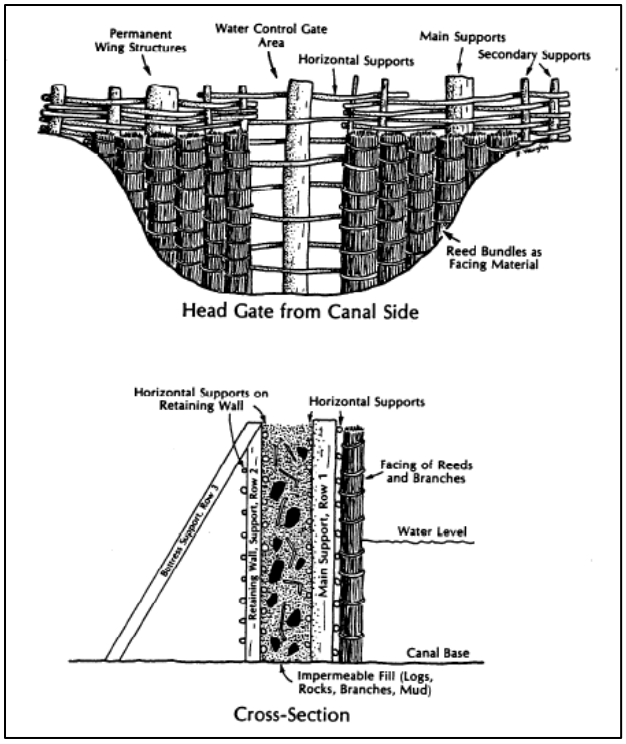


Figure 39. Theorized construction of a lateral gate. From Ackerly et al. (1987:Fig. 5.7).

new additions, or lateral expansion was blocked by settlements, canals, or geographic features.

SIUs were widespread, implying that they were sensible and easily managed on the ground. As insightfully pointed out by Robert Hunt (personal communication 2019), an esteemed expert on the ethnography of irrigation (e.g., Hunt 1988; Hunt et al. 2005; Hunt and Hunt 1976), the SIU arrangement was unique in several ways. First, the operation of multiple main canals would necessitate continuous maintenance. Entropy would persist in all canals, regardless if they were in active operation or not. Vegetation growth, berm slump, and erosional forces (e.g., precipitation and wind) would cause canals to slowly decline in utility without labor inputs. Second, the intermixing of water from two main canals is unknown ethnographically. Third, SIU management was probably complicated, but it provided a benefit of more efficient water use. This benefit

would be potentially significant in situations where water supplies could be variable (as is proposed for the Hohokam based on the findings presented below).

The absence of known ethnographic analogs globally means that there are no eye-witness accounts of how the SIU irrigation actually worked. Furthermore, although the PHX Sky Train and Masse empirical evidence seem to imply an unassailable interpretation, there remains an element of supposition to be considered further with in-depth analysis of future discoveries. For instance, it is widely assumed that proximate and parallel main canals were contemporaneous, but better dating is needed. As such, future research needs to address, for instance, if Classic Period canals were coeval or if some were early and others late in the Classic Period.

The SIU proposition is new and therefore needs to be reconstructed in detail – a rationale for future research. Still outstanding is how water moved through the physical infrastructure. The discussion above is a strong start toward this technological aspect. Additionally, how the SIUs were managed is not addressed in this dissertation research. Relevant questions are: What was the composition and domain of cooperative units? How did Hohokam social organization map onto the physical infrastructure? How was social organization mapped onto SIUs maintenance duties? What were the rights and duties with respect to the intake? What were the rights and duties with respect to the main canal? What were the rights and duties with respect to the downstream secondary canals? If the Hohokam SIUs were unique, it stands to reason the Hohokam social organization was also unique. Because the ethnographic record does not include SIUs, we do not know the full range of social arrangements related to irrigation management. The Hohokam present a case the likes of which has not been seen before.

Howard (2006) proposed that the social organization of farmers within irrigation systems was bounded by settlement territories, centered at major villages (e.g., Pueblo Grande, La Cuidad, and Las Colinas for Canal System 2). Although Hohokam irrigators from different settlement territories may have interacted during the servicing of main canals (e.g., Woodson 2014), managerial tasks were confined to major settlement representatives. Farmers therefore relied on the representatives for organizational and grievance guidance. The interconnection among canals and vitalness for staving off canal entropy argues against the social organization Howard proposed. Irrigators likely would have been reliant upon both irrigators up and down canal from them for the timely arrival of irrigation water and labor contributions, but also farmers upslope from their location who may not have been associated with the same settlement territory. The upslope farmers would have been critical for directing unused water toward downslope fields during times of declined water. Future research therefore needs to investigate the extent of social boundaries encompassing each part of the SIUs.

Developmental Histories of Lower Salt River Irrigation Systems

This section presents three subsections detailing the developmental histories of Hohokam irrigation systems along the lower Salt River. The first details the newly defined irrigation systems located south of the river. The second summarizes previously characterized irrigation systems and the Coyote System. The third synthesizes the reconstructions into a developmental history of prehistoric irrigation in the lower Salt River Valley.

Developmental Histories of Newly Defined Irrigation Systems

The newly defined irrigation systems south of the lower Salt River formerly

composed Canal System 1 (see Chapter 3). Detailed examination of historic aerial photographs and excavation data signaled that Canal System 1 was not one irrigation system, but four: Crimson System, Sedimento System, Riverview System, and Los Muertos System.

Crismon System

The Crismon System was located on the south side of the lower Salt River between the start of the lower Salt River floodplain (i.e., the geological floodplain consisting of both the braided riverbed and the Lehi terrace), the edge of the Mesa terrace, and the historic Tempe canal on the Lehi terrace (Figure 40). The system's location constrained its total possible expanse to 2-3 kilometers of lateral growth. The lower Salt geographically bound it to the north and west, and the northern edge of the Mesa terrace to the south and east. Despite this hindrance to growth, the Crismon System's placement on the Lehi terrace kept it above the lateral expansion of the lower Salt, except during the largest flood events (e.g., Katzer 1989).

Excavation data reveal that the Crismon System was established early in the Pioneer Period. Human occupation of the area began as early as the Archaic (ca. 3,000 BP; Powell and Boston 2004), according to radiocarbon dates from a large charcoal stain at AZ U:9:200 (ASM). The configuration of the irrigation infrastructure and settlement patterns during the Pioneer was defined by the location of two main canals (east and west), spaced approximately 2 km apart (Figure 41). Despite a long history of occupation on the Lehi terrace (also see Morris 1969), the organization of the system was characterized by dispersed, low-density settlement, as opposed to Canal System 2 (see below).

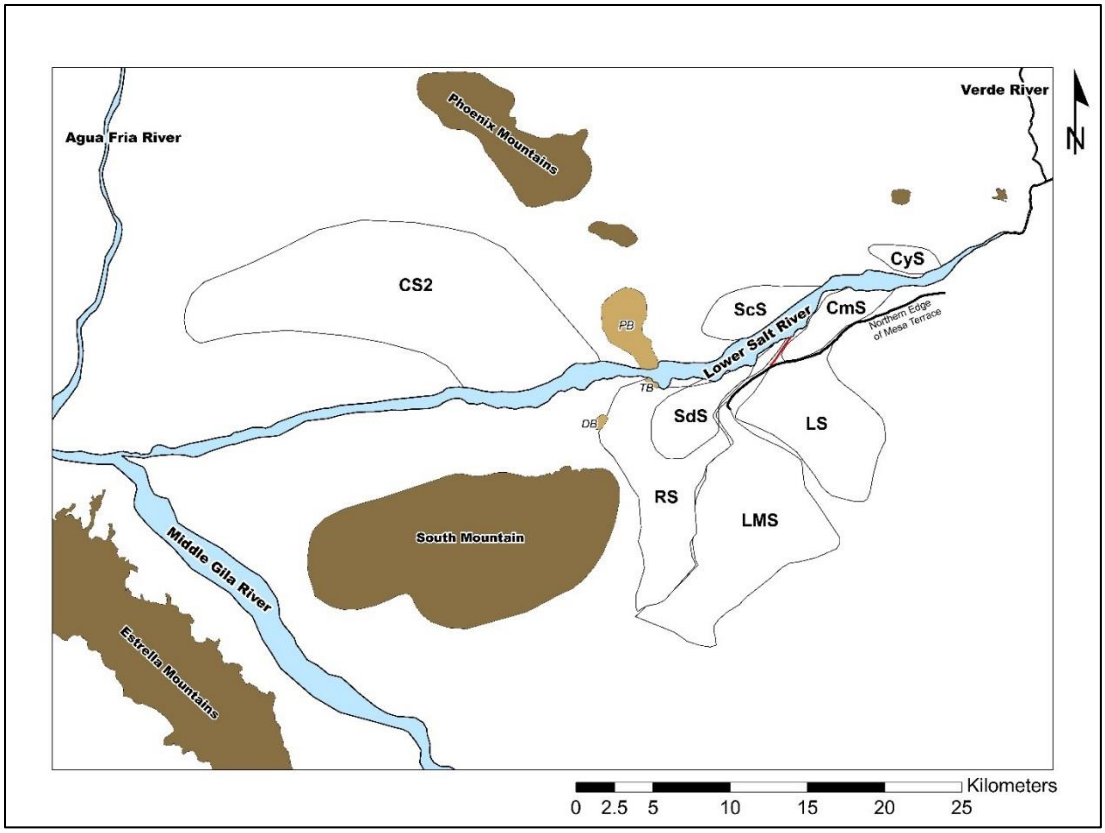


Figure 40. Location of Hohokam irrigation systems within the lower Salt River Valley. Irrigation system symbol key ordered as appears in discussion: CmS – Crismon System, SdS – Sedimento System, RS – Riverview System, LMS – Los Muertos System, LS – Lehi System, CyS – Coyote System, ScS – Scottsdale System, CS2 – Canal System 2. Geological feature symbol key: PB – Papago Buttes, TB – Tempe Butte, DB – Double Butte. Thick black line represents the northern edge of the Mesa terrace. Thick red line south of the lower Salt River and between the Crismon and Sedimento systems represents the Tempe Canal between its headgate and the northern edge of the Mesa terrace. Thick green line north of the river and east of Papago Buttes represents the location of Indian Bend Wash.

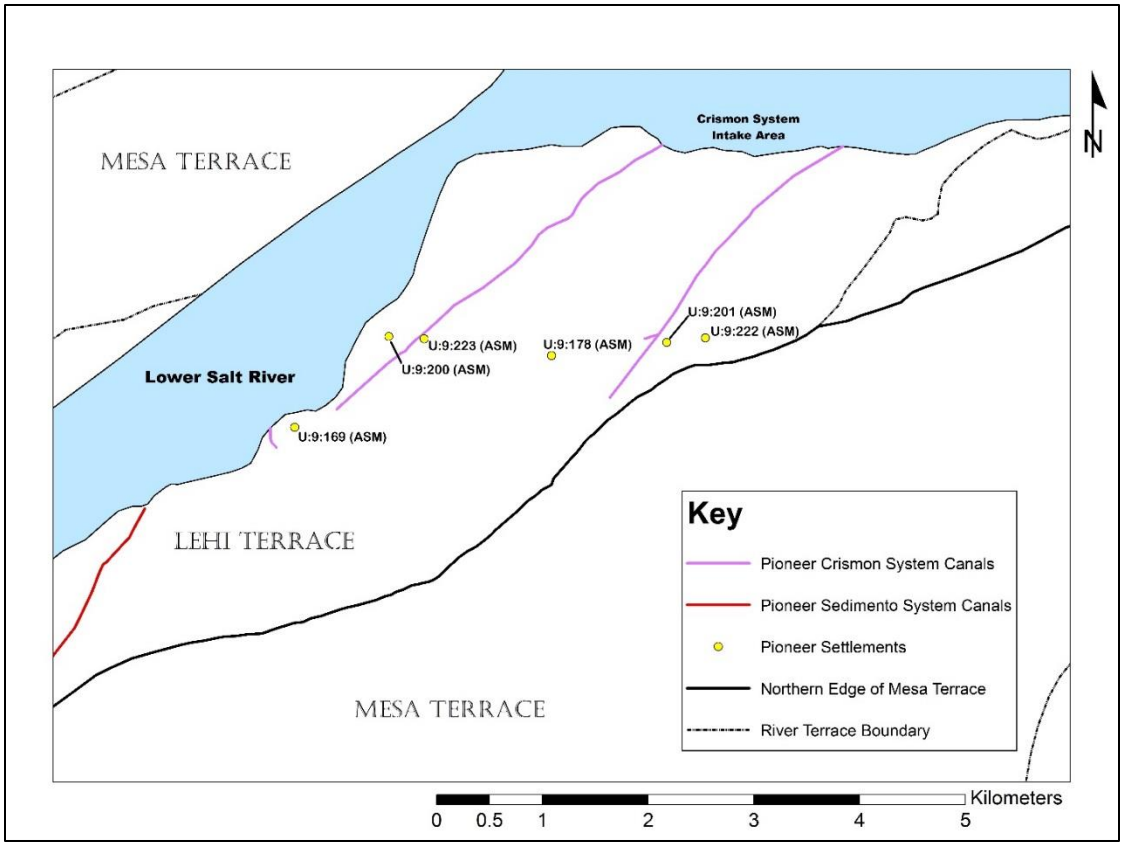


Figure 41. Map of habitation sites (yellow dots with labels) and canals (purple lines) in the Crismon System during the Pioneer Period. River terrace boundaries from Pearthree and Huckleberry (1994).

The Crismon System during the Colonial Period differed slightly from the system during the Pioneer Period, but irrigation infrastructure and settlement patterning began to shift during the Sedentary and Classic periods. The most notable occurrence during the Colonial Period was the reconstruction of the eastern main canal (Figure 42). Although the eastern main canal shared the Pioneer Period alignment, as suggested by data from AZ U:9:148 (ASM) (Mitchell and Crary 1996), a new canal was constructed to reach areas to the southwest. Accretional growth of the existing Pioneer Period canal would have caused flow problems due to differences in gradient of the two parts (Howard 1990a), so the construction of a new main canal was necessary. Available excavation data and historic irrigation maps (e.g., Midvale 1945; Turney 1929) do not indicate the

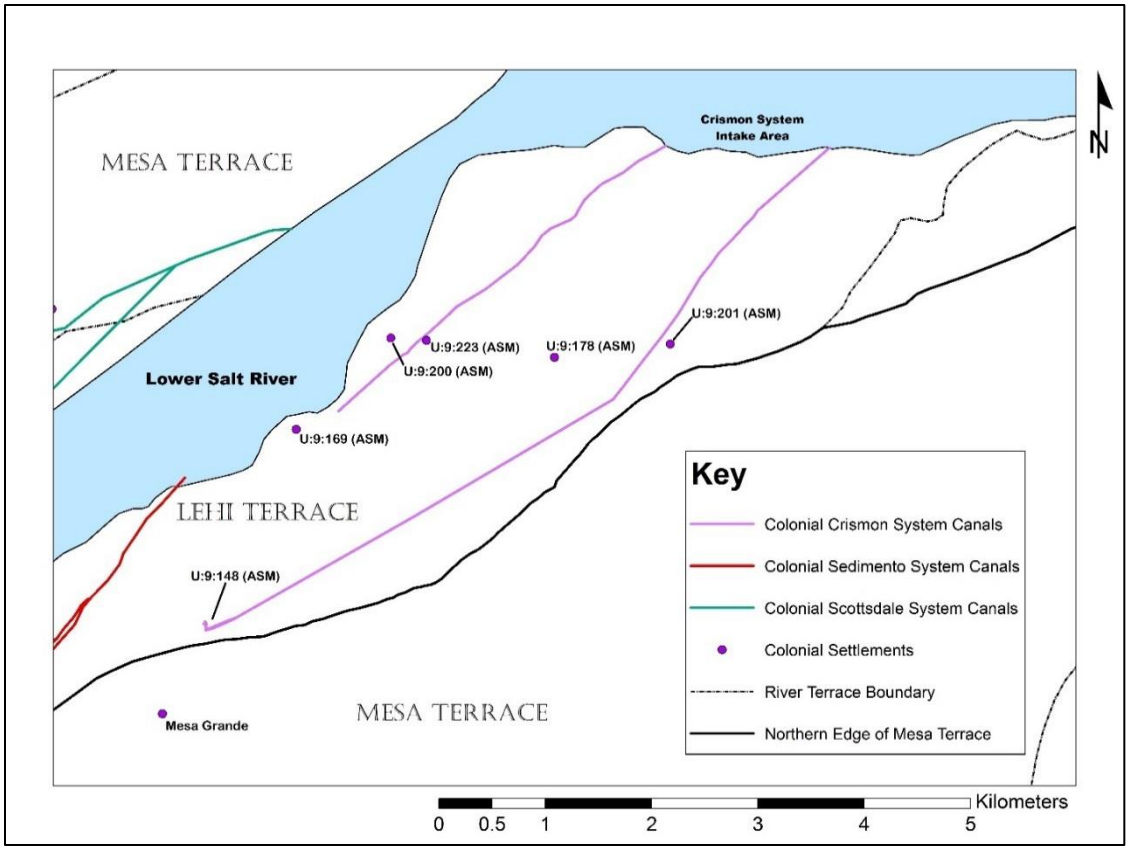


Figure 42. Map of habitation sites (purple dots with labels) and canals (purple lines) in the Crismon System during Colonial Period. Sites that are indicated with labels, but are not marked by a purple dot, denote locations were only canals data was recorded. Evidence of habitation was not documented at these locations. River terrace boundaries from Pearthree and Huckleberry (1994).

presence of habitation in the southern portion of the Lehi terrace. Instead, settlement growth along the Mesa terrace edge may have prompted eastern main canal expansion.

South of the lower Salt River during the Colonial Period, most of the Hohokam population resided on the Lehi terrace. Additionally, a low-density habitation appears to have taken root on the Mesa terrace as well. Despite a lack of evidence for Colonial Period habitation sites on the Mesa terrace near the eastern boundary of the eastern main canal, settlement expanded southwest of the canal's terminus. At the end of the Pioneer Period, Mesa Grande was founded near the edge of the Mesa terrace (Howard 2006:185–

186). Historic agricultural activities and urban development have impeded the study of Mesa Grande's development, but ceramic data from the platform mound and ballcourt area reveal the community began to grow during the Colonial Period.

Irrigation was not "brought onto" the Mesa terrace until the construction of the Lehi System sometime between A.D. 1000 and 1100 (Howard 1987). The reconstruction of the Crismon eastern main canal may have allowed members of Mesa Grande to practice agricultural production on the Lehi terrace. The residents of Mesa Grande likely also participated within the Sedimento System, given system proximity, but on a limited scale. The Crimson System would have provided greater space for agricultural expansion than the much more constructed Sedimento System in the vicinity of Mesa Grande.

The Sedentary Period marked a time of irrigation infrastructure reorganization and agricultural and settlement expansion. The widely spaced layout of the eastern and western main canals during the Pioneer and Colonial periods was replaced with multiple main canals grouped into three service zones (Figure 43). Single main canals continued to operate in the area of the eastern and western main canals, but four main canals were constructed between the eastern and western areas. These central main canals were structurally very different from the previous canals. Instead of water traveling from a main canal to a branch canal and then into a lateral canal for application on agricultural fields (Howard 1990a, 2006), the irrigation infrastructure of the Crismon System during the Sedentary Period likely reconfigured into the standardized irrigation units, if the hydraulic infrastructure was not already structured into the units. If SIUs were in use before the Sedentary period, then they were greatly expanded.

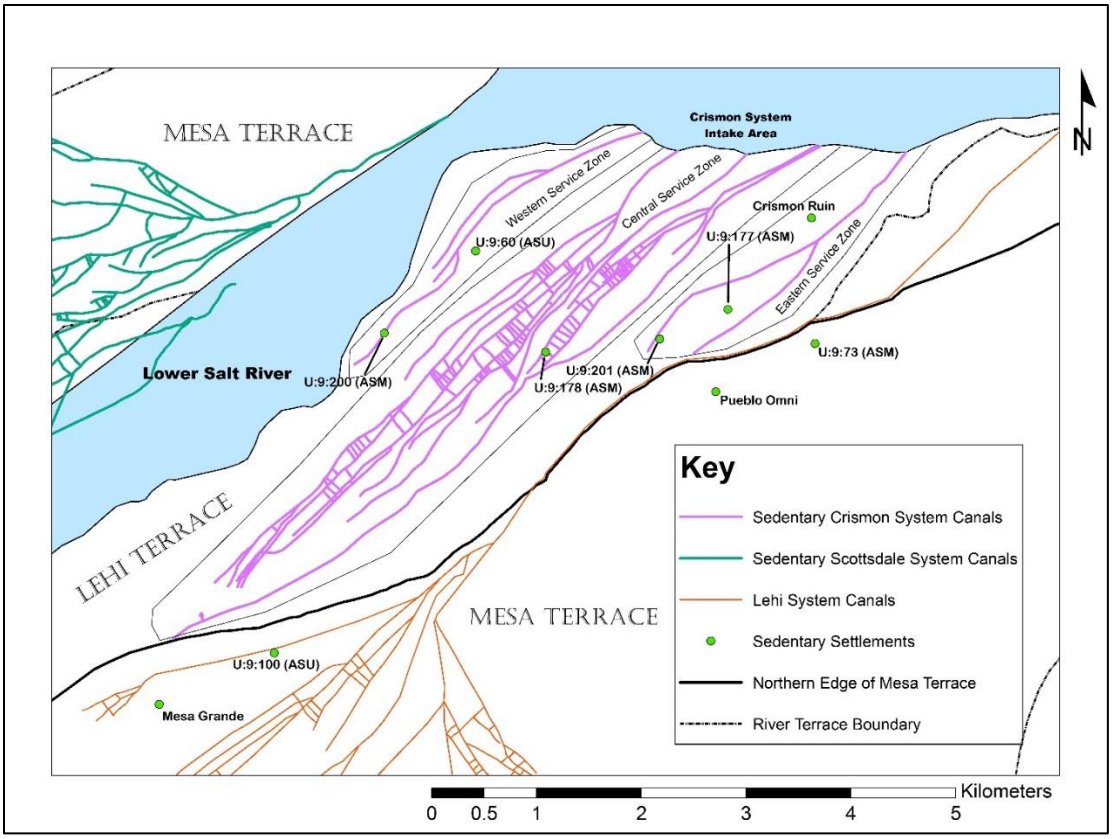


Figure 43. Map of habitation sites (green dots with labels) and canals (purple lines) in the Crismon System during the Sedentary Period. Dashed lines denote the boundaries of service zones. River terrace boundaries from Pearthree and Huckleberry (1994).

The eastern and western zones of irrigation and along the edge of the Mesa terrace marked the location of Crismon System settlement during the Sedentary Period. The densities of standardized irrigation units within the central zone and the near absence of habitation in that area suggests that the central zone was the main area of agricultural production. Except for Crismon Ruin, the concentration of habitation likely shifted onto the edge of the Mesa terrace.

The shifts in irrigation infrastructure and settlement patterning during the Sedentary Period continued within the Crismon System during the early Classic Period. The most significant increase in irrigation infrastructure occurred in the system's central zone (Figure 44). Irrigation was expanded laterally in this area through the addition of

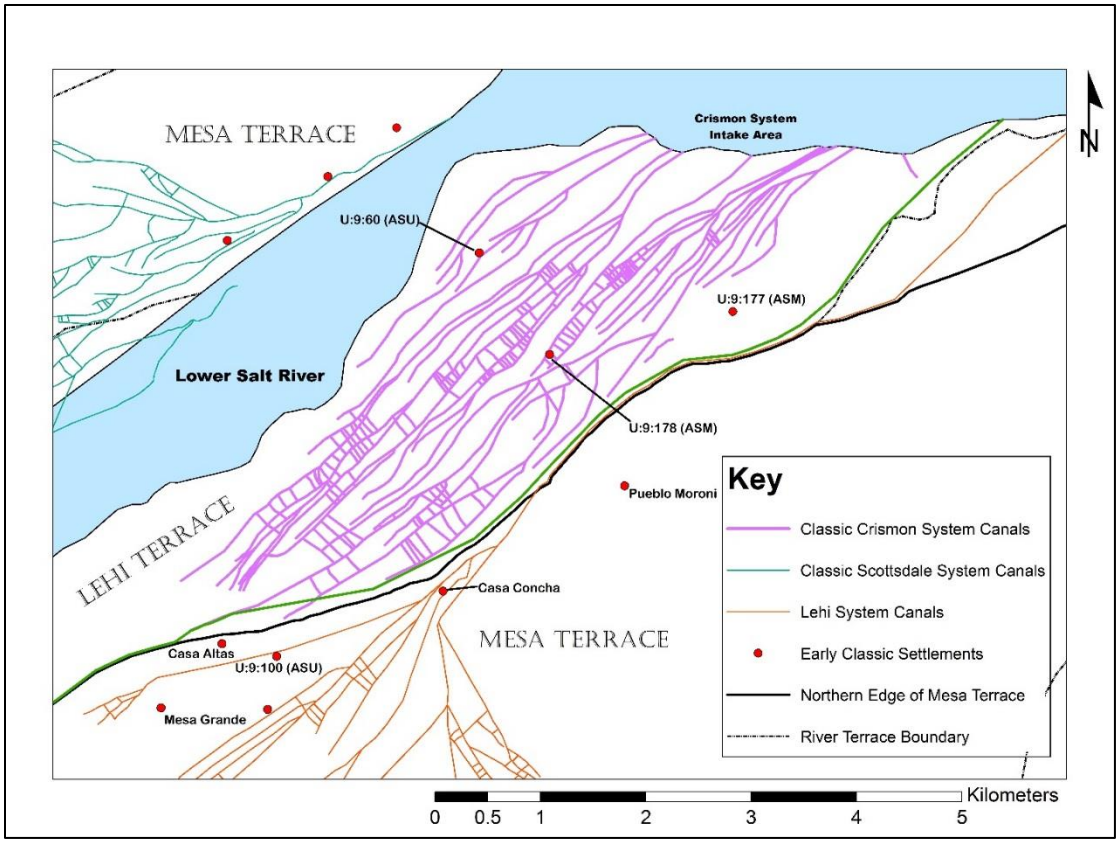


Figure 44. Map of habitation sites (red dots with labels) and canals (purple lines) in the Crismon System during the early Classic Period. River terrace boundaries from Pearthree and Huckleberry (1994).

new bifurcated canals off of existing canals. Additionally, three new main canals were constructed, bringing the total count to nine. The Sedentary Period canal in the eastern zone appears to have been abandoned because no evidence of irrigation or settlements dating to the early Classic Period has been found in that area. Of interest, Crimson Ruin, the largest settlement on the Lehi terrace during the Sedentary Period, also depopulated during the early Classic Period (compare displayed settlements on Figures 43 and 44).

During the excavation of Crismon Ruin, prior to the construction of the Loop 202 Freeway, no early Classic Period component was identified, despite being inhabited during the Sedentary Period and again during the late Classic Period (Henderson 2011a). Evidence suggesting the possible cause of the settlement's depopulation was not found

during the excavation. Further, insight into the hiatus and abandonment of the eastern main canal is not gained by looking at the rest of the system, because central zone canals were in operation near that area. Available archaeological data, therefore, do not provide an explanation for the settlement history.

Archaeological evidence (Powell and Boston 2004) reveal ephemeral settlement on the Lehi terrace that was not a place of year-round residence during the early Classic Period. Conversely, settlement was nearly continuous along the Mesa terrace edge (Figure 45). Given this settlement patterning, it is probable that the members of the Crismon System no longer lived on the Lehi terrace by the end of the early Classic Period.

Available chronological data from the Crismon System is not refined enough to determine any structural differences between the irrigation infrastructure of the early and late Classic Period, but settlement data show change (compare displayed settlements on Figure 46 with Figure 44). System members were aggregated into one of a handful of hamlets and villages, mostly toward the system terminus along the edge of the Mesa terrace, especially around Mesa Grande (Figure 46). As mentioned above, Crismon Ruin was reestablished during the late Classic, despite the rest of the Lehi terrace being depopulated. Henderson (2011b; citing Henderson and Clark 2004) suggested that former system members reoccupied Crismon Ruin to reestablish water rights within the system. Although near the Crismon System intake, and not usually the location where non-current members of an irrigation system are allowed to establish water claims (Ostrom 1990), Henderson (2011b:408) reasoned that a breakdown in the system governance might have allowed the Crismon Ruin occupants to enter the system.

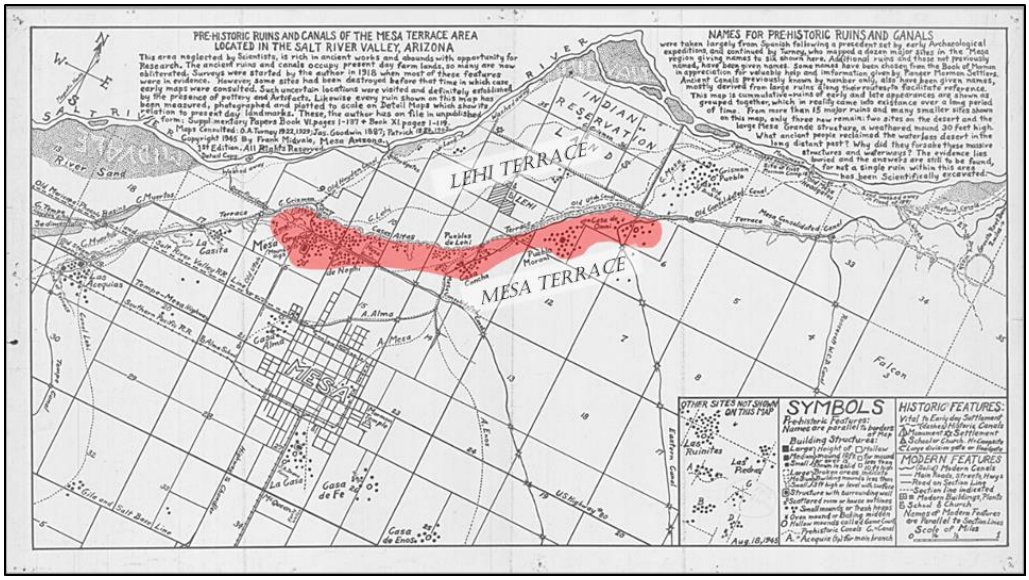


Figure 45. Location of habitation sites along the northern edge of the Mesa terrace (red shading), as identified by Midvale (1945). Modified from Midvale (1945).

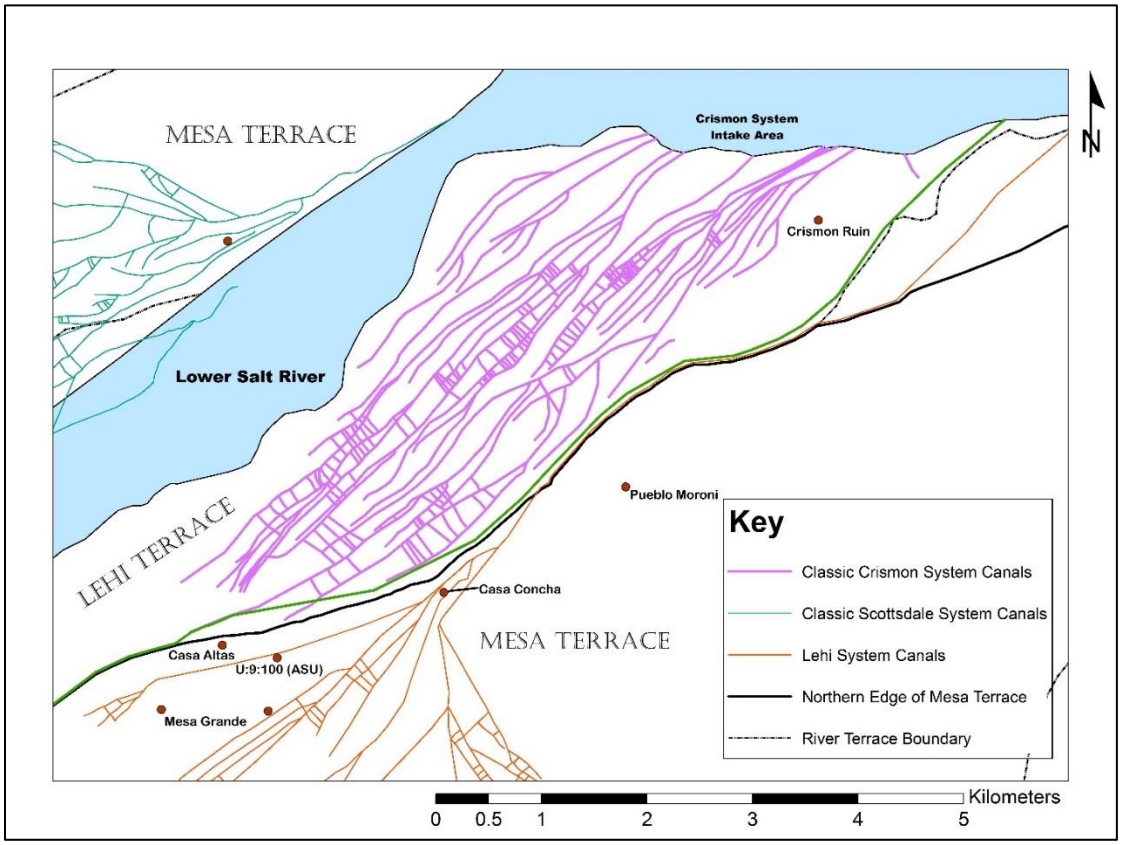


Figure 46. Map of habitation sites (dark red dots with labels) and canals (purple lines) in the Crismon System during the late Classic Period. Compare the sites displayed in this figure to those in Figure 44 for the difference between the two maps. River terrace boundaries from Pearthree and Huckleberry (1994).

Evidence discussed below suggests an alternative explanation for Crismon Ruin's reestablishment. The late Classic occupation of Crismon Ruin may have been associated with Los Muertos System development, rather than the Crismon System (see below).

Sedimento System

The Sedimento System was located on the south side of the lower Salt River on the Lehi terrace, southwest of the Crismon System (see Figure 40). The boundaries of the system extend from the terminus of the Crismon System on the east toward the area just east of La Plaza and Los Hornos (see Figure 47). The system's location, much like the Crismon System, shaped its growth. Toward the end of the Crismon System, the area between the lower Salt and the Mesa terrace began to narrow and greatly restrict the amount of land available for agriculture or settlement (Figure 48). This geographic constriction defined the development of the Sedimento System, because the system's main canal was forced to travel through the confined area. The restriction constrained lateral expansion to 0.5 – 2 km along the first 5 km of the main canal. The actual amount of land that could be irrigated was likely less. The gradient of the Lehi terrace would have made it possible to only irrigate on the north side of the main canal, toward the river. Despite the constraints to the Sedimento System's growth within the geographic constriction, the system's placement on the upper Lehi terrace put it beyond the lateral reach of the river, except during the late Colonial-early Sedentary extremely large flood.

Excavation data suggest that the Sedimento System began during the Pioneer Period as one large main canal, Canal Sedimento, with a few small canals diverting water from it (see Figure 48; Ackerly and Henderson 1989; Mitchell and Motsinger 1998). The size of Canal Sedimento during the Pioneer is perplexing. Canal and settlement data

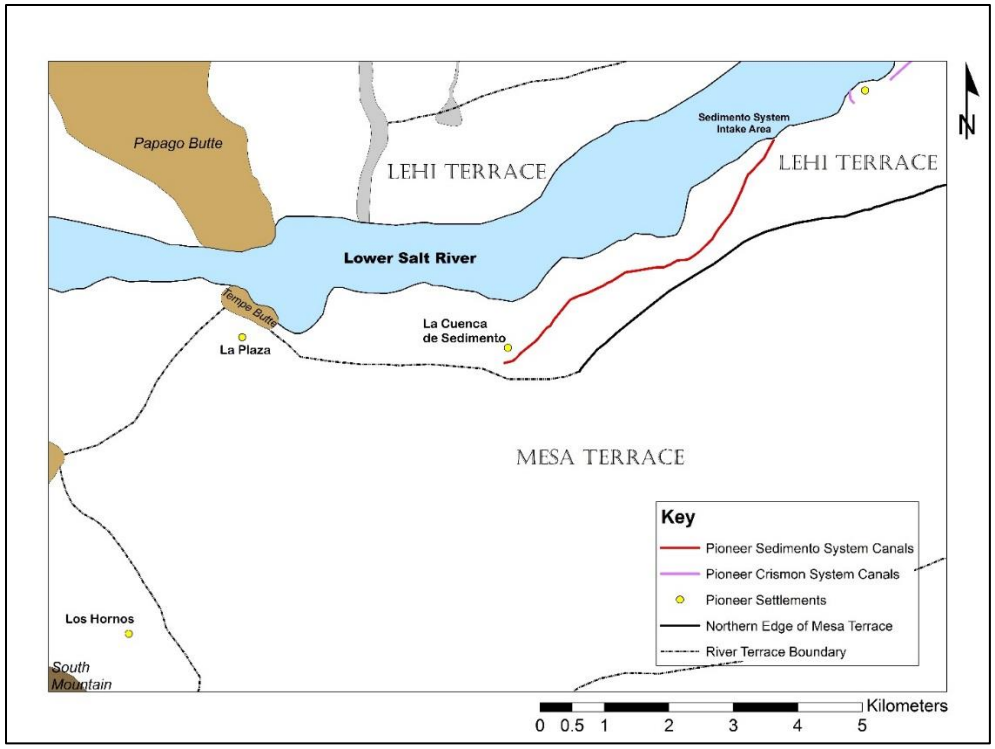


Figure 47. Map of habitation sites (yellow dots with labels) and canals (red line) in the Sedimento System during the Pioneer Period. River terrace boundaries from Pearthree and Huckleberry (1994).

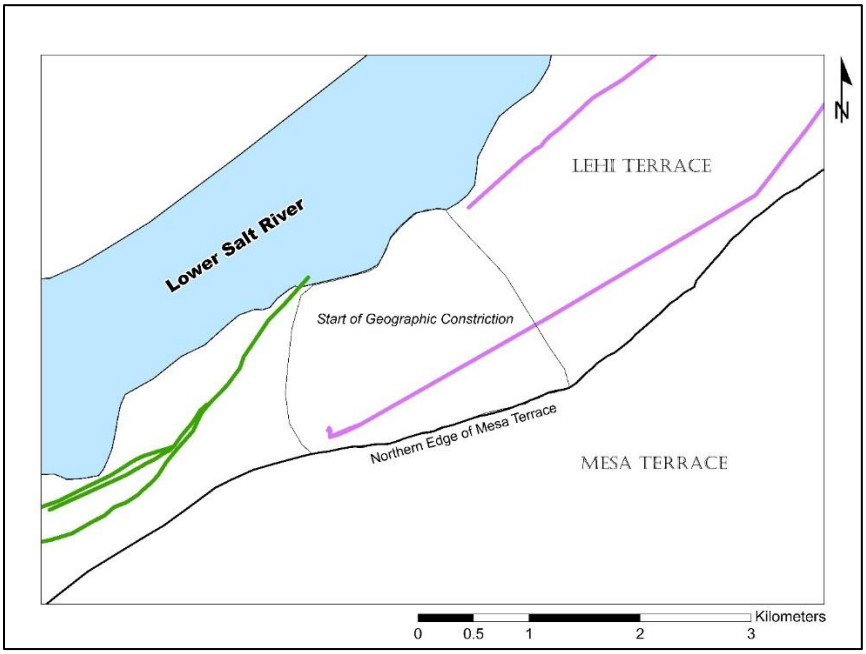


Figure 48. Location of the start of the geographic constriction at the end of the Crismon System (purple lines) and before the beginning of the Sedimento System (red lines) during the Colonial Period. River terrace boundaries from Pearthree and Huckleberry (1994).

assigned to the Pioneer indicate that Canal Sedimento supplied water to a much smaller area than predicted by its size. Within the Riverview Archaeological Project area (see Figure 12), Canal Sedimento was found to be constructed into the buried Late Pleistocene Blue Point terrace and measured approximately 5 m across (see Figure 31). West of the Riverview area, however, only one canal, with a width of just under two meters was found dating to the Pioneer (La Cuenca del Sedimento Feature 61; Ackerly and Martynec 1989; Henderson 1989). Based on the reduction in size between those two canals, it is unlikely that irrigation infrastructure extended far beyond the settlement of La Cuenca del Sedimento.

The relatively short length of Canal Sedimento during the Pioneer Period is interesting because the canal would have terminated before reaching either La Plaza or Los Hornos (see Figure 47). The presence of a few structures dating to the Pioneer Period found at La Plaza (Cox 2012; Punzmann et al. 2011) and the Los Hornos ceramic assemblage (Howard 1990b) signal that irrigation should have reached those settlements, but no canals identified at those sites date to the Pioneer Period. The absence of Pioneer Period canals at those sites suggests that a different means of subsistence may have been practiced (e.g., Turney 1929:45–46).

Excavations at Pioneer Period sites (e.g., Pueblo Patricio in Canal System 2), have shown that agricultural production was an important component of the Hohokam diet by the Pioneer Period, despite agricultural production only occurring on and near the lower Salt floodplain (Cable and Mitchell 1988:423–426). To increase agricultural production, residents of La Plaza and Los Hornos could have practiced floodwater farming. Although

less predictable than canal irrigation, floodwater farming would have allowed the local farmers to take advantage of annual floods (Ackerly 1989a) and monsoon rains away from the river. Maize and other crops planted along the periphery of typical floods and along washes would have allowed the Hohokam to water those crops without the construction and maintenance labor costs associated with canal irrigation (Cable and Mitchell 1988:423–426). The proximity of La Plaza to the lower Salt and the presence of agricultural terraces near Los Hornos (Midvale 1968) denotes that the residents of those two sites may have practiced non-irrigation means of agricultural production during the Pioneer Period.

During the Colonial Period, the irrigation infrastructure of the Sedimento System grew through the attachment of new canals to Canal Sedimento (Figure 49). Excavation data from La Plaza and Los Hornos have not definitively identified Colonial Period canals, but canals documented at La Cuenca del Sedimento were found to be constructed toward those settlements (Ackerly and Martynec 1989; Henderson 1989). The increase in population at Los Hornos suggests that irrigation agriculture was taking place there (Howard 1990b). The dispersed settlement of Los Hornos during the Pioneer Period gave way to several residential areas that likely comprised a hamlet during the Colonial Period. The probable several-fold increase in the population of Los Hornos would have required a more reliable subsistence source to support this growth. The expansion of the Sedimento System irrigation infrastructure would have therefore provided residents of Los Hornos with a supply of water necessary for hamlet-scale agricultural production. Given this growth and the expansion of the system toward Tempe Butte, it is likely that the residents of La Plaza were also practicing irrigation agriculture.

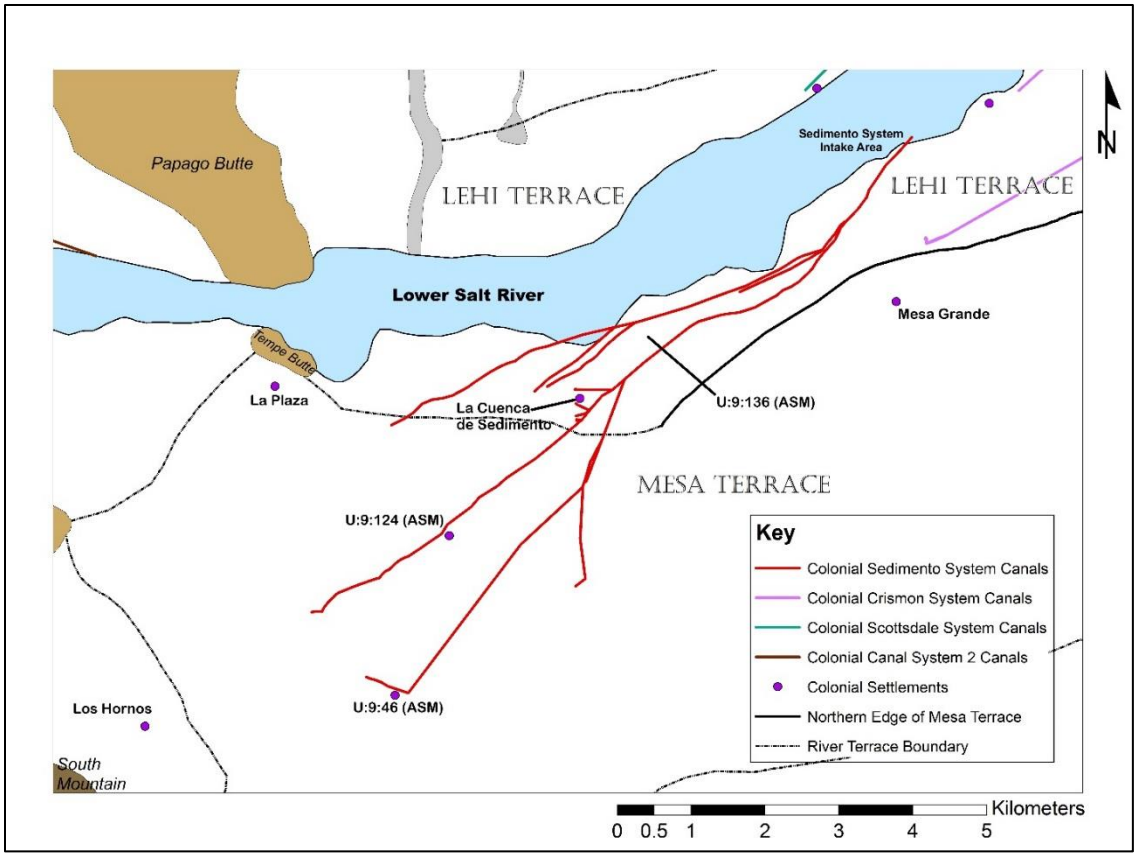


Figure 49. Map of habitation sites (purple dots with labels) and canals (red lines) in the Sedimento System during the Colonial Period. The location of U:9:136 (ASM) is shown without a dot because it is discussed here, but habitation did not occur. River terrace boundaries from Pearthree and Huckleberry (1994).

The developmental trajectory of the Sedimento System, when compared to the other systems established during the Pioneer Period (Crismon System, Coyote System, and Canal System 2), suggests that the Sedimento System should have been a long-lived system. Instead, the system was abandoned sometime between the late Colonial and early Sedentary periods. Evidence from the Riverview Archaeological Project area evinces that the extremely large flood led to the end of the Sedimento System as a functioning irrigation system (Caseldine 2018).

As discussed above, the late Colonial/early Sedentary extremely large flood likely caused sweeping destruction to the Sedimento System. Canal berms would have ruptured

near the intake area, portions of the system near the river would have been buried under a thick flood deposit, and structures and food stores would have been destroyed. The extremely large flood, therefore, essentially erased the Sedimento System from the valley landscape.

Evidence from AZ U:9:136 (ASM) in the Riverview Archaeological Project area (see Figure 49; Mitchell and Motsinger 1998) suggests that members of the Sedimento System attempted to reestablish the system after the extremely large flood. A smaller main canal that truncated a portion of Canal Sediment was constructed (AZ U:9:136 [ASM] Feature 18; Mitchell and Motsinger 1998). The reconstructed main canal's use was short-lived (Figure 50). Instead, it appears that a new system was established further downstream (the Riverview System) during the Sedentary Period, that brought water to areas formerly serviced by the Colonial Period Sedimento System.

Riverview System

The Riverview System was located south of the lower Salt River, situated between the Mesa terrace in the east and South Mountain in the west (see Figure 40). At its full expanse, the Riverview System extended to within 10 km of the Snaketown System along the middle Gila River (Woodson 2010:Fig. 1.2), but there is no evidence that the Riverview System connected with any of the middle Gila systems. Canal segments identified during excavations near the end of the Riverview System measured less than two meters wide by one meter deep (Woodson and Neily 1998). The Riverview canals would likely become too small to carry water to middle Gila systems, as revealed by comparing the sizes of canals near the intake area to the size of canals at the end of the system (Howard 1990a, 1993). In the absence of pumps and other modern irrigation

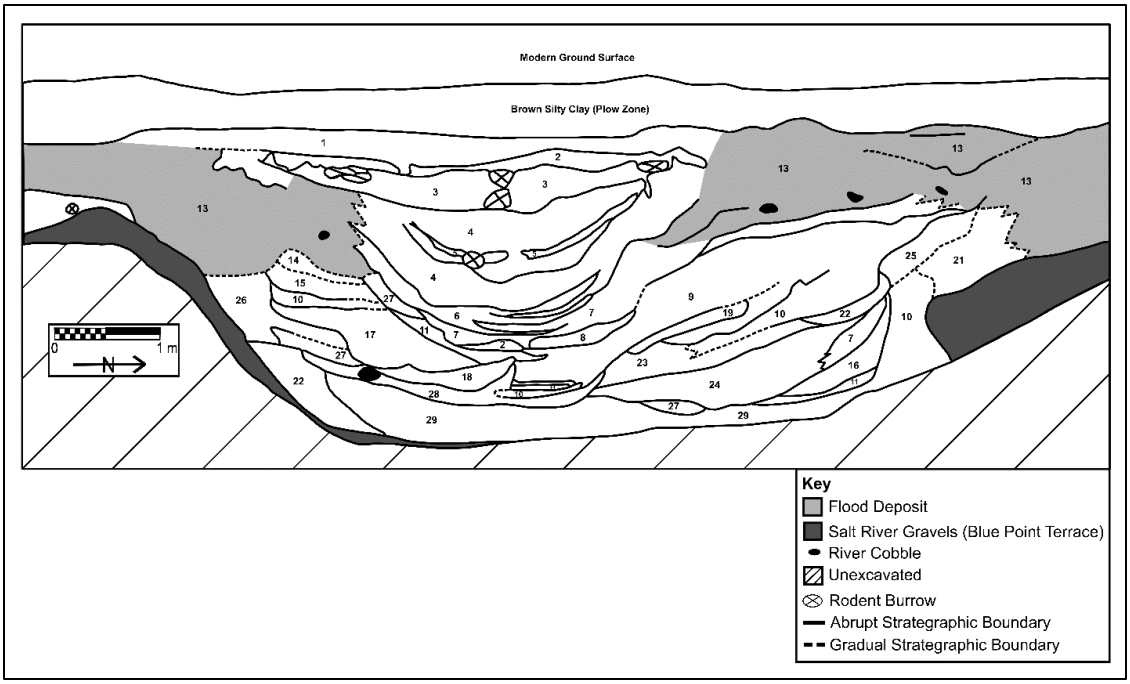


Figure 50. Cross-sectional profile of Canal Sedimento within AZ U:9:136 (ASM) (Feature 18; redrawn from Huckleberry 1998:Fig. 3.7). This feature links with Feature 10 within the Riverview Archaeological Project area denoting the path of Canal Sedimento.

techniques (e.g., flumes) to maintain head pressure, the area of a canal must be decreased in a systematic manner relative to the distance from the headgates. Without a reduction in the cross-sectional area of a canal, velocities would decrease to the point that water no longer flowed. The canal at the end of the Riverview System was therefore too small to continue decreasing in size to facilitate the flow of water to middle Gila systems.

The Riverview Archaeological Project (RAP) provided evidence that the Riverview System was established sometime during the Sedentary Period. Optically stimulated luminescence samples and ceramics recovered from canals constructed into the late Colonial/early Sedentary extremely large flood deposit located north of Canal Sedimento suggested that the Riverview System main canals were not constructed any earlier than the Sedentary Period (Jerry Howard, personal communication 2014). Originating just north of the RAP area, the Riverview System brought water to areas that

were previously serviced by the Sedimento System during the Colonial Period. The trajectory of the newly constructed Riverview canals would have intersected Sedimento canals to reach the settlements of La Plaza and Los Hornos, so it is unlikely that the Sedimento System irrigation infrastructure was in use when the Riverview System began operation. The timing of Riverview System establishment and where the system was located strongly suggests that after failing to reestablish the Sedimento System, members of that system constructed the Riverview System (cf. Woodson 2015:197).

The location of the Riverview System would have been much more amenable to maintaining the longevity of the system, because far less of the Riverview main canals traveled through the geographic constriction than did the Sedimento System. Given the lateral extent of the late Colonial/early Sedentary extremely large flood, only main canals within the constriction would have been in danger of flooding, whereas the rest of the irrigation infrastructure and settlements would have been left untouched.

The establishment of the Riverview System corresponded with the wide-spread use of the standard irrigation units (Figure 51). As seen within the Crismon System during the Sedentary Period, several interconnected zones of canals were constructed within the Riverview System. The northern zone of canals brought water out to La Plaza and settlements and agricultural areas east of Double Butte. The central zone directed water toward Los Hornos and smaller sites like AZ U:9:46 (ASM) and AZ U:9:124 (ASM). The southern zone carried water south toward Los Guanacos.

Although newly established, the scale of the probable agricultural production supported the existence of several ballcourt villages: Mesa Grande, Los Hornos, and Los Guanacos (Wilcox and Sternberg 1983:201–202). Ballcourt villages would have

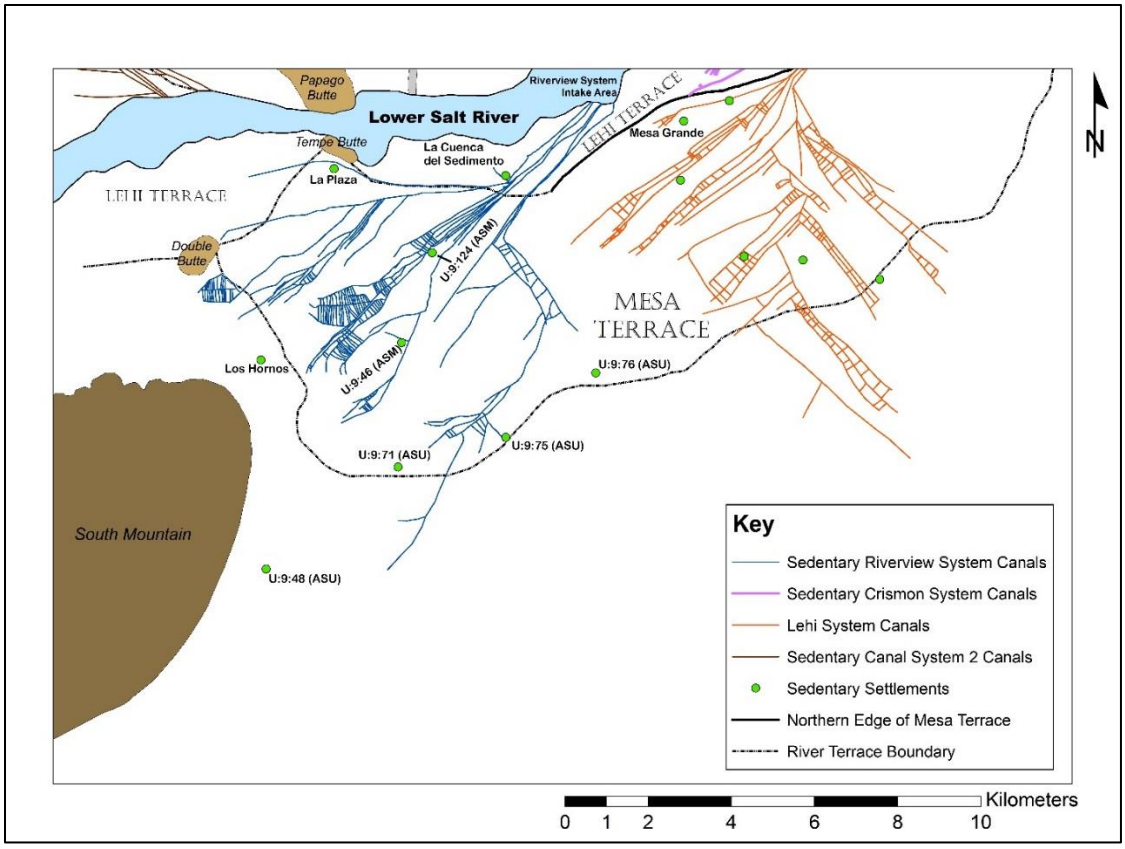


Figure 51. Map of habitation sites (green dots with labels) and canals (blue lines) in the Riverview System during the Sedentary Period. River terrace boundaries from Pearthree and Huckleberry (1994).

necessitated the production of agricultural crops to meet subsistence needs and demands of a marketplace system (Abbott et al. 2007; Feinman and Garraty 2010; Morehart 2010; Wolf 1966). Agricultural demands were met during the Sedentary Period given the density of agricultural land as compared to the number of large settlements (e.g., hamlets and villages), and the presence of three ballcourt villages.

The early Classic Period within the Riverview System was marked by the intensification of agricultural land irrigated during the Sedentary Period and the expansion of the system toward the south (Figure 52). The southern expansion was facilitated by the repeated construction of the standardized irrigation units. Instead of spreading across the south, irrigation was only constructed between the settlement of Los

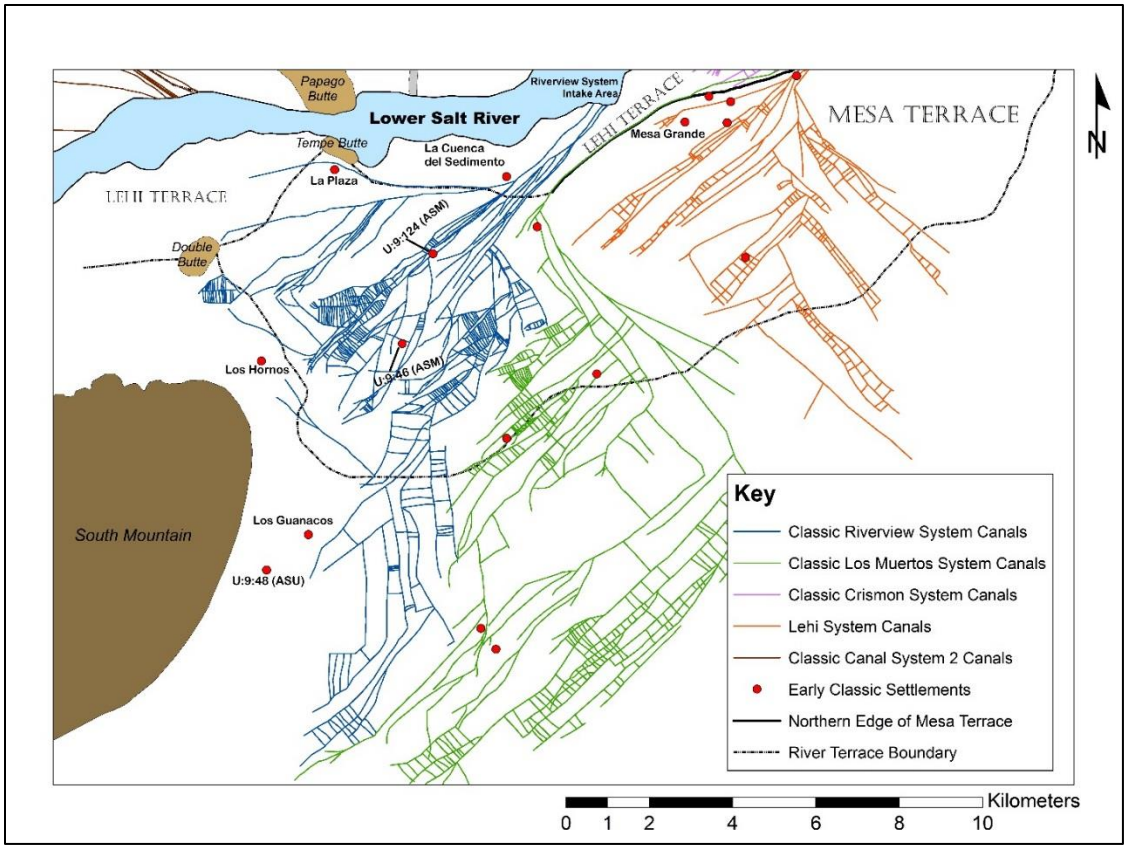


Figure 52. Map of habitation sites (red dots with labels) and canals (blue lines) in the Riverview System during the early Classic Period. River terrace boundaries from Pearthree and Huckleberry (1994).

Muertos and South Mountain. The gradients in this area are minimal, but the east side of the area is slightly higher than the west side. The slight elevation of the Lehi terrace sitting upon the Blue Point terrace caused the trajectory of the Riverview canals to reach the area beyond the geographic constriction at a point that canals could not be constructed to the eastern portion of the expanse (see Figure 24). Any Riverview canals constructed in this area would have caused water to flow slightly up gradient and stop well before the areas where the water was needed.

Within the older portion of the Riverview System, Mesa Grande (Howard 2006) and Los Hornos (Howard 1990b) likely expanded in size, and smaller settlements (e.g., AZ U:9:46 [ASM]; Herskovitz and Hartmann 1981) were probably inhabited on a semi-

annual basis for agricultural tasks. Settlement within the southern expansion occurred along the edges of the irrigation infrastructure, similar to the settlement patterning observed with the Crismon System during the Classic Period. The relationship between agricultural land and settlement areas in the southern expansion appears to have led to a different settlement patterning than elsewhere within the lower Salt River Valley.

Within other systems and the older portion of the Riverview System, the growth of irrigation infrastructure was likely a response to the growth of settlements and agricultural demand. In general, the more settlements that a system had the larger the system became over time. Conversely, the growth of the southern expansion irrigation infrastructure appears to have cooccurred with the growth of Los Guanacos and the founding and growth of Los Muertos. Instead of growing slowly in response to demographic and agricultural demand dynamics, the southern expansion, and later the Los Muertos System, allowed Los Muertos and Los Guanacos to expand into large villages in a relatively short amount of time. The expansion perhaps took a generation or two. The founding of Los Muertos away from other established Hohokam settlements and in a high agricultural potential area would have been fundamental to the size of Los Muertos during the late Classic Period.

The movement of habitation to the boundaries of the irrigation infrastructure defined the Riverview System during the late Classic Period (Figure 53). The presence of Salado Polychromes at AZ U:9:124 (ASM) denotes activity and possible ephemeral short-term occupation between the infrastructure, but the location of the habitation areas suggest that the Hohokam were not living among the standardized irrigation units. Instead, space was divided between agricultural and settlement areas. Segregating

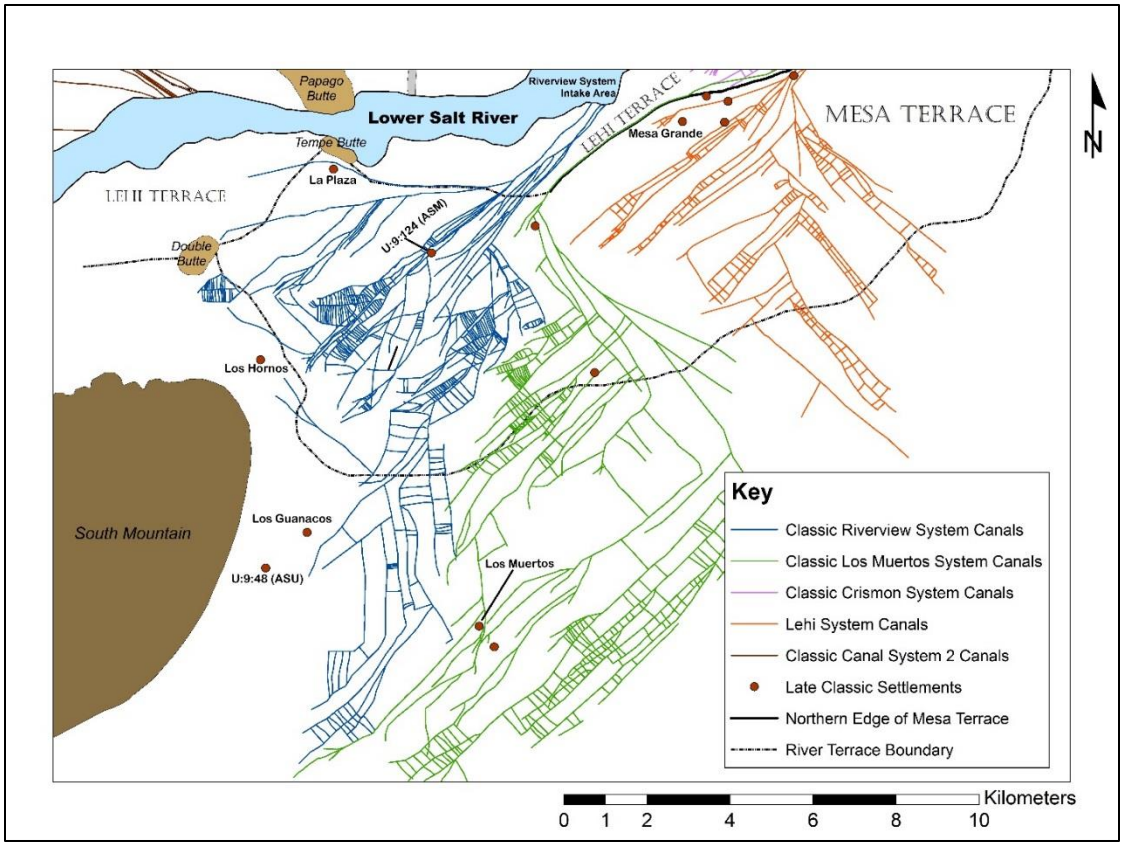


Figure 53. Map of habitation sites (dark red dots with labels) and canals (blue lines) in the Riverview System during the late Classic Period. Compare the sites displayed in this figure to those in Figure 52 for the difference between the two maps. River terrace boundaries from Pearthree and Huckleberry (1994).

agricultural production from the habitation areas likely afforded Hohokam farmers a much more efficient means of irrigation, as noted by the Crismon System.

Most members of the Riverview System were living at one of five settlements - the platform mound sites of Los Hornos, Los Guanacos, Los Muertos, and Mesa Grande, and the possible platform mound site of La Plaza. The shift in population toward villages within the Riverview System conforms with the shift in Canal System 2 (Henderson and Clark 2004) and the Crismon System. Available data from the Riverview System do not provide an insight into the aggregation shift, but it may have derived from the larger scale changes that led to the ubiquitous adoption of adobe compound architecture surrounded

by massive walls. The breakdown in social networks between the irrigation during the early Classic (Abbott 2003; Abbott et al. 2006) may have led to the proliferation of walled architecture and the movement to locations where they had strong kin relations. This social isolation in the Riverview System possibly eroded the social institutions structuring the maintenance and operation of the system and led to a breakup by the end of the Classic Period.

Los Muertos System

The Los Muertos System was located south of the lower Salt River, west of the Mesa terrace and east of the Riverview System (see Figure 40). The structure of the Los Muertos System differed from the other systems along the lower Salt, because of the distance between its intake area and where water was initially delivered. Beginning just east of the Crismon System and Crismon Ruin, the Los Muertos main canal was constructed toward the edge of the Mesa terrace (Figure 54). Upon reaching the terrace, the canal's course followed the edges of the terrace until reaching the area near Las Acequias. The constraints placed upon the Los Muertos System main canal by the terrace and the Crismon and Riverview systems would have made the area near Las Acequias the first place that the system could laterally expand. During the entire operation of the Los Muertos System, water had to be transported more than 10 kilometers from the intake before reaching the first agricultural fields and residential areas.

The developmental history of the Los Muertos System is difficult to reconstruct because the probable locations of the system's infrastructure have primarily fallen outside excavation projects south of the lower Salt. The system likely was not constructed until

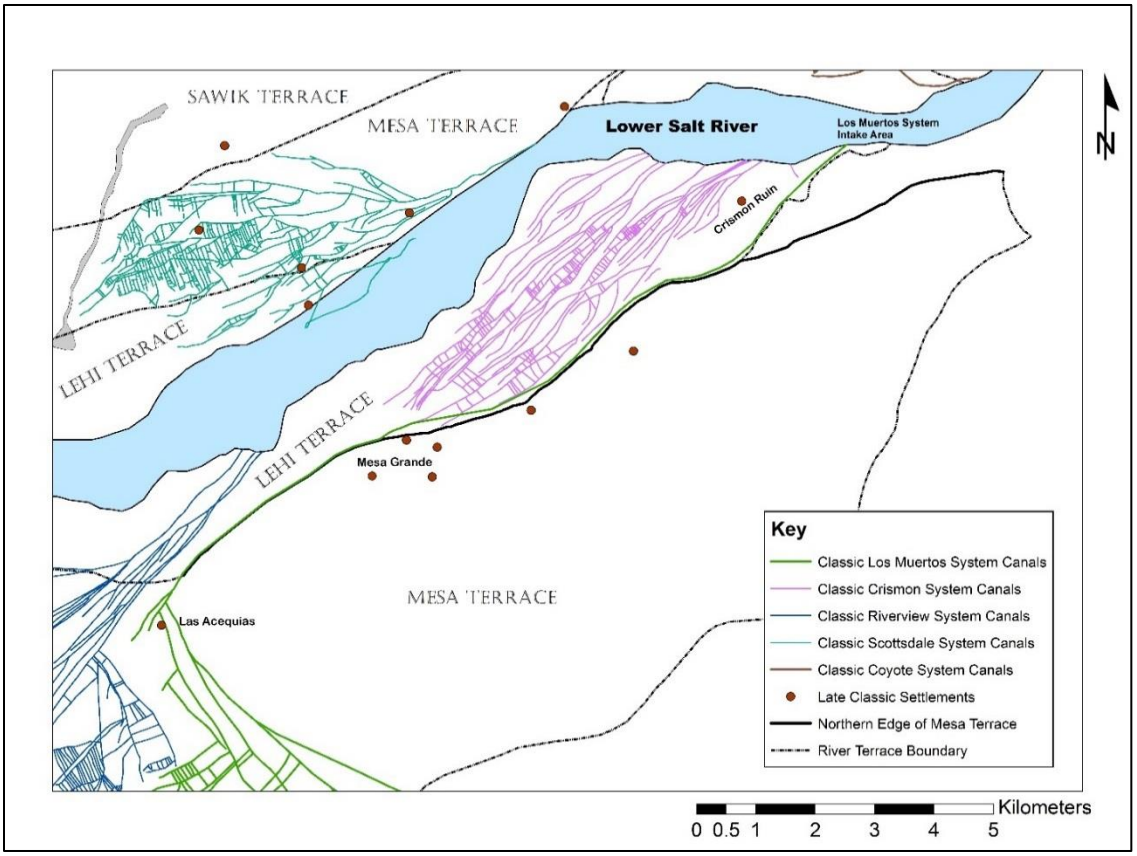


Figure 54. Map depicting the location and trajectory of the Los Muertos System intake area (black line) and main canal (red line) in relation to other neighboring systems during the Classic Period. River terrace boundaries from Pearthree and Huckleberry (1994).

sometime during the Classic Period (Allen et al. 1992; Howard 1984; Mitchell and Crary 1996; Potter 1994), although initial construction during the later Sedentary Period cannot be discounted (Figure 55).

Settlement data hint that the Los Muertos System depicted within Figure 55 is more complex than was in operation during the early Classic Period. Information gained during excavations at Las Acequias (Hackbarth 1997) and an analysis of burial data from Los Muertos (Brunson 1989) indicates that members of the system were widely dispersed across the system in a few low-density settlements. The ephemeral nature of habitation at smaller sites like AZ U:9:75 (ASU) and AZ U:9:76 (ASU) (Nicholas and Neitzel 1984) signify they may have been used during the construction of the system and for some

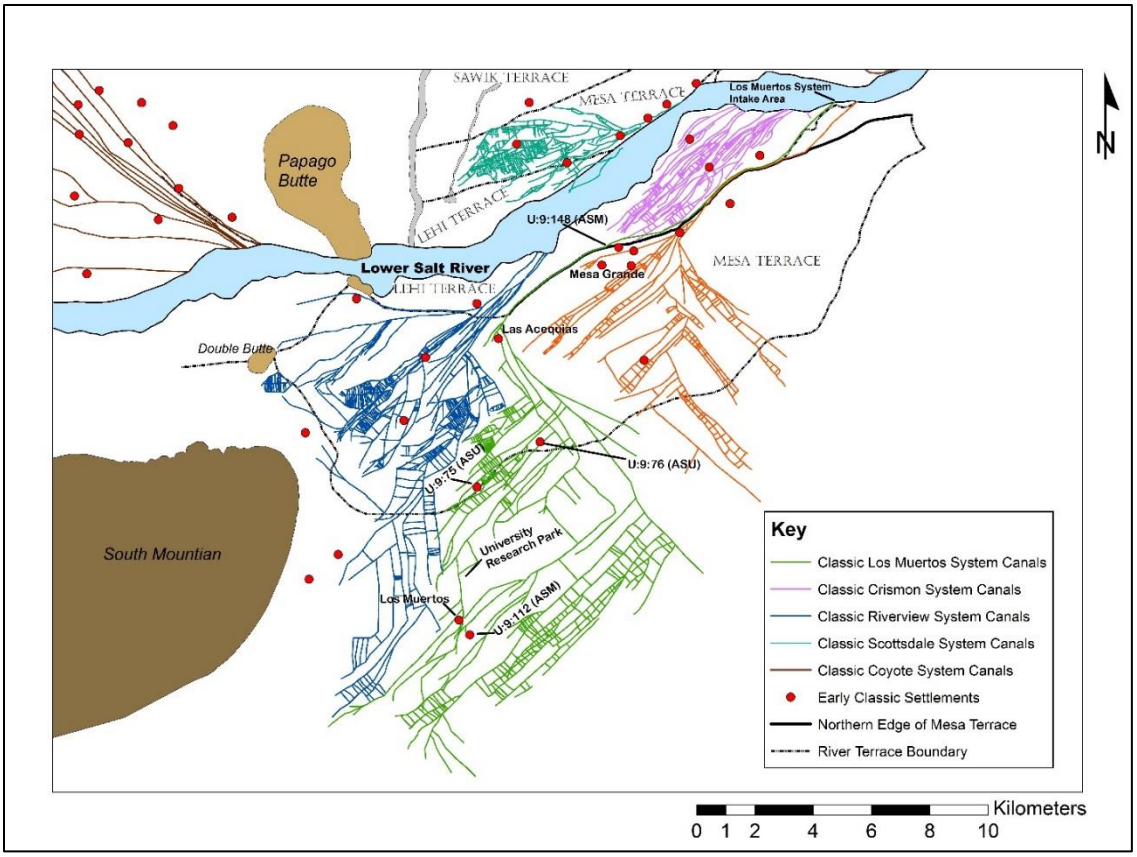


Figure 55. Map of habitation sites (red dots) and canals (green lines) in the Los Muertos System during the early Classic Period. Sites that are indicated with labels, but are not marked by a red dot, denote locations where only canal data were recorded. Evidence of habitation was not documented. River terrace boundaries from Pearthree and Huckleberry (1994).

agricultural activities, rather than being places of permanent habitation. Given these lines of evidence, it is likely that Las Acequas and Los Muertos were the main settlements within the boundaries of the Los Muertos System.

Settlement and demographic data dating to the late Classic Period provide a more detailed picture of the Los Muertos System (Figure 56). A valuable line of chronological evidence comes from Brunson's (1989) study of burials excavated from the settlement of Los Muertos during the Hemenway Expedition in the late 1880s. The study revealed that of the 523 burials examined, all inhumations and 75% of the cremations dated to the late

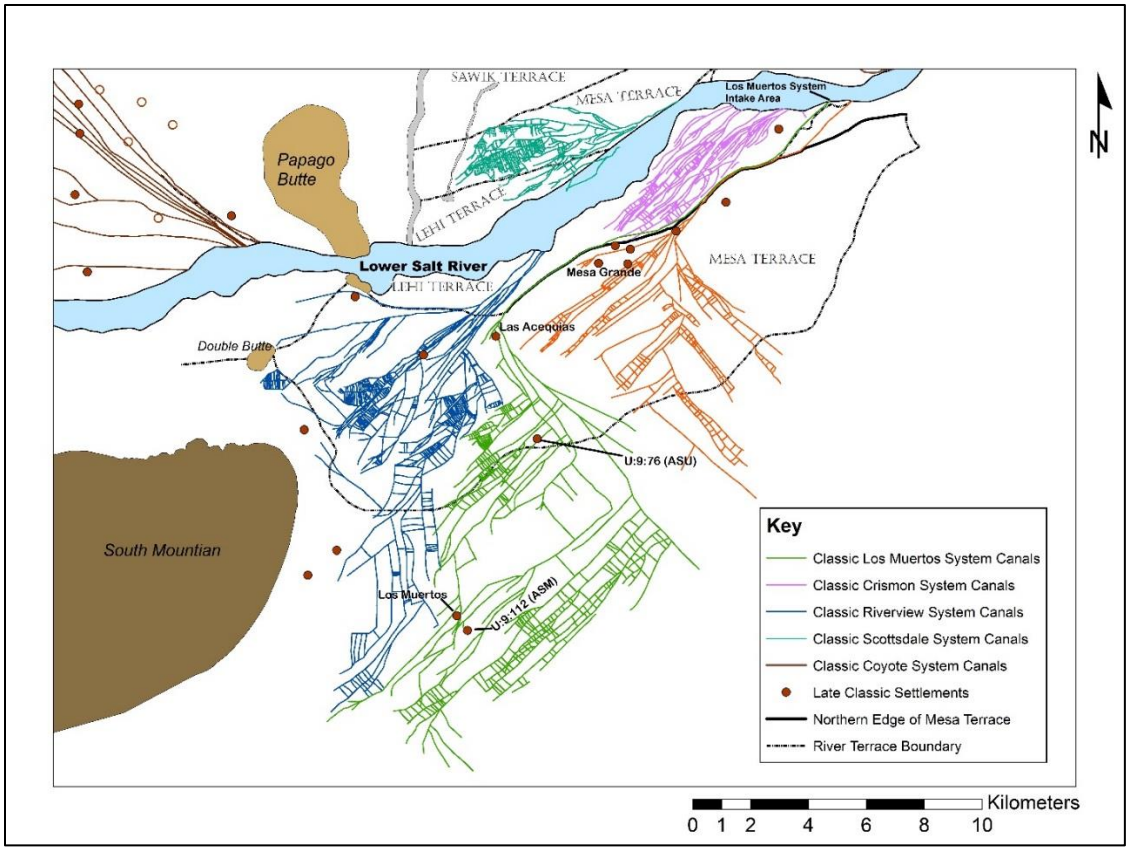


Figure 56. Map of habitation sites (dark red dots) and canals (red lines) in the Los Muertos System during the late Classic Period. Compare the sites displayed in this figure to those in Figure 55 for the difference between the two maps. River terrace boundaries from Pearthree and Huckleberry (1994).

Classic Period (Brunson 1989:174). The use of Hohokam burial information to reconstruct a living population can be problematic (e.g., McClelland 2015), but that kind of data can hint at population trends over time. Comparison of burial frequencies for the early Classic and late Classic Period Los Muerto village evinces that the population of the settlement did not begin to increase significantly until the end of the early Classic Period. Concurring with these burial results, excavations from Las Acequias revealed that the site started small during the early Classic and grew to its full extent during the late Classic Period (Hackbarth 1997). As the two main settlement locations in the Los Muertos

System, the development of the system was plausibly linked to the growth of Las Acequias and Los Muertos village.

The most striking aspect of the Los Muertos System during the late Classic Period is the abundance of agricultural land as compared to the number of settlements. The size and location of Las Acequias in relation to where agricultural land started within the system, signals the settlement controlled a relatively small portion of available irrigated land within the system. The wide spacing of settlements during the late Classic Period would have placed much of the other inhabited villages, excepting Los Muertos, beyond the boundaries of the system. Mesa Grande, although several kilometers from fields within the Los Muertos System, was located along the main canal before the beginning of the agricultural area. At this location, Mesa Grande residents may have had relations with members of the system (cf. Howard 2006). In such a situation, Mesa Grande would have had access to agricultural fields watered by the Los Muertos System without the settlement being located near the agricultural fields.

Agrarian societies that practiced traditional irrigation methods are noted as having land-use rules that allowed irrigators to have land ownership in different parts of a system (Abbott 2000:46–48; Clark 2004; Sheridan 1996). Among some of those societies, land tenure rules dictating membership also allowed for descendants of member irrigators to maintain membership within a system despite not physically living within the boundaries of the system (Clark 2004; Henderson and Clark 2004). If members of Mesa Grande settled at Las Acequias and Los Muertos, then existing kinship ties may have allowed some residents of Mesa Grande access to land within the Los Muertos System.

The location of the Los Muertos village in the Los Muertos System strongly suggests that much of the available irrigated land within the southern portion of the system was controlled by the village (cf. Howard 2006). Past sociopolitical studies of the irrigation within the lower Salt River Valley have depicted the settlement of Los Muertos as having some of the largest expanses of agricultural land surrounding it (see Fish and Fish 2007:Fig. 5.8; Nicholas and Neitzel 1984:Fig. 7). Drawing Thiessen polygons around major villages during the late Classic Period revealed that the spacing of settlements, geography, and the location of irrigation infrastructure restricted the agricultural potential of most of those villages (Figure 57). The Los Muertos village differed from the others because it was neighbored by only Los Guanacos, the topography surrounding it was gently sloping, and an immense density of irrigation infrastructure surrounded it. If residents of Los Muertos did control that land, then the level of agricultural production would have been beyond other late Classic settlements. The Los Muertos village would have therefore been able to grow, given sufficient water supply, while other villages remained the same (e.g., Mesa Grande) or declined in population (e.g., Pueblo Grande). The presence of late Salado Polychromes at Los Muertos (Howard et al. 2017) provides convincing evidence that the Los Muertos System continued to operate late into the Classic Period and may have been one of the last functioning systems.

Los Muertos system characteristics may explain the sequence of abandonment, hiatus, and resettlement at Crismon Ruin mentioned above in the Crismon System discussion. Between the intake area and Las Acequias, the Los Muertos System's main canal passed by the band of settlements along the northern edge of the Mesa terrace that

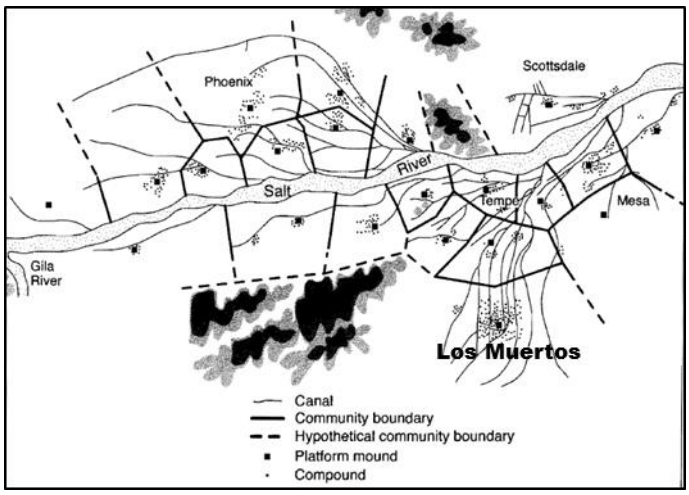


Figure 57. Illustration of Thiessen polygon boundaries drawn between Hohokam platform mound villages over the previous conceptionalization of irrigation systems along the lower Salt River (Fish and Fish 2000:Fig. 5.8).

was not a part of the system. The absence of a Los Muertos System settlement near the intake area made monitoring vital irrigation infrastructure difficult. Damage to irrigation features and the main canal may have gone unnoticed initially, without a settlement at that location. The proximity of Las Acequias to the lower Salt would have allowed members there to pass the word along about floods, but localized damage caused by rainstorms or members of other systems would go unseen as it occurred.

The reoccupation of Crismon Ruin on the Lehi terrace does not conform with settlement patterns within the Crismon System, so members of the Crismon System may not have reestablished it. The settlement density along the edge of the Mesa terrace near the Los Muertos System intake area may have precluded members of that system from establishing a settlement there. The unoccupied area between the Crimson and Los Muertos systems at Crismon Ruin may have therefore provided the best location to establish a Los Muertos System settlement near its intake area. Rather than a continuation of the previous occupation of the Crismon Ruin after a population hiatus (Henderson

2011c), the reoccupation would have been a new settlement to meet needs within the Los Muertos System.

Reevaluated Developmental Histories of Previously Reconstructed Irrigation Systems

This subsection discusses the developmental histories of other major Hohokam irrigation systems along the lower Salt River. Specifically, the Lehi System, Coyote System, Scottsdale System, and Canal System 2. Additionally, two systems that were formerly a part of Canal System 2 are briefly mentioned. Full reconstruction descriptions for these irrigation systems, Pueblo Salado System and La Villa System, are not provided because they are not included in the water sufficiency analysis.

Lehi System

The Lehi System was located south of the lower Salt River on the Mesa terrace, east of the Crismon System (see Figure 40). The Lehi System is unique among Hohokam irrigation systems because river water was "brought up" to the top of the Mesa terrace south of the lower Salt (Howard 2006:126). The Mesa terrace east of the Crimson System is higher than the Lehi terrace, except at a topographic anomaly where the two terraces merge (Figure 58). Once beyond the intake area, the Lehi System's main canal traveled approximately 2 km before intersecting the base of the Mesa terrace. After reaching that point, the main canal proceeded another 2 km, where it reached the topographic anomaly. The anomaly, measuring approximately 100 m across, provided a narrow corridor for the Lehi main canal to reach the top of the Mesa terrace. The topographic anomaly therefore provided a bridge between the terraces, allowing for the Lehi System establishment.

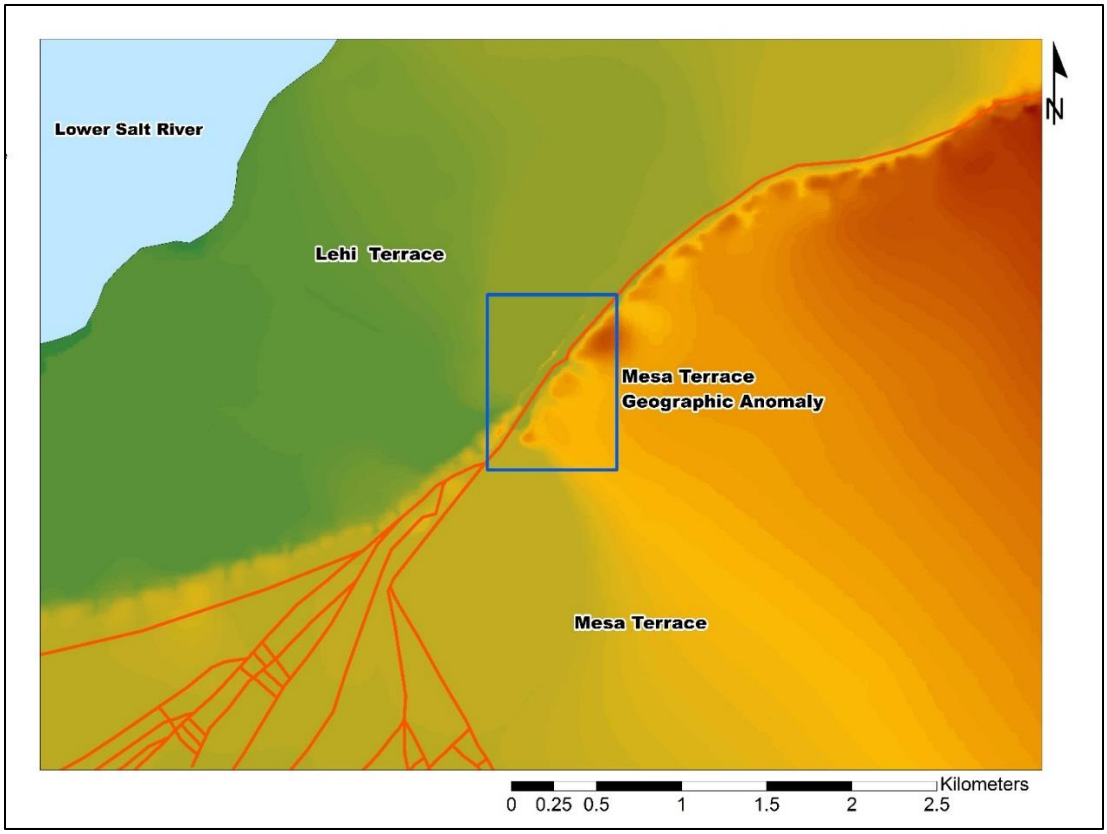


Figure 58. Topographic map depicting the location where the Lehi System main canal travels to reach the top of the Mesa terrace. Elevation is denoted by color from dark green (lowest elevation) to dark orange (highest elevation).

Prior discussions of the Lehi System denoted the establishment of the system during the end of the Sedentary Period (ca. A.D. 1000-1100; Howard 1987, 2006). Data available at the time of those discussions indicated that there were three zones of land use; agricultural production on the Lehi terrace, dense habitation along the edge of the Mesa terrace, and four sites surrounded by abundant agricultural land away from the terrace edge. Howard (2006) proposed that the Lehi System was the last of the major systems established along the lower Salt River. The timing of the construction, Howard argued, may have tipped the balance of water availability and gradually caused increased water deficiencies within systems further downriver. An ending date of the system was not provided, but data provided suggested middle to late Classic Period (Howard 1987).

The reconstruction discussed here reveals a slightly different developmental history for the Lehi System.

Limited archaeological data exist for settlements away from the edge of the Mesa terrace, but available evidence supports the establishment of the Lehi System occurring during the Sedentary Period. The density of irrigation infrastructure when the system was founded cannot be easily differentiated from the structure of the system later in time, but the Lehi System was likely organized into standardized irrigation units (Figure 59), paralleling both the Crismon and Riverview systems. Although canals fanned out across the Mesa terrace, irrigation water likely followed a linear course within the units.

Data from excavations (e.g., Moorehead 1906; Pailes 1963; Placona 1979; Stewart 1967) and mapping surveys conducted by Frank Midvale (1945, 1966) of sites along the edge of the Mesa terrace and scant information from settlements away from the terrace edge evince the system boundaries retracted toward the northwest during the early Classic Period (compare the appearance of settlements on Figure 60 to Figure 59). As mentioned during the discussion of the Crismon System, a dense settlement pattern occurred along the edge of the terrace, but Casa de Mesa appears to have been the only site away from the terrace edge to be occupied during the early Classic Period.

Midvale (1945) noted ballcourts at the four settlements away from the Mesa terrace edge, but he only identified compound architecture at Casa de Mesa. Surface architecture associated with the settlements was destroyed decades prior to Midvale's surveys. Conversations with the landowner of Casa de Mesa convinced Midvale that a small platform mound once stood at Casa de Mesa. Midvale did not provide a date for

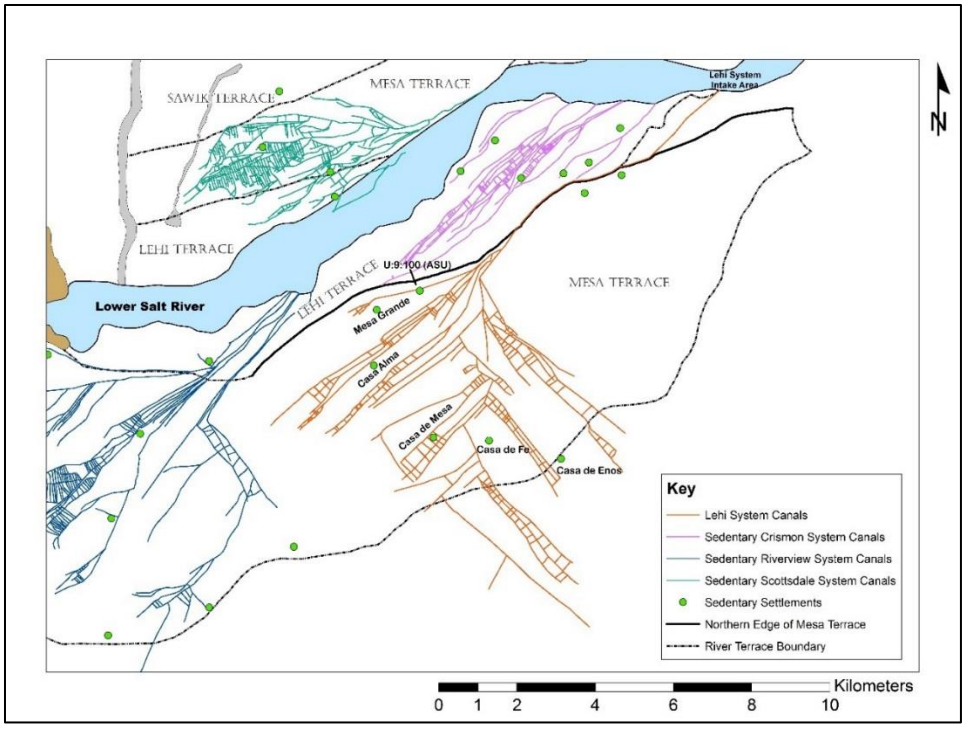


Figure 59. Map of habitation sites (green dots with labels) and canals (orange lines) in the Lehi System during the Sedentary Period. River terrace boundaries from Pearthree and Huckleberry (1994).

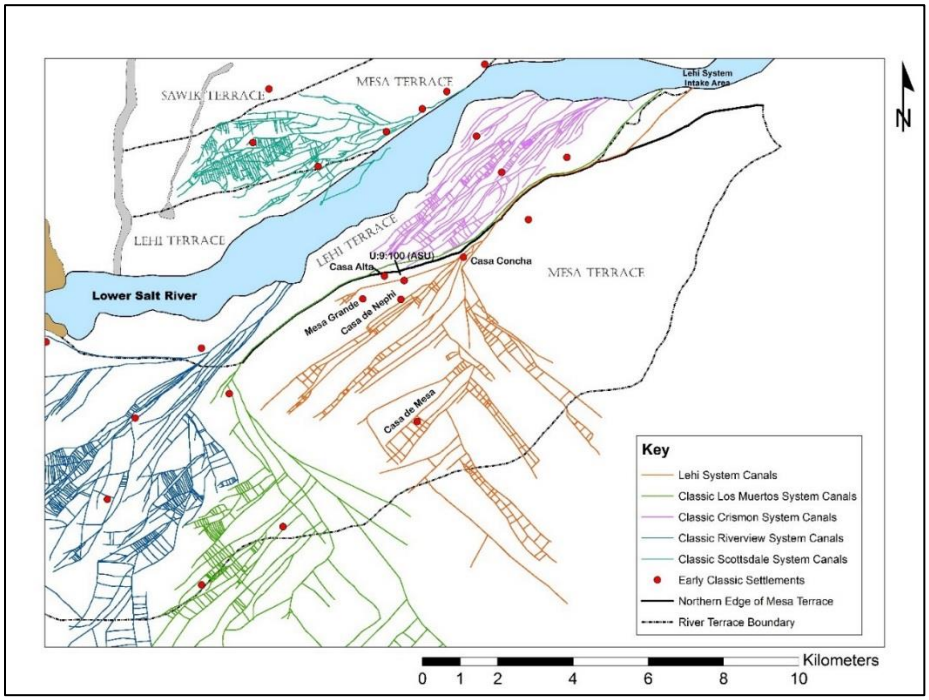


Figure 60. Map of habitation sites (red dots with labels) and canals (orange lines) in the Lehi System during the early Classic Period. Note the depopulation of Casa de Fe and Casa de Enos. River terrace boundaries from Pearthree and Huckleberry (1994).

the platform mound; however, sherds he collected from the area where the mound once stood, now housed at the Arizona Museum of Natural History, hint that the mound's main use occurred during the early Classic Period.

Available data raise the question if the Lehi System was in operation during the late Classic (compare the appearance of settlements shown in Figure 61 to Figure 60). The sherds Midvale collected at Casa de Mesa were comprised of a few Gila Polychromes and many Casa Grande Red-on-buff and redware. If Casa de Mesa was occupied later in the Classic Period, then we would expect more Salado Polychromes and later pottery types (e.g., Tonto Polychrome and Cliff Polychrome). The dating of Casa de Mesa is tentative because the sherds were not systematically collected, but they provide a line of evidence that concurs with the population shifts away from Lehi System settlements.

The proposed depopulation of the Lehi System away from the edge of the Mesa terrace during the late Classic Period may relate to a loss of operation of the main canal. The Lehi System operated for several generations. During that time, the Hohokam were able to cope with maintenance tasks, from annual cleaning to flood damage repair. Why and how were they unable to cope during the late Classic Period?

Lehi System's main canal path along the bottom edge of the Mesa terrace may have made maintaining the canal difficult. In this area, depositional and erosional events were likely common occurrences. As evident by the amount of gully and channel erosion along the edge of the Mesa terrace seen today, precipitation running off from the top of the Mesa terrace probably flowed over the edge of the terrace and on to the Lehi terrace. During lower intensity events (e.g., winter rainfall), Mesa terrace sediments would have

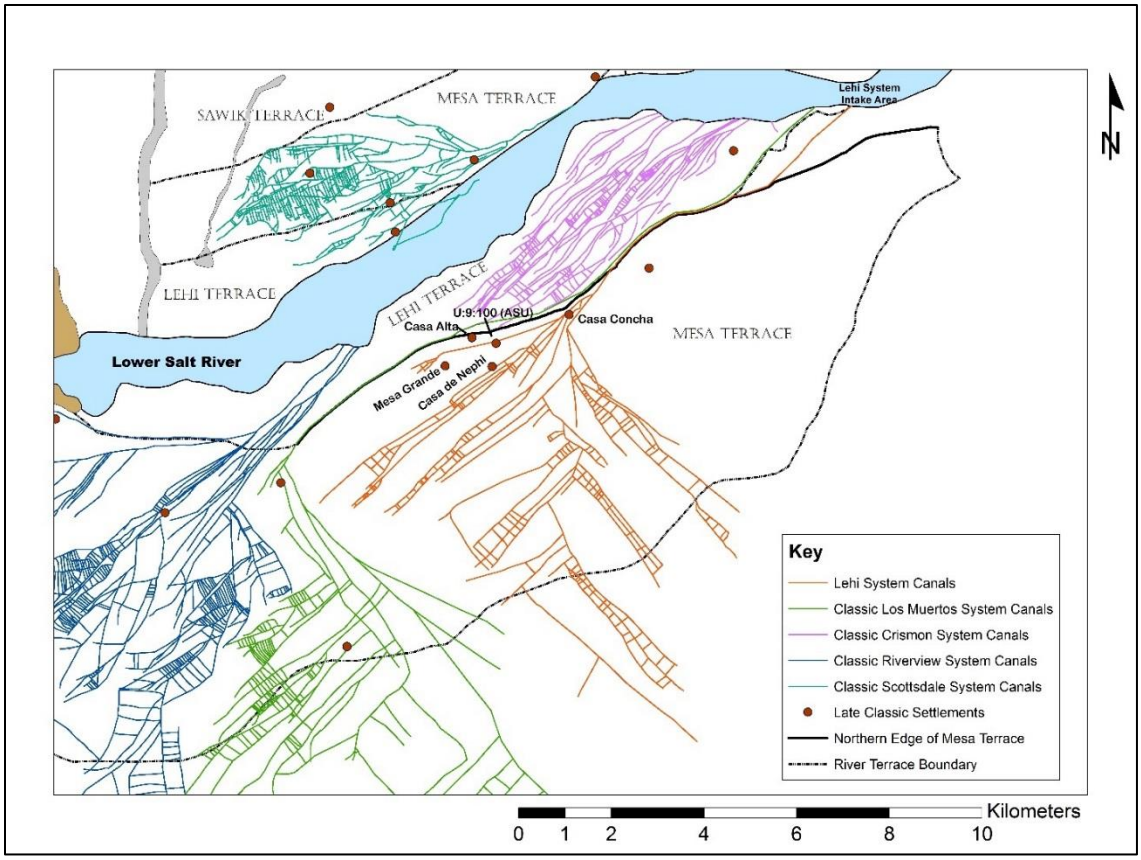


Figure 61. Map of habitation sites (dark red dots with labels) and canals (orange lines) in the Lehi System during the late Classic Period. Note that habitation on the Mesa terrace is located along the terrace edge. River terrace boundaries from Pearthree and Huckleberry (1994).

washed off of the terrace and into the Lehi main canal below. Conversely, during higher intensity events (e.g., powerful monsoon storms) erosional cuts through the canal would have formed, bisecting it. An exceptional erosional event or events could have caused conditions that were not easily mitigated with available labor and irrigation technology.

Canals within other irrigation systems could be reconstructed to follow a slightly different trajectory to get around eroded sections; however, the path to the geographic anomaly would have restricted the lateral movement of the Lehi System's main canal. Without concrete, canals could not be constructed through geologically unstable areas of

gullies and channel erosion. The precarious erosional characteristics of the geographic anomaly may have prompted a shift in settlement toward the Mesa terrace edge.

The proposed abandonment of the Lehi System may have corresponded with the establishment and growth of the Los Muertos System. Reconstructed trajectories of the Lehi and Los Muertos systems suggest that they likely had intake areas near each other, and both followed along the bottom of the Mesa terrace (Figure 62). The Los Muertos System's main canal would have likely truncated the Lehi System's main canal, to remain outside of the lateral boundaries of the Crismon System. The operation of the Los Muertos System would have necessitated the Lehi System to fall out of use to allow for the Los Muertos System's main canal to intersect the Lehi System's main canal.

The difficulties associated with transporting water onto the Mesa terrace may have prompted members of the Lehi System to search for more reliable locations for irrigation, as the members of the Sedimento System had done after the late Colonial/early Sedentary extremely large flood. Despite the distance between the intake and agricultural fields, the Los Muertos System area may have been attractive because of the abundance of irrigable land. The initial decrease in population during the early Classic Period and complete abandonment away from the edge of the Mesa terrace during the late Classic Period within the Lehi System correspond well with increases in population in the Los Muertos System. Given the intake area location near the Lehi System intake and the plausible truncating of the Lehi System’s main canal by the Los Muertos System’s main canal, it is probable that the Los Muertos System replaced the Lehi System. If the members of the Lehi System were the catalyst for the establishment of the Los Muertos System, then

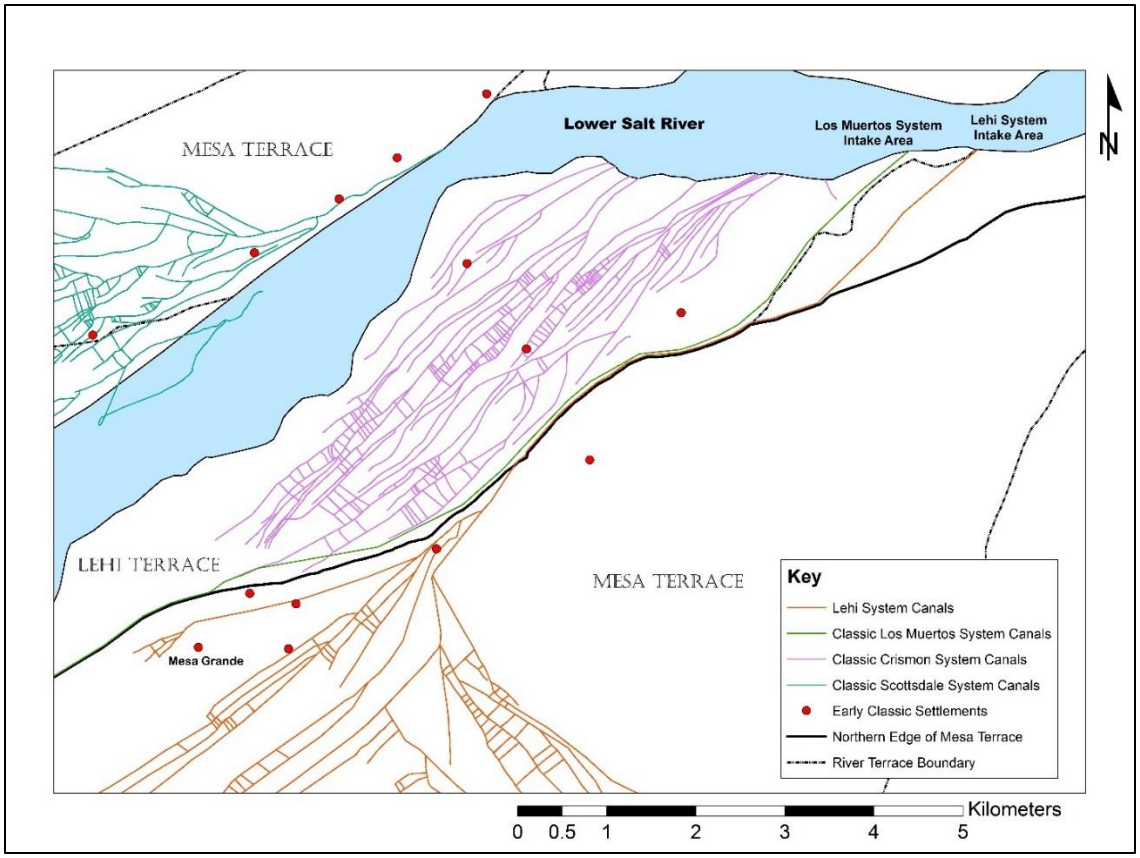


Figure 62. Map showing the relationship between the intake areas of the Lehi and Los Muertos systems and the reconstructed trajectories of the main canals of those systems. Orange lines denote the Lehi System and green lines denote the Los Muertos System. River terrace boundaries from Pearthree and Huckleberry (1994).

those irrigators would have continued to exercise their preexisting water rights upriver from most of the other lower Salt systems.

Coyote System

The Coyote System is a little-known irrigation system located on the north side of the lower Salt River on the Lehi terrace and the lower extent of the bajada extending south from the McDowell Mountains (Figure 40). The system is only depicted on two maps drawn by Frank Midvale (1964, 1966), and indirectly documented during excavations by Arizona State University's Department of Anthropology (Center for Archaeology and Society Repository Site Files) and a survey for Salt River Project

(Zyniecki et al. 1990). The location of the system positioned it as the first Hohokam irrigation system to direct water away from the lower Salt. The Coyote System intake area was the first place that irrigation canals could divert water because high river terraces and deep canyons constrained the Salt River above that location. Conversely, the first location that the Hohokam were able to divert water south of the river was at the Lehi System intake area, approximately 2 km down river.

Despite an advantageous location for diverting water ahead of the other lower Salt River irrigation systems, the growth of the Coyote System was constrained by the slope of the McDowell Mountains bajada. Some settlements were established on the foot of the bajada, and a canal segment may have been constructed due north from the northern main canal, but irrigation was restricted to lateral growth along the relatively small exposure of the Lehi terrace on the north side of the river. Although the smallest of the major Hohokam irrigation systems discussed here, the Coyote System was likely one of the longest-lived systems along the lower Salt.

Data gathered during surveys (Zyniecki et al. 1990) and limited excavations at Stoney Ridge Ruin (Midvale 1966), also known as the Dragstrip Site (AZ U:5:21 [ASU]), and Coyote Ruin (AZ U:5:11 [ASU]) (Center for Archaeology and Society Repository Site Files) revealed solid evidence for habitation in the area began during the Vakhi Phase. However, the Coyote System irrigation infrastructure was not constructed until the later part of the Pioneer Period (Snaketown Phase). The Pioneer Period Coyote System likely consisted of a small main canal transporting water on the Lehi terrace less than 2 km from the intake area (Figure 63). Settlement did occur around the canal, but the two sites that became the largest during the Colonial Period, Stoney Ridge Ruin and

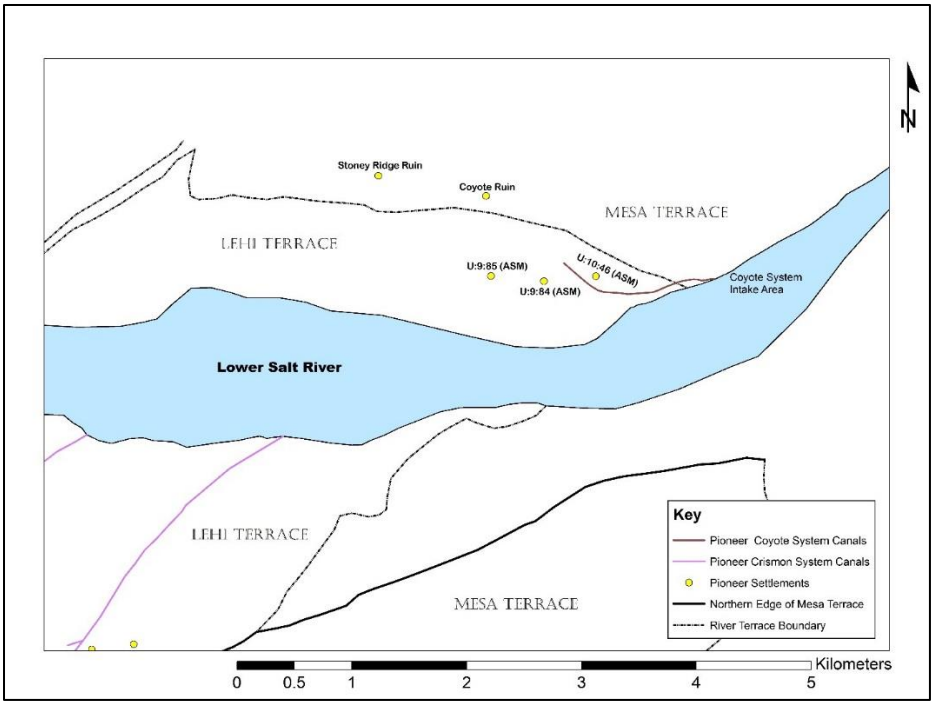


Figure 63. Map of habitation sites (yellow dots with labels) and canals (brown line) in the Coyote System during the Pioneer Period. River terrace boundaries from Pearthree and Huckleberry (1994).

Coyote Ruin, were located over a kilometer from the irrigation infrastructure. Although not located next to the main canal, those settlements were closer to the canal than La Plaza and Los Hornos were to Canal Sediemnto during the Pioneer Period. It was a reasonable distance for the residents of Stoney Ridge Ruin and Coyote Ruin to travel to take part in the Coyote System.

During the Colonial Period, the Coyote System extended toward Stoney Ridge Ruin and Coyote Ruin (Figure 64). The increase in artifact densities dating to the Colonial Period at those settlements would have necessitated the expansion of irrigation land, so the Coyote System's main canal was likely reconstructed to reach those sites. Lower on the Lehi terrace, low-density settlement shifted slightly toward the main canal

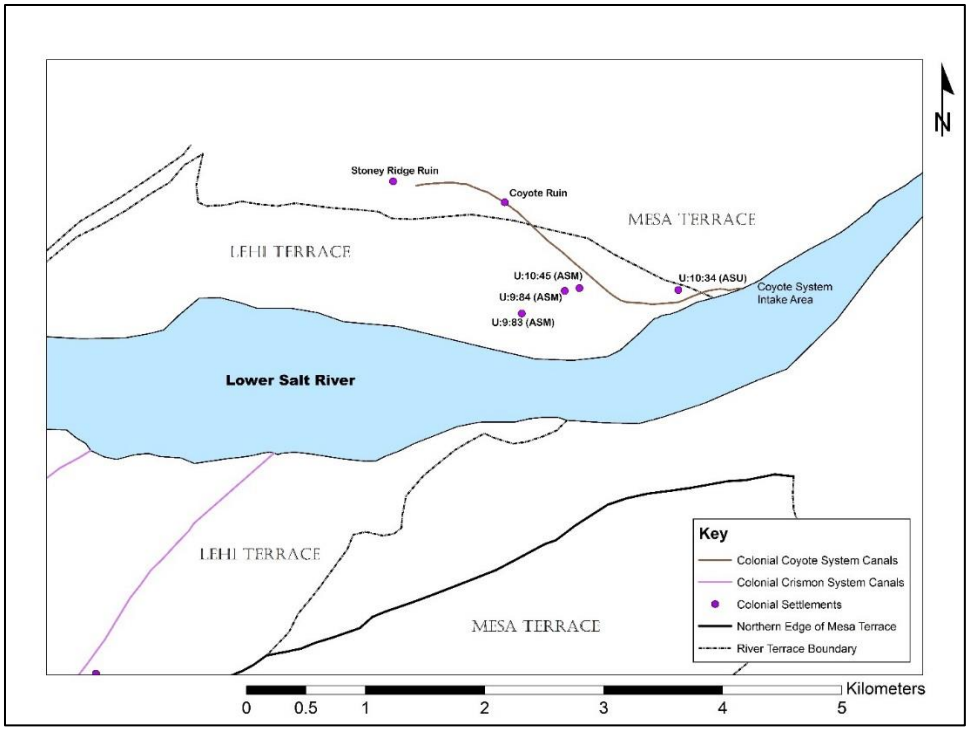


Figure 64. Map of habitation sites (purple dots with labels) and canals (brown line) in the Coyote System during the Colonial Period. River terrace boundaries from Pearthree and Huckleberry (1994).

and the river. Despite the extension of the main canal, available data do not indicate that the system expanded laterally.

The most significant growth of the Coyote System occurred during the Sedentary Period. The structure of the system's irrigation infrastructure documented by Midvale (1964, 1966) and identified on historic aerial photographs was likely constructed during the Sedentary Period, as suggested by settlement patterns (Figure 65). Low-density sites were occupied across the Lehi terrace, unlike the shift in settlement areas away from the terrace seen in the other lower Salt River irrigation systems during the Sedentary Period. Stoney Ridge Ruin and Coyote Ruin remained the largest settlements within the Coyote System, but Stoney Ridge Ruin was occupied longer.

Available data do not allow for a differentiation of the irrigation infrastructure of the Coyote System in operation during the early Classic Period from that in use during the Sedentary Period, but the system may have been reduced to canals associated with the southern main canal (compare the appearance of settlements on Figure 66 to Figure 65). The occupation of the area around Stoney Ridge Ruin and Coyote Ruin suggests that the system in that area was similar in scale to the Sedentary Period infrastructure, but the area around the northern main canal was not occupied, except the small site of AZ U:10:34 (ASU). Given the dispersed settlement across the Coyote System during the Colonial Period, it is plausible that populations serviced by the northern main canal would have aggregated into a larger settlement along the northern main canal if the canal was in operation. The proximity of the northern main canal to the edge of the bajada might have made it challenging to maintain irrigation in that area if parts of the system were damaged by precipitation runoff from the bajada.

The wide-spread settlement of the lower portion of the Lehi terrace appears to have been short-lived, because it was largely depopulated during the early Classic Period. On the upper portion of the terrace, population continued to shift away from Coyote Ruin and Stoney Ridge Ruin likely grew larger. The growth of Stoney Ridge Ruin during the early Classic Period is interesting because it included a group with strong ties to the northern Southwest. The analysis of the pottery assemblage collected during the systematic excavation of Stoney Ridge Ruin by ASU (Center for Archaeology and Society Repository Site Files), revealed that one of the residential areas (Mound M) had an unusually high frequency of non-local pottery type sherds. Those types included Deadmans Black-on-red (n = 1), Flagstaff Black-on-white (n = 1), Walnut Black-on-

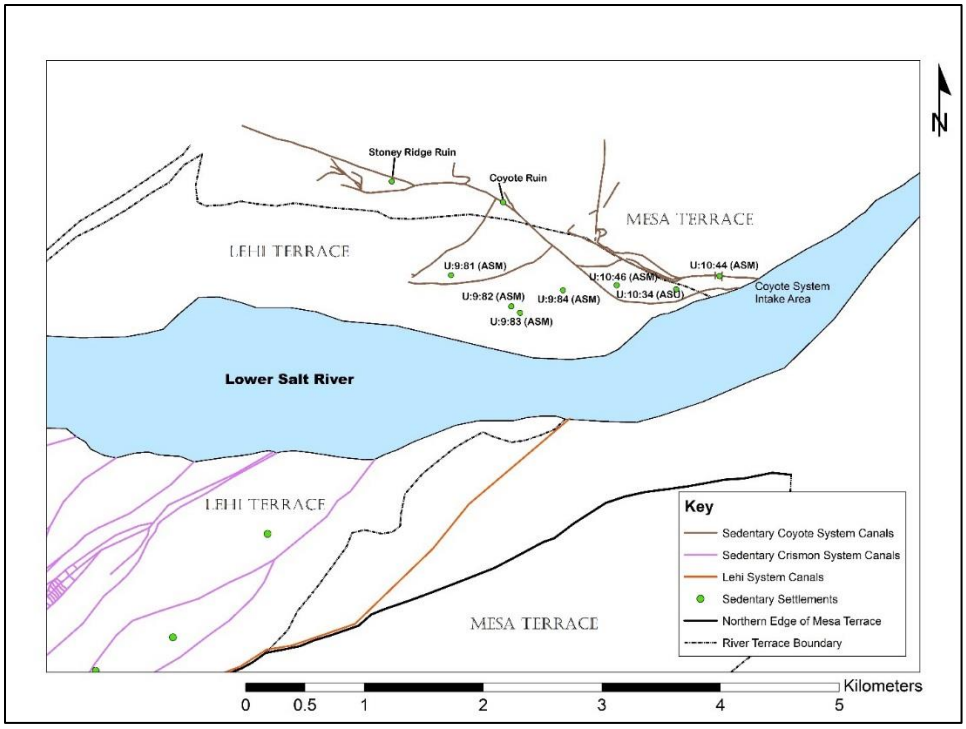


Figure 65. Map of habitation sites (green dots with labels) and canals (brown lines) in the Coyote System during the Sedentary Period. River terrace boundaries from Pearthree and Huckleberry (1994).

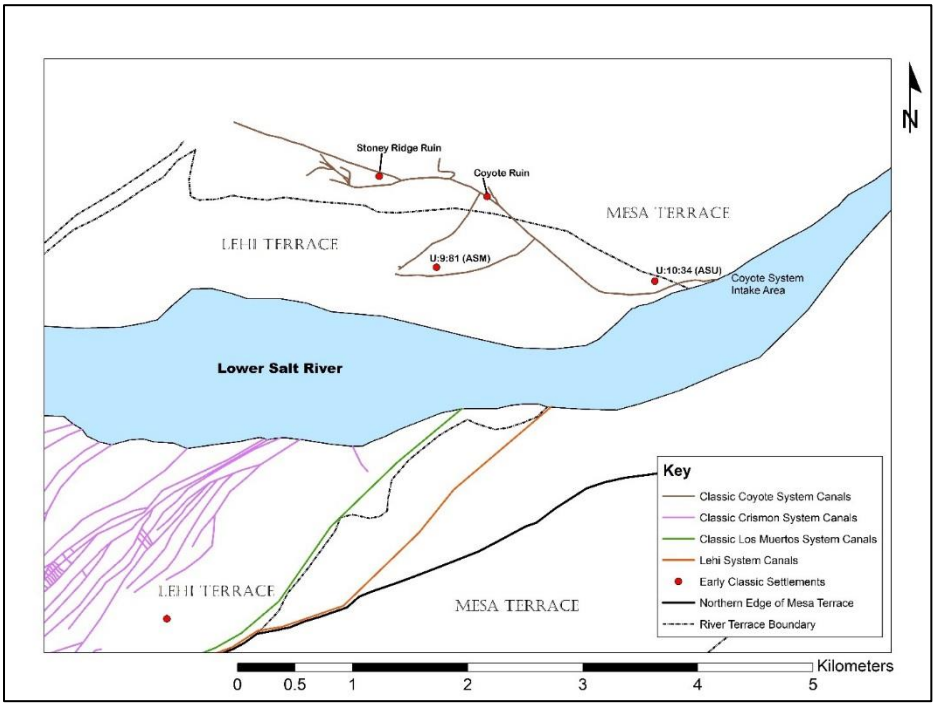


Figure 66. Map of habitation sites (red dots with labels) and canals (brown lines) in the Coyote System during the early Classic Period. River terrace boundaries from Pearthree and Huckleberry (1994).

white (n = 1), indeterminate black-on-white (n = 8), Tusayan Corrugated (n = 17), a brown ware possibly from the Verde Valley (n = 3), and indeterminate greyware (n = 5). In total, intrusive pottery types accounted for 33% of the total assemblage (n = 108) and all of the decorated pottery types from this residential area.

The relatively high concentration of non-local pottery types manufactured during the early Classic Period within a single compound suggests that residents at Stoney Ridge Ruin maintained strong enough ties with groups to the north to allow for the possibility of outsiders to join the Coyote System.

The Coyote System during the late Classic Period was synonymous with Stoney Ridge Ruin (Figure 67). By the beginning of the late Classic Period, the remaining population within the Coyote System had aggregated to Stoney Ridge Ruin. The control and maintenance of the system, therefore, would have been centered at the settlement.

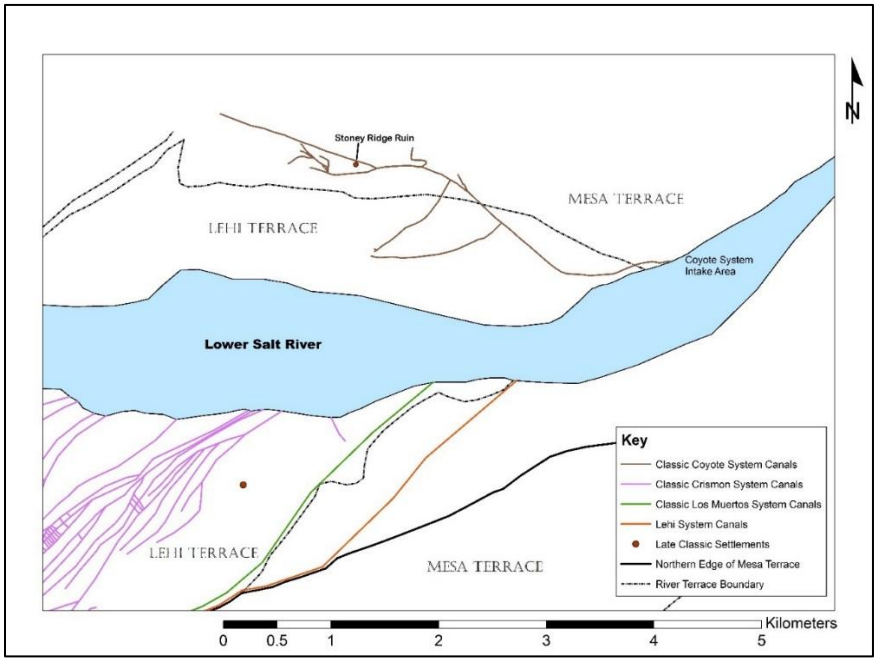


Figure 67. Map of habitation sites (dark red dot with labels) and canals (brown lines) in the Coyote System during the late Classic Period. River terrace boundaries from Pearthree and Huckleberry (1994).

Scottsdale System

The Scottsdale System was located north of the lower Salt River, west of the Coyote System, and northwest of the Crismon System (Figure 40). Unlike on the southside of the river, the Mesa terrace dominates much of the available land for irrigation north of the river (Huckleberry 1995a). Scottsdale System canals did direct water to agricultural land and settlements on the Lehi terrace at various times during the operation of the system, but the center of agricultural production and settlement was on the Mesa terrace. Reconstructions of irrigation acreage (Huckleberry 1995a:53) suggest that the full extent of the Scottsdale system was less than depicted in the past (e.g., Howard 1992; Midvale 1966; Turney 1929). Granite Reef Wash east of Indian Bend Wash is depicted cross-cutting canals along the western edge of the system. If Scottsdale canals did traverse across the wash, then erosion would have constantly impacted the integrity of those canals when water flowed down the wash. A close examination of historic aerial photographs of that area revealed that rather than cross-cutting the wash, the end of the system curves toward the south, and the canals on the west side of the wash likely diverted water from it (Figure 68). Unlike the relative predictability of water from the river, agriculture fed by the Granite Reef Wash canals would have been dependent upon localized and heavy precipitation events (e.g., during the summer monsoon). Given the precarious nature relying upon Granite Reef Wash as a source of agricultural water, it is likely that crops grown in that area were an occasional supplement to agricultural production occurring in the main area of the Scottsdale System. These canals are therefore excluded from the reconstruction of the system.

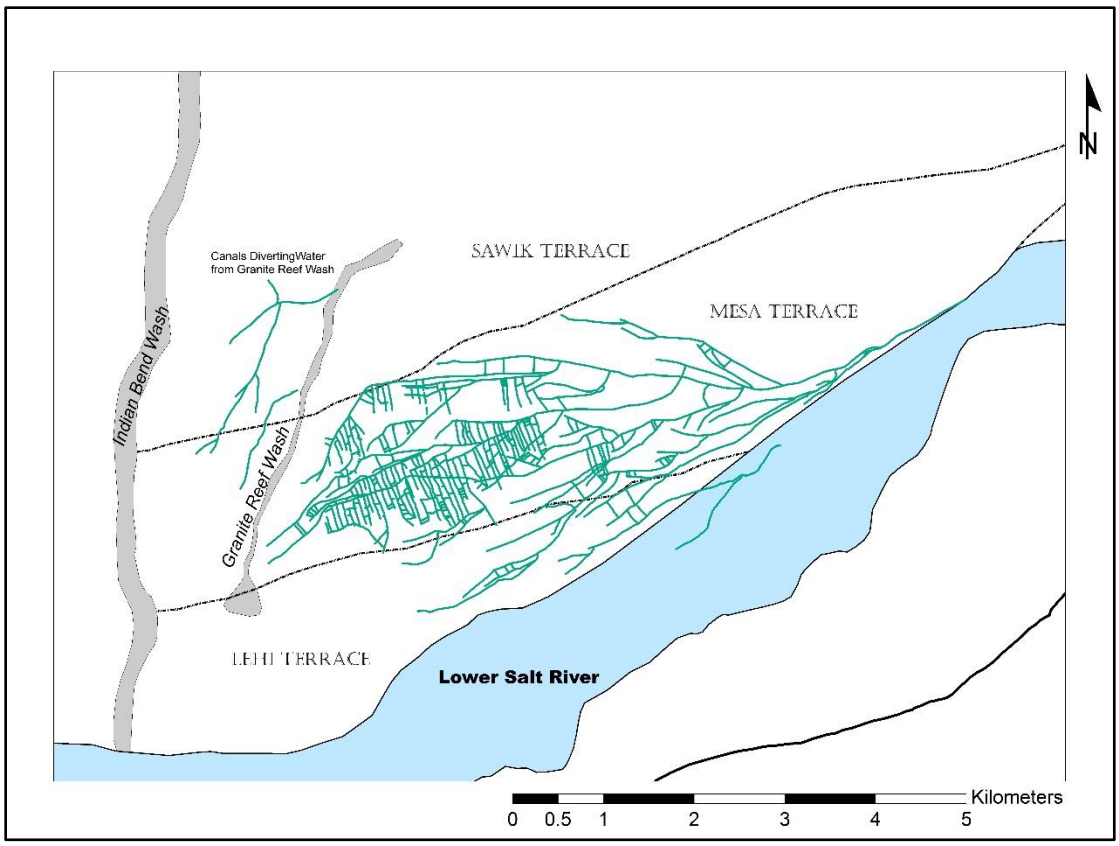


Figure 68. Location of canals identified west of the Scottsdale System that appear to divert water from Granite Reef Wash. River terrace boundaries from Pearthree and Huckleberry (1994).

The earliest evidence of activity in the Scottsdale System area dates to the Pioneer Period (Doyel et al. 1995:480–481). Although no Pioneer canals have been identified (Adams et al. 1994; Doyel et al. 1995; Hackbarth 1995), individuals at that time utilized riverine and other wild resources along the river at AZ U:9:90 (ASM) while living at Pueblo Blanco. Settlement in the area of the Scottsdale System prior to the construction of canals consisted of a few dispersed pithouses. It therefore appears that agricultural production and habitation along this portion of the river were centered at the Coyote and Crismon systems during the Pioneer.

Irrigation and substantial habitation did not begin in the Scottsdale System area until the Colonial Period (Adams et al. 1994; Doyel et al. 1995; Hackbarth et al. 1995;

Howard 2006:235). A single main canal (AZ U:9:99 Feature 22) was constructed (Hackbarth 1995) and appears to have bifurcated to bring water to both the Pueblo Blanco area and AZ U:9:91 (ASM) (Figure 69). The small extent of irrigation land when the system was founded was similar to the Coyote and Sedimento systems when they were established during the Pioneer Period.

A paleochannel was identified within AZ U:9:90 (ASM) that contained abundant Snaketown and Gila Butte phase pottery. Interpreted as resulting from a paleoflood during the Colonial Period (Adams et al. 1994:35), it was suggested that an alluvial event resulted in the lower Salt River shifting its main channel toward the north (e.g., braided plain widening) and impacting activity within AZ U:9:90 (ASM). This shift in channel location appears to fit well with the paleochannel that formed within La Cuenca del Sedimento south of the river during the late Colonial/early Sedentary extremely large flood. Although not explicitly linked through geomorphic study, the paleochannel at AZ U:9:90 (ASM) seems to signal that the swollen river during the height of the extremely large flood may have cut channels into both floodplains and receded toward the north as the floodwaters decreased in intensity. The shift in channel location may have therefore prompted the abandonment of the Scottsdale System Colonial intake.

Unlike the abandonment of the Sedimento System irrigation infrastructure, the Scottsdale System was reestablished during the Sedentary Period and significantly expanded in size (Figure 70; Hackbarth 1995; Howard 2006). The small main canal destroyed during the extremely large flood was replaced by one or two larger main canals. The northern main canal fed infrastructure organized into standardized irrigation units to bring water to the newly established agricultural land around Pueblo Ultimo. This

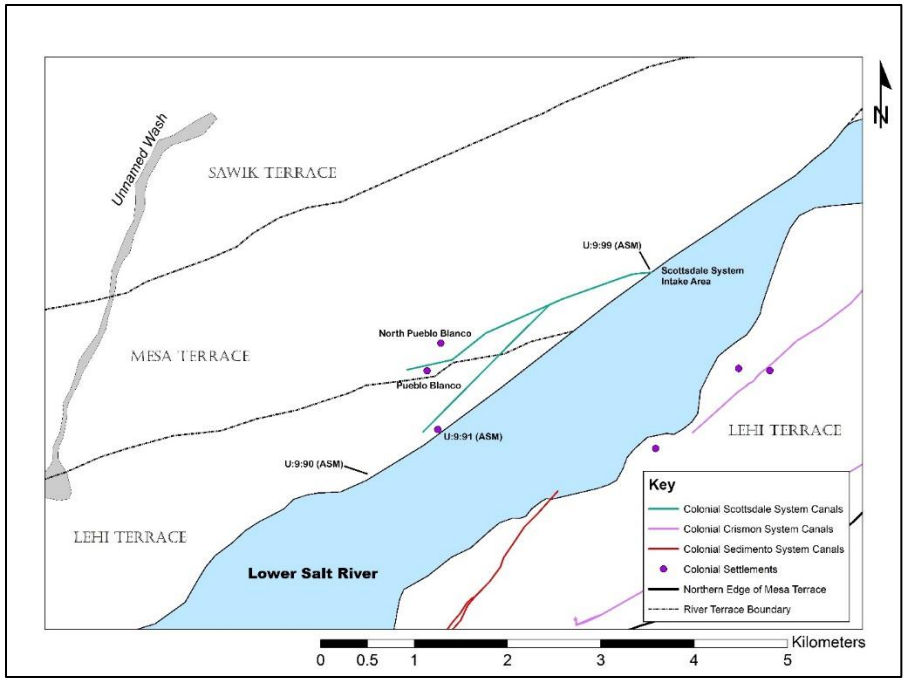


Figure 69. Map of habitation sites (purple dots with labels) and canals (blue lines) in the Scottsdale System during the Colonial Period. Sites that are indicated with labels, but are not marked by a purple dot, denote locations where only canal data were recorded. Evidence of habitation was not documented. River terrace boundaries from Pearthree and Huckleberry (1994).

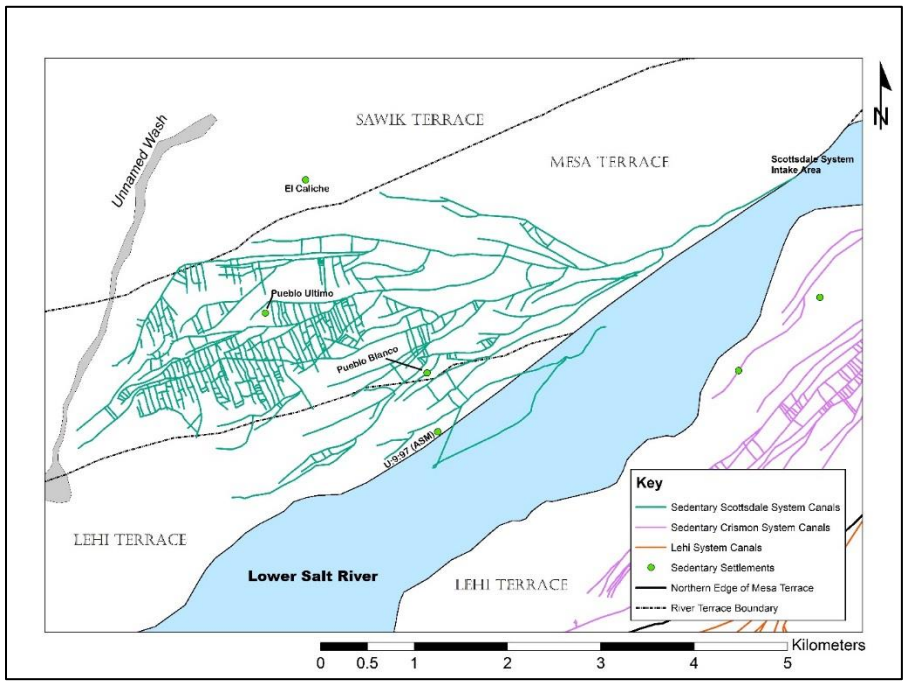


Figure 70. Map of habitation sites (green dots with labels) and canals (blue lines) in the Scottsdale System during the Sedentary Period. River terrace boundaries from Pearthree and Huckleberry (1994).

infrastructure was flanked by canals that serviced the Pueblo Blanco area in the south and El Caliche in the north. Sedentary Period irrigation infrastructure is not easily differentiated from the Classic Period system. The construction of ballcourts at the newly established settlements of Pueblo Ultimo and El Caliche does demonstrate the infrastructure was substantial enough to support agricultural production to fuel the growth of the settlements and contribute to the ballcourt marketplace system.

Irrigation infrastructure likely grew during the early Classic Period in the main area of the Scottsdale System that flanked Pueblo Ultimo, but an important expansion of occupation occurred elsewhere in the system. Unlike other systems along the lower Salt River during the early Classic Period, several settlements appeared near the main intake of the system (Figure 71). Although the center of population within the system was at Pueblo Ultimo, El Caliche, and Pueblo Blanco, the intake area became a notable habitation location. The establishment of this settlement area differed from new settlement areas in other systems, because canals were not constructed from the main canal to the intake settlements. Instead, residents of the intake settlements would have been reliant upon distant fields, as Mesa Grande residents were in the Los Muertos System.

The late Classic Period appears to have manifested differently within the Scottsdale System than the other systems along the lower Salt River. Available evidence suggests that habitation occurred across the Scottsdale System, rather than at only the few large platform mound villages (Figure 72). In addition to Pueblo Ultimo, El Caliche, and

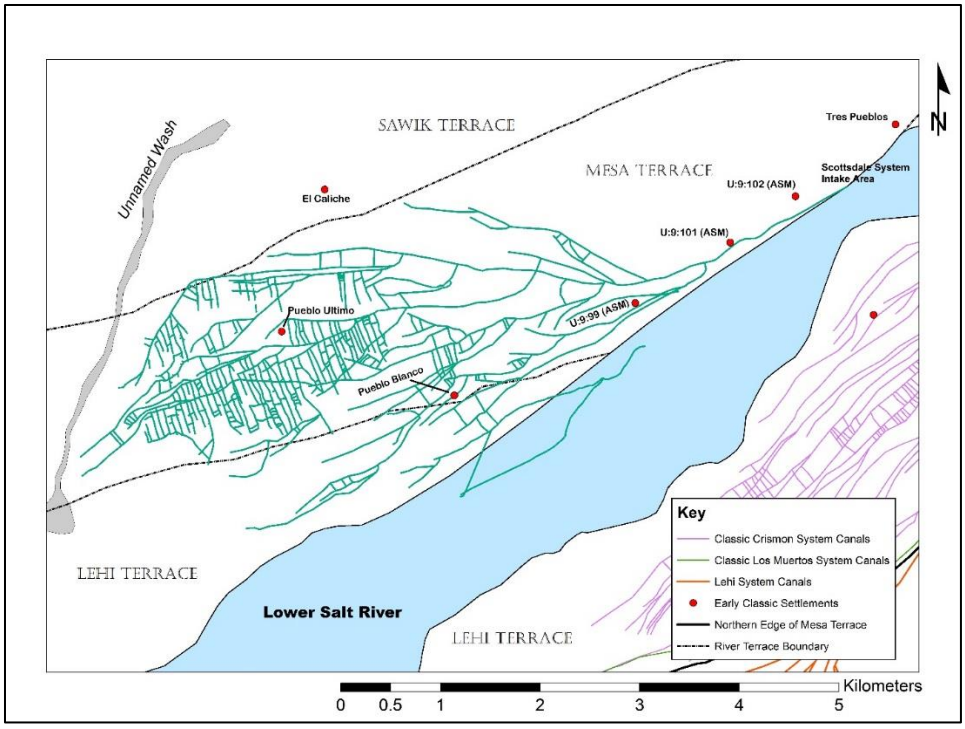


Figure 71. Map of habitation sites (red dots with labels) and canals (blue lines) in the Scottsdale System during the early Classic Period. River terrace boundaries from Pearthree and Huckleberry (1994).

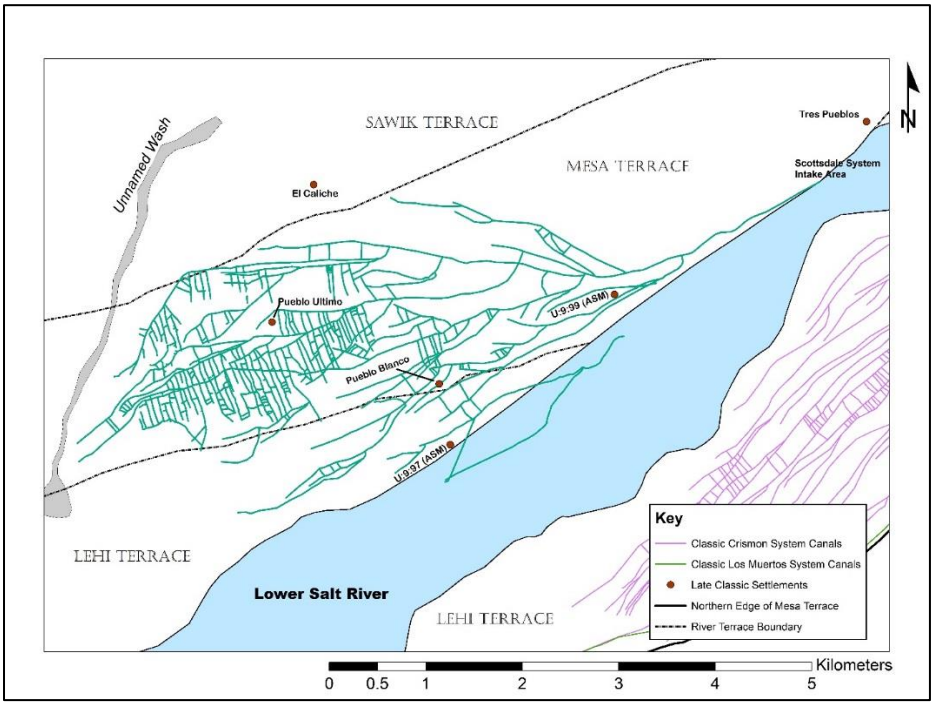


Figure 72. Map of habitation sites (dark red dots with labels) and canals (blue lines) in the Scottsdale System during the late Classic Period. River terrace boundaries from Pearthree and Huckleberry (1994).

Pueblo Blanco, a small group continued to reside in a compound at Tres Pueblos (AZ U:9:14 [ASM]; Hackbarth et al. 1995) near the intake area. The orientation of the compound appears to have shifted directions between the early and late Classic Period (Henderson 1995:169–177), as the residents continued living there during the late Classic Period. The settlement pattern of the system therefore appears to have been Pueblo Ultimo flanked by El Caliche and Pueblo Blanco, with a household or two residing at Tres Pueblos.

The longevity of the Scottsdale System is not known, but the presence of Salado Polychromes at Pueblo Ultimo (Schroeder 1940:113–114), Pueblo Blanco (Doyel et al. 1995), and Tres Pueblos (Hackbarth et al. 1995) suggests that the system continued operation well into the late Classic Period. Gila Polychrome production spanned the entirety of the late Classic Period, but particular late types like Tonto Polychrome and Cliff Polychrome did not begin manufacture until the middle of the late Classic Period (Neuzil and Lyons 2005). Although regional variation in the frequency of the late Salado Polychrome does exist, those pottery types are a reliable diagnostic for chronological reconstruction. Within the Scottsdale System, Tonto Polychromes were identified at Pueblo Ultimo and Pueblo Blanco, and at least one Cliff Polychrome was recovered from Pueblo Blanco. Given the location of these sites in areas that were not inhabited until the construction of irrigation infrastructure, it is plausible that the Scottsdale System was in operation until the beginning of the A.D. 1400s.

Canal System 2

Canal System 2 is located on the northside of the lower Salt River, west of Papago Butte and the Scottsdale System, and northwest of the Riverview System (Figure 40). The bedrock reef at this location placed the system at an advantageous location to divert water from the river channel (Nials et al. 2011). At the intake area of Canal System 2, underflow was forced to the surface by a granite reef that extends between Papago and Tempe buttes. The reef was unique for the lower Salt River Valley and highly influential in Canal System 2's long-term success. Without a doubt, the reef is why Canal System 2 was placed at this location.

Nials et al. (2011:739) argued that Hohokam irrigation necessitated an underflow perching feature (e.g., bedrock reef), stating:

> Enhanced flow, coupled with engineering considerations for canal design, make boundary areas some of the best places to construct intake structures for canal irrigation systems… Closely spaced reach boundaries or large baseflow discharges create particularly attractive valley-bottom conditions, since these conditions favor continuous perennial streamflow and allow maximum irrigation of the floodplain via short, relatively efficient canals. The headgate(s) for the interconnected canals of a canal system are *often located near reach boundaries*, and the system is usually restricted to a single reach. (emphasis mine)

The emphasized portion of the passage above is essential for Nials and colleagues' argument because they link irrigation intake areas to river reaches.

Nials and colleagues (Nials et al. 2011) provide two natural processes for river reach boundary creation. The first type is created by bedrock or erosion-resistant sediments forcing underflow above ground (Figure 73). The second type is created at the intersection of tributary watercourses (Figure 74). The underflow perching is caused by tributaries frequently depositing sediments, which the river cannot easily remove, and alluvial sediment saturation, forcing the underflow over the impervious sediments.

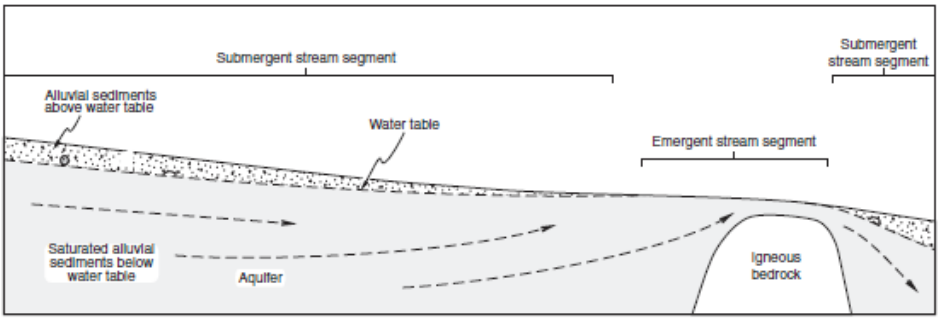


Figure 73. Illustration of bedrock or erosion-resistant sediment causing underflow to the surface (Nials et al. 2011:Fig. 6).

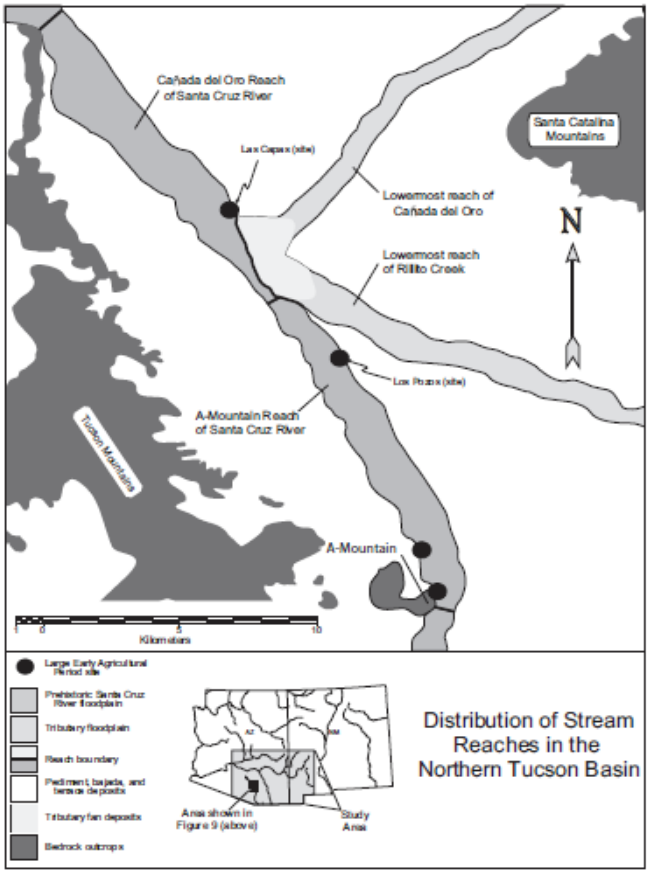


Figure 74. Example of reach boundaries creation due to tributary watercourses (Nials et al. 2011:Fig. 7).

Along the lower Salt River, only the Canal System 2 intake area is at a reach boundary. Several bedrock surveys (e.g., Lee 1905; Reynolds and Bartlett 2002; Woods Horton 1998:6–7) have demonstrated that bedrock is deeply buried (greater than 150 feet in many locations) between the Papago and Tempe buttes reef and the Granite Reef Dam

reef (Figure 75). The depth to bedrock is caused by buttes and dam reefs forming after the separation of tilted fault block that slid toward the northeast (Figure 76). As the blocks moved apart, alluvial and colluvial material infilled between the peaks. By approximately 5 mya, the Papago and Tempe buttes and Granite Reef Dam blocks had completely separated, and extensive infilled material covered the underlying bedrock. Currently, the peaks of the two blocks are located approximately 27 km apart.

Unlike the bedrock reef at the Papago and Tempe buttes, the land immediately downriver from the Granite Reef Dam bedrock reef was not conducive for irrigation (Figure 77). For the first 1-2 km downriver from the reef, the river is constrained by the McDowell Mountains (north) and Usery Mountains (south) hillslope bajadas. A floodplain then begins to open up to the north while a low river terrace continues to constrain the river to the south. The high river terrace continues to impede floodplain formation for approximately 1 km, at which point, the terrace travels southwest away from the active river channel. Despite being an acceptable distance away from the bedrock reef, the floodplains, and thus the intake locations, are beyond the boundaries of the Granite Reef Dam reach.

The depth of the water table is a strong line of evidence that the stream reach concept has limited applicability in the lower Salt River Valley. Lee (1905:Pl. XVIII) found that moving from west to east from Tempe Butte, the depth to reach the top of the water table increased, as indicated by water depth contour lines Lee provides. Projecting the contour lines north, the depth of the water table at the start of floodplains is greater

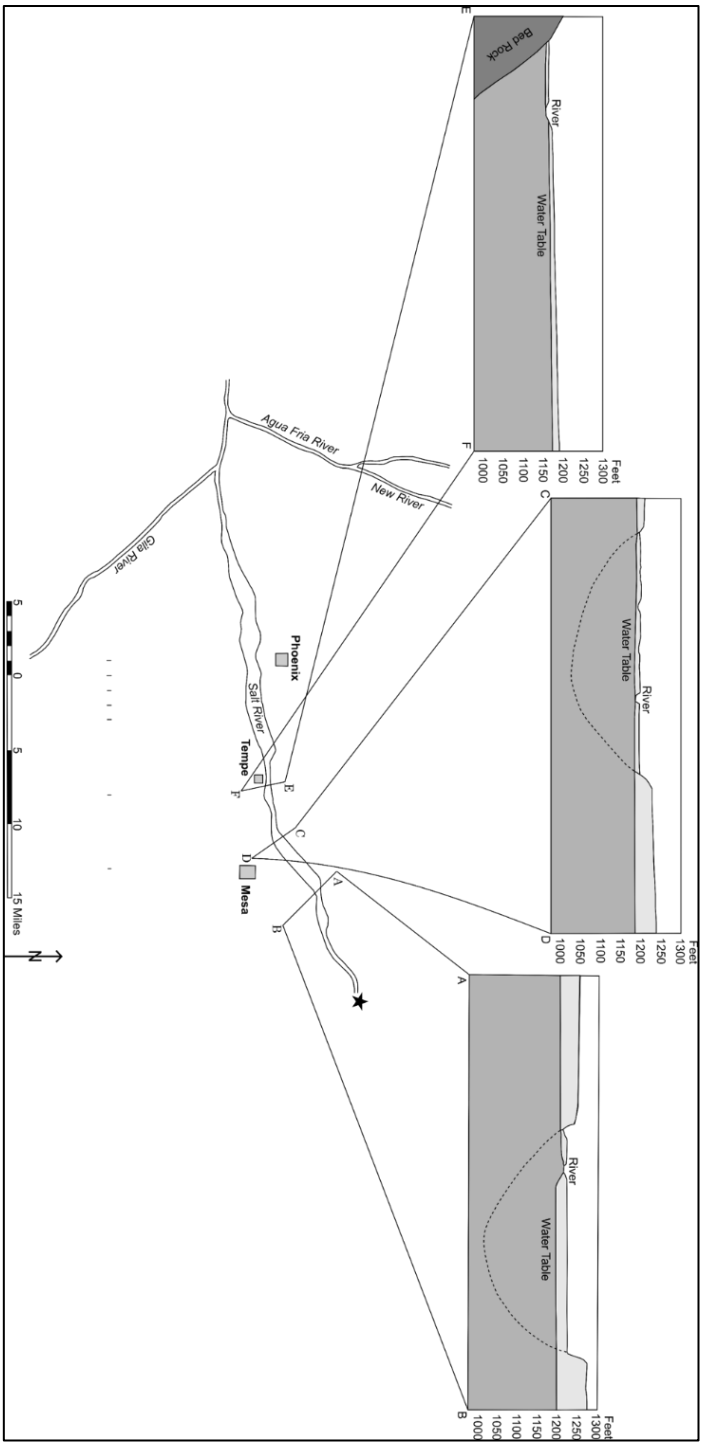


Figure 75. Geologic cross-sections created from data collected during Lee's (1905) groundwater survey. The black star denotes the location of the Granite Reef Dam. Cross-section AB is near the Crismon System intake area. Cross-section CD is near the Riverview System intake area. Cross-section EF is near the Papago/Tempe buttes reef and just east of the Canal System 2 intake area. Illustration modified from Lee (1905:Fig. 19 and Pl. XIX).

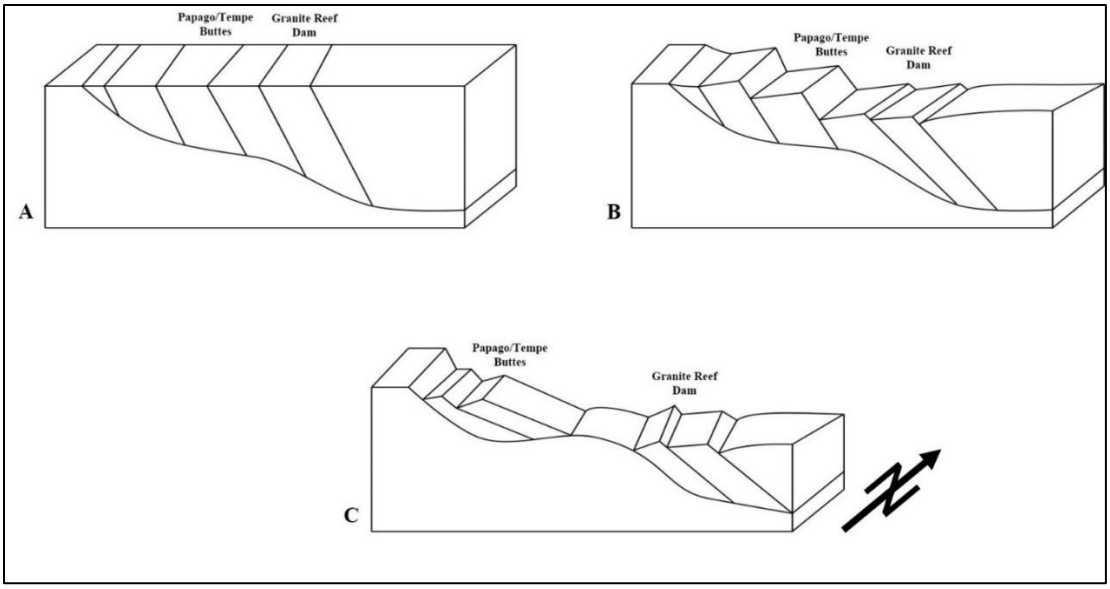


Figure 76. Illustrations of the development and separation of the Papago and Tempe buttes bedrock reef and the Granite Reef Diversionary Dam bedrock reef (modified from Reynolds and Bartlett 2002:Fig. 4). Diagonal faults form approximately 22 mya (a). Tilted fault block form and begin to slide toward the northeast approximately 19 mya (b). Full separation of western and eastern tilted fault blocks approximately 5 mya (c).

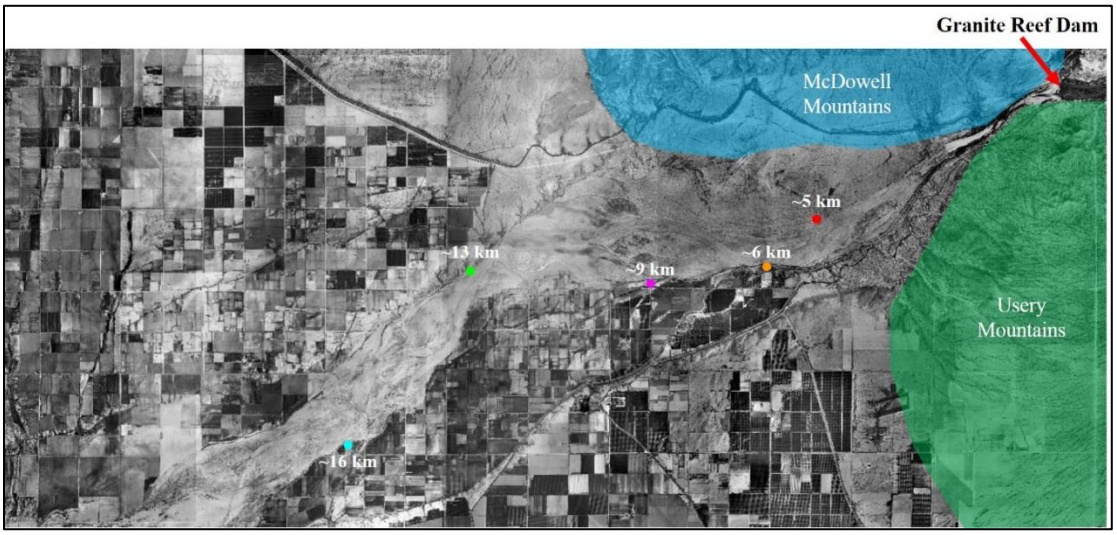


Figure 77. Distance between canal system intake location and the Granite Reef Dam bedrock reef. Red dot represents Coyote System intake area. Orange dot represents Lehi/Los Muertos systems intake area. Lavender dot represents Crismon System intake area. Green dot represents Scottsdale System intake area. Aqua dot represents Sedimento System intake area.

than 20 feet on the north side and 35-55 feet on the south side of the river. Lee

(1905:120) notes, “during the dry summer season the water lowers more or less, and the

shallower wells become dry." Given the depth of the water table and the observation of shallow wells becoming dry caused by the underflow increasing in depth, all surface flow sank below ground. As opposed to the Papago/Tempe buttes bedrock reef, the distance between the Granite Reef Dam bedrock reef and the start of the floodplains appears to be beyond the distance that the underflow remains at or near the surface.

The inclusion of lower Salt River bedrock data with evidence furnished by Nials and colleagues (Nials et al. 2011) provides a more nuanced perspective of reefs and Hohokam irrigation system intake placement. Rather than multiple reefs in the lower Salt River Valley, only one exists. The other irrigation systems were placed at locations with a considerable depth between the top of the riverbed and the underlying bedrock. The absence of a reef to form a river reach, except between Papago/Tempe buttes, was a boon for Canal System 2. The single reef perching underflow likely ensured the longevity of that system.

Small-scale agricultural production and habitation occurred within the Canal System 2 area by A.D. 50, but large-scale irrigation did not begin until the late Pioneer Period (Henderson and Clark 2004; Howard 1991, 1993). Irrigation during the early Pioneer Period likely involved the use of small channels to divert river water to agricultural fields located on the floodplain. Experimentation with more complex networks of canals appears to have occurred during the Pioneer Period because by the late Pioneer Period Hohokam farmers were constructing large main canals capable of transporting water several kilometers from the floodplain (Figure 78). The extent of the Pioneer Period system is largely inferred by the location of settlements (Howard 1991). Canals dating to the Pioneer Period have not been identified at the sites of Pueblo

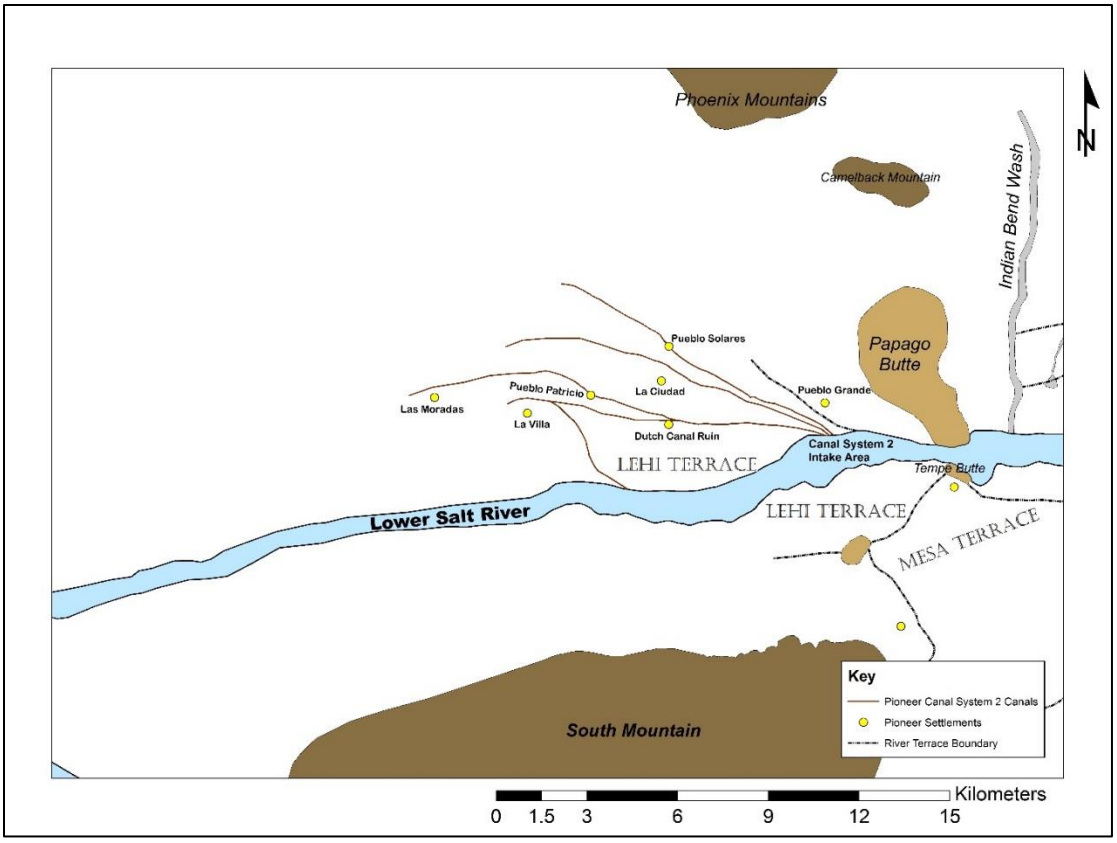


Figure 78. Map of habitation sites (yellow dots with labels) and canals (brown lines) in Canal System 2 during the Pioneer Period. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

Patricio, Los Solares, and Las Moradas, but their settlement size and distance from sufficient water for agricultural production suggests that the late Pioneer Period system must have extended to those settlements.

Within Canal System 2, dramatic growth occurred during the Colonial Period (Howard 1991, 1993). Unlike other irrigation systems along the lower Salt River that grew significantly during the Sedentary and later, the lateral boundaries of Canal System 2 were set during the Colonial (Figure 79). Although the total irrigated acreage was less than during the Sedentary and Classic periods, Colonial Period canals transported water to areas where agricultural production expanded later in time. Of particular importance,

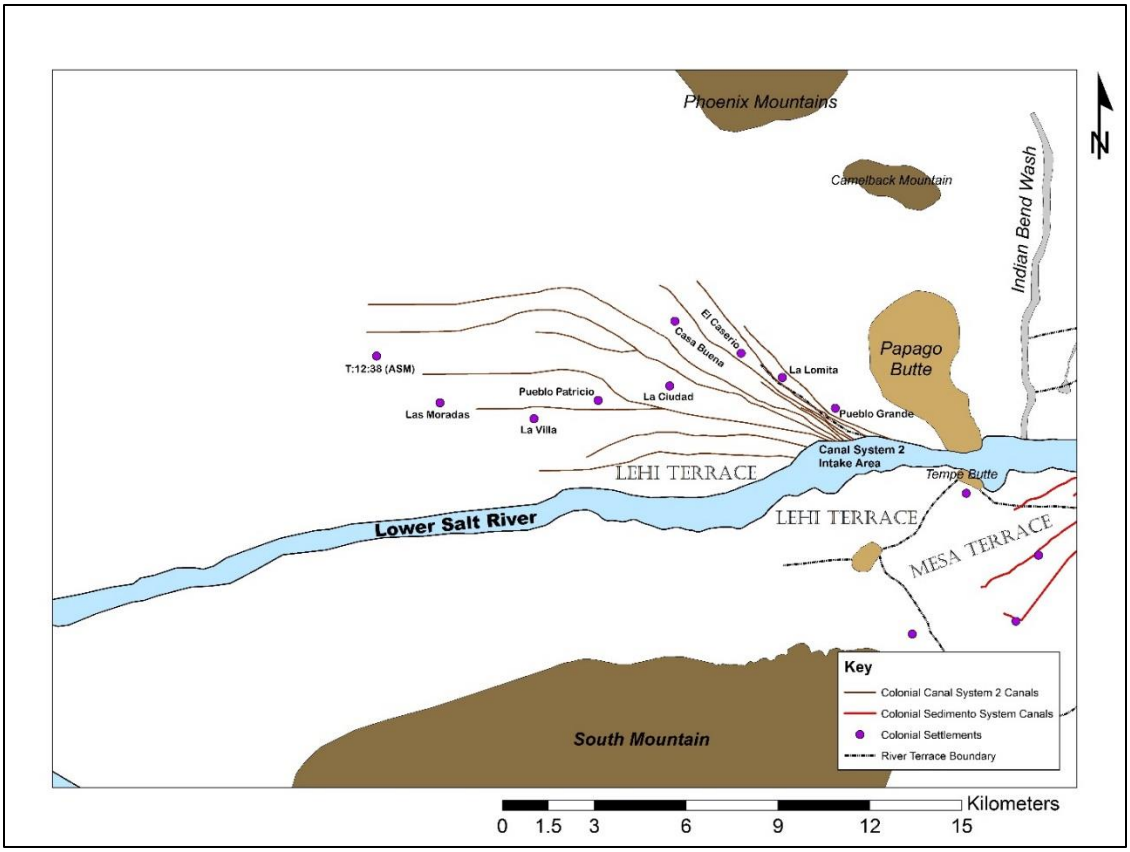


Figure 79. Map of habitation sites (purple dots with labels) and canals (brown lines) in Canal System 2 during the Colonial Period. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

the expansion of the system set the foundation for the settlement of sites away from the river that became important villages during the Sedentary and Classic periods (e.g., Casa Buena, Grand Canal Ruin, La Cuidad, and Las Colinas).

The end of the Colonial Period was a time of change within Canal System 2, as it was elsewhere within the lower Salt River Valley. As noted in the discussion above, the late Colonial/early Sedentary extremely large flood may have profoundly impacted Hohokam society. The extremely large flood, which may be associated with sediment deposits from near Pueblo Grande (Birnie 1994; Masse 1976), likely pushed agricultural production and settlement toward the north and away from the river, beyond the lateral

extent of the floodwaters (Howard 1991). Irrigation infrastructure and settlement did expand south during the Classic Period, but the extremely large flood likely led to a much more compact system during the Sedentary Period.

The shift in Canal System 2 irrigation infrastructure during the Sedentary Period (Figure 80) appears to have also involved a restructuring of how water was delivered. As noted during the discussion of the Crismon System, a new model of irrigation likely spread across the lower Salt River Valley during the Sedentary Period. Within Canal System 2, irrigation water was delivered to agricultural fields on the downslope side of main canals through branch canals (Howard 1990a). This model of irrigation fits well with the topography of the Canal System 2 area, but it limited the system's growth potential due to the necessity of constructing branch and distribution canals at a regular interval to ensure sufficient water head pressure. Evidence from the PHX Sky Train project demonstrated that standardized irrigation units were operationg within the system by the Sedentary Period.

Historic aerial photographs taken over the Canal System 2 area suggest standardized irrigation units were spread across the system (Figure 81). It appears that the irrigation units were fit into the areas between preexisting main canal alignments since those alignments began as early as the Pioneer Period. The model of irrigation within Canal System 2 beginning in the Sedentary Period was likely a hybridization of the simple system that Howard (1990a) discussed and the SIUs servicing agricultural production within the other lower Salt systems. As such, water flowed down the main canals of Canal System 2, as it had during the Colonial Period, but then traveled through

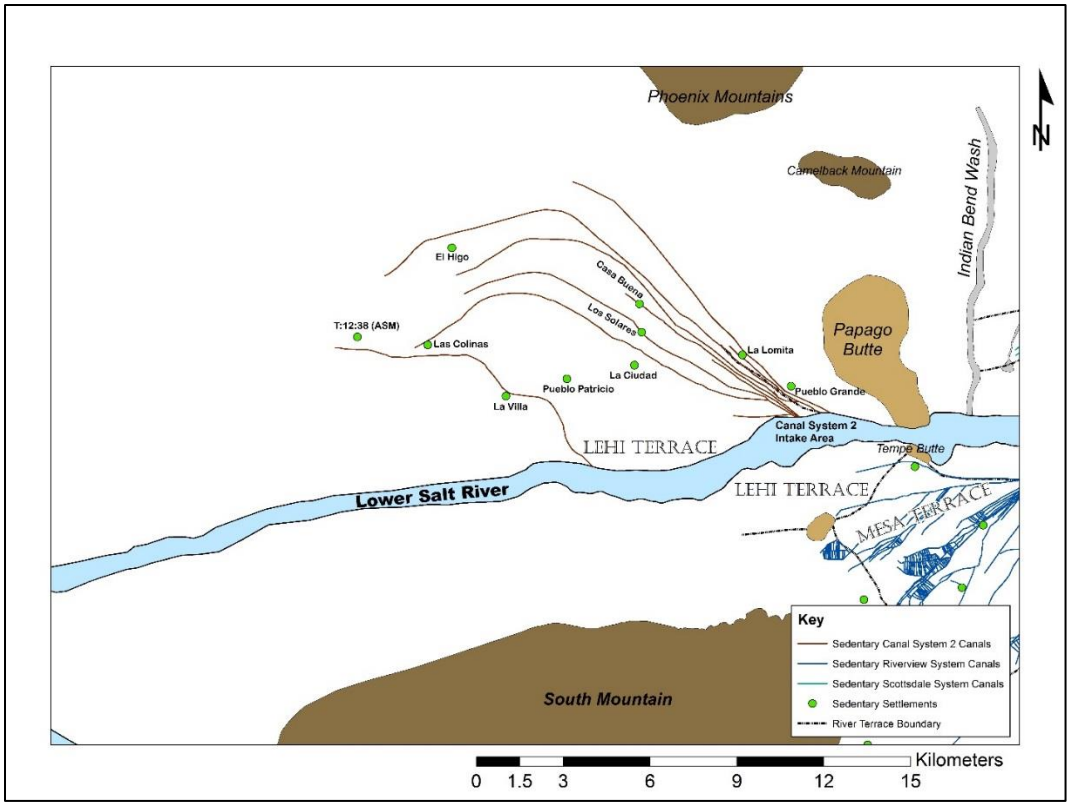


Figure 80. Map of habitation sites (green dots with labels) and canals (brown lines) in Canal System 2 during the Sedentary Period. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

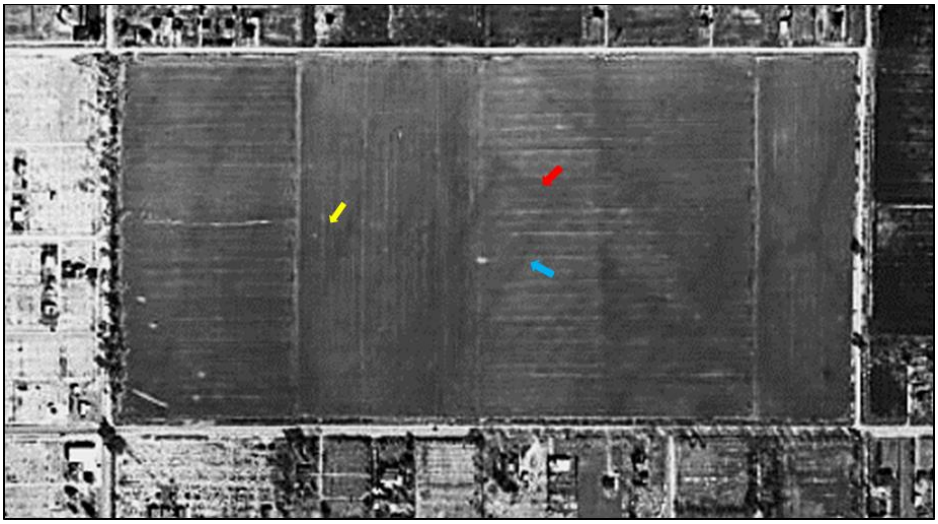


Figure 81. Standardized irrigation unit model of irrigation seen in 1949 historic aerial photographs of Canal System 2. The red arrow denotes a branched bifurcated canal. The blue arrow denotes a primary lateral canal. The yellow arrow denotes a secondary lateral canal. The agricultural fields of focus were located between 16th Street (west), Palm Lane (north), 20th Street (east), and McDowell Road (south) in Phoenix.

the SIU network of canals. Excess water was then available to other parts of the system, rather than lost as it was within the simple system.

Howard (1990a, 1991) contended that agricultural production and settlement reappeared in the south of Canal System 2 on the Lehi terrace, in the area of Pueblo Salado, and new sites were established west of La Villa during the early Classic Period (Figure 82).[4.3] The expansion of the system to the west, out toward Los Aumentos, may have been short-lived because parts of Canal System 2 started to be abandoned over the course of the Classic Period. Of note, dispersed settlements around Los Solares, between La Cuidad and Casa Buena, began to decline and the northern main canal (Canal Grande) that serviced that area fell out of use (Howard 1990a:186–189; Howard and Huckleberry 1991; Huckleberry et al. 2018). The now sparsely populated central portion of Canal System 2, Howard suggested, likely socially divided the occupied northern portion of the

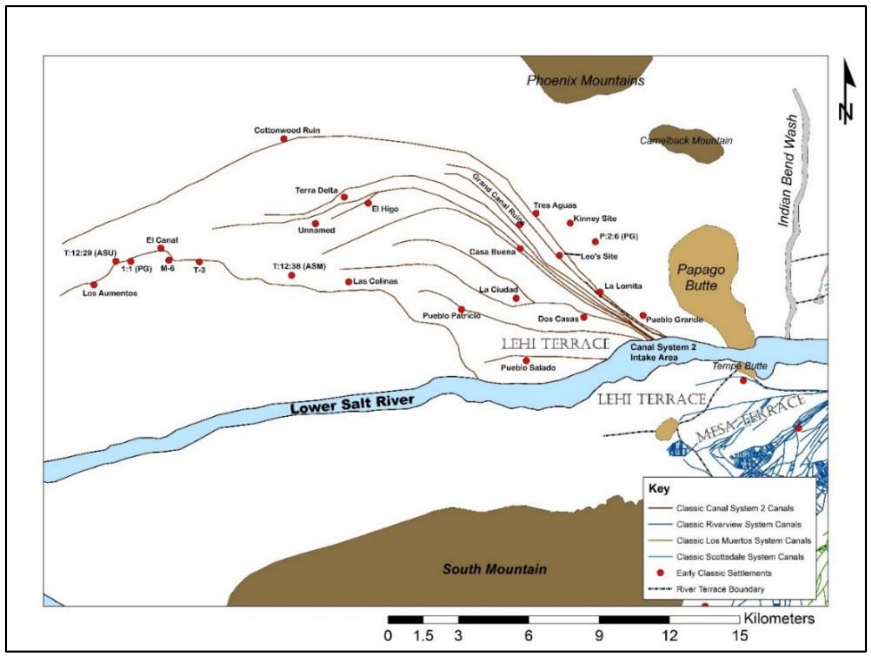


Figure 82. Map of habitation sites (red dots with labels) and canals (brown lines) in Canal System 2 during the early Classic Period. Blue lines denote the location of Riverview System canals. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

system from the less densely utilized southern part of the system. The movement away from the central portion of the system is likely an indicator that the system was beginning to fragment.

Some settlements (e.g., Pueblo Grande and Las Colinas) continued to flourish at the beginning of the late Classic Period, but overall, Howard (1990a, 1991) characterizes Canal System 2 in decline. Settlement data Howard used indicate that Canal System 2 likely contracted east and south, with Grand Canal Ruins and Las Colinas forming the boundaries of the system (Figure 83). Members of Canal System 2 remained in that area until the end of the Hohokam cultural sequence, but canal stratigraphic evidence suggests that the system ceased to function during the late A.D. 1300s (Huckleberry 2015b:111–113; Huckleberry et al. 2018).

Canals documented just north of the Park of the Four Waters preserved the evidence of a massive alluvial event occurring during the late A.D. 1300s – early A.D. 1400s (Huckleberry 2015a, 2015b:111–113; Huckleberry et al. 2018). The youngest main canal in that area was found to be capped by a sand-rich deposit that appears to have ceased the operation of irrigation infrastructure. Unlike the older main canals that were reconstructed after flood events earlier in the Classic Period, no attempt was made to re-establish the late main canal. Huckleberry and others (Huckleberry et al. 2018:12) suggested that the main canal was not reconstructed because the population associated with it were too small to respond to the catastrophic event sufficiently. After this event, settlement patterns suggest that small-scale irrigation was adopted at settlements like Las Colinas through the late Classic Perio, and an ephemeral population elsewhere in the

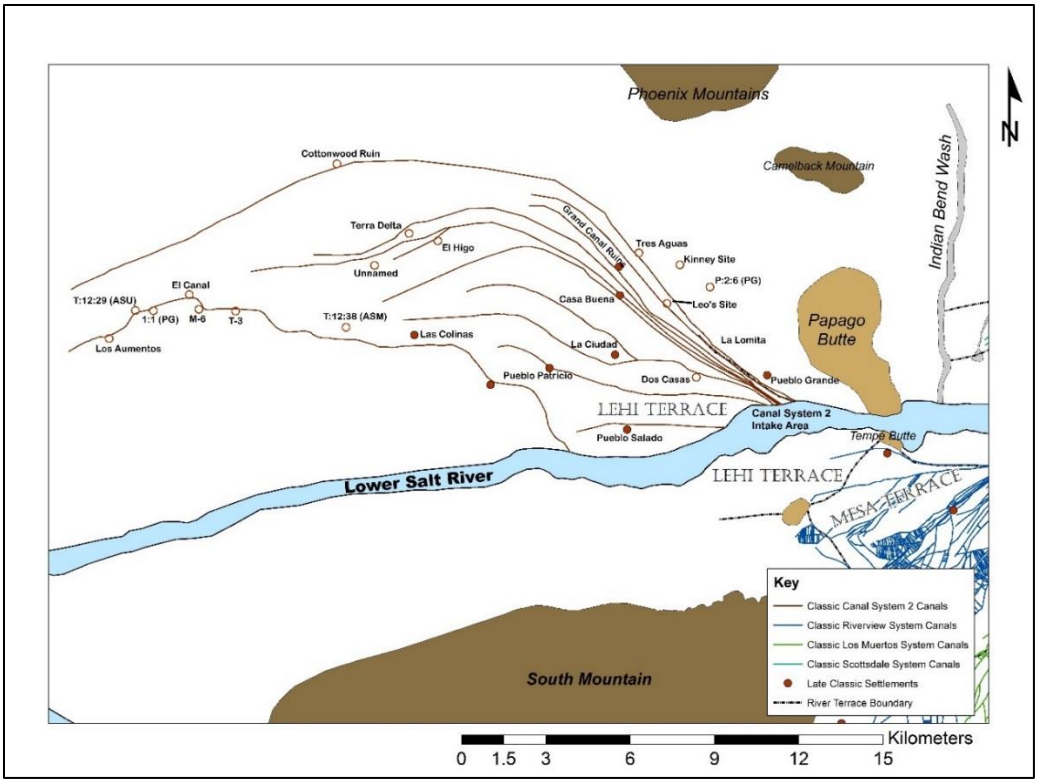


Figure 83. Map of habitation sites (dark red dots with labels) and canals (red lines) in Canal System 2 during the late Classic Period. Open dark red circles denote sites possibly occupied. Figure 83 differs from Figure 82 because Figure 83 includes possibly occupied site, whereas Figure 82 depicts only occupied sites. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

system may have returned to the kind of simple irrigation techniques employed during the early Pioneer (Howard 1991).

Developmental History of Irrigation within the Lower Salt River Valley

Reconstructing the developmental history of Hohokam canal irrigation south of the lower Salt River and reexamining data from previously reconstructed irrigation systems (Howard 1990a, 2006; Nicholas 1981; Nicholas and Neitzel 1984) provides new insights into the history of water control and agriculture in the lower Salt River Valley. The addition of historical aerial photographs, canal data, and geomorphological data not

available during previous reconstructions provides a more complex picture of Hohokam irrigation through time than previously given.

Irrigation within the lower Salt River Valley extends back as far as A.D. 50 (Henderson and Clark 2004; Morris 1969), but the formation of irrigation systems likely did not begin until six centuries later in the middle of the Pioneer Period (Howard 2006). Members of Canal System 2 did operate multiple main canals during the Pioneer Period; however, the settlements serviced by those canals may not have been founded until the late Pioneer Period (Howard 2006). Howard (1991:5.6-5.10, 1993:297) infers that irrigation systems must have begun during the early Pioneer Period or earlier because the middle Pioneer Period main canals had "reasonably good engineering principles".

The extent of the Crismon, Sedimento, and Coyote systems and the location of settlements like Los Hornos and La Plaza away from canals suggest that irrigation within much of the lower Salt River Valley was likely simpler than occurred within Canal System 2 (Figure 84). Small system populations, as indicated by the limited number of identified structures dating to the Pioneer Period, hint that Pioneer Period systems likely involved only a few households, except Canal System 2. Low population density south of the river may have allowed for more reliable wild resource procurement than possible later in time.

The Colonial Period within the lower Salt River Valley was marked by the expansion of existing irrigation systems and the initial operation of the Scottsdale System. The Crismon, Sedimento, and Coyote systems increased in both agricultural land and the number of settlements, but Canal System 2 grew well beyond those systems (Figure 85). Rather than a slow progression toward a large irrigation system, Canal

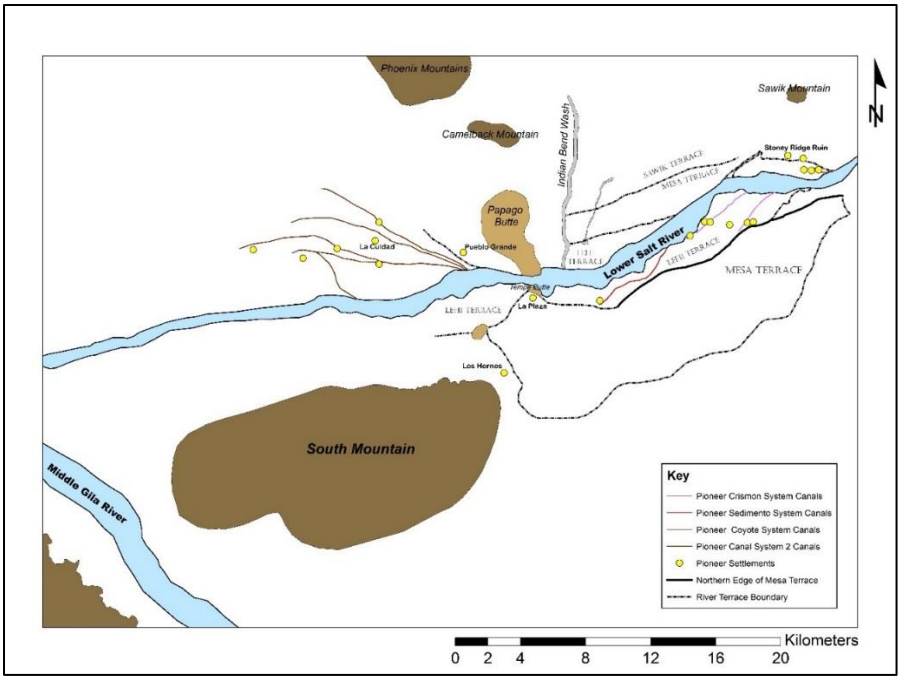


Figure 84. Hohokam irrigation systems in operation during the Pioneer Period. Selected settlements are labeled for reference. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

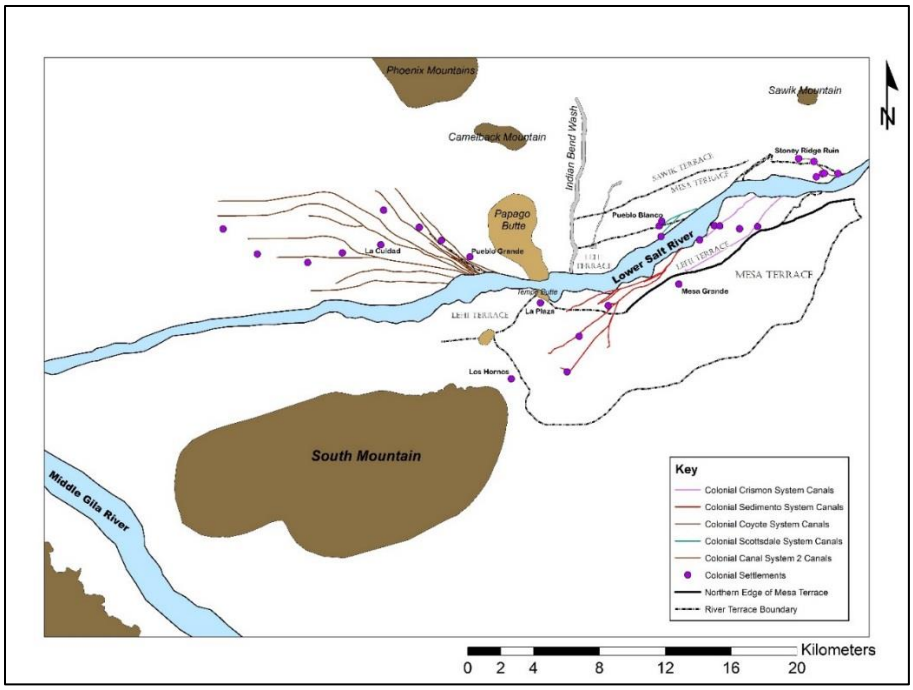


Figure 85. Hohokam irrigation systems in operation during the Colonial Period. Selected settlements are labeled for reference. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

System 2 grew to its full lateral extent during the Colonial Period. Given the size of Canal System 2, in comparison to the other systems, the center of population within the valley during the Colonial Period was likely Canal System 2.

The most significant event occurring sometime between the late Colonial and early Sedentary periods was the extremely large flood. The lines of evidence discussed above point toward it reshaping irrigation in the lower Salt River Valley at the end of the Colonial or very early Sedentary. River discharge during a single alluvial event is nearly impossible to reconstruct from the geomorphological record (Huckleberry 1999). Identifying the minimum full-extent of the extremely large flood, however, is facilitated by silt-rich deposits with suspended cobbles being identified within the Crismon, Sedimento systems, and possibly the Scottsdale System and Canal System 2. Comparison of the deposit to the 1891 flood, the largest flood recorded historically within the valley, demonstrated that the late Colonial/early Sedentary extremely large flood had a peak discharge in excess of 300,000 cfs (Fuller 1987; Katzer 1989), possibly as high as 420,000 cfs. Historical documents record the extent and force of this kind of discharge destroying intake features and headgates, rupturing canals near the headgates, burying canals further away, and destroying and burying settlements in the path of the floodwaters.

Archaeologically, the effects of the extremely large flood are clear. The least severe result was a shift in agricultural production and settlement toward the edge of the Mesa terrace within the Crimson System and north away from the floodplain within Canal System 2. Conversely, the extremely large flood appears to have stimulated the

establishment of two new irrigation systems to replace the initial Scottsdale and Sedimento systems. Scottsdale System irrigators shifted the location of their main intake area slightly north, and Sedimento System members abandoned their intake area in favor of establishing the Riverview System intake several kilometers downriver. The probable truncating of Sedimento canals by the Riverview System to bring water to areas formerly serviced by the Sedimento System implies that the same people operated both systems. Shifting the intake area south would have reduced the distance that main canals traveled through the geographic constriction. It also decreased the length of canals within the lateral extent of very large alluvial events similar to the late Colonial/early Sedentary extremely large flood.

The wide-spread and profound impact of the late Colonial/early Sedentary extremely large flood likely altered the Hohokam cultural trajectory within the lower Salt River Valley. After the extremely large flood, irrigation systems grew large relatively quickly, and some preexisting settlements (e.g., Mesa Grande and Pueblo Grande) followed a path that led to their prominence during the Sedentary and Classic periods. The extremely large flood altered the social organization of the Hohokam within the valley by allowing for a fundamental restructuring of land use patterns.

The extent of irrigation infrastructure within the lower Salt River Valley during the Sedentary Period differed significantly from the preceding periods. Across the newly established Riverview and Lehi systems, the reestablished Scottsdale System, and the previously established Crismon System and Canal System 2, irrigation infrastructure was divided up into a network of canals to direct water to areas of need (Figure 86). Rather than simply directing water from intake, to main canal, to branch canal, and out to fields

on the downslope side of the distribution canal, water flowed through an intricate network of interconnected canals that formed the standardized irrigation units. This arrangement would have better utilized available land and water than did the infrastructure suggested by previous irrigation models. A lingering question not addressable with study data, is if SIUs arose and spread across the lower Salt River Valley after the extremely large flood or if excavation sampling methods have biased data interpretation. If an artifact of excavation sampling methods, then future archaeological projects should find SIU predating the Sedentary Period.

The peak of irrigated land and settlement extent occurred during the early Classic Period (Figure 87), however shifts toward aggregation began to occur. The Los Muertos System was established, and the Riverview System and Canal System 2 reached their maximum extent. The occupations within the Crismon and Lehi systems increasingly concentrated along the edge of the Mesa terrace. Within the Crismon System, the shift in habitation may denote a change in land use patterns with agricultural production on the Lehi terrace and occupation along the Mesa terrace edge. The reduction in the number of settlements in the Lehi System may signal that the operation of the system was impeded by the geographic anomaly which the main canal passed to reach the top of the Mesa terrace. The early Classic Period occupation of Casa de Mesa was possibly the remaining Lehi System population away from the terrace edge.

The shifts initiated during the early Classic Period culminated during the late Classic Period (Figure 88). Population aggregated within platform mound villages in the Riverview, Coyote, and Scottsdale systems. The settlement patterns of the Crimson System comprised of agricultural production on the Lehi terrace and habitation along the

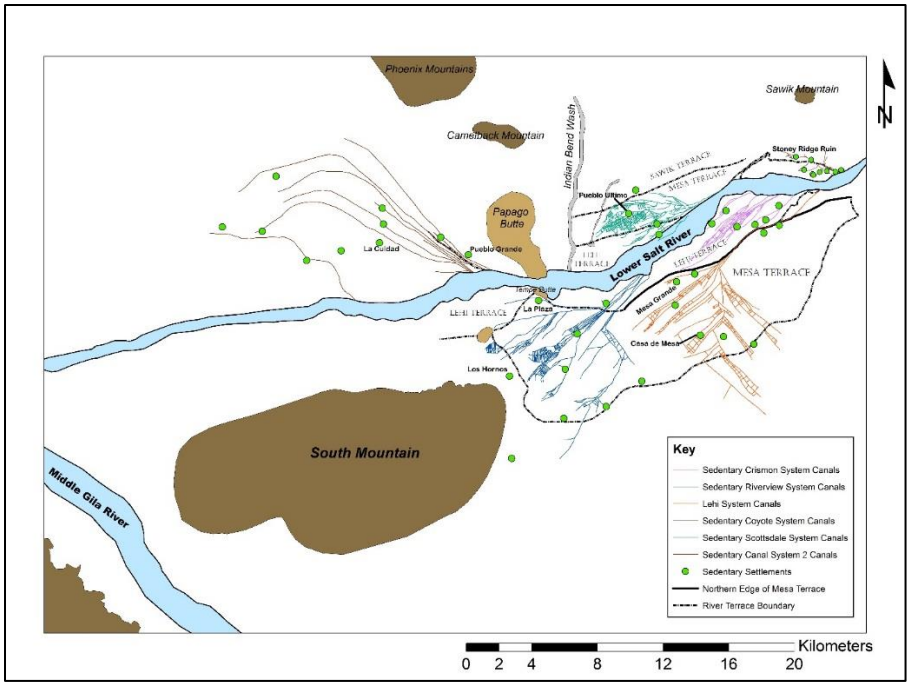


Figure 86. Hohokam irrigation systems in operation during the Sedentary Period. Selected settlements are labeled for reference. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

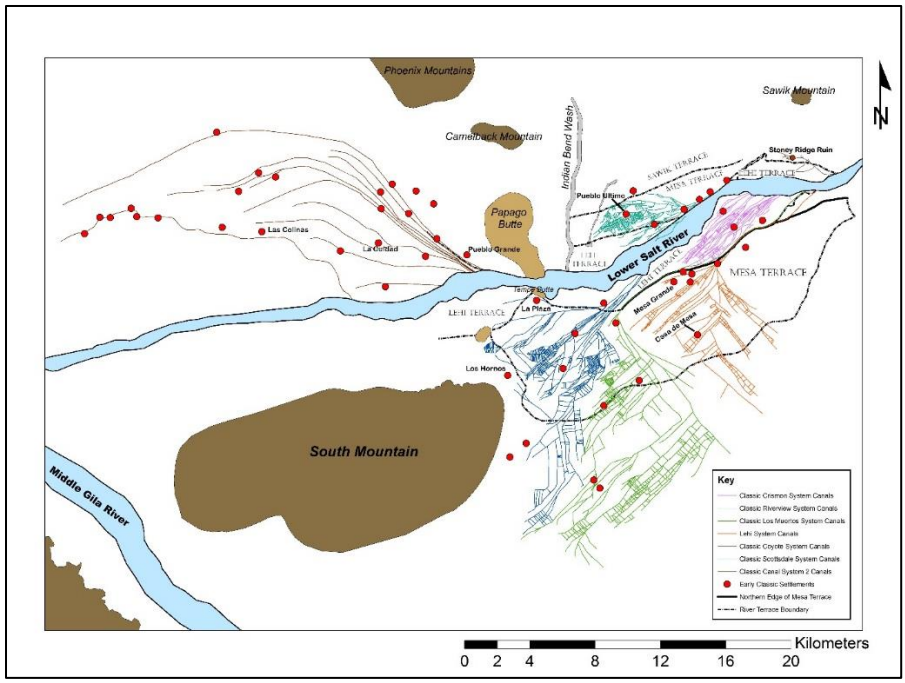


Figure 87. Hohokam irrigation systems in operation during the early Classic Period. Selected settlements are labeled for reference. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

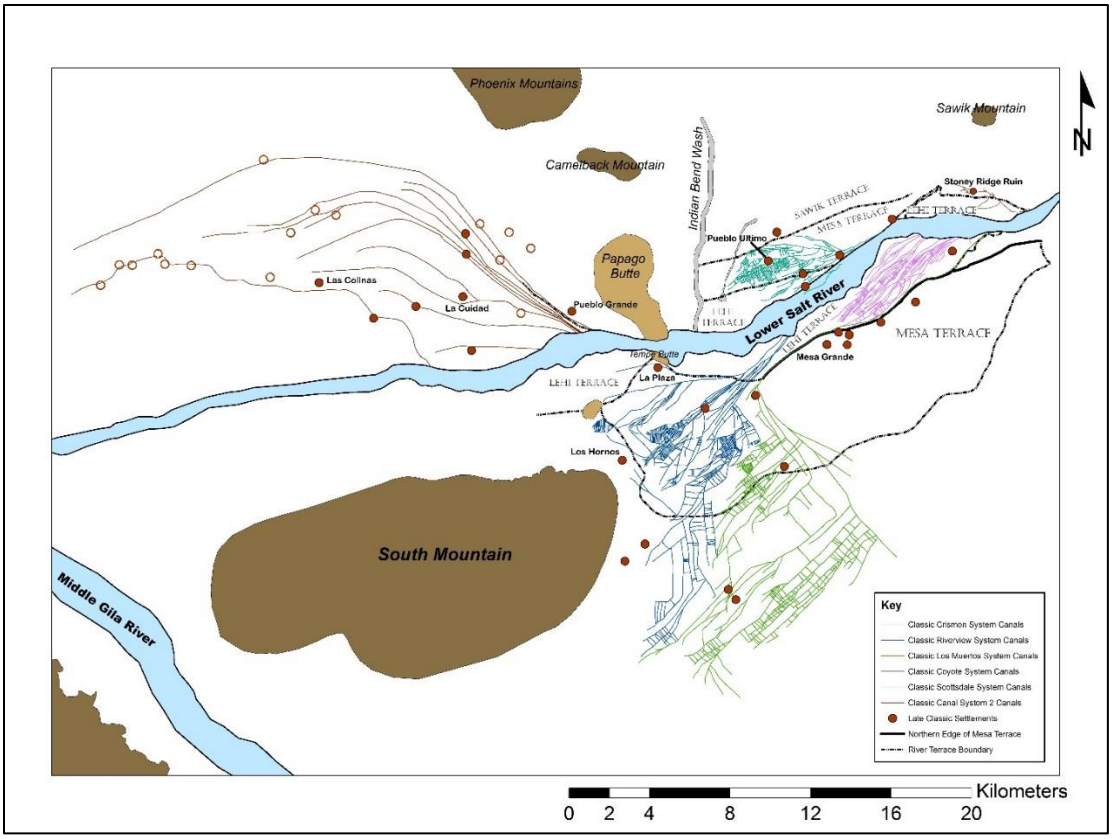


Figure 88. Hohokam irrigation systems in operation during the late Classic Period. Selected settlements are labeled for reference. River terrace boundaries from Pearthree and Huckleberry (1994). Note that river terraces west of Papago Butte become indistinguishable (Nials 1988:156).

Mesa terrace edge. Irrigation infrastructure and settlement retracted east and south in Canal System 2 to an extent similar to the Sedentary Period.

The growth of the Los Muertos System runs counter to the retraction and aggregation during the late Classic Period. The village of Los Muertos grew into a large platform mound village during the late Classic Period and controlled an expanse of agricultural land well beyond other villages inhabited at the time. The size of the Los Muertos village, as compared to important settlements like Mesa Grande and Pueblo Grande, tentatively suggests that a different kind of social organization existed in the Los Muertos System where agricultural yields were aggregated at the village of Los Muertos.

The relationship between the number of settlements and the amount of agricultural land during the late Classic Period, which involved multiple sites within the same agricultural area, suggests that a village should have been located along the eastern boundary of the Los Muertos System. The absence of a village in that area signals that the village of Los Muertos controlled an immense acreage of agricultural land. The ability of the village of Los Muertos to operate such a large system late into the Classic Period, as other systems declined, may have provided members of the village significant prominence among the remaining lower Salt River Valley populations.

Chronological data denoting the abandonment of main canals suggest that the social institutions structuring the irrigation systems began to breakdown during the late Classic Period (e.g., Huckleberry et al. 2018). Within Canal System 2, a large flood appears to have impacted irrigation by burying at least some main canals, leading to a partial abandonment of the system (Huckleberry 2015a). The absence of evidence for a reconstruction of the main canal and the location of occupied sites nearer to the river suggests that agricultural production shifted toward the river. The movement may have occurred to allow for less labor-intensive irrigation infrastructure that could be maintained by a small population (cf. Howard 1991).

On the south side of the lower Salt River, the Mesa Grande community continued to produce sufficient crops to support habitation late into the Classic Period, but the Crismon System may have reduced in size, and the population of the system likely decreased. The proximity of Mesa Grande to productive land near the river may have allowed some form of the Crimson System to persist despite a decreasing labor pool through only farming fields near the intake area. If the system did contract toward the

intake area, then the agricultural area would still have been at a reasonable distance from Mesa Grande to allow for access to those fields. The size of the system could therefore have gradually reduced as the population decreased, rather than abandoned, as occurred within Canal System 2.

The size of irrigation infrastructure surrounding the Los Muertos village and the distance from the intake area of the Los Muertos System indicate that the system may have been one of the last in operation within the lower Salt River Valley. The ability of the Los Muertos village to maintain such a large system when other systems were failing may have been a boon for the village. Households from other former systems may have contributed labor to the Los Muertos System in exchange for a share of the harvest (e.g., Watkins 2011). If so, it is plausible that much of the Los Muertos System labor pool were not formal members of the system (cf. Ostrom 1990).

Summary

This chapter provided detailed reconstructions of Hohokam irrigation systems in the lower Salt River Valley. The reconstructions provide the necessary data to estimate irrigated acreage for each system through time (see Chapter 5). This chapter began with two factors that profoundly affected irrigation development in the valley. The first was an extremely large flood that occurred sometime between the late Colonial and early Sedentary periods (ca. A.D. 900). That flood fundamentally altered the irrigation developmental trajectory by causing large-scale irrigation destruction across the valley. Irrigation infrastructure constructed after the flood was eventually much larger and more complex than before the flood. The second factor was standardized irrigation units (SIU). It is unclear when SIUs first arose and spread across the valley, but available evidence

confirms that the units were in use no later than the Sedentary Period. Until further evidence is documented, there is a possibly that they became the dominate irrigation methodology in the wake of the extremely large flood. An important characteristic of SIUs was they delivered water more efficiently and expanded easier than previous Hohokam irrigation models.

The chapter then turned toward irrigation system developmental histories. Beginning first with the four systems that were divided from Canal System 1 (i.e., Crismon, Sedimento, Riverview, and Los Muertos), and then proceeding with the other four major lower Salt systems (i.e., Coyote, Lehi, Scottsdale, and Canal System 2), each reconstructed developmental history was discussed in detail. The chapter concluded with a reconstructed developmental history at the scale of the lower Salt River Valley.

The literal redrawing of Hohokam irrigation in the lower Salt River Valley provides the necessary data for determining agricultural demand (Chapter 5). Knowing the sequence of when canals were in operation allows acreage estimates to be derived through time. Chronologically defined acreage demand made possible the water insufficiency analysis discussed in Chapter 7.

Notes

4.1 Woodson (2015) suggested that exceptionally large alluvial events in the Phoenix Basin should be termed differently from lower magnitude floods. He (Woodson 2015:182) states, "[a] "megaflood" is defined here as a very large flood that results in floodplain transformations, such as bank erosion, channel widening, and lateral channel shifting (Graf 1983, 1988; Huckleberry 1993, 1994, 1995b)." Although Woodson provides a precedent for using the term megaflood in reference to exceptionally large alluvial events, the term is not appropriate for riverine precipitation events (Gary Huckleberry, personal communication 2018). Among geologists, a megaflood is a short-term peak flow caused by the failure of a natural dam (e.g., weakend ice dam rupture; Baker 2009:504–505). These events are measured in 1 million cubic meters per second increments (a Sverdrup; ~35,000,000 cubic feet per second), magnitudes higher than any

known flood in the Phoenix Basin. I therefore assign the term "exceptionally large flood" to identify alluvial events that cause long-term changes to the stream, either geomorphologically (e.g., channel widening and lateral channel shift) or culturally (e.g., irrigation system abandonment caused by catastrophic flood damage).

4.2 The pottery assemblage of Stoney Ridge Ruin was not reanalyzed, but rather I relied on tabulated pottery type analysis forms found in the Center for Archaeology and Society Repository Site Files. The original Stoney Ridge Ruin analysis was supervised by Alfred Dittert, a Southwestern pottery expert and faculty member in the Department of Anthropology at ASU. Late Salado Polychromes were not defined at the time of the Stoney Ridge Ruin excavation. A reanalysis of the Stoney Ridge Ruin pottery assemblage may reveal the presence of late Salado Polychrome types.

4.3 Although within the proposed Canal System 2 boundaries (Howard 1990a, 1991), La Villa and Pueblo Salado received water from intakes downriver from the Canal System 2 intake. Ceramic exchange patterns during the early Classic Period revealed that Pueblo Salado social relations were stronger with settlements south of the lower Salt River than with Canal System 2 (Abbott et al. 2006:293). Abbott (personal communication, 2019) therefore suggests that La Villa and Pueblo Salado operated small, but distinct irrigation systems (the La Villa System and the Pueblo Salado System). This dissertation's focus was originally just reconstructing Canal System 1, but later incorporated the other irrigation systems discussed in this chapter to facilitate the water sufficiency analysis. That analysis relied on Howard's (1990a, 1993) Canal System 2 reconstruction for acreage estimates. Howard included La Villa and Pueblo Salado with Canal System 2, so I followed that decision. Including La Villa and Pueblo Salado with the Canal System 2 acreage estimate does not alter the water sufficiency analysis results because both settlements diverted water after Canal System 2 and irrigated relatively few acres. Water sufficiency trends identified for Canal System 2 are therefore applicable to La Villa and Pueblo Salado.

CHAPTER 5: PREHISTORIC IRRIGATION WATER DEMAND IN THE LOWER SALT RIVER VALLEY

Irrigated acreage was estimated in three phases prior to this dissertation research. The first phase correlated prehistoric acreage with historically reported acreage and canal lengths. The second phase turned to ancient canals seen on the surface to determine irrigated acreage. Prehistoric acreage focused cross-sectional area as a proxy for irrigated land totals. The third phase shifted acreage estimates away from canal measurements and toward proposed agricultural field locations. Rather than assuming all land along a canal was irrigated, the third phase used information about space between lateral canals and historic agricultural observations to suggest where fields were or were not located.

Several limitations to the past efforts were outlined. Excavations carried out since the first two phases have shown that irrigated acreage was not fixed as assumed but changed over time. Further, canal cross-sectional area could not be used to estimate acreage without knowing where agricultural fields existed. Finally, excavations and aerial photography revealed that agricultural production did not flank the length of canals but occurred at specific locations within standardized irrigation units. The shortcomings of the three phases and standardized irrigation unit ubiquity across the valley provides support for the development of a new estimation methodology.

Standardized Irrigation Unit Irrigated Acreage Methodology

Standardized irrigation units (SIU) provide a means for refining estimations of prehistoric irrigated acreage. This acreage methodology is an improvement to the buffer acreage method (see Chapter 2 for further discussion on the buffer acreage estimation method developed by Woodson (2010)) because it better pinpoints where agricultural

production occurred in irrigation systems along the lower Salt River (Figure 89). Rather than assuming all areas along a canal were irrigated, the SIU acreage methodology relies on identified agricultural locations.

A multi-step process was used to estimate irrigated acreage. Agricultural areas were first identified and measured for SIUs. The irrigated area of each SIU was determined by measuring the space between bifurcated canals or closely neighboring parallel canals. As depicted in Figure 90, a polygon followed the outline of the units, from bifurcations to terminus. The documentation of the field area at the PHX Sky Train Project area (Henderson 2015) provided evidence that fields likely extended from the point where the bifurcations occurred to the canal terminus.

Examination of aerial photographs suggested that SIUs were also created by linking main or bifurcated canals in close-proximity that were not paired through bifurcation (Figure 91). The irrigated area between parallel canals was determined by comparing the canal paths. A polygon was drawn when the close-proximity canals began to parallel each other and terminated when the canals appeared to follow divergent paths.

The area between each drawn polygon was aggregated by irrigation system and time period. The SIU acreage method provided results for the Crismon System, Riverview System, Los Muertos System, Lehi System, Scottsdale System, and Canal System 2 (see Table 4).

Although SIUs are well documented across the lower Salt River Valley, there are two important holes in the dataset. First, SIUs were not identified in the Coyote System. As discussed in Chapter 3, buried canals in the Coyote System were difficult to identify because the land had been a desert landscape in the historic aerial photographic series.

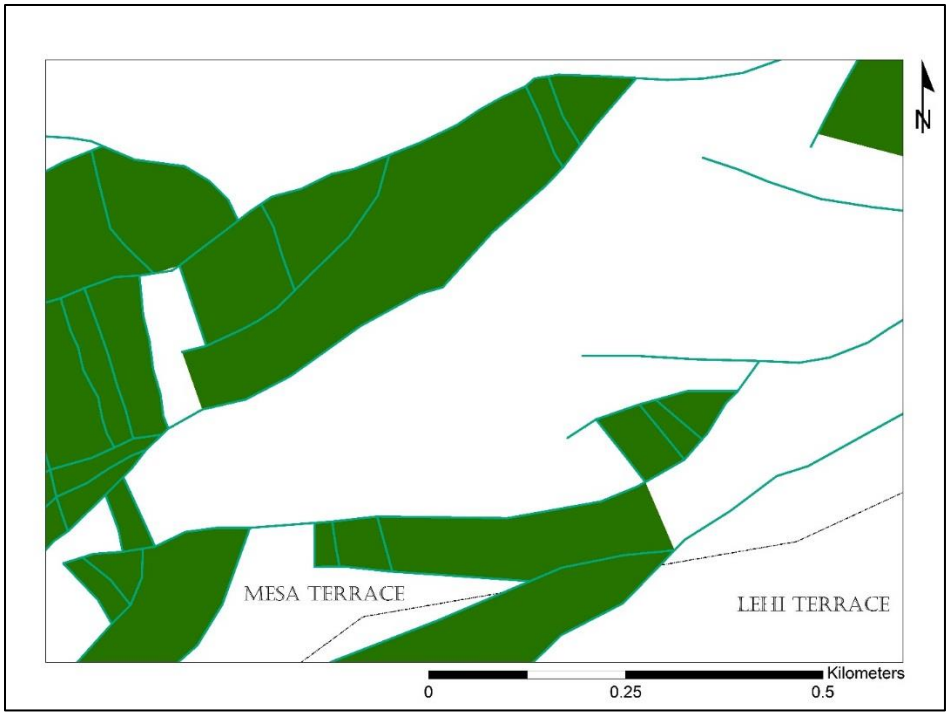


Figure 89. Example of agricultural field areas within the Scottsdale System during the Classic Period. Green shading denotes field areas. Aqua lines denote canals. White areas denote areas where agricultural production likely did not occur.



Figure 90. Example of the standardized irrigation unit field locations within the Crismon System during the Classic. Green shading denotes field areas. Light purple lines denote canals. White areas denote areas where agricultural production likely did not occur.

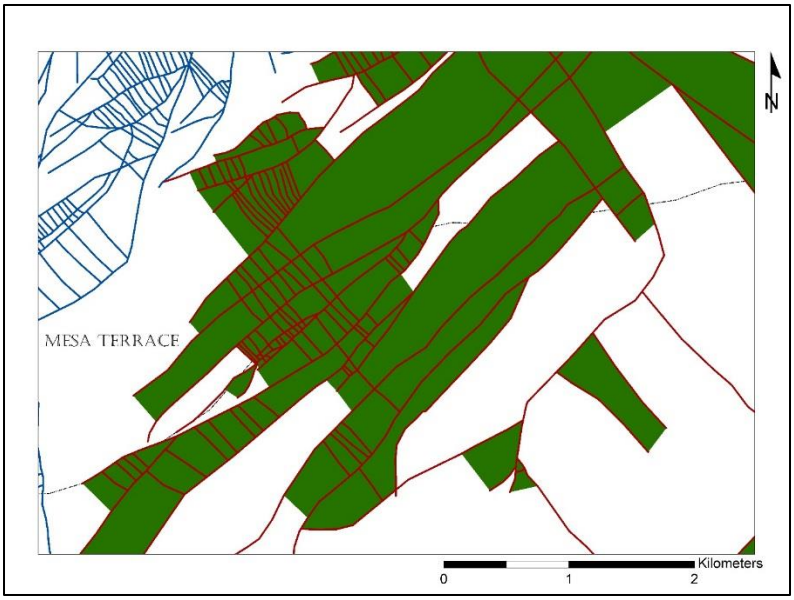


Figure 91. An example of standardized irrigation units formed from parallel canals in close proximity that did not bifurcate from the same canal (black arrows). Example from the Los Muertos System during the Classic Period (red lines). Green shading denotes field areas. Blue lines denote Riverview System canals. White areas denote areas where agricultural production likely did not occur.

Table 4. Estimated Irrigated Acreage Calculated with the Standardized Irrigation Unit Method.

System	Period	Standard Irrigation Unit Acres	Standard Irrigation Unit Hectares
Crismon System	Sedentary	660	267
	Classic	1020	413
Riverview System	Sedentary	1211	490
	Classic	4466	1807
Los Muertos System	Classic	7763	3142
Lehi System	Sedentary	2319	938
	Early Classic	2319	938
Scottsdale System	Sedentary	854	346
	Classic	854	346
Canal System 2	Pioneer	1477	598
	Colonial	6329	2561
	Sedentary	3048	1234
	Classic	5962	2413

Modern color photographs and a sketch map by Midvale (1964) were therefore consulted. These lines of evidence documented surface remains and large buried canals, but lacked indications of canal bifurcations and other aspects of SIUs. The prevalence of SIUs across the valley suggests that the irrigation method was probably employed in the Coyote System as well. A detailed investigation of the area would likely reveal SIUs.

Second, evidence for SIUs during the Pioneer and Colonial periods was not identified. Before the Sedentary Period, large main canals were shown to supply water to broad expanses of land (e.g., Canal Sedimento). The depth below ground surface to Pioneer and Colonial canals prevented their identification in historic aerial photographs. Instead, evidence for those canals was derived from cross-sectional documentation. Excepting the PHX Sky Train project, the necessary methodology (e.g., large-scale mechanical stripping in addition to trenching) to identify SIUs was not employed during excavation projects that documented Pioneer and Colonial canals. Until large-scale mechanical stripping is standard practice during excavation projects, it will remain unknown if the absence of SIU prior to the Sedentary Period is supported archaeologically or is an artifact of excavation methodology.

The holes in the data, coupled with the realization that agricultural production likely occurred at specific locations, necessitated the use of the buffer methodology to fill in the gaps of the SIUs and provide a range of acreage demands. Irrigation demand estimates based on the buffer method involved extending a buffer laterally 254 m on both sides of canals (Figure 92). The 254 m width was selected for the buffers because of the sample size used by Woodson's (2010) along the middle Gila River, historic evidence Woodson provided, and similarities to field widths calculated by Howard (2006). The



Figure 92. Example of 254-meter buffer (light green shading) applied to both sides of canals. These designations are used by the buffer method of irrigation demand estimation, following Woodson (2010). Note that the buffer was reduced in areas of geological features (dark gray shading). Example from the Riverview System during the Classic Period.

areas within the buffers were aggregated together by irrigation system and time period (Table 5).

Irrigation acreage estimates derived from the buffer method were consistently larger than the SIU method estimates. A ratio between the two methods was determined to fill in the gaps in the SIU dataset, and to provide an irrigation demand range.[5.1] For systems that had results for both methods, the irrigation demand of the SIUs was divided by the buffer irrigation demand. This division provided the ratio of SIU demand to buffer demand (Table 6). The ratios ranged from 0.13 to 0.60, with the majority falling between 0.22 and 0.35. The large difference between the minimum and maximum ratio values and

Table 5. Estimated Irrigated Acreage Calculated with the Woodson (2010) Buffer Method.

System	Period	Buffer Method Acres	Buffer Method Hectares
Crismon System	Pioneer	976	395
	Colonial	1482	600
	Sedentary	3047	1233
	Classic	3451	1397
Sedimento System	Pioneer	740	300
	Colonial	3023	1224
Riverview System	Sedentary	9409	3808
	Classic	14221	5755
Los Muertos System	Classic	15975	6465
Lehi System	Sedentary	8637	3495
	Early Classic	8637	3495
Coyote System	Pioneer	175	71
	Colonial	175	71
	Sedentary	1064	431
	Classic	1064	431
Scottsdale System	Colonial	538	218
	Sedentary	3868	1565
	Classic	3867	1565
Canal System 2	Pioneer	5154	2085
	Colonial	10596	4288
	Sedentary	9866	3992
	Classic	17216	6967

the more central range led to the selection of the median ratio of 0.29 as the value to calculate missing SIU acreage values. The missing values were therefore calculated by multiplying the buffer irrigation demand by 0.29.

Table 6. Ratio of Standard Irrigation Unit and Buffer Acreages.

System	Period	Standard Irrigation Unit Acres	Buffer Method Acres	SIU/Buffer Ratio
Crismon System	Sedentary	660	3047	0.22
	Classic	1020	3451	0.30
Riverview System	Sedentary	1211	9409	0.13
	Classic	4466	14222	0.31
Los Muertos System	Classic	7763	15975	0.49
Lehi System	Sedentary	2319	8637	0.27
	EarlyClassic	2319	8637	0.27
Scottsdale System	Sedentary	854	3868	0.22
	Classic	854	3867	0.22
Canal System 2	Pioneer	1477	5154	0.29
	Colonial	6329	10596	0.60
	Sedentary	3048	9866	0.31
	Classic	5962	17216	0.35
			Min	0.13
			Max	0.60
			Median	0.29
			Mean	0.30

Hohokam Irrigation Demand Through Time

Irrigation acreage estimated through the SIU and buffer methods provided different characterizations of demand in the lower Salt River Valley from the one given by Howard (1993, 2006). The results of the methods did agree with Howard's suggestion that the largest amount of irrigated land occurred during the Classic Period, but the values were considerably different. Table 7 provides irrigation demand for each irrigation system and the entire valley through time. Rather than 95,000 acres during the Preclassic and 112,000 acres during the Classic, as suggested by Howard (1993, 2006), the upper

Table 7. Lower Salt River Valley Irrigation Demand by Irrigation System by Period.*

System	Period	Standard Irrigation Unit Acres	Standard Irrigation Unit Hectares	Buffer Method Acres	Buffer Method Hectares
Crismon System	Pioneer	283	115	976	395
	Colonial	430	174	1482	600
	Sedentary	661	267	3047	1233
	Classic	1020	413	3451	1397
Sedimento System	Pioneer	215	87	740	300
	Colonial	877	355	3023	1224
Riverview System	Sedentary	1211	490	9409	3808
	Classic	4466	1807	14222	5755
Los Muertos System	Classic	7763	3142	15975	6465
Lehi System	Sedentary	2319	938	8637	3495
	Early Classic	2319	938	8637	3495
Coyote System	Pioneer	51	21	175	71
	Colonial	51	21	175	71
	Sedentary	309	125	1064	431
	Classic	309	125	1064	431
Scottsdale System	Colonial	156	63	538	218
	Sedentary	854	346	3868	1565
	Classic	854	346	3867	1565
Canal System 2	Pioneer	1477	598	5154	2086
	Colonial	6329	2561	10596	4288
	Sedentary	3048	1234	9866	3993
	Classic	5962	2413	17216	6967
LSRV	Pioneer	1974	799	6870	2780
	Colonial	7842	3174	15814	6400
	Sedentary	8456	3422	36081	14601
	Early Classic	22747	9205	64623	26152
	Late Classic	20428	8267	55986	22657

* Note: Red text denotes acreage derived from SIU/Buffer ratio (0.29).

end of the irrigation demand range was less than 70% of Howard's estimate (compare Howard's values to those in Table 7). Further discussion about the implications of the irrigated acreage trends are given in Chapters 7 and 8.

The examination of changes to irrigation demand between periods provided intriguing results. Between the Pioneer and Colonial periods, irrigation demand grew by 397%. This increase was the largest increase by acreage irrigated percentage during the entire Hohokam cultural sequence. Unlike later periods, it was driven by the significant expansion of existing irrigation systems. Later increases were caused by both the expansion of in-operation irrigation systems and the construction of new systems.

The smallest growth of irrigation demand occurred between the Colonial and Sedentary periods. Irrigation demand grew by only eight percent. Although the number of irrigation systems increased, it appears that agricultural land in use after the late Colonial/early Sedentary extremely large flood was more widely dispersed across the lower Salt River Valley than during the Pioneer and Colonial periods. The small area of newly established/reestablished agricultural land and a reduction in Canal System 2 irrigated acreage appears to have reduced the increase in demand growth in the valley during the Sedentary Period. In essence, the extremely large flood reset agricultural production, necessitating a multi-generational recovery.

The largest increase in total acreage occurred between the Sedentary and early Classic periods. The operation of all documented irrigation systems increased demand by 14,291-28,542 acres (5783-11,551 ha).

Rather than following the trajectory of increasing irrigation demand, agricultural acreage decreased slightly between the early Classic and late Classic period. The change

in irrigation demand is difficult to determine, since the amount of agricultural land cannot be differentiated between the Sedentary and early Classic periods in the Lehi System, and the early Classic and late Classic periods in the Los Muertos System. Despite irrigation demand ambiguity for those two systems, the abandonment of the Lehi System would have offset acreage increases in the Los Muertos System.

A surprising result was that acreage increases did not occur evenly across the lower Salt River Valley. During the Pioneer and Colonial periods, most agricultural land was concentrated within Canal System 2. Canal System 2's relatively early expansion led to the system accounting for 75% of irrigation demand during the Pioneer and 67% during the Colonial in the valley.

The aggregation of lower Salt River Valley irrigation demand in Canal System 2 ended during the transition into the Sedentary Period. The reduction in agricultural area in Canal System 2 was paralleled by the expansion of agricultural production elsewhere in the valley (facilitated by factors that were not evident among within data analyzed). Irrigation infrastructure growth upriver from Canal System 2 reduced the system's irrigation demand to 27% of valley-wide demand. Despite the increase in agricultural area in Canal System 2 during the Classic Period, the system remained 27% of the valley-wide demand. Agricultural production expansion upriver from Canal System 2 reduced the proportional effects of that system's growth during the Classic. Period.

The importance of the Los Muertos village is born out when acreage surrounding it is compared to other Classic Period settlements. Canal System 2 contained the most agricultural land of any lower Salt River irrigation system during the Classic Period, but irrigation demand was divided among multiple sites. As shown in Chapter 4, up to 25

settlements were occupied in Canal System 2 during the early Classic Period and eight during the late Classic Period. Conversely, only three or four settlements (Los Muertos, Las Acequias, Mesa Grande, and U:9:76 [ASU]) had agricultural land in the Los Muertos System during the Classic Period. Dividing Canal System 2 acreage by the number of its settlements, the per settlement demand is 238-689 acres (97-278 ha) during the early Classic Period and 745-2152 acres (302-871 ha) during the late Classic Period.[5.2] Dividing Classic Period Los Muertos System acreage by four sites, the per settlement acreage would be 1941-3994 acres (786-1616 ha).

As discussed in Chapter 4, Los Muertos village was unique among late Classic Period sites along the lower Salt River. Unlike settlements in other irrigation systems, Los Muertos village was bordered by a relatively large amount of agricultural land and very few sites. Of those sites, Las Acequias was very small, containing a single adobe compound, and Mesa Grande held land in other systems (i.e., Crismon System and possibly the Riverview System). Most agricultural land in the Los Muertos System therefore must have been associated with Los Muertos village.

Summary

This chapter provides the methodology used to estimate prehistoric irrigation demand. Irrigation demand was determined based on the amount of irrigated acreages within each irrigation system. The aspect that differentiated the current acreage approach from previous attempts (see Chapter 2) is the emphasis toward eliciting acreage based on where agricultural production likely occurred. Standardized irrigation units (SIU) currently date to only the Sedentary and Classic periods, so the buffer methodology developed by Woodson (2010) was also used to estimate acreage. The buffer method was

selected to supplement acreage estimation because it is also based on where Hohokam agricultural production may have occurred.

Polygons were drawn around SIU field areas to calculate SIU acreage within each irrigation system for each cultural period. A 254 m buffer was then applied to each side of canals in each system to find the buffer acreage for each cultural period. SIU irrigated acreage could be calculated for only the Sedentary and Classic periods, so a ratio between SIU and buffer acreage estimates was derived. The ratio, found for irrigation systems with both SIU and buffer acreages, allowed SIU acreage estimates to be projected for the Pioneer and Colonial periods.

Finally, the chapter discussed irrigated acreage trends through time. Of note, the acreage estimates highlighted two episodes of significant agricultural production growth. The first occurred between the Pioneer and Colonial periods, and the second expansion took place between the Sedentary and early Classic periods. The implications of these profound expansions are explored in Chapters 7 and 8.

Notes

5.1 As mentioned in Chapters 4 and 8, the first use of standardized irrigation units (SIU) in the lower Salt River Valley is not known. Fields dated during the Sky Harbor Sky Train project demonstrate that SIUs were in operation by A.D. 1000-1100 (Schaafsma 2015). Fields systems with similar layouts as the SIU have been uncovered in the Tucson Basin. Tucson sites, like the Early Agricultural period (1200 BC – A.D. 50) site of Las Capas (Mabry 2008), provide evidence that highly integrated canal networks began a millennium or more before the fields in the Sky Harbor Sky Train project area were in use. Although SIUs dating to the Pioneer and Colonial periods have not been found in the valley, the mechanical stripping methodology necessary to find SIUs was only first used during the Sky Harbor Sky Train project. Given the antiquity of integrated canal networks in the Tucson Basin, it is reasonable to assume that SIUs dating to the Pioneer and Colonial periods will come to light. The stripping method used during the Sky Harbor Sky Train project therefore must become a part of standard archaeological excavation procedures.

Further, relying on a single acreage estimate value, as Howard (1993, 2006) had previously done, would have made the sufficiency analysis (Chapter 7) a presence/absence problem. Was there enough water to meet demand, yes or no? Having an acreage estimate range allowed me to ask if there was enough water for the high acreage estimate (buffer method), yes or no, and was there enough water for the low estimate (SIU method), yes or no. If the water sufficiency analysis results were consistently yes and yes or no and no, then a single value would be suitable, but this did not occur during the analysis. Several water depth and time period scenarios produced no for buffer acreage estimates, but yes for SIU acreage estimates. This tells me that based on my study parameters that water demand could have been met somewhere between the max and min acreage estimates. I am able to suggest that at least some irrigators were likely receiving enough water to irrigate their fields, rather than coming to a deficit conclusion, as Howard previously contended. Thus, relying on a single acreage estimate likely would have produced results in line with Howard's work leading to a perpetuation of the disconnect between water sufficiency results and the lower Salt River Valley archaeological record.

5.2 The number of sites, rather than settlement area, is used because settlement information is highly fragmented. Unlike the distribution of settlements across the lower Salt River Valley, settlement area through time for each site is unknown. Ephemeral construction material (e.g., adobe) and limited excavation extent within Hohokam sites, makes settlement area estimates purely speculation. The number of sites is therefore a more reliable variable than settlement area. See Note 8.1 for further discussion about Hohokam settlement and population limitations.

CHAPTER 6: WATER AVAILABILITY FOR PREHISTORIC IRRIGATION IN THE LOWER SALT RIVER VALLEY

It is necessary to examine water availably and demand before determining water sufficiency over time (Chapter 7). This chapter analyzes the former. Previous studies of lower Salt River streamflow (e.g., Graybill 1989; Graybill et al. 2006; Hirschboeck and Meko 2005; Nials et al. 1989) allowed for a more refined reconstruction of streamflow during the Hohokam cultural sequence.

The focus of this chapter is the methodology used to derive monthly discharges from annual reconstructed streamflow. Constraining my analysis of water sufficiency to key points in each agricultural cycle necessitated the development of a method for dividing annual flows into monthly contributions. Assumptions of the comparability between the historic period and Hohokam cultural sequence are then tested. The results show that the historically derived monthly estimates to provide prehistoric values are reasonable. Finally, implications for the monthly streamflow estimation results are provided.

Inferring Prehistoric Monthly Streamflow from the Historic Record

The inability to reconstruct prehistoric streamflow discharges at a more fine-grain level than bi-seasonally with dendrohydrology (see Chapter 2) necessitated the use of a different methodology for this dissertation research. The method employed to reconstruct the monthly streamflows utilized records of historic monthly discharge. Streamflow discharge records within the lower Salt River watershed date back to the late 1800s. However, the earliest records were spotty (e.g., streamflow discharge was not measured

consistently over time), and limited (e.g., discharges not documented for all major contributors of lower Salt flow) until 1946.

Data from three US Geological Survey (USGS) gages were combined into a single dataset to determine the historic monthly streamflow of the lower Salt River. The damming of waterways that supplied the lower Salt began in the early 1900s (Zarbin 1984), but consistent daily records from gages above the dams on the three major tributaries did not start until 1946. The USGS gages used for this dissertation (previously utilized by Graybill and colleagues [see Graybill et al. 2006:Table 5.2]) were the Verde River below Tangle Creek (09508500), Tonto Creek above Gun Creek near Roosevelt (09499000), and the Salt River near Roosevelt (09498500) (Figure 93). The operational years of each gage (at the time of data collection for this dissertation research) were: Verde River 1946 – 2015, Tonto Creek 1941 – 2015, and Salt River 1914 – 2015. Adding gages as they began operation would skew the dataset since the Salt River gage became operational 27 years before the Tonto Creek gage, and 32 years before the Verde River gage. Therefore, streamflow records from only 1946 and after were used to reconstruct monthly discharge trends.

The historic Salt River flow analysis that Graybill and colleagues (Graybill 1989; Nials et al. 1989) conducted used discharge data from only two gages, Verde River below Tangle Creek (09508500) and Salt River near Roosevelt (09498500). During the excavation project at Las Colinas, Graybill (1989) did not include Tonto Creek above Gun Creek near Roosevelt (09499000) because of perceived gage record inaccuracies. Subsequent work has since shown that the concern was unwarranted (Graybill et al. 2006:75). Graybill and colleagues (Graybill et al. 2006) subsequently used Tonto Creek

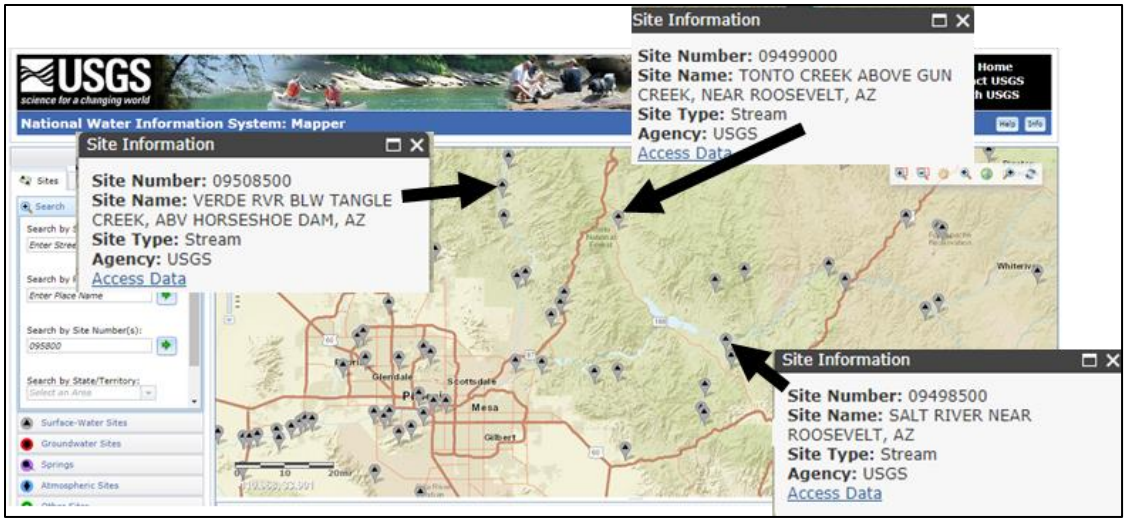


Figure 93. USGS streamflow gage locations used for the reconstruction of historic monthly percentage of annual Salt River discharge.

flow data for their updated streamflow calculations. As stated in Chapter 2, Graybill and colleagues did not provide raw data with their later discharge work. Calculating the contribution of each of the lower Salt River tributaries between 1946 and 1969, revealed that Tonto Creek provided 10% of the lower Salt flow. It was reasoned that excluding the non-negligible Tonto Creek discharge did not adequately characterize monthly flows of the lower Salt.

Three steps were used to calculate the percentage of annual flow that occurred during a particular month during the historic period (see Appendix A). The percentage contribution of each month toward the total annual flow was determined as follows. First, for each gage, the daily acre-foot discharges were added together for the same month and year. This summation equals the total discharges for each month (e.g., January 1950) for a particular gage. Second, across all three gages, the discharges were summed for each of the 12 months for the interval between 1946 and 2015. These totals represent the

amalgamated discharge across all three gages for each month of the year. Then, the summed value for each month was divided by the historic range annual total.

For example, consider the month of February, at the time of planting maize. In February 1946, the Verde River gage recorded 14,710 acre-feet (af), the Tonto Creek gage recorded 1110 af, and the Salt River gage recorded 13,630 af. Added together, the February 1946 flow was 29,450 af. Summing all February discharge values between 1946 and 2015, 10,953,170 af was calculated. That monthly total divided by the annual total (78,265,916 af) equated to 0.14. The average monthly contribution of February discharge to the annual flow in the Salt River was 14%.

Verifying the Comparability of Historic Trends and Prehistoric Estimates

A final topic that must be addressed is one of assumptions underlying the monthly streamflow estimates. Underlying streamflow reconstructions produced by Graybill (1989; Graybill and Nials 1989) is that precipitation patterns are not drastically different between the Hohokam cultural sequence and the historic period. Graybill and Nials (1989:8) state,

> Another basic assumption made here is that, despite the dynamic nature of climate, both temperature and precipitation have been relatively stationary processes over the past 1500 to 2000 years. Expressed in other terms, both the mean and the variance of these processes can be expected to have taken only brief and limited excursions away from their longer term "normal" characteristics. The authors are unaware of significant climatic change that is, a sustained period or periods of substantially different climatic conditions-in this region during the times of interest.

The quoted text demonstrates that Graybill and Nials found no evidence for streamflow inputs differing between the prehistoric and historic. Graybill (1989) instead showed a positive correlation among summer and winter split tree ring discharge estimates and observed streamflow. Due to the limitations that structured Graybill's analyses (see

Chapter 2), it was not known if the assumption of comparability between prehistoric estimated and historic observed streamflow discharges was justified at the month timescale.

I approached the question of comparability by addressing two assumptions.[6.1] The first assumption is that the tree ring data and the estimates of monthly flows derived from them match, to an acceptable degree, with USGS gage-recorded streamflow discharges (Robert Hunt, personal communication 2019). To test for a correspondence, I turned to a correlation analysis of the historic discharges for the 1946-1979 interval and the tree ring-derived estimates for those 34 years. A plot of the dataset (Figure 94) includes paired values for the gage-measured discharges on the X axis and the tree ring estimates on the Y axis. Because the dataset includes the 12 months for 36 years, 432 points are plotted. A correspondence between the gage reading and the tree ring estimates would be manifest by a pronounced linear configuration – a pattern that is decisively not apparent in the scatterplot.

It would be unwise, therefore, to accept estimates for a specific month in a particular year as anything approaching reliability. Nevertheless, by averaging the discharges from 1946-1979 for each of the 12 individual months, we can strip away the noisy variability pertaining to specific monthly discharges to reveal a clear linear relationship between the recorded average monthly historic streamflows and those predicted with the average monthly estimates based on the tree ring data. An especially strong correspondence is observed (Table 8; Figure 95; Pearson's $r^2 = 0.87$).

Table 8. Monthly Averages for Correlation Analysis.

Month	Tree Ring Average Y-axis	Gage Average X-axis	Residual Y-X	% Over (Y-X) / X	
Jan	118446.8	46733.8	71713.0	153	
Feb	122385.9	43988.2	78397.7	178	
Mar	182311.7	93338.7	88973.1	95	
Apr	122589.1	80923.7	41665.5	51	
May	55061.4	34796.8	20264.6	58	
Jun	20884.8	12912.4	07972.4	62	
Jul	21842.0	12738.8	09103.1	71	
Aug	45091.9	27567.8	17524.1	64	
Sep	33580.5	19369.3	14211.2	73	
Oct	38586.4	24081.4	14504.9	60	
Nov	35705.8	21877.4	13828.5	63	
Dec	78022.5	48077.8	29944.6	62	
				63.5%	Median

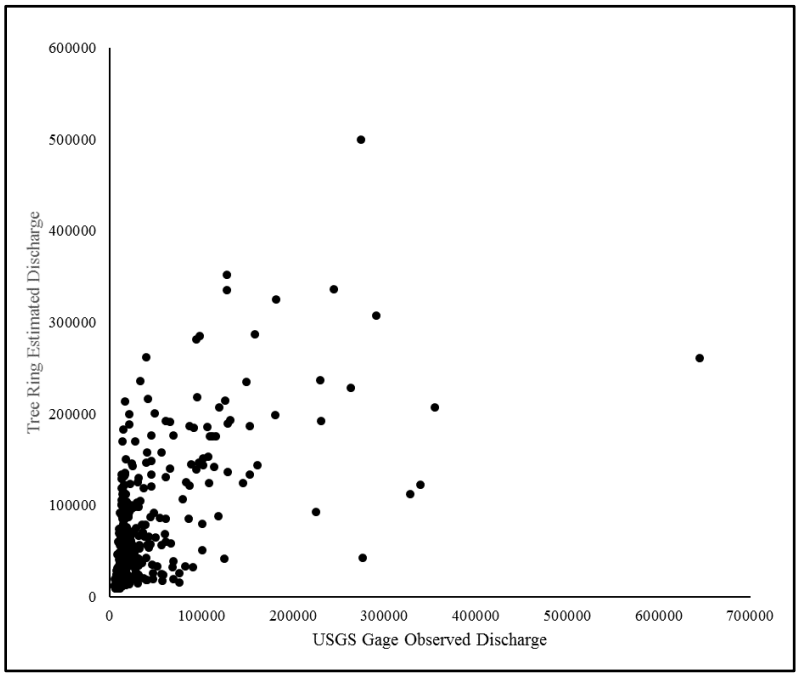


Figure 94. Scatterplot comparing monthly tree ring estimates and monthly gage observed discharge for historic Salt River streamflow.

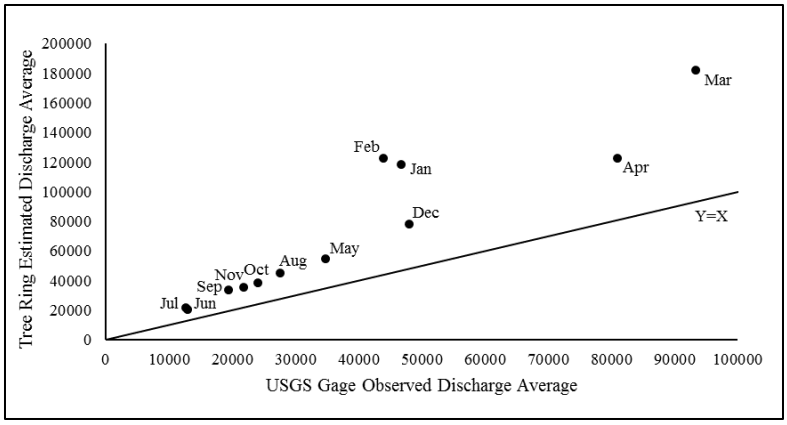


Figure 95. Scatterplot comparing tree ring estimated discharge averages and gage observed discharge averages for historic monthly Salt River streamflow.

The takeaway determination from the correlation analysis is about accuracy and scale. We cannot expect a tree ring estimate to be a reliable predictor of monthly streamflow at an individual level. Instead, we can be secure that the discharge trends revealed with the tree ring method are agriculturally relevant.[6.2]

The second assumption is that monthly discharge patterns were stable over time (Christopher Carr, personal communication 2020). The Graybill and Nials (1989:8) quote inserted above speaks to the point, but does not resolve the issue entirely. An aspect of the assumption that has not been previously tested is the equivalence of month-to-month patterning between the Hohokam cultural sequence and the historic period.

Equivalency was assessed through a simple comparison of summer to winter tree ring estimate ratios over time. Aggregating and then averaging the split ratio by period provided unambiguous results (Table 9). The mean ratios for the different time periods are extremely similar, implying that they correspond to a stable sreamflow regime, including both the prehistoric and historic periods. And, as depicted in Table 8, the mean ratio for the historic period is nearly identical to the Colonial and Sedentary values. Moreover, the historic value sits in the middle of the distribution, suggesting an

equivalence between the monthly discharge pattern for the streamflows of the Hohokam and historic eras.

Table 9. Summer/Winter Streamflow Split Mean Ratios by Period.

Period	Interval	Sum of Ratios	Total Years	Mean of Ratios	
Pioneer	740-799	148	59	25.1	
Colonial	800-999	5185	199	26.06	
Sedentary	1000-1099	2587	99	26.13	
Early Classic	1100-1299	5129	199	25.77	
Late Classic	1300-1370	1920	70	27.43	
Historic	1946-1979	861	33	26.09	
Order of Mean Ratios					
25.1	25.77	26.06	26.09	26.13	27.43
Pioneer	Early Classic	Colonial	Historic	Sedentary	Late Classic

Streamflow Indications

The sequence of annual streamflow percentages by month provides intriguing indications of the kind of constraints that the Hohokam may have faced. The first indication is the amount of water available during the first agricultural cycle. It was fairly consistent when irrigation was needed.

The second indication is that the second agricultural crop was likely minimal. Asymmetric monthly lower Salt River streamflow resulted in approximately 70% more water available during the first cycle (14% of annual flow during both key points) than during the second cycle (5% of annual flow during planting and 4% during silking). It is therefore likely that Hohokam farmers would have noted this glaring disparity in water availability and attuned their agricultural production accordingly. Perhaps, lower Salt farmers planted their fields in preparation for receiving some water and planted less acreage or expected most of the second crop to fail. Testing both scenarios is beyond the

scope of this study, so they are not explored further, but could be a path for future research.

Hunt and Ingram (2014) place the beginning of the second planting toward the end of July, but it is possible that the planting did not begin until August. Measurements of depth to the top of the lower Salt River Valley water table, made in the late 1800s (Lee 1905), documented the flow of the lower Salt River descending below the ground surface leading up to the start of the summer monsoon in the headwater area of the river. Unless weather patterns shifted to allow for the start of monsoons during July, sufficient water for the resurfacing of the lower Salt likely did not occur until August (Figure 96). Irrigating prior to planting the second crop in August and again at the beginning of October before silking would have allowed for the second harvest prior to frost conditions.

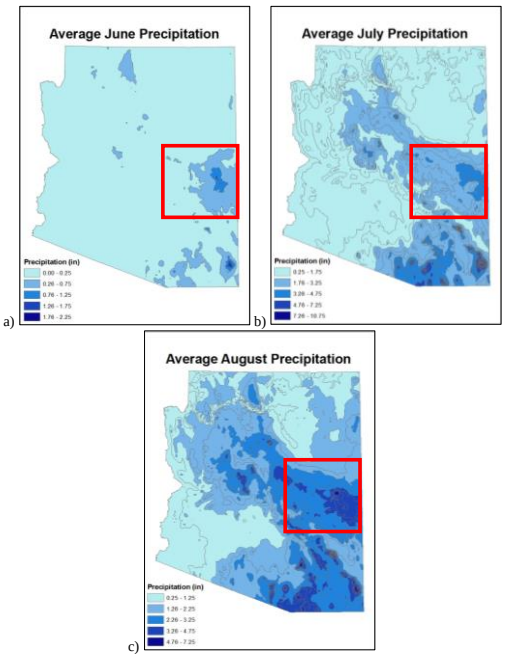


Figure 93. Average monthly precipitation amounts for the headwaters of the lower Salt River (red box) during June (a), July (b), and August (c). Note that August precipitation corresponds with the second agricultural cycle planting. Maps provided by the Arizona State Climate Office (https://azclimate.asu.edu/weather/state-tempprecip/).

Reconstructed Prehistoric Monthly Streamflow during Hohokam Cultural Sequence

The process for determining lower Salt River streamflow over the Hohokam cultural sequence was straight forward. Each retrodicted annual streamflow (Graybill 1989; Meko and Hirschboeck 2008) was multiplied by each month's percentage of flow. Appendix B provides river discharges between A.D. 740 and 1450, for agricultural cycles 1 and 2. These discharge values formed the water availability portion of the water sufficiency analysis.

Summary

This chapter discussed the steps taken to calculate prehistoric lower Salt River monthly streamflow discharge. The chapter began by identifying the three river gage dataset used to compile historic lower Salt River streamflow between 1946 and 2015. Next, four steps were designed to calculate monthly discharge. First, daily flows were aggregated into a monthly total. Second, for each month of the year, the monthly flows were summed to calculate the total flow for that month for the period between 1946-2015. Third, for each month, the total monthly flow between 1946 and 2015, was divided by the annual total during the 1946-2015 interval, giving by-month percentage of average annual streamflow. Fourth, assumptions associated with the correspondence between prehistoric estimated and historic observed discharges were tested. The results showed that the application of historic streamflow trends to prehistoric estimates was justified. The chapter then turned to two streamflow indications. Water was found to be relatively abundant during the first agricultural cycle, and much less for the second cycle crop, when the crop was likely small. Finally, the methodology used to calculate prehistoric

monthly flows was outlined. Each month's percentage of average annual flow was multiplied by each annual streamflow value between A.D. 740-1450, to provide monthly discharge values. These values are used as the water availability variable in the water sufficiency analysis discussed in Chapter 7.

Notes

6.1 The Palmer Drought Severity Index (PDSI) has gained traction in the modeling of past climatic conditions in North America (e.g., Cook et al. 2010; Hard et al. 2015:242; Seager et al. 2009). Precipitation patterns are vital for understanding growth success (e.g., was there a drought to inhibit successful yields) for agrarian societies that practiced rain-fed agriculture. The reliance of rain-fed agriculture on moisture deposited from the sky provided researchers justification to approximate tree ring growth patterns, and thus precipitation levels, with agricultural success. In this scenario, the underlying assumption of PDSI is that annual precipitation patterns are reflective of available water during key points in the agricultural cycle.

As argued here, annual estimates of water availability are not good proxies for agricultural success. PDSI provides indications of trends in atmospheric moisture, but cannot answer if there was sufficient precipitation during key points in a growing season. I therefore forgo the use of PDSI to understand monthly streamflow variability. A monthly PDSI would have to be developed before PDSI models would be informative for variability in agricultural cycle streamflow.

6.2 There is a second result corresponding to the linear plot. An approach that produces unbiased estimates of the actual streamflows should calculate estimated values similar to the gage-recorded values. In the linear graph (see Figure 95), the scatter of points should cluster around the line Y=X, which has a slope of 45 degrees. Unfortunately, the points are all above that line. The estimates are biased. They consistently over-predict the amount of water by about 65% (see Table 8). Although, two months, January and February, are extreme outliers. They over-predict by more than 100%, due to multiple outlier years.

Because the overestimates are generally consistent (~65%), introducing a correction factor would be straightforward and in line with the annual reconstructed streamflow methodology used by Graybill (1989). Nonetheless, they could lead to substantial changes in interpretation. But, there is an upside. As noted in Chapter 5 a reduction of acreage planted in maize may be expected in future studies. The effect of reducing the acreage is a reduction in the likelihood of water deficits. In contrast, the effect of correcting the water supply would be less water and, thus, more likelihood for deficits. In this way, the effects of the two corrections would tend to cancel each other out. Determining if they do cancel is a topic for follow-up research.

CHAPTER 7: ESTIMATION OF IRRIGATION WATER SUFFICIENCY AS A MEASURE OF HOHOKAM AGRICULTURAL SUCCESS

This chapter presents the water sufficiency analysis. It begins with the water depth applied to fields. The range of depths necessary for successful agricultural production is from 1 to 4 acre-feet. Water depth is a crucial factor because it affects the acreage extent the water supply can irrigate. It is therefore considered in detail. Next, the monthly water supply results for the planting and silking of each of the two crop cycles each year (Chapter 6) are compared to the corresponding water demand estimates (Chapter 5). The comparisons determine if the lower Salt River farmers in each irrigation system had water sufficiency or a deficit for each of the two crop cycles each year. For these analyses, the available water is reduced by each irrigation system's demand, in system order down the lower Salt, until all systems have met demand and water continues to flow in the river, or all water is diverted. A final inquiry into water insufficiency is carried out by examining multi-year deficits. The water surplus and deficit determinations across irrigation systems and across time are then analyzed to highlight fascinating trends. In so doing, four particularly salient insights are gained pertaining to: (1) the significance of water deficiency for shaping the course of Hohokam cultural development; (2) the effects of an expanding hydraulic infrastructure and increasing water demand over time for the irrigation systems in the lower Salt River Valley; (3) a contrast of results based on the SIU and buffer methods for estimating irrigation acreage; and (4) the substantial advantage enjoyed by Canal System 2 farmers because of a geographic anomaly.

Determining Irrigation Water Application Depth

The amount of irrigation water that the Hohokam applied to their fields is a matter of serious debate, which, as shown below, impacts the analytical results and the interpretations derived from them. Water depth, which is discussed in acre-feet (af), is the volume of water applied to an acre of land. Acre-feet are used instead of hectare-meter, following established precedent for reconstructing lower Salt River streamflow (Graybill 1989; Graybill et al. 2006; Graybill and Nials 1989) and Hohokam irrigation sufficiency studies (Haury 1976; Howard 1990, 1993a; Howard and Huckleberry 1991; Hunt 2007, 2017; Woodson 2010). Determining the water depth applied to agricultural land is imperative because it affects the amount of acreage that could be irrigated by available streamflow. For example, 1 af demand could irrigate twice as much land as 2 af. Previous attempts to determine agricultural success in the Phoenix Basin have suggested a range of depths.

Howard (2006:44) contended that two water depths affected agricultural success. The minimum depth to bring crops to maturity was 2 af each water application, because lesser depths would not reach the base of the root zone. The lower Salt River soluble chemistry created a further hindrance to successful production. Repeated application of water from the lower Salt to an agricultural field had the potential to decrease productivity through increased salinization (Howard 2006:44, personal communication 2018; cf. Jacobsen and Adams 1958). Howard, therefore, proposed that 4 af were applied to the Hohokam fields annually to flush away accumulated salts.

In an agricultural production analysis for the middle Gila River, Hunt (2007, 2017) linked water depth to key points in the agricultural cycle. Integrating water demand

at planting and silking (Hunt and Ingram 2009, 2013), Hunt (2007) proposed 1 af was needed at planting and 2 af at silking to ensure a fruitful agricultural yield. These depths were said to be "ideal" requirements at each key stage in maize maturation.

Woodson (2010:155) suggested an alternative irrigation water depth. Following insights derived from historic irrigation (Ackerly et al. 1987:12; Nials et al. 1989:70), Woodson (2010:155) stated successful agricultural production required at least 3.75 af during each water application. He selected this depth because that volume of water would at least produce a "suboptimal" yield. Consistent successful yields would have therefore necessitated larger water volumes.

Several water volumes applied to Hohokam fields were previously proposed, ranging from 1 to 4 af. For the present study, the frequency of years when irrigation systems did not meet water demand was examined for 1 to 4 af, because there was no clear rationale for choosing among them.

Methodology for Analyzing Water Sufficiency

The methodology used to determine water sufficiency involved multiple steps, but it followed a repeatable and straightforward progression.[7.1] The first step involved ordering irrigation systems by their position down the lower Salt River during each period. The Coyote System was always the first system to divert water from the lower Salt through time. Similarly, Canal System 2 was always the last system downriver. Between the relative position of those two systems, the irrigation system progression differed by time (Table 10). For example, the second system to divert water was the Crismon System during the Pioneer through Colonial periods, the Lehi System during the

Sedentary through early Classic periods, and the Los Muertos System during the late Classic Period.

For the second step, a 10% reduction correction factor was applied to the total amount of available water to account for water lost in canals caused by evaporation and seepage. Although Hohokam researchers have suggested water loss as high as 50% (Hunt 2007), a 10% loss is more common in irrigated acreage estimates (e.g., Howard 1990:88–89, 1993b; Woodson 2010:130), based on accounts of historic canals. The water loss correction reduces the amount of available water before the first system (i.e., Coyote System) by 10%.

Table 10. Irrigation System Order Along the Lower Salt River by Hohokam Chronological Period.

System Order	**Pioneer**	**Colonial**	**Sedentary**
First	Coyote System	Coyote System	Coyote System
Second	Crismon System	Crismon System	Lehi System
Third	Sedimento System	Scottsdale System	Crismon System
Fourth	Canal System 2	Sedimento System	Scottsdale System
Fifth		Canal System 2	Riverview System
Sixth			Canal System 2
	Early Classic	**Late Classic**	
First	Coyote System	Coyote System	
Second	Lehi System	Los Muertos System	
Third	Los Muertos System	Crismon System	
Fourth	Crismon System	Scottsdale System	
Fifth	Scottsdale System	Riverview System	
Sixth	Riverview System	Canal System 2	
Seventh	Canal System 2		

Third, the amount of available water was then reduced by agricultural demand (Appendix C). Following the flow of the lower Salt River, the total amount of available water was reduced first by the Coyote System water demand. The reduced water amount became the volume of water available to the next system downriver. The process

continued down the river until all available water was redirected or all demand was met. For example, during the first agricultural cycle planting in A.D. 740, there was 157,540 af after the 10% loss correction and before the Coyote System. Irrigation system standardized irrigation unit (SIU) demands at 1 af water depth were 51 af for the Coyote System, 283 af for the Crismon System, 215 af for the Sedimento System, and 1477 af for Canal System 2. Reducing available river flow by those demands resulted in all systems receiving sufficient water to meet agricultural demand with a surplus of 155,311 af after Canal System 2 took its share. In this example, water demand was met for all irrigation systems.

A second example depicts instances when not all irrigation systems met demand. In A.D. 1286, during the second agricultural cycle silking at 1 af water depth, there was a total of 16,104 af available prior to the Coyote System. SIU demands were 390 af for the Coyote System, 2319 af for the Lehi System, 7763 af for the Los Muertos System, 1020 af for the Crismon System, 854 af for the Scottsdale System, 4466 af for the Riverview System, and 5960 af for Canal System 2. Reducing available river discharge by these demands resulted in all irrigation systems receiving sufficient water, except for the Riverview System and Canal System 2. This example shows that water demands upriver from the Riverview System were greater than the volume of available water.

The fourth step for determining water sufficiency involved summing up the number of deficit years for each irrigation system during each agricultural key point over time (see Tables 11-14). For example, at 1 af water depth, no system failed to meet SIU water demand during the silking of the first agricultural cycle during the early Classic Period. Buffer demand produced a different result. The Coyote, Lehi, Los Muertos, and

Crismon systems had zero years of first cycle silking water deficits. Conversely, the Scottsdale System had one, the Riverview System had nine, and Canal System 2 had 23 years of first cycle silking water deficits during the 200 years of the early Classic Period.

The fifth and final step for assessing sufficiency entailed the percent of years an irrigation system did not meet water demand for each agricultural key point during each Hohokam cultural period. The number of years during each period for this research was 60 for the Pioneer (A.D. 740-799), 200 for the Colonial (A.D. 800-999), 100 for the Sedentary (A.D. 1000-1099), 200 for the early Classic (A.D. 1100-1299), and 151 for the late Classic (A.D. 1300-1450). The number of water deficit years for each irrigation system during each agricultural key point was divided by the number of corresponding period years.

Returning to the first agricultural cycle during the early Classic Period, as an example, the Scottsdale System had 1%, the Riverview System had 5%, and Canal System 2 had 12% of years that had water deficits. The other irrigation systems had zero years with water deficits. Calculating the percent of years during each agricultural cycle key point during each period provided a means for identifying trends in water insufficiency through time.

Water Sufficiency and Agricultural Success along the Lower Salt River

A 25% deficit threshold defined agricultural success for the water sufficiency analysis.[7.2] For each agricultural key point in each irrigation system for each cultural period, the percent of deficit years was identified as either less than 25% or greater than 25%. If the data point was less than 25%, then agricultural success was considered likely. If, however, deficits were 25% or greater, then agricultural production was identified as

problematic. Datapoints that crossed the 25% threshold are identified through shading on Tables 11-14. Each table presents the results for a particular water depth.

Table 11. Frequency of Years per Hohokam Period When Water Demand was not Met at 1 Acre-Foot.*

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Pioneer	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	0%	0%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	0%	2%
Colonial	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	1%	1%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	1%
	Canal System 2		0%	0%	1%	3%
Sedentary	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Riverview System		0%	0%	0%	0%
	Canal System 2		0%	0%	0%	0%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Crismon System		0%	0%	0%	1%
	Scottsdale System		0%	0%	1%	2%
	Riverview System		0%	0%	11%	22%
	Canal System 2		0%	0%	33%	50%

Table 11. Frequency of Years per Hohokam Period When Water Demand was not Met at 1 Acre-Foot, Continued.

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Early Classic	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Los Muertos System		0%	0%	0%	1%
	Crismon System		0%	0%	1%	1%
	Scottsdale System		0%	0%	1%	2%
	Riverview System		0%	0%	4%	8%
	Canal System 2		0%	0%	11%	15%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		0%	0%	0%	1%
	Los Muertos System		0%	0%	15%	22%
	Crismon System		0%	0%	21%	29%
	Scottsdale System		1%	1%	28%	42%
	Riverview System		5%	5%	57%	76%
	Canal System 2		12%	12%	85%	93%
Late Classic	Coyote System	SIU	0%	0%	0%	0%
	Los Muertos System		0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Riverview System		0%	0%	0%	0%
	Canal System 2		0%	0%	3%	10%
	Coyote System	Buffer	0%	0%	0%	0%
	Los Muertos System		0%	0%	0%	2%
	Crismon System		0%	0%	3%	10%
	Scottsdale System		0%	0%	10%	17%
	Riverview System		0%	0%	37%	53%
	Canal System 2		3%	3%	70%	81%

*Gray shading indicates agricultural cycle results in an irrigation system that is greater than or equal to 25%.

Table 12. Frequency of Years per Hohokam Period When Water Demand was not Met at 2 Acre-Feet.*

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Pioneer	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	0%	0%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	2%	2%
Colonial	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	1%	3%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Sedimento System		0%	0%	1%	1%
	Canal System 2		1%	1%	26%	36%
Sedentary	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Riverview System		0%	0%	0%	0%
	Canal System 2		0%	0%	1%	2%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		0%	0%	2%	3%
	Crismon System		0%	0%	9%	22%
	Scottsdale System		0%	0%	26%	44%
	Riverview System		3%	2%	74%	86%
	Canal System 2		11%	11%	94%	98%

Table 12. Frequency of Years per Hohokam Period When Water Demand was not Met at 2 Acre-Feet, Continued.

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Early Classic	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Los Muertos System		0%	0%	9%	13%
	Crismon System		0%	0%	11%	16%
	Scottsdale System		0%	0%	13%	19%
	Riverview System		1%	1%	29%	42%
	Canal System 2		3%	3%	54%	71%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		0%	0%	8%	11%
	Los Muertos System		7%	7%	67%	83%
	Crismon System		10%	10%	81%	87%
	Scottsdale System		12%	12%	86%	96%
	Riverview System		30%	29%	98%	99%
	Canal System 2		58%	57%	99%	99%
Late Classic	Coyote System	SIU	0%	0%	0%	0%
	Los Muertos System		0%	0%	0%	1%
	Crismon System		0%	0%	1%	5%
	Scottsdale System		0%	0%	3%	8%
	Riverview System		0%	0%	18%	25%
	Canal System 2		0%	0%	44%	58%
	Coyote System	Buffer	0%	0%	0%	0%
	Los Muertos System		0%	0%	25%	41%
	Crismon System		0%	0%	44%	58%
	Scottsdale System		1%	1%	61%	72%
	Riverview System		17%	17%	88%	95%
	Canal System 2		44%	44%	99%	100%

*Gray shading indicates agricultural cycle results in an irrigation system that is greater than or equal to 25%.

Table 13. Frequency of Years per Hohokam Period When Water Demand was not Met at 3 Acre-Feet.*

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Pioneer	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	0%	0%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		2%	2%	13%	15%
Colonial	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		1%	1%	11%	18%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	1%	1%
	Sedimento System		0%	0%	1%	3%
	Canal System 2		2%	2%	59%	74%
Sedentary	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Riverview System		0%	0%	1%	1%
	Canal System 2		0%	0%	8%	21%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		0%	0%	19%	29%
	Crismon System		0%	0%	40%	58%
	Scottsdale System		1%	1%	70%	85%
	Riverview System		18%	18%	98%	100%
	Canal System 2		46%	45%	100%	100%

Table 13. Frequency of Years per Hohokam Period When Water Demand was not Met at 3 Acre-Feet, Continued.

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Early Classic	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Los Muertos System		1%	1%	25%	37%
	Crismon System		1%	1%	29%	45%
	Scottsdale System		1%	1%	38%	50%
	Riverview System		7%	7%	63%	81%
	Canal System 2		14%	14%	87%	96%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		0%	0%	21%	29%
	Los Muertos System		18%	18%	96%	97%
	Crismon System		27%	27%	97%	98%
	Scottsdale System		36%	36%	98%	99%
	Riverview System		68%	68%	99%	100%
	Canal System 2		90%	90%	100%	100%
Late Classic	Coyote System	SIU	0%	0%	0%	0%
	Los Muertos System		0%	0%	10%	17%
	Crismon System		0%	0%	16%	22%
	Scottsdale System		0%	0%	19%	27%
	Riverview System		0%	0%	49%	64%
	Canal System 2		7%	7%	78%	85%
	Coyote System	Buffer	0%	0%	0%	0%
	Los Muertos System		1%	1%	64%	76%
	Crismon System		7%	7%	78%	85%
	Scottsdale System		15%	15%	85%	92%
	Riverview System		47%	47%	99%	100%
	Canal System 2		79%	78%	100%	100%

*Gray shading indicates agricultural cycle results in an irrigation system that is greater than or equal to 25%.

Table 14. Frequency of Years per Hohokam Period When Water Demand was not Met at 4 Acre-Feet.*

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Pioneer	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	0%	0%
	Canal System 2		0%	0%	2%	2%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Sedimento System		0%	0%	2%	2%
	Canal System 2		2%	2%	23%	40%
Colonial	Coyote System	SIU	0%	0%	0%	0%
	Crismon System		0%	0%	0%	0%
	Scottsdale System		0%	0%	0%	0%
	Sedimento System		0%	0%	1%	1%
	Canal System 2		1%	1%	26%	35%
	Coyote System	Buffer	0%	0%	0%	0%
	Crismon System		0%	0%	1%	1%
	Scottsdale System		0%	0%	1%	1%
	Sedimento System		1%	1%	7%	12%
	Canal System 2		11%	11%	84%	96%
Sedentary	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	0%
	Crismon System		0%	0%	0%	1%
	Scottsdale System		0%	0%	1%	2%
	Riverview System		0%	0%	2%	8%
	Canal System 2		0%	0%	28%	45%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		0%	0%	43%	61%
	Crismon System		1%	1%	74%	85%
	Scottsdale System		5%	5%	91%	98%
	Riverview System		40%	40%	100%	100%
	Canal System 2		75%	75%	100%	100%

Table 14. Frequency of Years per Hohokam Period When Water Demand was not Met at 4 Acre-Feet, Continued.

Period	System	Acreage Method	Cycle 1 Plant (Feb)	Cycle 1 Silk (Apr)	Cycle 2 Plant (Aug)	Cycle 2 Silk (Oct)
Early Classic	Coyote System	SIU	0%	0%	0%	0%
	Lehi System		0%	0%	0%	1%
	Los Muertos System		2%	2%	49%	61%
	Crismon System		4%	4%	54%	73%
	Scottsdale System		6%	6%	61%	80%
	Riverview System		13%	13%	87%	96%
	Canal System 2		29%	29%	97%	99%
	Coyote System	Buffer	0%	0%	0%	0%
	Lehi System		2%	2%	42%	54%
	Los Muertos System		41%	41%	99%	99%
	Crismon System		50%	50%	99%	99%
	Scottsdale System		60%	60%	99%	100%
	Riverview System		87%	87%	100%	100%
	Canal System 2		98%	98%	100%	100%
Late Classic	Coyote System	SIU	0%	0%	0%	0%
	Los Muertos System		0%	0%	23%	35%
	Crismon System		0%	0%	30%	48%
	Scottsdale System		0%	0%	42%	56%
	Riverview System		5%	5%	72%	82%
	Canal System 2		19%	19%	91%	95%
	Coyote System	Buffer	0%	0%	0%	0%
	Los Muertos System		11%	11%	82%	89%
	Crismon System		19%	19%	91%	95%
	Scottsdale System		28%	28%	95%	99%
	Riverview System		72%	71%	100%	100%
	Canal System 2		91%	91%	100%	100%

*Gray shading indicates agricultural cycle results in an irrigation system that is greater than or equal to 25%.

As clearly shown in Table 11, if 1 af of water was sufficient to cultivate a crop, then lower Salt River farmers would have suffered shortages only for buffer acreages beginning during the Sedentary Period. In all other instances, sufficient water was

available to meet demand. In contrast, if 2 af were necessary for a successful harvest (Table 12), then problems may have arisen during the Sedentary Period or Colonial Period for Canal System 2. In such a scenario, water deficits were most common during the second cycle, with the Riverview System and Canal System 2 experiencing shortages for SIU acreages during the early and late Classic Period. Comparing Table 13 (3 af) to Table 12 (2 af), shows similar results. The only notable difference pertains to intensity. If the buffer method is accepted, water availability became notably problematic for the 3 af level as early as the Sedentary Period, whereas widespread 2 af shortages were delayed until the early Classic Period for both agricultural cycles. When 4 af is assumed to be the requirement for success (Table 14), problems may have developed during the first cycle, especially during the early Classic Period for both acreage methods. A successful crop was almost certainly impossible regardless of the acreage method used for the second cycle during the Classic Period.

Before further discussing these findings, a critical disqualifier should be noted. Concerning the 4 af requirement, the rationale for Howard's (2006:44) recommendation to use a presumably overabundance of water (i.e., 4 af) assumes that a large water volume was necessary to flush salt deposits from the fields. Presumably, this task could have been accomplished annually in the early spring when river flows were swollen with snowmelt from the upper reaches of the Salt River watershed. The much-reduced river discharges during the summer months were probably always insufficient for salt flushing. Therefore, if 4 af was only necessary to combat salinization during the spring runoff, then a 4 af requirement probably was never associated with the second agricultural cycle along

the lower Salt River. Consequently, the second cycle results in Table 14 can be dropped for the 4 af requirement.

One variable with a potential influence on the above results was the method (SIU or buffer) for estimating cropland acreage in each irrigation system. Sometimes the two methods pointed toward the same inference, but more commonly, they led to divergent interpretations. For example, it did not matter greatly what method was applied for the analysis during the Pioneer and Colonial periods. The early irrigation systems were relatively small and demanded comparably little water for their crops. The difference between SIU and buffer methods produced little that was significant for interpretation, since the bedrock reef at the Canal System 2 intake may have mitigated surface flow deficits (see below). Manifest in the evidence associated with both methods, the modest water demands at those early times were almost always comfortably within the water supply limits. In contrast, hydraulic infrastructure expansion, starting in the Sedentary Period and continuing through the early and late Classic periods, made the difference in methods consequential.

A topic for future research, therefore, concerns the proper approach for estimating irrigated acreage. As exemplified by the results reported in Tables 11-14, the chosen acreage method matters. Unfortunately, there are no published guidelines or empirical results currently to justify one method over the other. For the purpose of this dissertation research, I simply consider the results based on both methods.

Multi-Year Water Deficits

A final aspect of water deficits is those that occurred consecutively. For example, two multi-year deficits occurring in succession, buffered by a single successful year is

likely to have a more severe impact on farmers than the same kinds of deficits widely spaced over a generation. I, therefore, examined the recurrence of first cycle deficits for five or more consecutive years (Tables 15-19). The most glaring result is that

Table 15. Pioneer Period ≥ 5 Years Consecutive Deficits.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Coyote System	SIU	1	None	None	None
Crismon System	SIU	1	None	None	None
Sedimento System	SIU	1	None	None	None
Canal System 2	SIU	1	None	None	None
Coyote System	Buffer	1	None	None	None
Crismon System	Buffer	1	None	None	None
Sedimento System	Buffer	1	None	None	None
Canal System 2	Buffer	1	None	None	None
Coyote System	SIU	2	None	None	None
Crismon System	SIU	2	None	None	None
Sedimento System	SIU	2	None	None	None
Canal System 2	SIU	2	None	None	None
Coyote System	Buffer	2	None	None	None
Crismon System	Buffer	2	None	None	None
Sedimento System	Buffer	2	None	None	None
Canal System 2	Buffer	2	None	None	None
Coyote System	SIU	3	None	None	None
Crismon System	SIU	3	None	None	None
Sedimento System	SIU	3	None	None	None
Canal System 2	SIU	3	None	None	None
Coyote System	Buffer	3	None	None	None
Crismon System	Buffer	3	None	None	None
Sedimento System	Buffer	3	None	None	None
Canal System 2	Buffer	3	None	None	None
Coyote System	SIU	4	None	None	None
Crismon System	SIU	4	None	None	None
Sedimento System	SIU	4	None	None	None
Canal System 2	SIU	4	None	None	None
Coyote System	Buffer	4	None	None	None
Crismon System	Buffer	4	None	None	None
Sedimento System	Buffer	4	None	None	None
Canal System 2	Buffer	4	None	None	None

Table 16. Colonial Period ≥ 5 Years Consecutive Deficits.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Coyote System	SIU	1	None	None	None
Crismon System	SIU	1	None	None	None
Scottsdale System	SIU	1	None	None	None
Sedimento System	SIU	1	None	None	None
Canal System 2	SIU	1	None	None	None
Coyote System	Buffer	1	None	None	None
Crismon System	Buffer	1	None	None	None
Scottsdale System	Buffer	1	None	None	None
Sedimento System	Buffer	1	None	None	None
Canal System 2	Buffer	1	None	None	None
Coyote System	SIU	2	None	None	None
Crismon System	SIU	2	None	None	None
Scottsdale System	SIU	2	None	None	None
Sedimento System	SIU	2	None	None	None
Canal System 2	SIU	2	None	None	None
Coyote System	Buffer	2	None	None	None
Crismon System	Buffer	2	None	None	None
Scottsdale System	Buffer	2	None	None	None
Sedimento System	Buffer	2	None	None	None
Canal System 2	Buffer	2	None	None	None
Coyote System	SIU	3	None	None	None
Crismon System	SIU	3	None	None	None
Scottsdale System	SIU	3	None	None	None
Sedimento System	SIU	3	None	None	None
Canal System 2	SIU	3	None	None	None
Coyote System	Buffer	3	None	None	None
Crismon System	Buffer	3	None	None	None
Scottsdale System	Buffer	3	None	None	None
Sedimento System	Buffer	3	None	None	None
Canal System 2	Buffer	3	None	None	None
Coyote System	SIU	4	None	None	None
Crismon System	SIU	4	None	None	None
Scottsdale System	SIU	4	None	None	None
Sedimento System	SIU	4	None	None	None
Canal System 2	SIU	4	None	None	None
Coyote System	Buffer	4	None	None	None
Crismon System	Buffer	4	None	None	None
Scottsdale System	Buffer	4	None	None	None

Table 16. Colonial Period ≥ 5 Years Consecutive Deficits, continued.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Sedimento System	Buffer	4	None	None	None
Canal System 2	Buffer	4	None	None	None

Table 17. Sedentary Period ≥ 5 Years Consecutive Deficits.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Coyote System	SIU	1	None	None	None
Lehi System	SIU	1	None	None	None
Crismon System	SIU	1	None	None	None
Scottsdale System	SIU	1	None	None	None
Riverview System	SIU	1	None	None	None
Canal System 2	SIU	1	None	None	None
Coyote System	Buffer	1	None	None	None
Lehi System	Buffer	1	None	None	None
Crismon System	Buffer	1	None	None	None
Scottsdale System	Buffer	1	None	None	None
Riverview System	Buffer	1	None	None	None
Canal System 2	Buffer	1	None	None	None
Coyote System	SIU	2	None	None	None
Lehi System	SIU	2	None	None	None
Crismon System	SIU	2	None	None	None
Scottsdale System	SIU	2	None	None	None
Riverview System	SIU	2	None	None	None
Canal System 2	SIU	2	None	None	None
Coyote System	Buffer	2	None	None	None
Lehi System	Buffer	2	None	None	None
Crismon System	Buffer	2	None	None	None
Scottsdale System	Buffer	2	None	None	None
Riverview System	Buffer	2	None	None	None
Canal System 2	Buffer	2	None	None	None
Coyote System	SIU	3	None	None	None
Lehi System	SIU	3	None	None	None
Crismon System	SIU	3	None	None	None
Scottsdale System	SIU	3	None	None	None
Riverview System	SIU	3	None	None	None
Canal System 2	SIU	3	None	None	None
Coyote System	Buffer	3	None	None	None
Lehi System	Buffer	3	None	None	None

Table 17. Sedentary Period ≥ 5 Years Consecutive Deficits, continued

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Crismon System	Buffer	3	None	None	None
Scottsdale System	Buffer	3	None	None	None
Riverview System	Buffer	3	None	None	None
Canal System 2	Buffer	3	1033-1041	9 Years	First during Sedentary Period
Coyote System	SIU	4	None	None	None
Lehi System	SIU	4	None	None	None
Crismon System	SIU	4	None	None	None
Scottsdale System	SIU	4	None	None	None
Riverview System	SIU	4	None	None	None
Canal System 2	SIU	4	None	None	None
Coyote System	Buffer	4	None	None	None
Lehi System	Buffer	4	None	None	None
Crismon System	Buffer	4	None	None	None
Scottsdale System	Buffer	4	None	None	None
Riverview System	Buffer	4	None	None	None
Canal System 2	Buffer	4	1025-1044	20 Years	First during Sedentary Period
			1064-1075	12 Years	20 Years
			1093-1099	7 Years	18 Years

Table 18. Early Classic Period ≥ 5 Years Consecutive Deficits.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Coyote System	SIU	1	None	None	None
Lehi System	SIU	1	None	None	None
Los Muertos System	SIU	1	None	None	None
Crismon System	SIU	1	None	None	None
Scottsdale System	SIU	1	None	None	None
Riverview System	SIU	1	None	None	None
Canal System 2	SIU	1	None	None	None
Coyote System	Buffer	1	None	None	None
Lehi System	Buffer	1	None	None	None
Los Muertos System	Buffer	1	None	None	None
Crismon System	Buffer	1	None	None	None
Scottsdale System	Buffer	1	None	None	None
Riverview System	Buffer	1	None	None	None
Canal System 2	Buffer	1	None	None	None
Coyote System	SIU	2	None	None	None
Lehi System	SIU	2	None	None	None

Table 18. Early Classic Period ≥ 5 Years Consecutive Deficits, continued.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Los Muertos System	SIU	2	None	None	None
Crismon System	SIU	2	None	None	None
Scottsdale System	SIU	2	None	None	None
Riverview System	SIU	2	None	None	None
Canal System 2	SIU	2	None	None	None
Coyote System	Buffer	2	None	None	None
Lehi System	Buffer	2	None	None	None
Los Muertos System	Buffer	2	None	None	None
Crismon System	Buffer	2	None	None	None
Scottsdale System	Buffer	2	None	None	None
Riverview System	Buffer	2	None	None	None
Canal System 2	Buffer	2	1131-1138	8 Years	First during early Classic Period
			1213-1218	6 Years	75 Years
			1282-1289	8 Years	64 Years
Coyote System	SIU	3	None	None	None
Lehi System	SIU	3	None	None	None
Los Muertos System	SIU	3	None	None	None
Crismon System	SIU	3	None	None	None
Scottsdale System	SIU	3	None	None	None
Riverview System	SIU	3	None	None	None
Canal System 2	SIU	3	None	None	None
Coyote System	Buffer	3	None	None	None
Lehi System	Buffer	3	None	None	None
Los Muertos System	Buffer	3	None	None	None
Crismon System	Buffer	3	None	None	None
Scottsdale System	Buffer	3	None	None	None
Riverview System	Buffer	3	1130-1140	11 Years	First during early Classic Period
			1142-1146	5 Years	2 Years
			1156-1161	6 Years	10 Years
			1203-1208	6 Years	42 Years
			1220-1227	8 Years	12 Years
			1242-1247	6 Years	15 Years
			1280-1289	10 Years	33 Years
Canal System 2	Buffer	3	1100-1104	5 Years	First during early Classic Period
			1106-1121	16 Years	2 Years
			1123-1128	6 Years	2 Years
			1130-1146	17 Years	2 Years
			1148-1183	36 Years	2 Years

Table 18. Early Classic Period ≥ 5 Years Consecutive Deficits, continued.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Canal System 2	Buffer	3	1185-1196	12 Years	2 Years
			1202-1227	26 Years	6 Years
			1233-1240	8 Years	6 Years
			1242-1248	7 Years	2 Years
			1250-1254	5 Years	2 Years
			1260-1267	8 Years	6 Years
			1269-1274	6 Years	2 Years
			1280-1289	10 Years	6 Years
			1291-1297	7 Years	2 Years
Coyote System	SIU	4	None	None	None
Lehi System	SIU	4	None	None	None
Los Muertos System	SIU	4	None	None	None
Crismon System	SIU	4	None	None	None
Scottsdale System	SIU	4	None	None	None
Riverview System	SIU	4	None	None	None
Canal System 2	SIU	4	None	None	None
Coyote System	Buffer	4	None	None	None
Lehi System	Buffer	4	None	None	None
Los Muertos System	Buffer	4	1213-1217	5 Years	First during early Classic Period
Crismon System	Buffer	4	1131-1137	7 Years	First during early Classic Period
			1213-1218	6 Years	76 Years
			1285-1289	5 Years	67 Years
Scottsdale System	Buffer	4	1130-1138	9 Years	First during early Classic Period
			1203-1208	6 Years	65 Years
			1213-1218	6 Years	5 Years
			1220-1227	8 Years	2 Years
			1282-1289	8 Years	55 Years
Riverview System	Buffer	4	1100-1104	5 Years	First during early Classic Period
			1106-1121	16 Years	2 Years
			1123-1146	24 Years	2 Years
			1148-1161	14 Years	2 Years
			1163-1172	10 Years	2 Years
			1174-1183	10 Years	2 Years
			1185-1196	12 Years	2 Years
			1203-1227	25 Years	7 Years
			1233-1237	5 Years	6 Years
			1242-1247	6 Years	5 Years

Table 18. Early Classic Period ≥ 5 Years Consecutive Deficits, continued.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Riverview System	Buffer	4	1250-1254	5 Years	3 Years
			1260-1267	8 Years	6 Years
			1269-1274	6 Years	2 Years
			1280-1289	10 Years	6 Years
			1291-1295	5 Years	2 Years
Canal System 2	Buffer	4	1100-1199	100 Years	First during early Classic Period
			1201-1258	58 Years	2 Years
			1260-1274	15 Years	2 Years
			1276-1297	22 Years	2 Years

Table 19. Late Classic Period ≥ 5 Years Consecutive Deficits.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Coyote System	SIU	1	None	None	None
Los Muertos System	SIU	1	None	None	None
Crismon System	SIU	1	None	None	None
Scottsdale System	SIU	1	None	None	None
Riverview System	SIU	1	None	None	None
Canal System 2	SIU	1	None	None	None
Coyote System	Buffer	1	None	None	None
Los Muertos System	Buffer	1	None	None	None
Crismon System	Buffer	1	None	None	None
Scottsdale System	Buffer	1	None	None	None
Riverview System	Buffer	1	None	None	None
Canal System 2	Buffer	1	None	None	None
Coyote System	SIU	2	None	None	None
Los Muertos System	SIU	2	None	None	None
Crismon System	SIU	2	None	None	None
Scottsdale System	SIU	2	None	None	None
Riverview System	SIU	2	None	None	None
Canal System 2	SIU	2	None	None	None
Coyote System	Buffer	2	None	None	None
Los Muertos System	Buffer	2	None	None	None
Crismon System	Buffer	2	None	None	None
Scottsdale System	Buffer	2	None	None	None
Riverview System	Buffer	2	None	None	None
Canal System 2	Buffer	2	1387-1391	5 Years	First during late Classic Period
			1435-1439	5 Years	44 Years

Table 19. Late Classic Period ≥ 5 Years Consecutive Deficits, continued.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Canal System 2	Buffer	2	1442-1446	5 Years	3 Years
Coyote System	SIU	3	None	None	None
Los Muertos System	SIU	3	None	None	None
Crismon System	SIU	3	None	None	None
Scottsdale System	SIU	3	None	None	None
Riverview System	SIU	3	None	None	None
Canal System 2	SIU	3	None	None	None
Coyote System	Buffer	3	None	None	None
Los Muertos System	Buffer	3	None	None	None
Crismon System	Buffer	3	None	None	None
Scottsdale System	Buffer	3	None	None	None
Riverview System	Buffer	3	1387-1391	5 Years	First during late Classic Period
			1435-1439	5 Years	44 Years
			1442-1446	5 Years	3 Years
Canal System 2	Buffer	3	1334-1356	23 Years	First during late Classic Period
			1359-1367	9 Years	3 Years
			1375-1379	5 Years	8 Years
			1381-1391	11 Years	2 Years
			1393-1403	11 Years	2 Years
			1415-1425	11 Years	12 Years
			1434-1440	7 Years	9 Years
			1442-1450	9 Years	2 Years
Coyote System	SIU	4	None	None	None
Los Muertos System	SIU	4	None	None	None
Crismon System	SIU	4	None	None	None
Scottsdale System	SIU	4	None	None	None
Riverview System	SIU	4	None	None	None
Canal System 2	SIU	4	None	None	None
Coyote System	Buffer	4	None	None	None
Los Muertos System	Buffer	4	None	None	None
Crismon System	Buffer	4	None	None	None
Scottsdale System	Buffer	4	None	None	None
Riverview System	Buffer	4	1334-1348	15 Years	First during late Classic Period
			1360-1365	6 Years	12 Years
			1375-1379	5 Years	10 Years
			1381-1391	11 Years	2 Years
			1395-1403	9 Years	4 Years

Table 19. Late Classic Period ≥ 5 Years Consecutive Deficits, continued.

System	Acreage Method	Acre-feet	Years	Length	Since Last 5+ Consecutive Deficits
Riverview System	Buffer	4	1415-1419	5 Years	12 Years
			1421-1425	5 Years	2 Years
			1435-1440	5 Years	10 Years
			1442-1450	9 Years	2 Years
Canal System 2	Buffer	4	1326-1332	7 Years	First during late Classic Period
			1334-1357	24 Years	2 Years
			1359-1379	21 Years	2 Years
			1381-1450	70 Years	2 Years

consecutive deficits of five or more years did not manifest in the dataset until an irrigation system crossed a deficit threshold of 40% of cultural period years. At 41% of deficit years, five or more years became increasingly prevalent. Of further importance, the multi-year deficits were recorded for only buffer acreage estimate demands. Although water deficits were recorded for SIU acreage estimates, they were much shorter in duration than buffer estimates.

Excluding Canal System 2, which had many long-term consecutive deficits but are likely misleading (see the Canal System 2 bedrock reef discussion below), the Riverview System at 3 af during the early and late Classic periods is the only system with multiple five or more consecutive year deficits. All other systems did not have deficits of this type.

In sum, the results for five or more consecutive year deficits illustrate a more positive scenario than the total deficits per period. The results appear to suggest that a deficit for 25% of the years per cultural period is too low of a threshold, based on the water sufficiency analysis parameters. If the multi-year results are indicative of the frequency of deficit years that allowed irrigation systems to persist, then a deficit for 40%

of years per period may be a better threshold. Future research therefore should explore a 40% rather than 25% threshold for water deficits may have impacted Hohokam water management strategies in the lower Salt River irrigation systems. Further, the disconnect between the multi-year results at 3 af and above and the archaeological record for the Riverview System warrants further inquiry.

The Unique Case of Canal System 2

Looking at the monthly streamflow data gives the impression that Canal System 2 lacked agricultural success most of the time. However, the extra flows afforded by the bedrock reef extending between Papago and Tempe buttes, and where the headgates of Canal System 2 were built, appears to have benefited the people of Canal System 2. Ironically, the irrigation system last in line to take its share of river water was situated in the most advantageous location. Given the longevity of Canal System 2, vis-à-vis expected water deficit frequency, it is conceivable that Canal System 2 may have successfully produced a second cycle, when its neighbors upstream could not.

The factor that must have supported Canal System 2 agricultural production beyond what was possible with surface flow alone was the bedrock reef between Papago/Tempe buttes near the system's intake (see Chapter 3). Historic hydrological reports note water surfacing at the reef during the summer months at the turn of the twentieth century (Code 1902:103; Lee 1905). Flow readings taken in 1900, documented the resurfacing underflow at 60 cfs (Code 1902:103).

As a baseline, the 1900 perched underflow discharge provides confidence that calculating Canal System 2 agricultural success with only surface streamflow biases the results toward deficit more than likely occurred prehistorically. The disconnect between

the Canal System 2 Classic Period social trajectory (e.g., large platform mound villages) and declining water supplies now appears to be an artifact of insufficient data. Rather than a hydrologically impoverished irrigation system last in line along the lower Salt River, Canal System 2 was likely able to tap into an otherwise inaccessible water source during times of surface flow deficit. As such, it is plausible that farmers in Canal System 2 were able to irrigate crops at times when water was unavailable to upriver systems like the Riverview System. The agricultural success analysis and the perched underflows reveal that the bedrock reef conceivably facilitated the longevity of Canal System 2.

The asymmetry in agricultural success may have led to advantages for trade. For example, crops grown in Canal System 2 could have been exchanged with farmers from upriver systems that faced agricultural failures. Perhaps farmers in Canal System 2 could have supplied second cycle crops at a more regional scale, such as the Hohokam marketplace system during the Sedentary Period, when agricultural success abounded in the lower Salt River Valley.

Water Sufficiency, Agricultural Success, and the Hohokam Past

The first general result drawn from the water sufficiency analysis is the contrast between the first and second agricultural cycles. Low river discharges during the summer months, coinciding with the timing of the second cycle, typically prevented a sufficient supply of moisture from reaching crops for at least half of the irrigation systems during a quarter of years, from 2 af buffer demands upward. The hydrological conditions during the first cycle differed greatly. Common agricultural success among the irrigation systems for many scenarios speaks to the masterful adaption Hohokam farmers had to their desert river environs. There are therefore no signs that farmers along the lower Salt

constructed expansive irrigation systems that outstripped water supplies for the first crop cycle and a deficit threshold of 25% of the years per period. Notable deficits in the Riverview System and Canal System 2 for the first crop cycle with a deficit threshold of 40% of the years per period were found to need further exploration before the results were accepted. Water deficits in the Riverview System are an avenue for future research, whereas, Canal System 2's deficits were likely more muted than the results suggest because of the bedrock reef.

In Chapter 2, I highlighted the issue that water shortages might have been a central factor promoting fundamental change in Hohokam society. In particular, I examined if persistent water shortages led to the transitions between the Sedentary and Classic periods, and between the early and late Classic periods. As a second general result, I can state with confidence that the results provide little support for this idea. Sufficient water was available to raise first crops by the SIU method for 1-3 af of water demands for 25% of the years per period in most canal systems through time. Multi-year deficits of five or more years did not manifest for any irrigation system except for Canal System 2 and the Riverview System at 3 and 4 af buffer water depth during the early and late Classic periods. Provided evidence therefore implies that during the changes and developments that molded their history, Hohokam farmers expertly and steadily managed their hydraulic infrastructure for most canal systems. I contend that Hohokam researchers will need to look elsewhere for explanatory conditions and processes to model social change.

A third general result pertains to the SIU and buffer acreage estimates. They provided a window for viewing when agricultural success may have occurred. The water

sufficiency analysis showed that there were multiple instances when demand for SIU estimates were met, but not buffer estimates. In those cases, the amount of land that could be successfully irrigated would have been between the two acreage estimates. A kind of acreage success flexibility is exhibited by the analyses through irrigation systems persisting through time, despite the amount of land successfully irrigated fluctuating between the minimum and maximum of the acreage estimate range.

Summary

The primary goal for this study has been to identify when water deficits may have caused declined agricultural production that impacted Hohokam society. I began by summarizing water application depths used in previous Hohokam analyses. Defining the water depth was important because increasing the required water volume applied to agricultural fields reduces the total possible irrigated acreage. A water depth range selected for the sufficiency analysis was 1 to 4 acre-feet (af), reflecting several divergent arguments by Hohokam scholars on the subject. The 4 af requirement, however, is not likely relevant because the additional volume was probably applied to flush salts from the fields prior to the first annual planting. Therefore, the conclusions offered are based on only the likely 1-3 af requirements.

I then outlined the water sufficiency analysis methodology, which included five steps. Step 1 ordered irrigation systems along the lower Salt River by cultural period. Step 2 reduced the total available water prior to the first system by 10% to account for losses. Step 3 reduced the available water for each systems progressively downstream by the system's agricultural demands. Step 4 provided values for the percentage of years per period that experienced water deficits through the summation of deficit years for each

irrigation system. Finally, step 5 involved the identification of five or more years of consecutive water deficits for each irrigation system. The sufficiency analyses provided necessary data to identify agricultural success trends in the lower Salt River Valley through time.

The agricultural success analysis used a water deficit threshold of 25% of the years during a cultural period to elicit trends in agricultural production along the lower Salt. The success analysis provided three notable results. First, the second agricultural cycle was likely always a problem during the Classic Period; if not before. It is unlikely that Hohokam farmers would have depended on the second cycle as a vital contribution to annual agricultural demand. Second, the method used to estimate prehistoric irrigated acreage mattered, especially during the Classic Period. The absence of established guidelines or empirical evidence necessitated both SIU and buffer acreage methods to be used. Third, both the Riverview System and Canal System 2 experienced significant water deficits for the first crop cycle during the early and late Classic periods when assuming water demand of 3 af and a water deficit threshold of 25% of the years during a cultural period and when excluding consideration of the perched underflow by Canal System 2. Assuming water demands of only 2 af and a water deficit threshold of 25%, both the Riverview and Canal System 2 would also have had inadequate water during the early Classic Period. Canal System 2 would have had inadequate water during the late Classic if one does not consider the additional water input of the perched underflow. These trends were then further evaluated by examining consecutive deficit years. It was found that water deficits lasting five or more years likely did not occur, except in particular instances (e.g., 3 af in the Riverivew System).

The chapter concluded with general insights elicited from the agricultural success analysis. It is now clear that available water exceeded potential Hohokam irrigated acreage in most cases if evaporation from irrigation canals was about 10%. Valley farmers appear to have been well-adapted to successful agricultural production in the semi-arid valley. There was provide little support for persistent water deficits playing a role in the dramatic Preclassic/Classic transition and the beginning of the late Classic Period. Finally, the water sufficiency analysis strongly signals that Canal System 2 longevity was attributable to the bedrock reef extending between Papago and Tempe buttes. Apparently unnoticed before this analysis, Canal System 2 was last in line to receive river water, but advantageously positioned at the one bedrock reef in the valley. Without this geographic anomaly, and the subsurface water untapped by upriver systems, it is highly plausible that Hohokam history in the valley may have played out drastically different. Perhaps, an absence of the bedrock reef would have led to a decline of Canal System 2 early in the Classic Period.

In sum, these results profoundly alter the Hohokam narrative in the lower Salt River Valley. Rather than farmers increasingly bewildered by worsening water supplies, Hohokam farmers seem to have exhibited agricultural aptitude that is nearly unmatched by other preindustrial agrarian societies, given the parameters of the analysis.

Notes

7.1 Maize is used in the water sufficiency analysis as the agricultural production proxy because it is the only Hohokam crop that has received scientific study (Hunt 2015:171). Archaeological excavations have revealed that the Hohokam grew an assortment of different plant foods (e.g., beans and cucurbits), but essentially nothing is known about their growth parameters (e.g., water requirements and growing schedule). The gap in knowledge about traditional crops necessitated maize to serve as the agricultural proxy. It

is possible that if studies of other ancient crops are conducted and Hohokam diet better contextualized that a future water sufficiency analysis may produce different results.

7.2 A 25% deficit threshold for determining agricultural success derives from Howard's (1990, 2006) agricultural success analysis. Howard argued that Lehi System operation caused widespread agricultural production issues. Howard's interpreted his results as indicating that prior to Lehi System establishment (ca. A.D. 1000-1100), bountiful water facilitated high agricultural success. After the Lehi System began operation, water sufficiency tipped toward deficit with crop failure one of four years during the early Classic and three of four years during the late Classic. Howard's identification of crop failures once every four years as the tipping point between long-term agricultural success and deterioration provides a reasonable threshold value, as an initial test, because there are no other values found in Hohokam literature. Future Hohokam agricultural success studies should adjust the threshold value to understand its effect on interpretation. For example, would adjusting the threshold to 40% deficits drastically change the agricultural success results, or would there be similar trends identified?

CHAPTER 8: WATER SHORTAGES AND CULTURAL TRANSFORMATIONS: REASSESSING HOHOKAM IRRIGATION IN THE LOWER SALT RIVER VALLEY

Among pre-industrial societies of the present and past, the Hohokam stand alone by presenting a richly documented, 800-year-long record of large-scale irrigation in a desert setting. Hohokam irrigation longevity was not without perturbations. Two profound social disruptions are well documented in the Hohokam archaeological record. Although the social and cultural changes have been characterized for the Preclassic/Classic Transition and the early to late Classic period transition, their catalyzing factors have yet to be identified.

Applicable to the timing of the transitions, previous studies of Hohokam irrigation signaled prehistoric farmers in the lower Salt River Valley contended with protracted water deficits during the later part of Hohokam history (Howard 1990, 2006). I therefore posed the following research question: Could water insufficiency have prompted sociopolitical change among the Hohokam? Specifically, I was interested if long-term water deficits were a catalyst for the Preclassic/Classic and early to late Classic period transitions.

Unexpectedly, in light of the research on Hohokam irrigation presented in this dissertation (Chapter 2), the water sufficiency analysis (Chapter 7) indicated available water might have been sufficient to meet agricultural needs. The water sufficiency analysis outcome hinged on the lower Salt River farmers not being reliant on second agricultural cycle yields, a water loss rate of 10%, that the month-by-month estimates of streamflow discharges are reasonable, that 3 acre-feet (af) or less water depth was

sufficient to raise crops successfully, that agricultural demand was somewhere between the estimates for standard irrigation units and buffer acreage, and that the threshold between sufficient and insufficient water was possibly as high as a defict for 40% of the years of a period. If these qualifications are correct, then there appears to have been enough water to have met agricultural demands throughout Hohokam history, for most water sufficiency scenarios except for the Riverview System during the early Classic Period at 2 and 3 af and the late Classic Period for 3 af, and Canal System 2 without perched underflow considerations. As such, agricultural production would now align well with Hohokam societal longevity in the lower Salt River Valley.

The water sufficiency analysis revealed that some deficits did occur within irrigation systems, especially during the second agricultural cycle, but Hohokam hydrological engineering ensured agricultural needs were commonly met, assuming the qualifications of the water sufficiency analysis. As discussed below in this chapter, hydraulic flexibility appears to have facilitated Hohokam irrigation longevity. At the time scale of the Hohokam cultural sequence, lower Salt River Valley farmers were plausibly resilient against too much water, and germane to the research question, too little water. Irrigation flexibility, thus, would have bolstered Hohokam farmers against environmental stress that previous Hohokam literature inferred should have led to fundamental sociopolitical change.

This chapter begins with a synopsis of the previous chapters. The chapter then explores four topics that were elicited from my work. First, the late Colonial/early Sedentary period extremely large flood is discussed. The relevance of the flood for this research is that it highlights Hohokam farmer flexibility during overly abundant water

events. Second, standardized irrigation units (SIU) are examined. As discussed in Chapter 4, SIUs are proposed to have more efficiently used available water than estimated by previous irrigation models. The SIUs imply farmer hydraulic flexibility during water deficits. Third, the irrigation system reconstructions provide a new understanding of irrigation structure along the lower Salt River and the means for calculating water demand. Fourth, agricultural success, the comparison between water supply and agricultural demand, provides new insight into previously undescribed aspects of Hohokam irrigation that aided flexibility and propagated long-term success.

Preceding Chapters Synopsis

The goal of my study was to examine if persistent water sufficiency in irrigation triggered sociopolitical transformations in the lower Salt River Valley. In so doing, I have presented a fundamentally new characterization of irrigation in the valley. As highlighted in this chapter, there is now evidence that water deficits were not a serious issue for irrigation system longevity. Although individual farming households may have experienced hydraulic shortages, the water sufficiency analysis (Chapter 7) revealed irrigation systems across the valley were able to persist, some for at least 800 years, without lasting adverse impacts from water deficits. This research, therefore, signals that water shortages were never a significant factor in long-term agricultural success. Additionally, the rebirth of irrigation after the late Colonial/early Sedentary extremely large flood signifies a resilience during the Hohokam era to destructive flooding.

The conclusion that Hohokam irrigation was flexible, and thus, resilient to a wide range of environmental conditions arose from previous Hohokam irrigation studies, but provided novel insights because of methodological steps outlined in the previous

chapters. This study began with a review of previous studies relevant to Hohokam irrigation and anthropological perspectives of irrigation control. A dearth of evidence supporting Hohokam hierarchy prevented prehistoric lower Salt River Valley irrigation from serving as a test case for irrigation control (e.g., top-down verses bottom-up). Current archaeological irrigation control debates require conspicuous hierarchy to define irrigation management roles. The relationship between Hohokam society and agricultural success was instead examined. An inquiry into water insufficiency and sociopolitical changes was outlined.

The first step toward reaching my goal was drawing new Hohokam irrigation maps. Hohokam irrigation reconstructions go back to the 1800s, but historic aerial photography signaled irrigation may have been very different structurally than previously thought. Integrating aerial photographs with previously acquired excavation data did indeed present a new picture of Hohokam irrigation through time. Most notably, Canal System 1 was not a single irrigation system, but four.

The next step was defining each of the irrigation systems. The newly defined systems were the Crimson, Sedimento, Riverview, and Los Muertos. Others that were previously described include Canal System 2 and the Coyote, Lehi, and Scottsdale systems. Developmental histories for irrigation systems in the lower Salt River Valley detailed the establishment and operational longevity of each system. The histories showed that the Riverview System likely replaced the Sedimento System. Further, although the Los Muertos System was the last constructed, its intake was positioned upriver from all of the others, except the Coyote System. The reconstructions provided

necessary information about the physical extent of each irrigation system over time, thereby laying the foundation for estimating irrigated acreage.

Before providing the irrigation system developmental histories, the late Colonial/early Sedentary period extremely large flood and standardized irrigation units (SIU) were discussed. I examined these two factors first because they influenced irrigation growth in the valley. Following the late Colonial/early Sedentary period extremely large flood, Hohokam irrigation development shifted from slow and incremental during the Pioneer and Colonial periods, to expansive during the Sedentary and Classic periods. It was proposed that SIUs provided more efficient water usage and infrastructural expansion than previous models for Hohokam irrigation. SIUs are known to have been in use by the Sedentary Period in the lower Salt River Valley, but their antiquity along the lower Salt is unclear. They may have proliferated with the large-scale expansion of irrigation after the extremely large flood, or considerably predated the Sedentary Period. Regardless of the age of the SIU design, Hohokam agricultural production went in a new direction after the extremely large flood. The extent of irrigated land after the exceptional hydraulic event were well beyond what was expected based on growth trajectories during the Pioneer and Colonial periods.

Irrigated acreage was determined for each reconstructed irrigation system through time. Although agricultural production was structured into SIUs during the Sedentary and Classic periods, it is unknown when SIUs were first used, as mentioned above. An acreage buffer methodology developed by Woodson (2010a) was also used to supplement SIU acreage estimates. Finding the proportional relationship among the SIU and buffer derived acreage estimates allowed for possible SIU acreages to be projected back in time

from the Sedentary Period. The back-projection allowed for an acreage range to be assessed for each irrigation system during each cultural period. An acreage estimate range was important for the water sufficiency analysis (Chapter 7) because some successful agricultural production was possible between the upper and lower ends of the range. The amount of agrarian land that could be watered differed greatly depending on the analysis parameters (e.g., 2 af vs. 3 af,) and cultural period (e.g., Sedentary Period vs. early Classic Period).

The final step carried out before the water sufficiency analysis and agricultural success analysis was determining water availability. Previous Hohokam agricultural success analyses used annual reconstructed Salt River streamflows; however, water was likely needed during only particular points in the agricultural calendar. Prehistoric monthly discharges were therefore determined based on trends documented in historic records. The monthly proportional contribution to annual streamflow was calculated from 70 years of streamflow data. Dividing reconstructed annual streamflows by the monthly relative contributions allowed an agricultural key point discharge value to be derived.

The water sufficiency and agricultural success analyses were the culmination of the above methodological steps. The sufficiency analysis assessed if the available water was adequate to meet the demand of all in-operation irrigation systems. Each system's demand reduced the available water until each system met demand, or all water was diverted. This process was repeated for each agricultural cycle's key points (i.e., first and second cycle planting and silking). The process provided the percentage of years when an irrigation system's demand was not met during each cultural period.

This effort was capstoned by the agricultural success analysis. The analysis identified if in-operation irrigation systems had agricultural success or problematic production during each cultural period, based on water deficits exceeding 25% or more of years during a cultural period. The success results were examined through four variable lenses: the acreage estimation method, water application depth, agricultural cycle, and cultural period. Inquiry through those lenses showed that agricultural success was likely common.

Viewing all results together, the mechanisms that allowed Hohokam irrigation to persist for 800 years have become clearer. Rather than success during the Preclassic and failure during the Classic, the lower Salt River farmers successfully grew crops throughout the Hohokam cultural sequence, assuming the water sufficiency analysis qualifications outlined in Chapter 7 are correct. Individual households likely experienced deficits, but this study reveals ample irrigation system members would have brought crops to maturity to ensure that the systems persisted. This research highlights the competence that Hohokam farmers likely exhibited in maintaining auspicious agricultural production throughout their history.

Synthesis Topic 1: Late Colonial/Early Sedentary Extremely Large Flood

Evidence discussed in Chapter 4 suggested that flooding was a common environmental factor faced by Hohokam farmers in the lower Salt River Valley. Flooding likely occurred annually, and occasionally there were larger alluvial events. Irrigation's persistence in the valley demonstrates that Hohokam farmers were able to respond to these episodes in ways not easily observable in the archaeological record. The one identifiable event, which happened sometime between the late Colonial and early

Sedentary, was unlike anything documented in the geoarchaeolocial record. That extremely large flood profoundly altered irrigation agriculture and social organization along the river.

Before the extremely large flood, Canal System 2 and the four smaller systems of Coyote, Crismon, Scottsdale, and Sedimento brought water to a limited expanse of land, largely near the river. The flood, possibly reaching a peak discharge of 450,000 cubic feet per second, extended far beyond the riverbanks and impacted the systems in a multitude of ways. Canal reconstruction had occurred before the extremely large flood (e.g., Howard 1990; Howard and Huckleberry 1991; Hackbarth 1995; Huckleberry 2015; Huckleberry et al. 2018; Phillips and Droz 2004), but the exceptional alluvial event propagated unprecedented changes to in-operation irrigation systems. The Scottsdale System was reestablished with headgates located further upriver. The Sedimento System was replaced by the Riverview System. Further, irrigation infrastructure constructed after the flood was significantly more expansive than expected from growth trajectories during the Pioneer and Colonial periods.

Although the late Colonial/early Sedentary extremely large flood triggered a resculpting of irrigation infrastructure along the lower Salt, irrigation longevity in the valley reveals managerial flexibility. Ethnohistorical accounts, especially the 1891 flood, demonstrate floods could have generated wide-spread destruction to Hohokam infrastructure, but the archaeological record illustrates that the adverse effects of floods were short-lived for most of the Hohokam cultural sequence. The characteristics of the flexibility that allowed for irrigation persistence in the face of flooding challenges are beyond the data collected for this dissertation research, but clues derived from late

Classic Period information from beyond the study data have pertinence to my flooding interpretation.

A series of very high flow years were identified in the Salt River streamflow reconstructions for the late A.D. 1300s (Graybill et al. 2006; Nials et al. 1989). These high discharges were thought to positively correlate with large floods. It was proposed that the societal collapse by A.D. 1450, was assisted by flooding that severely impacted agricultural production (e.g., Graybill et al. 2006; Hill et al. 2015). For example, at least one main canal (Woodbury North) in Canal System 2 was found to be capped by a late Classic Period flood deposit and was not rebuilt. Instead, Canal System 2 may have been largely abandoned (Huckleberry et al. 2018). Myopically focusing on only the last flood leads to an incorrect causal link between flooding and collapse.

Before the flood that led to the abandonment of the Woodbury North canal, at least two other alluvial events deposited sediment into earlier canals (Upper and Lower Hagenstad). Rather than triggering abandonment, farmers in Canal System 2 reconstructed the canal. During the previous flood events, Canal System 2 irrigators had operational flexibility to rebuild and keep the infrastructure in working order. In this example, flooding alone was not the principal factor in irrigation system collapse.

Beyond Canal System 2, ceramic chronology indicates Los Muertos was likely occupied very late in prehistory. The presence of late Salado Polychrome types at Los Muertos plausibly stipulated a functioning system beyond the late A.D. 1300s (Howard et al. 2017), after a time when severe flooding (and drought) became common. These volatile and destructive conditions have led some to suggest the chaotic streamflows drove the Hohokam out of their valley homeland (e.g., Graybill et al. 2006; Hill et al.

2015). But, the persistence of high-functioning canals in the Los Muertos system, which transported water tens of kilometers from their headgates during this time, suggests otherwise. Within the Los Muertos System, flooding during the Classic Period clearly did not cause irreparable damage.

Flooding has been emphasized as bringing the Hohokam to an end in the lower Salt River Valley, but flooding is unlikely to have been the sole factor in societal change or collapse. The assumed scale of flooding during the late A.D. 1300s would have occurred across the entirety of the valley. If significant flooding did occur, then the response to its destruction was not universal. While Canal System 2 eventually ceased operation after a series of large alluvial events, a parity in decline is not identifiable in the archaeological record of the Los Muertos System. The increase in annual streamflow discharges reconstructed for previous Salt River flows would have necessitated extensive irrigation maintenance, as seen ethnographically (Woodson 2010a, 2015). Both Canal System 2 and the Los Muertos System were large and perceivably faced similar levels of flood induced damage, so the availability of sufficient labor may have been a prime catalyst in irrigation persistence or not during the late fourteenth century. If it was, then the population decline proposed for Pueblo Grande and Canal System 2 during the late Classic Period (Abbott 2003a) was not paralleled within the Los Muertos System.

The late Colonial/early Sedentary extremely large flood, supplemented by data pertaining to floods in the late fourteenth century, demonstrates one aspect of hydraulic flexibility ingrained into Hohokam irrigation. The exceptional hydraulic event was with little doubt, a life-shattering experience that took lives and profoundly impeded agricultural production. At the level of the irrigation system, however, the irrigation

expansion after the extremely large flood signals that surviving farmers were able to band together to restart agricultural production. Although currently speculative, it may be that population size, and in turn, labor pool size, were important determinates in whether irrigation systems persisted after flooding events or not. After the extremely large flood, many more canals were built in repairable irrigation systems. Irrigation systems that were damaged beyond repair were replaced by new systems, as occurred with the Sedimento System. I suggest that a large enough population resided in each irrigation system to absorb an astronomical level of labor to restart agricultural production after the largest flood identifiable in the Hohokam geoarchaeological record. If labor is the key to Hohokam flexibility against detrimental flooding, then population declines during the fourteenth century would have increased flooding vulnerability for irrigation systems with demographic dynamics similar to Canal System 2.

Synthesis Topic 2: Standardized Irrigation Units

Standardized irrigation units (SIU) provide a new perspective for understanding Hohokam irrigation in the lower Salt River Valley. As detailed in Chapter 4, SIUs were far more sophisticated than reported in previous Hohokam literature. I argued that SIUs allowed for more efficient water usage and easier expansion than previous Hohokam irrigation models.

The previous irrigation model, best exemplified by Howard (1990, 2006:26–29), had water entering a main canal through a headgate located in an intake area. Water was then either delivered directly to agricultural fields along the main canal or redirected through a branch canal out to field areas. According to this model, water entering a branch canal had to travel perpendicularly to the main canal to increase water pressure to

reach the end of the branch, and irrigation occurred on only the downslope side of the canal. Increasing agricultural land required new branch canals to be built at the end of the previous branch. New branch canal construction would cease once the main canal terminus was reached. Irrigation system members would then have to invest extensive labor in constructing a new main canal.

Historic aerial photographs and recent excavations demonstrate that Hohokam irrigation was likely much more interconnected and water-efficient than proposed by Howard. Data aggregated for this research revealed that water entered a main canal through a headgate in an intake area, as was proposed by Howard, but once in the main canal, water traveled an interconnected network of canals. Often a short distance from the intake, the main canal bifurcated into two parallel canals. Between the bifurcated canals were primary laterals, secondary laterals, and then field turnout canals. This arrangement of canals likely would have been more advantageous than the irrigation model detailed by Howard. First, water was not lost once it left the main canal. Instead, when irrigation needs were met, water could be directed to other connected SIUs. The ability to direct water to areas of need would have been a boon during times of decreased water availability, since any water entering the systems would have been used to a high potential. Second, SIUs would have allowed for the lateral growth of new agricultural areas. When new land was needed, canals could be further bifurcated until either water pressure could not be maintained in the new canals or there was not additional available land.

SIUs are seen in historic aerial photographs across the lower Salt River Valley, suggesting that they were sensible and easily managed by the Hohokam. The use of SIUs

by the Hohokam is possibly unique among agrarian societies because comparable examples are not found historically (Robert Hunt, personal communication 2019. Ethnographically documented irrigation systems often rely upon a single main canal. Hohokam irrigation systems operated not only more than one main canal, but water from more than one main canal may have been intermixed to meet agricultural demands. A well-organized labor pool could be assumed to have been necessary to stave off entropy in the multiple operating canals, but without ethnographically documented accounts, it is difficult to deduce how the SIUs worked. Several avenues for future research were therefore proposed in Chapter 4.

SIUs provide a new approach to estimating irrigated acreage. As outlined in Chapter 5, for over a half-century, Hohokam archaeologists have correlated canal cross-sectional area with irrigated acreage. Although refined by Ackerly (1989) and Howard (1990), estimates assumed that canal length and a portion of its cross-sectional area were directly linked to the amount of agricultural land serviced. Woodson's (2010a) reevaluation of irrigated acreage did agree that there was a close relationship between canal length and agricultural land, but the secondary variable was lateral distance from major canals, rather than canal cross-sectional area. Woodson therefore suggested that ethnohistoric and archaeological canal evidence indicated that Hohokam agricultural land was located along major canals, in a strip 254 m on each side of those canals.

The analysis of SIU patterning in historic aerial photographs signaled that Woodson was likely correct that agricultural production occurred next to canals, but not continuously over the length of a canal. Instead, agricultural production occurred only between bifurcated canals (see Figure 89). The aerial photographs and the Sky Harbor

SkyTrain project both illustrated that sections of canals existed without fields next to them. This revelation meant that the Hohokam irrigated hundreds to thousands of acres less than previously assumed. The downward acreage refinement (e.g., compare acreage estimates shown in Chapter 5 to Howard [1993, 2006]) convincingly shows that SIUs were highly productive and provided Hohokam farmers with flexibility against water deficits.

The water sufficiency analysis (Chapter 7) indicated that SIU water demand was likely consistently below the available water threshold through time, given certain assumptions. During much of Hohokam history, farmers likely could have comfortably irrigated above estimated SIU acreage and below Woodson's buffer methodology estimates. Further, before the Classic Period, the amount of land the Hohokam farmers could have irrigated was greater than either acreage estimate, based on many water sufficiency scenarios for the Pioneer through Sedentary periods. The fact that water demand was consistently met for SIU acreage estimates during the first agricultural cycle, but not always for buffer acreage estimates, suggests that the key to Hohokam irrigation longevity was the ability to absorb some level of agricultural yield losses, assuming that the amount of irrigable land planted was between the two estimates. Following this line of reasoning, it can be speculated that SIU acreage estimates may have represented an agricultural production minimum. Future research is needed to test what the productive potential of prehistoric land along the lower Salt River may have been and what population levels it could have maintained assuming SIU and buffer acreage estimates.

An important aspect not explored in this study, but a critical avenue for future research, is the kinds of social relationships that existed among Hohokam farmers in the

lower Salt River Valley. Ethnographic and previous Hohokam irrigation studies highlight the importance of strong bonds between irrigators for system longevity. Farmers across irrigation systems were dependent upon other system members participating in labor-intensive tasks, such as new canal construction and annual cleaning (e.g., Howard 2006; Hunt et al. 2005; Woodson 2010b, 2014). Without assurances that other members will contribute their share of labor, irrigation systems fall apart (Ostrom 1990; Ostrom and Gardner 1993; Tang 1992).

In the irrigation model Howard (2006) presented, farmers up and down systems would have depended on each other for main canal construction and maintenance. Farmers then were dependent upon their task group for construction and maintenance tasks of branch canals. Finally, the distribution canals were the responsibility of households. Howard's model can be viewed in terms of linear obligations. Farmer irrigation relationships were to their household, their task group, and then their shared main canal. Inherent in Howard's model is that farmers needed to interact with irrigators from beyond their settlement area when only contributing labor for the multi-settlement spanning main canals.

The intricacy of delivering water across SIUs raises the question of how encompassing social relations along the lower Salt River may have been. Farmers must have relied on multiple other irrigators to open and close the proper gates to keep the water flowing with sufficient pressure. If so, then a farmer would have relied on irrigators both up canal and those that were upslope beside them. Would the linear obligations implied for Howard's irrigation model also manifest for SIU relationships? Or would the relationships radiate out in an arc from a farmer's fields? Future research therefore should

examine farmer labor obligations for SIUs as a way to reconstruct social organization in each irrigation system.

Synthesis Topic 3: Lower Salt River Valley Canal System Reconstructions

As stated above, my research represents one of the most detailed studies of preindustrial large-scale irrigation systems in the world. Among the Hohokam, irrigation systems have been subject to investigation (e.g., Ackerly and Henderson 1989; Hackbarth et al. 1995; Howard 1987, 1990, 2006; Nicholas 1981), but this study is the first to discuss, in detail, the developmental history of multiple systems, which were woven together into a valley-wide reconstruction. Although Woodson (2010a) conducted a multi-system reconstruction along the middle Gila River prior to the present work, the scale of the lower Salt systems far exceeded any in the Hohokam region and many ancient irrigation societies around the world as well.

Prior to my study, researchers thought only four major Hohokam irrigation systems operated along the lower Salt River (Howard 2006): Canal System 1, Canal System 2, Scottsdale System, and Lehi System. As summarized by Howard (2006), three of the four systems (Canal System 1, Canal System 2, and Scottsdale System) operated successfully until sometime during the Sedentary Period, when the Lehi System was constructed. According to Howard (2006), the establishment of the Lehi infrastructure was a tipping point toward water hardship.

A more dynamic characterization of lower Salt River irrigation is now evident. Rather than four systems, survey and excavation data and aerial photographic analysis demarcated eight major systems in the valley: (1) Coyote, (2) Lehi, (3) Los Muertos, (4) Crismon, (5) Scottsdale, (6) Sedimento, (7) Riverview, and (8) Canal System 2. The

increased number of systems derived from incorporating previously little-known information from the Coyote System area, and a detailed review of multiple lines of evidence from the Canal System 1 area. Although no longer a single system, the developmental histories of the four systems formerly lumped together as Canal System 1 (Crimson, Sedimento, Riverview, and Los Muertos) provide a richer and more accurate narrative than was previously possible in the lower Salt River Valley.

The evidence now suggests that Canal System 2 and the Coyote, Crismon, and Sedimento systems began operating sometime during the Pioneer Period. Those four systems were joined by an early version of the Scottsdale System built during the Colonial Period. As mentioned above, the late Colonial/early Sedentary extremely large flood fundamentally altered irrigation in the lower Salt River Valley. After the extremely large flood, the Riverview System replaced the Sedimento System. The Scottsdale System was reestablished with the intake area moved further upriver. The Lehi System was built. Also, the distribution of field areas and extent of irrigated acreage exceeded previous periods. The changes provided a foundation for agricultural production far beyond irrigation developments before the flood. Finally, the Los Muertos System was established during the early Classic Period.

Although archaeological data from the Lehi System area are scarce, it appears that the system fell out of operation during the late Classic Period; with system members possibly joining the Los Muertos System. Chronological data (e.g., radiocarbon dating and ceramic cross-dating) indicated the six remaining systems (Coyote, Los Muertos, Crismon, Scottsdale, Riverview, and Canal System 2) continued operation through the

late Classic Period, and some (Los Muertos, Crismon, Riverview, and Canal System 2) persisted as small-scale enterprises after large-scale (multi-village) irrigation had ceased.

A tantalizing insight garnered from the irrigation system reconstructions was the shift in Canal System 2's agricultural importance (Chapter 5). The disproportionally greater growth of Canal System 2, as compared to the Coyote, Crismon, Scottsdale, and Sedimento systems, led to Canal System 2 accounting for 75% of irrigation demand during the Pioneer Period and 67% of demand during the Colonial Period. After the Colonial Period, Canal System 2's position as the agricultural powerhouse along the lower Salt diminished to 27% of valley-wide water demand. The reduction in Canal System 2's proportion of valley-wide demand during the transition into the Sedentary Period exposes an important insight into the nature of water availability along the lower Salt.

Canal System 2 transitioned from the most water demanding to one of many water demanding systems over the course of Hohokam history because agricultural demand grew upriver from the system. Increases in water diversion upriver did not deter growth in Canal System 2 because the system operated at its full extent during the height of agricultural production during the Classic Period. The water sufficiency analysis argued that Canal System 2 should have decreased in size as water availability declined during the Classic Period, due to high upriver demand. But, as discussed in Chapter 7, the placement of Canal System 2's intake downriver from the Papago/Tempe butte bedrock reef allowed it to tap into water not available to systems upriver (see Chapter 4 for discussion of the bedrock reef). Persistent water shortages were simply not an actualized threat to Canal System 2's longevity.

Water availability in the Riverview System, however, was possibly challenging. Located at the penultimate position along the lower Salt, the Riverview System faced persistent water shortages at some acre-feet water demands above SIU acreage estimates after the Sedentary Period. Unlike in Canal System 2, the Riverview farmers were completely reliant on enough surface water reaching their intake to meet agricultural demand. If water demand remained near buffer acreage estimates, then the Riverview System would have plausibly fallen out of use early in the Classic Period. The occupation of at least Los Hornos through the late Classic Period signals that the system did not decline. Instead, available data tentatively suggest the Riverview System flourished until the end of the Hohokam cultural sequence. The disconnect between the water sufficiency analysis results and the Riverview System archaeological record is therefore an avenue for future research.

In the case of both Canal System 2 and the Riverview System, increased water demand upriver and declines in total water entering the lower Salt River Valley did not critically imperil irrigation longevity. There appears to have been sufficient water frequently enough to offset agricultural failures in the downriver systems. If Hohokam farmers would have been operating near the buffer acreage estimates, then the downriver systems would have become very small or ceased operation during the Classic Period. This scenario perceivably did not come to fruition, so as discussed above for SIUs, the Hohokam along the lower Salt likely irrigated less acreage than previously thought. The ability to irrigate agricultural land at extents between SIU and buffer acreage estimates would have provided the ancient farmers agricultural production flexibility. Intentionality is beyond the scope of this study, but whatever form the flexibility took, be it the ability

to absorb a percentage of crop loss or some other factor (e.g., social reciprocity), it allowed the irrigation systems to persist with agricultural yields that fluctuated year to year.

Another aspect of ancient irrigation hinted at in the analyzed data, but not explored, is the extent to which Hohokam social organization was manifested in irrigation. The reconstruction showed that Canal System 1, was not a single system, but four much smaller ones. This finding implies that the maximum scale of hydraulic management in the lower Salt River Valley was less than formerly understood. Further, the reconstruction showed that systems were operationally independent. It was previously accepted that a single authority did not control irrigation across the valley (e.g., Hunt et al. 2005; Howard 2006), but this reconstruction goes one step further. It shows that the irrigation systems may have engaged decision-making amongst smaller units. The smaller sizes of the individual systems possibly reduced the social distance between members and the highest levels of management. If true for the Hohokam, then it would have aided the ancient farmers in rapidly organizing and repairing/maintaining hydraulic infrastructure (cf. Erickson 2006).

Synthesis Topic 4: Lower Salt River Valley Agricultural Success

Agricultural production in the lower Salt River Valley is an exemplar of success. The prehistoric farmers assembled one of the world's largest and most organizationally complex irrigation operations in an arid environment. The 800-year-long irrigation longevity unequivocally demonstrates the Hohokam knew what they were doing. Prior to my study, the lower Salt was thought to reach its peak of prosperity during the Sedentary Period and then slide toward collapse over the Classic Period (e.g., Abbott 2003b). Data

present in the water sufficiency and agricultural success analyses chapter (Chapter 7) highlight that Hohokam irrigation persisted because of farmers resilience, allowing for greater agricultural success than previously characterized.

Canal System 2 Agricultural Success through Perched Underflow

An important result of this study is Canal System 2's irrigation developmental history now aligns with its settlement history. Howard's (1993) agricultural success study explicitly implied that Canal System 2 should have collapsed much earlier than it did. The shift from water deficits one of four years (early Classic Period) to three of four years (late Classic Period), as Howard (2006:242) identified, would have made agricultural production in Canal System 2 untenable. As water availability declined, the location where sufficient surface water could be diverted would move up river as the Classic Period progressed. Howard's study results therefore insinuate that surface water for irrigation was all but out of reach for Canal System 2 during the Classic Period.

As noted by Howard (2006), his study results ill fit the Canal System 2 settlement history. A precipitous decline in Canal System 2 population did not occur, but rather, several large platform mound villages and neighboring areas were inhabited along the course of the Canal System 2 irrigation infrastructure. Although reliable population estimates do not exist (Fish and Fish 1991:156; Plog 1980:14), it is perceivable that hundreds to thousands of individuals lived in Canal System 2 during the Classic.[8.1] Those populations would have presumably required hundreds to thousands of acres of irrigable land. If so, then water certainly must have been more abundant in Canal System 2 than identified by Howard's study.

The bedrock reef that extended between Papago and Tempe buttes may have been the catalysis for agricultural success in Canal System 2 (see Chapter 4 and 7). Nials and colleagues (Nials et al. 2011) suggested that bedrock reefs were an integral component in Hohokam irrigation. They contended that reefs were necessary because they forced water to the surface that would have been otherwise inaccessible. Assumed in their irrigation model is the idea that water remained at the surface for too short a distance to meet full agricultural demand if unperched. Canal intakes were therefore placed at reefs to capture the resurfaced flow.

Previous bedrock surveys (see Chapter 4) demonstrated that only a single reef existed in the lower Salt River Valley, just to the east of the Canal System 2 intake. Bore tests near the other irrigation system intake areas documented alluvial river deposits extending tens to hundreds of meters below the ground surface. The geologic mechanism to push underflow to the surface was therefore located at only Canal System 2. Rather than a detriment, as insinuated by the Nials and colleagues (Nials et al. 2011) irrigation model, Canal System 2's differential access to perched underflow ensured its longevity.

An estimate of the resurfacing discharge at the Canal System 2 intake (see Chapter 7) indicates a large proportion of the system's water demand may have been satisfied by the perched flow. Any surface flow reaching the intake would have increased yield success, but the agricultural success analysis (Chapter 7) contends very little surface water reached Canal System 2 by the Classic Period. It is clear that the underflow forced to the surface near the Canal System 2 intake was a necessary component for the system to persist through the Classic Period.

First Agricultural Cycle Need Satisfaction

Hohokam production was commonly analyzed at an annual scale (e.g., Howard 1990; Huckleberry 1998, 2015; Phillips and Droz 2004), due to data limitations. Reconstructed lower Salt River streamflow was provided as either annual or summer/winter split discharges. Dendroclimatology, the foundation of the streamflow reconstructions, is not precise enough to account for inter-annual water availability fluctuations, and thus, agriculture success was calculated for these earlier studies using annual discharge.

Studies by Hunt and Ingram (2009, 2013) demonstrated that inter-annual water variability was important because water had to be applied to fields at two points during an agricultural cycle (maize planting and silking; see Chapter 6). Any water that flowed at times other than the key points was not usable for agriculture.

Salt River water availability methodology outlined in Chapter 6 is an important step forward toward refined Hohokam agriculture production estimates. Monthly streamflow proportionality of annual discharge for 1946-2015, make possible the approximate discharges for the agricultural key points identified by Hunt and Ingram. As discussed in Chapter 6, the monthly percentages of annual Salt River streamflow are reasonable. First, the ratios of summer/winter discharge during the historic period were found to be in line with the ratios calculated for the Hohokam cultural sequence periods. The historic monthly percentages of annual flow are therefore appropriate for estimating prehistoric monthly discharges. Second, although the approach does not reliably estimate a discharge for a single month in a single year, the discharge trend provides a viable average estimate. The monthly percentages are therefore relationally correct (e.g., there is

more water available in February than August, but less than during March). Until dendroclimatological methods improve to allow for monthly streamflow reconstructions, the historically derived monthly proportionally method provides the only feasible way to pinpoint available streamflow during agricultural key points.

The water sufficiency analysis detailed in Chapter 7 is the operationalization of Hunt's (2007, 2017) methodology. Dividing water demand among two agricultural cycles demonstrated that production capacity differed greatly between cycles. The agricultural success analysis illustrated that successful production was commonly possible during the first cycle, whereas problematic production marked the second cycle with increasing intensity through time. For water application depths from 1 to 3 af, water deficits crossing the 25% threashold did not occur in any irrigation system during the Pioneer Period for either acreage estimate method. The Colonial Period results mirrored the Pioneer Period results except for Canal System 2 at 2 and 3 af for the buffer acreage estimate. A notable split between SIU and buffer acreage estimates occurred during the Sedentary Period. The SIU acreage estimates continued to be free of deficits exceeding the threshold, but buffer acreage estimates increased in intensity for the second cycle and a lesser degree during the first cycle. Multiple irrigation systems crossed the deficit threshold during the early and late Classic Period for buffer acreage estimates during both cycles, but again, to a lesser degree during the first cycle. Critically, irrigation systems continued to maintain an absence of deficits beyond the threshold for the first cycle SIU acreage estimates.

As shown above, the acreage method estimates and water application depth have an observable effect on agricultural success. In all scenarios, agricultural success always occurred for the first cycle SIU acreage estimates. Conversely, agricultural production

became increasingly fraught for the second cycle buffer acreage estimates beginning as early as the Colonial Period.

Examining multi-year deficits lasting five or more years signaled agricultural success was plausibly more nuanced than suggested by looking at only the total percent of deficit years during a cultural period. The multi-years deficit analysis revealed that deficits lasting five or more years occurred only when deficit years accounted for 41 or more percent of a period and only in the Riverview System for buffer acreage estimates during the Classic Period for 2 and 3 af and commonly in Canal System 2. I proposed that Canal System 2 had more common agricultural success than implied by the water sufficiency analysis because of the bedrock reef, but the Riverview System remains an avenue for future research. The disconnect between the water sufficiency and multi-year analyses and the developmental history of the Riverview System was not solved with data used in this research. If the multi-year deficit analysis better approximates Hohokam agricultural success than the water sufficiency analysis for the first cycle, then it is reasonable to assume that abundant water occurred frequently enough for common agricultural success. The large difference between the water sufficiency analysis results and the multi-year deficit analysis results may suggest that the total percentage of deficit years during a cultural period is not as informative for understanding water insufficiency as the frequency of multi-year deficits. Future research should therefore look toward ethnographic examples to contextualize how total percentage of years and multi-year deficits each affect irrigation system longevity.

The production disparity between agricultural cycles led to the insight that annual agricultural demand may have been satisfied by first cycle yields. Satisfying demand

during the first cycle would have made the second cycle supplementary. In years of declined first cycle production, second cycle yields could have bolstered deficits - although total demand may not have been met. Conversely, if the demand was achieved during the first cycle, any crops brought to maturation during the second cycle could be possibly stored for later use or redirected for other purposes (e.g., exchange). Hunt's (2007, 2017) agricultural success methodology, therefore, provided the necessary refinement to show that Hohokam annual agricultural production in the lower Salt River Valley was more successful over the long-term than previous simulations had indicated (Howard 1993).

Synthesis and Discussion

The primary focus of this study was the relationship between water insufficiency and broad-scale social change. The overarching research question posed was: Could water insufficiency have prompted sociopolitical change among the Hohokam? Specifically, my research explored if long-term water deficits were a catalyst for the Preclassic/Classic Transition and for the early to late Classic transition. Howard's (1993, 2006) work had signaled that water deficits increased during the Classic Period, possibly prompting Hohokam irrigation system collapse ca. A.D. 1450. It was, therefore, reasoned at the outset of my research that the two transitions might have been prompted by prolonged water insufficiency.

Sociopolitically, the Preclassic/Classic Transition is notable for the social balkanization of the lower Salt River irrigation systems that were previously interconnected through ballcourt ceremonialism and a marketplace economy. Despite robust evidence for a breakdown of Hohokam social relationships, manifest in ceramic

exchange patterns (Abbott 2000), there had yet to be evidence implying a relatively rapid shift in the long-standing sociopolitical structure brought on by water shortages.

The early to late Classic Period transition was a culmination of the social segregation precipitated during the Preclassic/Classic Transition. Tall compound walls encircled both residential and ritual spaces, cloaking those spaces from public view.

If water deficits did regularly occur among the Hohokam, then one should expect to see evidence for them in the two transitions studied here. What I found instead, regardless of the cultural period, were reasons to believe the Hohokam masterfully managed their hydraulic infrastructure for 800 years, assuming that the water sufficiency analysis qualifications are correct. In the presence of these results, water insufficiency, and thus irrigation dysfunction, seems not to have been a primary factor in the Hohokam sociopolitical transitions.

The late Colonial/early Sedentary extremely large flood demonstrates that flooding is not the catastrophic event found commonly discussed in the Hohokam literature. The extremely large flood exemplifies that lower Salt River farmers were flexible and well adapted to both expected (e.g., annual) and unanticipated alluvial events. Archaeological evidence clearly shows that the extremely large flood caused widespread agricultural problems, through intake and canal destruction, but its lasting effect was a rebirth of lower Salt irrigation that supported large-scale agricultural production documented for the Sedentary and Classic periods. Although perceivably catastrophic to the farmers who live through it, the extremely large flood fundamentally reshaped the Hohokam cultural trajectory from slow incremental growth prior to the

flood to relatively explosive and expansive agricultural production and development after the flood.

The standardized irrigation unit (SIU) model provides a new characterization for Hohokam irrigation system organization. Previous models presented Hohokam irrigation as relatively simple. Irrigators were responsible for constructing and maintaining main canals and distribution canals leading to their fields. Farmers were conceptualized as strongly anchored to their local command area, but weakly tied across irrigation systems (e.g., Howard 2006).

SIU infrastructural organization would have required a high level of social interaction among farmers across an irrigation system to allow for agricultural success. Cooperation was not only required among farmers up and down main canals. Farmers were also tied to irrigators with field areas surrounding their own. The interconnections were necessary because water originated both directly from the lower Salt River and from other field areas with excess water. Water mixing and the intricate coordination needed to open and close the multiple canal gates in the SIU field areas likely would have required diverse but unified social entities. The reconstructions highlight that Hohokam society was fully capable of expanding and managing large-scale irrigation works.

It is significant in this regard that the lower Salt River irrigation system developmental reconstructions are unprecedented. Although not the largest ancient network of irrigated infrastructure in the world, the lower Salt reconstructions are likely the most detailed examination of large-scale agriculture within a preindustrial non-state society.

Finally, an important outcome of this dissertation research is that agricultural production was likely far more successful than previously thought in at least three ways. First, it now appears that the first agricultural cycle may have been central to meeting annual agricultural demand. The results of the water sufficiency analysis results revealed the first cycle success depended on the parameters of time, acreage method, and water application depth. These variable states chosen affected the water deficit frequency per cultural period. However, the lack of first cycle multi-year deficits among lower Salt River systems, except for Canal System 2 and the Riverview System at 2 or more af during the Classic Period, signals a successful trend. As mentioned above, the frequency of multi-year deficits may be a better indicator of irrigation system success, than the total percentage of deficit years per cultural period.

The ability to meet demand during the first cycle would have made the second cycle yield supplementary. Years when the first cycle yielded less than expected, second cycle crops could have sometimes supplemented deficits, but perhaps, not completely. In years when demand was met during the first cycle, second cycle yields could have been stored or used for other purposes (cf. Hunt 2017). The capacity for agricultural demand to be met typically during the first cycle signals that Hohokam agricultural production was well adapted for meeting nutritional needs. Agricultural production work by Hunt and others (Adams 2015; Adams et al. 1999; Hunt 2015, 2017; Hunt and Ingram 2014; Sandor and Homburg 2015) provide a methodological pathway for testing the supposition that nutritional needs could be met during the first cycle.

Second, the bedrock reef extending between Papago and Tempe buttes was likely the catalyst for Canal System 2's longevity. Without the reef, the amount of available

water for agricultural production in Canal System 2 would have declined over time. Sometime during the Classic Period, the declines would have resulted in no water reaching the system's intake. Canal System 2's persistence was therefore attributable to the reef.

Third, Hohokam agricultural production may have been adapted for longevity through flexibility in the acreages successfully watered. The irrigated acreage range, bounded by SIU and buffer acreage estimates, provides a window for viewing when agricultural success likely ensued and when problematic production probably occurred. The water sufficiency analysis showed that there were multiple instances when demands for SIU acreage estimates were met, but not buffer acreage estimates. In those cases, the amount of land that could have been successfully irrigated would be between the two acreage estimates. Flexibility is indicated by the irrigation systems persisting through time, despite the amount of land irrigated fluctuating between the two acreage estimates.

In all, the evidence presented here argues against the sociopolitical transformations during the Preclassic/Classic Transition and the beginning of the late Classic Period arising from persistent water deficits. It does not seem likely that water deficits were severe enough to trigger the cascade of cultural changes involved in those transformations, based on the water sufficiency analysis and its assumptions discussed above. Future studies of those two transformations can now focus on other plausible causal factors (e.g., social stress).

Future Directions

My study provided many new insights about Hohokam irrigation that spawn the need for future research. Critical unresolved matters that could refine my results include:

1. The standardized irrigation units (SIU) need further chronological refinement to determine when the Hohokam first used those networks of canals along the lower Salt River. As exemplified by the Sky Harbor Sky Train project, SIU documentation requires particular excavation methods (e.g., mechanical stripping) to reveal their structure on the ground. Further, advancements in single-grain optically stimulated luminescence (OSL) dating now provide a more precise dating of when SIU infrastructure was used, as derived from when alluvial deposits were last exposed to sunlight. The use of single-grain OSL during the Sky Train project was crucial for dating the exposed SIU infrastructure. The antiquity of intricate canal networks recorded at Las Capas in Tucson and my observation that canals predating the Sedentary are deeply buried, and thus, are not observable in historic aerial photographs, leads to an expectation of pre-Sedentary Period SIUs.
2. The social organization of the SIUs needs to be reconstructed. Although not known ethnographically, roles documented in traditional irrigation systems during the historic period would certainly illuminate aspects of SIU social structure. The managing of labor for maintenance tasks and the scheduling of water distribution are common necessities in agrarian societies across the world. The work of Robert Hunt (1988; Hunt and Hunt 1976; Hunt et al. 2005), Elinor Ostrom (1990, 1992; Ostrom and Gardner 1993), and others (e.g., Anderies 2006; Janssen et al. 2011, 2012; Tang 1992; Uphoff 1992) provides a starting point.
3. The late Colonial/early Sedentary extremely large flood needs further geoarchaeological study to refine its dating and extent. A geomorphological

baseline has been documented in the Riverview Archaeological Project area and elsewhere south of the lower Salt River (Phillips et al. 2004), but extremely large flood deposits have yet to be definitively identified north of the river. Areas near the river in the Canal System 2 and the Coyote and Scottsdale systems need to be mechanically trenched to reveal alluvial deposit stratigraphy. Resulting cross-sectional profiles will provide the necessary data to build a comprehensive history of flooding in the lower Salt River Valley through time.

4. Morphological baselines must be established for ancient agricultural crops, such as cotton, bean, and squash, to refine prehistoric water demand estimations. My water sufficiency analysis assumed that water was applied to fields at only two points during each agricultural cycle, following the work of Hunt and Ingram (2014). Adams and colleagues (Adams et al. 1999), however, demonstrated that the number of irrigation events impacted yield abundance. A maize crop could be brought to maturation with one water application, but five applications produced the most substantial yields. Depending on when each crop needed water, the water application depth, and the percentage each crop contributed to each cycle's agricultural assemblage (e.g., 50% if land devoted to maize, 20% to cotton, 10% to beans, and so forth), irrigation may have occurred more than twice a cycle and water demand may therefore differ from estimates tested here.
5. A range of water deficit thresholds must be tested. I used a threshold of 25% of years with water deficits, following previous work by Howard (1993b, 2006), because there was no other preexisting rationale for different deficit thresholds. The multi-year water deficit analysis revealed that deficits lasting five or more

years occurred only for the Riverview System at 3 and 4 af, and Canal System 2 during the Classic Period. Further, those relatively long-term deficits occurred only when a system had more than 40% of years with water deficits. Water sufficiency analyses therefore need to be carried out for higher deficit thresholds to ascertain if the water insufficiency trends I identified manifest in other threshold scenarios.

6. The monthly prehistoric Salt River streamflow estimates should be quantified statistically through the calculation of confidence intervals. I accounted for discharge variance through linear regression, but it is unclear if my results are robust at 1-sigma above-the-mean and 1-sigma below-the-mean. If there is stability in the overall pattering at the positive and negative sigma, then my results will be shown to be very strong. If, however, patterning diverges from those discussed in this study, then there would be multiple water and social scenarios to describe and compare to the valley's archaeological record.

Notes

8.1 Minimum population estimates for Pueblo Grande were 227 people per generation during the Sedentary Period, 519 people per generation during the early Classic Period, and 504-1134 people per generation during the late Classic Period (Abbott and Foster 2003:43–44).

Pueblo Grande is the best-documented village in the lower Salt River Valley. Although the State Route 143 Hohokam Expressway project (Foster 1994) documented a large strip across the eastern third of the village, settlement boundary location and total room counts through time are not known. The minimum population estimates for Pueblo Grande do however provide a baseline for speculating about Canal System 2 demographics. Assuming that other large Canal System 2 settlements (e.g., Las Colinas and La Cuidad) were at least half the Pueblo Grande minimum estimate, then there may have been a thousand or more individuals residing within the system at any one point during the Sedentary through Classic.

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APPENDIX A

HISTORIC MONTHLY SALT RIVER STREAMFLOW DISCHARGE (ACRE-FEET) BETWEEN 1946 AND 2015

APPENDIX A. HISTROIC MONTHLY SALT RIVER STREAMFLOW DISCHARGE

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
1946	36850	29450	48810	82570	23746	12629	22192	66270	137220	31410	63170	77810	632127
1947	48630	45390	52060	40320	111550	13801	13747	53510	57418	56478	30750	41800	565454
1948	34220	43310	129000	241430	58960	19039	22352	37680	14145	18754	24732	57240	700862
1949	216530	147050	333050	270140	90360	38701	45660	51680	32020	48580	28020	33460	1335251
1950	34530	80740	71670	46520	22992	13112	34810	25643	19863	16767	20510	23979	411136
1951	26980	26630	33310	33320	41430	12890	12841	205330	35050	24190	31130	196390	679491
1952	601210	70480	307180	489360	166280	48080	25120	43390	30860	21647	36500	41180	1881287
1953	46730	27540	111580	48500	32720	18495	47070	42040	17123	16390	20896	24892	453976
1954	26790	25210	281020	99500	31320	13882	42800	64340	33760	21207	21455	24482	685766
1955	29290	25368	38060	24017	18230	32150	46920	186920	25020	20252	23106	32410	501743
1956	30790	40780	60350	50870	30562	12360	21957	24032	10546	15396	20294	22647	340584
1957	190220	200880	90420	49340	44810	30163	24177	88570	29360	29400	85320	32970	895630
1958	26750	99950	406890	320690	123930	32513	13946	35990	78140	61540	29470	28540	1258349
1959	26180	34500	36320	25500	16369	10323	29580	130550	22060	96280	105630	311180	844472
1960	272580	93850	329710	117020	52990	24118	14020	22310	22944	29790	26200	26124	1031656
1961	25950	24004	37370	58820	19989	11721	16888	36270	39690	19100	29935	56270	376007
1962	97410	229210	210670	296390	82130	24377	17403	17635	25323	27426	26370	31540	1085884
1963	87950	67090	68730	63970	25797	11179	10322	152400	83870	32080	35130	28560	667078
1964	25900	23159	35890	125480	31740	13932	29430	99150	64440	28291	24510	30130	532052
1965	247150	146260	228110	498460	111930	41652	35342	47210	35160	20484	121526	815600	2348884
1966	191610	67290	313190	169170	65600	23686	21868	49410	51990	31010	30050	215400	1230274
1967	33900	28440	34040	35620	21587	17757	36420	106220	55770	24525	24372	177320	595971
1968	243580	359990	276670	211240	102490	36840	29400	68840	23570	29230	29260	33060	1444170
1969	263980	92780	209480	199530	78120	26873	23640	35900	46740	26264	35270	32480	1071057
1970	31510	26848	96210	75500	52365	19900	24550	41620	173660	30740	25210	28090	626203
1971	32050	31250	31510	32198	23418	15259	14195	67740	60500	166570	63260	188510	726460
1972	126600	36700	43500	26769	20563	20091	18950	21205	22389	613620	164050	213380	1327817
1973	149590	294880	586200	746380	463620	94560	48920	38120	22346	24133	30690	33350	2532789
1974	54890	29740	59910	46390	28387	14018	23130	32070	19939	69310	61810	28890	468484
1975	28400	56050	279440	376590	217910	57455	41630	22672	40685	22110	25520	32670	1201132
1976	29810	252670	87450	151470	77440	24090	33770	39250	27370	28130	26352	28280	806082

APPENDIX A. HISTROIC MONTHLY SALT RIVER STREAMFLOW DISCHARGE

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
1977	34970	27660	29910	53210	30945	16051	21847	41300	32202	31310	14355	25502	359262
1978	75930	272660	1534900	232610	80150	27486	20360	36560	21400	39670	213620	665920	3221266
1979	397970	368200	1184500	523230	215670	95610	42520	57630	32700	26420	33180	34760	3012390
1980	345170	1396900	377440	338560	197710	65230	43120	48340	32960	33920	39130	38610	2957090
1981	37300	34100	77930	107530	47750	21552	28720	39360	30513	62400	34380	36860	558395
1982	85430	134500	498600	161960	91740	32660	21990	44170	43820	26684	76530	369910	1587994
1983	141570	366350	685630	403130	235810	84920	41850	40188	100900	405280	51530	262090	2819248
1984	94190	54050	68220	71320	48110	20112	38110	73240	60060	97460	57700	472620	1155192
1985	235600	233230	493980	254200	151520	48030	34170	41020	45680	51810	102530	87800	1779570
1986	41790	136240	289780	139380	48400	27595	103850	42630	37670	60420	75940	94040	1097735
1987	51680	106740	322520	221650	96060	32522	21312	48780	24185	30895	119140	43880	1119364
1988	100640	209670	110310	234490	93450	28681	31050	124290	107630	34910	30470	34160	1139751
1989	47710	65390	104330	48740	24086	14196	17775	36400	16620	23264	26068	29975	454554
1990	32092	29670	56400	43420	25179	13203	48619	43500	35690	137390	30559	90090	585812
1991	154150	56240	765700	346050	111700	41885	21669	28786	37487	22507	33030	80480	1699684
1992	120080	269850	447580	251660	107480	63000	30180	186100	42740	28350	30900	231860	1809780
1993	1855000	1017600	518060	346620	161100	55210	27890	41800	43050	52120	79650	115850	4313950
1994	800390	538670	290980	118140	65590	32040	25520	43500	76040	32080	104310	90040	2217300
1995	250740	511690	552740	115990	83880	39000	22871	31733	33650	26626	29630	32020	1730570
1996	32170	17190	29050	23098	15854	12990	25723	27147	60250	23391	32617	33598	333078
1997	91520	66470	189730	102550	47387	19105	13461	24649	36361	37135	41240	55920	725528
1998	64540	139590	433100	536000	62900	41820	41800	30100	35260	14307	18821	22540	1440778
1999	20934	42540	56640	63260	13207	7466	25710	3321	48754	26085	25032	27550	360499
2000	28200	25874	36940	27220	15536	16273	10560	198957	17992	45725	86652	22570	532499
2001	18090	31624	97630	113270	46806	11767	10655	24347	11155	20584	21946	26893	434767
2002	26482	22963	23333	19749	13949	8950	21043	26241	48112	20550	26898	28875	287145
2003	30482	80280	319020	94670	46850	16445	16038	29278	66400	18610	29936	26500	774509
2004	26820	26730	121670	68430	25177	10026	18664	25100	49010	35510	93660	194890	695687
2005	578710	939700	256180	151200	83430	27732	19135	41620	21834	21709	23612	26952	2191814
2006	27229	22928	28310	27369	15314	9828	38794	176950	57280	33722	26196	26746	490666
2007	29089	45960	69810	42033	25256	11915	25591	95950	27490	19054	20929	283670	696747

APPENDIX A. HISTROIC MONTHLY SALT RIVER STREAMFLOW DISCHARGE

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
2008	549720	332930	283420	113920	53410	24548	32950	45680	49795	26887	27399	151160	1691819
2009	103330	140430	136040	66830	42860	18579	15457	12550	18592	16120	20361	28930	620079
2010	451800	193060	395400	272760	105940	27658	33610	78330	27570	30200	22625	49200	1688153
2011	44840	43840	79020	34630	20637	12617	15865	30210	25623	20792	24967	45020	398061
2012	35600	31520	64590	45530	18870	9540	16862	33199	23676	16752	20671	28350	345161
2013	133640	57220	166180	53800	27841	11373	35820	43910	89870	26112	35668	34715	716149
2014	29300	28256	54191	21292	15036	9432	17342	53350	44547	40767	24556	33912	371981
2015	57178	77166	138789	28785	25907	16432	33238	31406	31814	34732	68630	49684	593761
Total	10600636	10953170	16316353	10971360	4927832	1869126	1954791	4035589	3005353	3453364	3195566	6982776	78265916
% of Annual Flow	**0.14**	**0.14**	**0.21**	**0.14**	**0.06**	**0.02**	**0.02**	**0.05**	**0.04**	**0.04**	**0.04**	**0.09**	

APPENDIX B

RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE (ACRE-FEET)

BETWEEN A.D. 740-1450

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Pioneer	740	**1125700**	157540	157801	58044	49670
Pioneer	741	**767900**	107466	107645	39595	33882
Pioneer	742	**425500**	59548	59647	21940	18775
Pioneer	743	**846900**	118522	118719	43668	37368
Pioneer	744	**610300**	85410	85552	31469	26929
Pioneer	745	**867500**	121405	121607	44730	38277
Pioneer	746	**1016300**	142229	142466	52403	44843
Pioneer	747	**1370500**	191799	192117	70666	60471
Pioneer	748	**692100**	96858	97019	35686	30538
Pioneer	749	**1069500**	149675	149923	55146	47190
Pioneer	750	**401000**	56119	56212	20677	17694
Pioneer	751	**364400**	50997	51082	18789	16079
Pioneer	752	**799400**	111875	112060	41219	35272
Pioneer	753	**871000**	121895	122097	44911	38432
Pioneer	754	**789700**	110517	110701	40719	34844
Pioneer	755	**669800**	93737	93893	34537	29554
Pioneer	756	**1008600**	141152	141386	52006	44503
Pioneer	757	**563600**	78875	79006	29061	24868
Pioneer	758	**863800**	120887	121088	44540	38114
Pioneer	759	**1380500**	193198	193519	71182	60912
Pioneer	760	**1000100**	139962	140195	51568	44128
Pioneer	761	**397000**	55559	55652	20470	17517
Pioneer	762	**759800**	106333	106509	39177	33525
Pioneer	763	**1258000**	176055	176347	64866	55507
Pioneer	764	**685500**	95934	96094	35346	30247
Pioneer	765	**157900**	22098	22135	8142	6967
Pioneer	766	**1473300**	206186	206528	75967	65007
Pioneer	767	**745700**	104359	104533	38450	32903
Pioneer	768	**1518900**	212567	212920	78318	67019
Pioneer	769	**961700**	134588	134812	49588	42434
Pioneer	770	**620200**	86796	86940	31979	27365
Pioneer	771	**1124400**	157358	157619	57977	49612
Pioneer	772	**1376200**	192597	192916	70960	60723
Pioneer	773	**901400**	126149	126359	46478	39773
Pioneer	774	**574700**	80428	80562	29633	25358

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Pioneer	774	**574700**	80428	80562	29633	25358
Pioneer	775	**1381000**	193268	193589	71208	60935
Pioneer	776	**1424500**	199356	199687	73451	62854
Pioneer	777	**762300**	106682	106860	39306	33635
Pioneer	778	**611200**	85536	85678	31515	26968
Pioneer	779	**445700**	62375	62478	22981	19666
Pioneer	780	**984800**	137821	138050	50779	43453
Pioneer	781	**1040300**	145588	145830	53641	45902
Pioneer	782	**545400**	76328	76454	28122	24065
Pioneer	783	**1216700**	170275	170558	62736	53685
Pioneer	784	**1194300**	167140	167418	61581	52697
Pioneer	785	**1362700**	190707	191024	70264	60127
Pioneer	786	**489500**	68505	68618	25240	21598
Pioneer	787	**1176400**	164635	164908	60658	51907
Pioneer	788	**639600**	89511	89659	32979	28221
Pioneer	789	**862300**	120677	120878	44462	38048
Pioneer	790	**1027300**	143769	144007	52970	45328
Pioneer	791	**417300**	58400	58497	21517	18413
Pioneer	792	**673200**	94213	94370	34712	29704
Pioneer	793	**1264000**	176894	177188	65175	55772
Pioneer	794	**678900**	95011	95169	35006	29955
Pioneer	795	**671200**	93933	94089	34609	29616
Pioneer	796	**699700**	97922	98084	36078	30873
Pioneer	797	**406200**	56847	56941	20945	17923
Pioneer	798	**1805400**	252662	253082	93091	79661
Pioneer	799	**1126000**	157582	157843	58059	49683
Colonial	800	**1053900**	147491	147736	54342	46502
Colonial	801	**1630800**	228227	228606	84088	71957
Colonial	802	**1054900**	147631	147876	54393	46546
Colonial	803	**2176600**	304611	305117	112231	96039
Colonial	804	**1696100**	237366	237760	87455	74838
Colonial	805	**2192200**	306794	307304	113035	96727
Colonial	806	**1143700**	160059	160325	58972	50464
Colonial	807	**941400**	131747	131966	48541	41538
Colonial	808	**411200**	57547	57642	21203	18144

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Colonial	809	**362100**	50675	50759	18671	15977
Colonial	810	**1527100**	213715	214070	78741	67381
Colonial	811	**1060500**	148415	148661	54682	46793
Colonial	812	**1249000**	174795	175086	64402	55110
Colonial	813	**1175700**	164537	164810	60622	51876
Colonial	814	**1072800**	150136	150386	55316	47336
Colonial	815	**804600**	112602	112789	41487	35502
Colonial	816	**712100**	99657	99823	36718	31420
Colonial	817	**663200**	92814	92968	34196	29263
Colonial	818	**518300**	72535	72656	26725	22869
Colonial	819	**984700**	137807	138036	50774	43448
Colonial	820	**1395700**	195326	195650	71966	61583
Colonial	821	**1289300**	180435	180735	66480	56888
Colonial	822	**1834100**	256679	257105	94571	80927
Colonial	823	**520500**	72843	72964	26838	22966
Colonial	824	**822100**	115051	115242	42390	36274
Colonial	825	**396400**	55475	55568	20439	17491
Colonial	826	**1299400**	181849	182151	67000	57334
Colonial	827	**1041100**	145700	145942	53682	45937
Colonial	828	**665700**	93163	93318	34325	29373
Colonial	829	**794000**	111119	111303	40941	35034
Colonial	830	**415200**	58106	58203	21409	18320
Colonial	831	**1279600**	179078	179375	65979	56460
Colonial	832	**798900**	111805	111990	41193	35250
Colonial	833	**1221100**	170891	171174	62963	53879
Colonial	834	**1486200**	207991	208336	76632	65576
Colonial	835	**1144400**	160157	160423	59008	50495
Colonial	836	**1258000**	176055	176347	64866	55507
Colonial	837	**724800**	101434	101603	37373	31981
Colonial	838	**124300**	17396	17424	6409	5485
Colonial	839	**593600**	83073	83211	30608	26192
Colonial	840	**367800**	51473	51558	18965	16229
Colonial	841	**847400**	118592	118789	43694	37390
Colonial	842	**922400**	129088	129303	47561	40699
Colonial	843	**1176500**	164649	164922	60663	51911

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Colonial	844	**909800**	127325	127536	46912	40144
Colonial	845	**1159100**	162214	162483	59766	51144
Colonial	846	**764100**	106934	107112	39399	33715
Colonial	847	**416700**	58316	58413	21486	18386
Colonial	848	**1105400**	154699	154956	56997	48774
Colonial	849	**590500**	82639	82777	30448	26055
Colonial	850	**1105200**	154671	154928	56987	48765
Colonial	851	**785400**	109915	110098	40497	34655
Colonial	852	**1332000**	186411	186721	68681	58772
Colonial	853	**787600**	110223	110406	40611	34752
Colonial	854	**1475800**	206535	206878	76096	65117
Colonial	855	**736100**	103016	103187	37955	32479
Colonial	856	**1476500**	206633	206977	76132	65148
Colonial	857	**904100**	126527	126737	46618	39892
Colonial	858	**1263300**	176796	177090	65139	55741
Colonial	859	**1046100**	146400	146643	53940	46158
Colonial	860	**746900**	104527	104701	38512	32956
Colonial	861	**1173500**	164229	164502	60509	51779
Colonial	862	**1117700**	156420	156680	57631	49317
Colonial	863	**1041100**	145700	145942	53682	45937
Colonial	864	**832900**	116563	116756	42946	36750
Colonial	865	**579600**	81114	81249	29886	25574
Colonial	866	**847600**	118620	118817	43704	37399
Colonial	867	**578200**	80918	81052	29813	25512
Colonial	868	**916000**	128193	128405	47231	40417
Colonial	869	**1473500**	206214	206556	75977	65016
Colonial	870	**729000**	102022	102192	37589	32166
Colonial	871	**905500**	126723	126933	46690	39954
Colonial	872	**734500**	102792	102963	37873	32409
Colonial	873	**1457300**	203946	204285	75142	64301
Colonial	874	**907700**	127031	127242	46803	40051
Colonial	875	**1175200**	164467	164740	60596	51854
Colonial	876	**1468700**	205542	205883	75730	64804
Colonial	877	**936400**	131047	131265	48283	41317
Colonial	878	**717800**	100455	100622	37012	31672

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Colonial	879	**735300**	102904	103075	37914	32444
Colonial	880	**1278300**	178896	179193	65912	56403
Colonial	881	**1195800**	167350	167628	61658	52763
Colonial	882	**802800**	112350	112537	41394	35422
Colonial	883	**525500**	73543	73665	27096	23187
Colonial	884	**447400**	62613	62717	23069	19741
Colonial	885	**963100**	134784	135008	49660	42495
Colonial	886	**739400**	103478	103650	38125	32625
Colonial	887	**1039900**	145532	145774	53620	45884
Colonial	888	**1891500**	264712	265152	97531	83460
Colonial	889	**530700**	74270	74394	27364	23416
Colonial	890	**1362700**	190707	191024	70264	60127
Colonial	891	**1298900**	181779	182081	66975	57312
Colonial	892	**563200**	78819	78950	29040	24850
Colonial	893	**1164800**	163012	163282	60060	51395
Colonial	894	**658000**	92086	92239	33928	29033
Colonial	895	**639600**	89511	89659	32979	28221
Colonial	896	**823400**	115233	115425	42457	36331
Colonial	897	**1445600**	202309	202645	74539	63785
Colonial	898	**1456200**	203792	204131	75085	64253
Colonial	899	**2599800**	363837	364441	134052	114712
Colonial	900	**435200**	60905	61007	22440	19203
Colonial	901	**788600**	110363	110546	40662	34796
Colonial	902	**599700**	83927	84066	30922	26461
Colonial	903	**494400**	69190	69305	25493	21815
Colonial	904	**507300**	70996	71114	26158	22384
Colonial	905	**895300**	125296	125504	46164	39504
Colonial	906	**596800**	83521	83660	30773	26333
Colonial	907	**531100**	74326	74450	27385	23434
Colonial	908	**953500**	133441	133662	49165	42072
Colonial	909	**948800**	132783	133003	48923	41864
Colonial	910	**645200**	90295	90444	33268	28468
Colonial	911	**1159600**	162284	162553	59792	51166
Colonial	912	**1152000**	161220	161488	59400	50830
Colonial	913	**882100**	123448	123653	45483	38921

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Colonial	914	**919700**	128710	128924	47422	40580
Colonial	915	**1298000**	181653	181954	66928	57272
Colonial	916	**629600**	88111	88258	32464	27780
Colonial	917	**1439500**	201455	201790	74224	63516
Colonial	918	**820200**	114785	114976	42292	36190
Colonial	919	**808500**	113148	113336	41688	35674
Colonial	920	**401500**	56189	56282	20702	17716
Colonial	921	**739100**	103436	103607	38110	32612
Colonial	922	**492700**	68952	69067	25405	21740
Colonial	923	**612800**	85760	85903	31598	27039
Colonial	924	**495900**	69400	69516	25570	21881
Colonial	925	**777600**	108824	109004	40095	34310
Colonial	926	**1232900**	172542	172829	63571	54400
Colonial	927	**908600**	127157	127368	46850	40091
Colonial	928	**1785100**	249821	250236	92044	78765
Colonial	929	**1472800**	206116	206458	75941	64985
Colonial	930	**928300**	129914	130130	47865	40960
Colonial	931	**1476900**	206689	207033	76153	65166
Colonial	932	**1091800**	152795	153049	56296	48174
Colonial	933	**643000**	89987	90136	33155	28371
Colonial	934	**668000**	93485	93641	34444	29474
Colonial	935	**736700**	103100	103271	37986	32506
Colonial	936	**994400**	139164	139396	51274	43876
Colonial	937	**546000**	76412	76539	28153	24091
Colonial	938	**1407300**	196949	197276	72564	62095
Colonial	939	**993500**	139038	139269	51227	43837
Colonial	940	**1195900**	167364	167642	61664	52767
Colonial	941	**1379600**	193072	193393	71136	60873
Colonial	942	**1566200**	219187	219551	80757	69106
Colonial	943	**411900**	57645	57740	21239	18174
Colonial	944	**1232600**	172500	172787	63556	54387
Colonial	945	**1505200**	210650	211000	77612	66415
Colonial	946	**1209700**	169295	169576	62375	53376
Colonial	947	**1094900**	153229	153484	56456	48311
Colonial	948	**1475100**	206438	206780	76060	65087

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Colonial	949	**1376700**	192667	192987	70986	60745
Colonial	950	**1057200**	147953	148199	54512	46647
Colonial	951	**525100**	73487	73609	27075	23169
Colonial	952	**1168500**	163529	163801	60251	51558
Colonial	953	**951300**	133133	133354	49051	41975
Colonial	954	**310700**	43482	43554	16020	13709
Colonial	955	**729300**	102064	102234	37605	32179
Colonial	956	**1072200**	150052	150302	55285	47309
Colonial	957	**399100**	55853	55946	20579	17610
Colonial	958	**1102300**	154265	154521	56837	48637
Colonial	959	**1164000**	162900	163170	60019	51360
Colonial	960	**1549200**	216808	217168	79881	68356
Colonial	961	**713700**	99881	100047	36800	31491
Colonial	962	**1311700**	183570	183875	67635	57877
Colonial	963	**911600**	127577	127789	47004	40223
Colonial	964	**849600**	118900	119097	43808	37487
Colonial	965	**1466100**	205178	205519	75596	64689
Colonial	966	**934200**	130740	130957	48170	41220
Colonial	967	**663200**	92814	92968	34196	29263
Colonial	968	**547800**	76664	76791	28246	24171
Colonial	969	**949100**	132825	133045	48938	41878
Colonial	970	**908000**	127073	127284	46819	40064
Colonial	971	**792700**	110937	111121	40874	34977
Colonial	972	**635800**	88979	89127	32783	28054
Colonial	973	**1642900**	229921	230303	84712	72490
Colonial	974	**716000**	100203	100369	36919	31592
Colonial	975	**387700**	54258	54348	19991	17107
Colonial	976	**980800**	137261	137489	50573	43276
Colonial	977	**1223100**	171171	171455	63066	53967
Colonial	978	**720500**	100833	101000	37151	31791
Colonial	979	**530600**	74256	74380	27359	23412
Colonial	980	**383800**	53712	53801	19790	16935
Colonial	981	**450100**	62991	63095	23208	19860
Colonial	982	**1078800**	150976	151227	55626	47600
Colonial	983	**976000**	136589	136816	50325	43065

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Colonial	984	**461200**	64544	64651	23781	20350
Colonial	985	**799400**	111875	112060	41219	35272
Colonial	986	**1152000**	161220	161488	59400	50830
Colonial	987	**1133700**	158659	158923	58456	50023
Colonial	988	**1525700**	213519	213873	78669	67319
Colonial	989	**1457500**	203974	204313	75152	64310
Colonial	990	**550500**	77041	77169	28385	24290
Colonial	991	**493800**	69106	69221	25462	21788
Colonial	992	**1188700**	166356	166633	61292	52450
Colonial	993	**450900**	63103	63207	23250	19895
Colonial	994	**1005000**	140648	140881	51820	44344
Colonial	995	**883400**	123630	123836	45550	38979
Colonial	996	**891400**	124750	124957	45963	39332
Colonial	997	**769000**	107620	107799	39652	33931
Colonial	998	**894700**	125212	125420	46133	39477
Colonial	999	**736000**	103002	103173	37950	32475
Sedentary	1000	**1072300**	150066	150316	55291	47314
Sedentary	1001	**601600**	84193	84333	31020	26545
Sedentary	1002	**1066900**	149311	149559	55012	47075
Sedentary	1003	**946300**	132433	132653	48794	41754
Sedentary	1004	**1375300**	192471	192790	70914	60683
Sedentary	1005	**402900**	56385	56479	20775	17777
Sedentary	1006	**1597000**	223497	223868	82345	70465
Sedentary	1007	**1208900**	169183	169464	62334	53341
Sedentary	1008	**901500**	126163	126373	46484	39777
Sedentary	1009	**628900**	88013	88160	32428	27749
Sedentary	1010	**1360500**	190399	190716	70151	60030
Sedentary	1011	**1240000**	173536	173824	63938	54713
Sedentary	1012	**922300**	129074	129289	47556	40695
Sedentary	1013	**790200**	110587	110771	40745	34866
Sedentary	1014	**479100**	67049	67161	24704	21140
Sedentary	1015	**1514900**	212007	212360	78112	66843
Sedentary	1016	**754800**	105633	105808	38919	33304
Sedentary	1017	**1497300**	209544	209892	77205	66066
Sedentary	1018	**625900**	87594	87739	32273	27617

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Sedentary	1019	**625600**	87552	87697	32258	27604
Sedentary	1020	**1369900**	191715	192033	70636	60445
Sedentary	1021	**746100**	104415	104589	38471	32921
Sedentary	1022	**787900**	110265	110448	40626	34765
Sedentary	1023	**533500**	74662	74786	27509	23540
Sedentary	1024	**1296000**	181373	181674	66825	57184
Sedentary	1025	**690000**	96564	96725	35578	30445
Sedentary	1026	**957700**	134028	134251	49381	42257
Sedentary	1027	**983000**	137569	137797	50686	43373
Sedentary	1028	**785400**	109915	110098	40497	34655
Sedentary	1029	**923400**	129228	129443	47613	40744
Sedentary	1030	**978300**	136911	137139	50444	43166
Sedentary	1031	**926800**	129704	129919	47788	40894
Sedentary	1032	**1028900**	143993	144232	53053	45399
Sedentary	1033	**836700**	117095	117289	43142	36918
Sedentary	1034	**740900**	103688	103860	38203	32691
Sedentary	1035	**544400**	76188	76314	28071	24021
Sedentary	1036	**619500**	86698	86842	31943	27334
Sedentary	1037	**824300**	115359	115551	42503	36371
Sedentary	1038	**826200**	115625	115817	42601	36455
Sedentary	1039	**526000**	73613	73735	27122	23209
Sedentary	1040	**710700**	99461	99626	36645	31359
Sedentary	1041	**504600**	70618	70735	26018	22265
Sedentary	1042	**926400**	129648	129863	47768	40876
Sedentary	1043	**1004900**	140634	140867	51815	44340
Sedentary	1044	**554600**	77615	77744	28597	24471
Sedentary	1045	**1217500**	170387	170670	62777	53720
Sedentary	1046	**819700**	114715	114906	42266	36168
Sedentary	1047	**1305800**	182744	183048	67330	57616
Sedentary	1048	**713300**	99825	99991	36780	31473
Sedentary	1049	**960100**	134364	134587	49505	42363
Sedentary	1050	**1152900**	161346	161614	59446	50870
Sedentary	1051	**855300**	119698	119896	44101	37739
Sedentary	1052	**1837500**	257155	257582	94746	81077
Sedentary	1053	**877500**	122805	123008	45246	38718

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Sedentary	1054	**1466100**	205178	205519	75596	64689
Sedentary	1055	**784600**	109803	109986	40456	34619
Sedentary	1056	**1178900**	164985	165259	60787	52017
Sedentary	1057	**1056200**	147813	148059	54460	46603
Sedentary	1058	**828200**	115905	116098	42704	36543
Sedentary	1059	**741500**	103772	103944	38234	32718
Sedentary	1060	**1200300**	167980	168259	61891	52961
Sedentary	1061	**1114800**	156014	156273	57482	49189
Sedentary	1062	**611000**	85508	85650	31505	26959
Sedentary	1063	**1201300**	168120	168399	61942	53006
Sedentary	1064	**898800**	125785	125994	46344	39658
Sedentary	1065	**1036600**	145070	145311	53450	45738
Sedentary	1066	**1086700**	152082	152334	56033	47949
Sedentary	1067	**310500**	43454	43526	16010	13700
Sedentary	1068	**792500**	110909	111093	40863	34968
Sedentary	1069	**721900**	101029	101196	37223	31853
Sedentary	1070	**766100**	107214	107392	39502	33803
Sedentary	1071	**1029500**	144077	144316	53084	45425
Sedentary	1072	**875700**	122553	122756	45153	38639
Sedentary	1073	**682300**	95487	95645	35181	30105
Sedentary	1074	**845500**	118326	118523	43596	37306
Sedentary	1075	**871100**	121909	122111	44916	38436
Sedentary	1076	**1216100**	170191	170474	62705	53659
Sedentary	1077	**1172100**	164033	164306	60436	51717
Sedentary	1078	**913000**	127773	127985	47077	40285
Sedentary	1079	**1618300**	226478	226854	83444	71405
Sedentary	1080	**1344500**	188160	188473	69326	59324
Sedentary	1081	**608800**	85200	85342	31391	26862
Sedentary	1082	**1555200**	217647	218009	80190	68621
Sedentary	1083	**958600**	134154	134377	49428	42297
Sedentary	1084	**1078100**	150878	151129	55590	47570
Sedentary	1085	**597300**	83591	83730	30798	26355
Sedentary	1086	**516500**	72283	72403	26632	22790
Sedentary	1087	**1914500**	267931	268376	98716	84474
Sedentary	1088	**663100**	92800	92954	34191	29258

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Sedentary	1089	**1569200**	219607	219971	80912	69239
Sedentary	1090	**528100**	73907	74029	27230	23302
Sedentary	1091	**570700**	79868	80001	29427	25181
Sedentary	1092	**1156500**	161850	162119	59632	51029
Sedentary	1093	**781800**	109411	109593	40312	34496
Sedentary	1094	**593000**	82989	83127	30577	26165
Sedentary	1095	**1047700**	146624	146867	54022	46228
Sedentary	1096	**1025200**	143475	143713	52862	45235
Sedentary	1097	**593800**	83101	83239	30618	26201
Sedentary	1098	**688000**	96284	96444	35475	30357
Sedentary	1099	**541600**	75796	75922	27926	23897
Early Classic	1100	**1138200**	159289	159554	58688	50221
Early Classic	1101	**569100**	79644	79777	29344	25111
Early Classic	1102	**840200**	117584	117780	43323	37073
Early Classic	1103	**1121100**	156896	157156	57807	49467
Early Classic	1104	**691000**	96704	96865	35630	30489
Early Classic	1105	**1638400**	229291	229672	84480	72292
Early Classic	1106	**784300**	109761	109944	40440	34606
Early Classic	1107	**544500**	76202	76328	28076	24025
Early Classic	1108	**760100**	106375	106551	39193	33538
Early Classic	1109	**1134300**	158743	159007	58487	50049
Early Classic	1110	**861600**	120579	120780	44426	38017
Early Classic	1111	**862400**	120691	120892	44468	38052
Early Classic	1112	**1024900**	143433	143671	52846	45222
Early Classic	1113	**650100**	90980	91131	33521	28685
Early Classic	1114	**1477700**	206801	207145	76194	65201
Early Classic	1115	**1067600**	149409	149657	55048	47106
Early Classic	1116	**995600**	139332	139564	51336	43929
Early Classic	1117	**1161200**	162508	162778	59874	51236
Early Classic	1118	**846300**	118438	118635	43637	37342
Early Classic	1119	**1167200**	163347	163619	60184	51501
Early Classic	1120	**548200**	76720	76847	28267	24188
Early Classic	1121	**588000**	82290	82426	30319	25945
Early Classic	1122	**1524500**	213351	213705	78607	67266
Early Classic	1123	**781000**	109300	109481	40270	34460

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Early Classic	1124	**1106600**	154867	155124	57059	48827
Early Classic	1125	**799100**	111833	112018	41204	35259
Early Classic	1126	**869200**	121643	121845	44818	38352
Early Classic	1127	**1411200**	197495	197823	72765	62267
Early Classic	1128	**1077900**	150850	151101	55579	47561
Early Classic	1129	**1935400**	270856	271305	99794	85397
Early Classic	1130	**1033200**	144594	144835	53274	45588
Early Classic	1131	**536600**	75096	75221	27668	23677
Early Classic	1132	**678000**	94885	95042	34959	29916
Early Classic	1133	**472600**	66139	66249	24368	20853
Early Classic	1134	**750700**	105059	105234	38708	33123
Early Classic	1135	**821400**	114953	115144	42353	36243
Early Classic	1136	**887800**	124246	124452	45777	39173
Early Classic	1137	**617500**	86418	86561	31840	27246
Early Classic	1138	**990900**	138675	138905	51093	43722
Early Classic	1139	**1078800**	150976	151227	55626	47600
Early Classic	1140	**641300**	89749	89898	33067	28296
Early Classic	1141	**1167300**	163361	163633	60189	51505
Early Classic	1142	**628900**	88013	88160	32428	27749
Early Classic	1143	**776300**	108642	108822	40028	34253
Early Classic	1144	**1078700**	150962	151213	55621	47596
Early Classic	1145	**1062900**	148751	148998	54806	46899
Early Classic	1146	**392200**	54888	54979	20223	17305
Early Classic	1147	**1628400**	227892	228270	83964	71851
Early Classic	1148	**949200**	132839	133059	48943	41882
Early Classic	1149	**1187300**	166160	166436	61220	52388
Early Classic	1150	**358600**	50185	50269	18490	15823
Early Classic	1151	**772300**	108082	108261	39822	34077
Early Classic	1152	**1173800**	164271	164544	60524	51792
Early Classic	1153	**1127200**	157750	158012	58121	49736
Early Classic	1154	**1227100**	171730	172016	63272	54144
Early Classic	1155	**1221400**	170933	171217	62978	53892
Early Classic	1156	**426900**	59744	59843	22012	18836
Early Classic	1157	**1104800**	154615	154871	56966	48748
Early Classic	1158	**428600**	59982	60081	22100	18911

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Early Classic	1159	**1072500**	150094	150344	55301	47322
Early Classic	1160	**1094200**	153131	153386	56420	48280
Early Classic	1161	**575300**	80512	80646	29664	25384
Early Classic	1162	**1505400**	210678	211028	77622	66423
Early Classic	1163	**1239000**	173396	173684	63886	54669
Early Classic	1164	**741300**	103744	103916	38223	32709
Early Classic	1165	**1308300**	183094	183398	67459	57727
Early Classic	1166	**791500**	110769	110953	40812	34924
Early Classic	1167	**1294900**	181219	181520	66768	57135
Early Classic	1168	**348900**	48828	48909	17990	15395
Early Classic	1169	**533100**	74606	74730	27488	23522
Early Classic	1170	**800100**	111973	112158	41255	35303
Early Classic	1171	**1181500**	165349	165623	60921	52132
Early Classic	1172	**1263200**	176783	177076	65134	55737
Early Classic	1173	**1517200**	212329	212682	78231	66944
Early Classic	1174	**742100**	103856	104028	38265	32744
Early Classic	1175	**392000**	54860	54951	20213	17296
Early Classic	1176	**724500**	101392	101561	37357	31967
Early Classic	1177	**494900**	69260	69375	25518	21837
Early Classic	1178	**1221400**	170933	171217	62978	53892
Early Classic	1179	**673800**	94297	94454	34743	29730
Early Classic	1180	**1127100**	157736	157998	58116	49732
Early Classic	1181	**1269100**	177608	177903	65438	55997
Early Classic	1182	**427400**	59814	59913	22038	18858
Early Classic	1183	**1137400**	159177	159441	58647	50186
Early Classic	1184	**1555100**	217633	217995	80185	68616
Early Classic	1185	**824300**	115359	115551	42503	36371
Early Classic	1186	**608600**	85172	85314	31381	26854
Early Classic	1187	**1232900**	172542	172829	63571	54400
Early Classic	1188	**855800**	119768	119967	44127	37761
Early Classic	1189	**762500**	106710	106888	39316	33644
Early Classic	1190	**1337300**	187153	187463	68955	59006
Early Classic	1191	**804500**	112588	112775	41482	35497
Early Classic	1192	**619500**	86698	86842	31943	27334
Early Classic	1193	**630100**	88181	88328	32490	27802

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Early Classic	1194	**819200**	114646	114836	42240	36146
Early Classic	1195	**1268300**	177496	177791	65397	55962
Early Classic	1196	**1043800**	146078	146320	53821	46056
Early Classic	1197	**1680600**	235197	235587	86656	74154
Early Classic	1198	**752000**	105241	105416	38775	33181
Early Classic	1199	**658354**	92135	92288	33946	29049
Early Classic	1200	**2179034**	304952	305458	112356	96147
Early Classic	1201	**1802435**	252247	252666	92938	79530
Early Classic	1202	**1501591**	210145	210494	77426	66255
Early Classic	1203	**1011770**	141595	141831	52169	44643
Early Classic	1204	**1000217**	139979	140211	51574	44133
Early Classic	1205	**651327**	91152	91303	33584	28739
Early Classic	1206	**705040**	98669	98833	36354	31109
Early Classic	1207	**1020460**	142811	143049	52617	45026
Early Classic	1208	**776736**	108703	108883	40050	34272
Early Classic	1209	**1425807**	199539	199870	73518	62912
Early Classic	1210	**1190864**	166659	166936	61404	52545
Early Classic	1211	**1150901**	161066	161334	59343	50782
Early Classic	1212	**1163432**	162820	163091	59989	51335
Early Classic	1213	**803931**	112509	112695	41453	35472
Early Classic	1214	**530530**	74247	74370	27355	23409
Early Classic	1215	**453586**	63479	63584	23388	20014
Early Classic	1216	**476529**	66689	66800	24571	21026
Early Classic	1217	**372873**	52183	52270	19226	16452
Early Classic	1218	**848928**	118806	119003	43773	37458
Early Classic	1219	**1327023**	185714	186023	68425	58553
Early Classic	1220	**756430**	105861	106037	39003	33376
Early Classic	1221	**608876**	85211	85353	31395	26866
Early Classic	1222	**749736**	104924	105098	38658	33081
Early Classic	1223	**1015072**	142057	142293	52340	44788
Early Classic	1224	**891269**	124731	124939	45956	39326
Early Classic	1225	**927961**	129866	130082	47848	40945
Early Classic	1226	**1012821**	141742	141978	52224	44689
Early Classic	1227	**291891**	40850	40917	15051	12879
Early Classic	1228	**1988732**	278319	278782	102544	87750

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Early Classic	1229	**1527233**	213733	214088	78748	67387
Early Classic	1230	**1199611**	167883	168162	61855	52931
Early Classic	1231	**908940**	127204	127416	46867	40106
Early Classic	1232	**1613906**	225863	226238	83217	71211
Early Classic	1233	**606341**	84856	84997	31264	26754
Early Classic	1234	**676601**	94689	94846	34887	29854
Early Classic	1235	**1322737**	185115	185422	68204	58364
Early Classic	1236	**671503**	93976	94132	34624	29629
Early Classic	1237	**1084234**	151737	151989	55906	47840
Early Classic	1238	**1504869**	210604	210953	77595	66400
Early Classic	1239	**1087873**	152246	152499	56093	48001
Early Classic	1240	**668899**	93611	93767	34490	29514
Early Classic	1241	**1617753**	226402	226778	83415	71381
Early Classic	1242	**1090743**	152647	152901	56241	48127
Early Classic	1243	**1039655**	145498	145739	53607	45873
Early Classic	1244	**1011672**	141582	141817	52164	44638
Early Classic	1245	**883715**	123674	123880	45567	38993
Early Classic	1246	**520778**	72882	73003	26853	22979
Early Classic	1247	**768295**	107522	107700	39615	33900
Early Classic	1248	**1513176**	211766	212118	78023	66767
Early Classic	1249	**1602720**	224298	224670	82640	70718
Early Classic	1250	**696419**	97463	97624	35909	30728
Early Classic	1251	**317301**	44406	44479	16361	14000
Early Classic	1252	**850541**	119032	119229	43856	37529
Early Classic	1253	**1130164**	158164	158427	58274	49867
Early Classic	1254	**241587**	33810	33866	12457	10660
Early Classic	1255	**1609337**	225224	225598	82982	71010
Early Classic	1256	**1138826**	159377	159641	58721	50249
Early Classic	1257	**932124**	130449	130666	48063	41129
Early Classic	1258	**383167**	53623	53713	19757	16907
Early Classic	1259	**3273589**	458133	458894	168795	144442
Early Classic	1260	**910395**	127408	127620	46942	40170
Early Classic	1261	**1057842**	148043	148289	54545	46676
Early Classic	1262	**1141589**	159763	160029	58863	50371
Early Classic	1263	**411260**	57555	57651	21206	18146

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Early Classic	1264	**667185**	93371	93526	34402	29439
Early Classic	1265	**946004**	132392	132611	48778	41741
Early Classic	1266	**974880**	136433	136659	50267	43015
Early Classic	1267	**1224547**	171373	171658	63141	54031
Early Classic	1268	**1537037**	215105	215463	79253	67819
Early Classic	1269	**1001928**	140218	140451	51662	44209
Early Classic	1270	**617503**	86418	86562	31840	27246
Early Classic	1271	**1273042**	178160	178456	65641	56171
Early Classic	1272	**914508**	127984	128196	47154	40351
Early Classic	1273	**583838**	81707	81843	30104	25761
Early Classic	1274	**933784**	130681	130898	48148	41202
Early Classic	1275	**3848066**	538530	539424	198416	169790
Early Classic	1276	**381810**	53434	53522	19687	16847
Early Classic	1277	**958938**	134202	134425	49445	42312
Early Classic	1278	**590019**	82572	82709	30423	26034
Early Classic	1279	**2020312**	282739	283208	104172	89143
Early Classic	1280	**458620**	64183	64290	23648	20236
Early Classic	1281	**1101903**	154209	154465	56817	48620
Early Classic	1282	**928247**	129906	130122	47863	40957
Early Classic	1283	**510748**	71478	71597	26335	22536
Early Classic	1284	**995807**	139361	139593	51346	43938
Early Classic	1285	**796721**	111500	111685	41081	35154
Early Classic	1286	**364981**	51078	51163	18819	16104
Early Classic	1287	**854102**	119530	119728	44040	37686
Early Classic	1288	**274261**	38382	38446	14142	12101
Early Classic	1289	**877914**	122862	123066	45267	38737
Early Classic	1290	**1526097**	213574	213929	78689	67337
Early Classic	1291	**777748**	108844	109025	40103	34317
Early Classic	1292	**635412**	88925	89072	32763	28037
Early Classic	1293	**1379635**	193077	193398	71137	60874
Early Classic	1294	**778299**	108922	109102	40131	34341
Early Classic	1295	**366094**	51234	51319	18877	16153
Early Classic	1296	**1509244**	211216	211567	77820	66593
Early Classic	1297	**769726**	107722	107901	39689	33963
Early Classic	1298	**2367636**	331346	331897	122081	104468

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Early Classic	1299	**348458**	48766	48847	17967	15375
Late Classic	1300	**1180595**	165222	165496	60874	52092
Late Classic	1301	**2164936**	302979	303482	111630	95525
Late Classic	1302	**2214990**	309984	310499	114211	97733
Late Classic	1303	**1916255**	268176	268622	98807	84552
Late Classic	1304	**917535**	128407	128621	47310	40485
Late Classic	1305	**2734412**	382676	383311	140993	120652
Late Classic	1306	**924900**	129438	129653	47690	40810
Late Classic	1307	**538891**	75417	75542	27787	23778
Late Classic	1308	**830231**	116189	116382	42809	36633
Late Classic	1309	**1809127**	253184	253604	93283	79825
Late Classic	1310	**2507400**	350906	351489	129288	110635
Late Classic	1311	**1193758**	167064	167342	61553	52673
Late Classic	1312	**1881446**	263305	263742	97012	83016
Late Classic	1313	**2158724**	302109	302611	111309	95250
Late Classic	1314	**1027290**	143767	144006	52970	45328
Late Classic	1315	**541419**	75771	75896	27917	23889
Late Classic	1316	**379894**	53165	53254	19588	16762
Late Classic	1317	**1593920**	223066	223437	82187	70329
Late Classic	1318	**1781790**	249358	249772	91874	78619
Late Classic	1319	**1262158**	176637	176930	65080	55691
Late Classic	1320	**1049305**	146848	147092	54105	46299
Late Classic	1321	**1862436**	260644	261077	96032	82177
Late Classic	1322	**1034651**	144797	145038	53349	45652
Late Classic	1323	**815984**	114196	114385	42074	36004
Late Classic	1324	**815890**	114182	114372	42069	36000
Late Classic	1325	**2096269**	293369	293856	108089	92495
Late Classic	1326	**1650844**	231033	231416	85122	72841
Late Classic	1327	**859564**	120294	120494	44321	37927
Late Classic	1328	**481454**	67379	67490	24825	21243
Late Classic	1329	**793717**	111079	111264	40926	35022
Late Classic	1330	**1340635**	187619	187931	69127	59153
Late Classic	1331	**1167994**	163459	163730	60225	51536
Late Classic	1332	**1389479**	194455	194778	71645	61309
Late Classic	1333	**1834033**	256670	257096	94567	80924

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Late Classic	1334	**1036280**	145025	145266	53433	45724
Late Classic	1335	**506040**	70819	70937	26093	22328
Late Classic	1336	**1211644**	169567	169849	62475	53462
Late Classic	1337	**1190898**	166664	166941	61406	52547
Late Classic	1338	**420594**	58861	58959	21687	18558
Late Classic	1339	**1146845**	160499	160765	59134	50603
Late Classic	1340	**692272**	96882	97043	35695	30545
Late Classic	1341	**446081**	62428	62532	23001	19683
Late Classic	1342	**946597**	132474	132694	48809	41767
Late Classic	1343	**880606**	123239	123444	45406	38855
Late Classic	1344	**852482**	119303	119501	43956	37614
Late Classic	1345	**898597**	125757	125966	46334	39649
Late Classic	1346	**984860**	137829	138058	50782	43455
Late Classic	1347	**441815**	61831	61934	22781	19494
Late Classic	1348	**828756**	115983	116175	42733	36568
Late Classic	1349	**1263728**	176856	177150	65161	55760
Late Classic	1350	**494491**	69203	69318	25497	21819
Late Classic	1351	**673008**	94186	94343	34702	29695
Late Classic	1352	**696040**	97410	97571	35890	30712
Late Classic	1353	**1315498**	184101	184407	67830	58044
Late Classic	1354	**1294289**	181133	181434	66737	57109
Late Classic	1355	**376571**	52700	52788	19417	16616
Late Classic	1356	**1293821**	181068	181369	66713	57088
Late Classic	1357	**1364557**	190967	191284	70360	60209
Late Classic	1358	**2184390**	305701	306209	112633	96383
Late Classic	1359	**1261032**	176479	176772	65022	55641
Late Classic	1360	**427347**	59806	59906	22035	18856
Late Classic	1361	**755019**	105663	105839	38931	33314
Late Classic	1362	**900570**	126033	126242	46436	39736
Late Classic	1363	**549765**	76939	77066	28347	24258
Late Classic	1364	**1091765**	152791	153044	56294	48172
Late Classic	1365	**808301**	113120	113308	41678	35665
Late Classic	1366	**1295385**	181287	181588	66793	57157
Late Classic	1367	**815161**	114080	114270	42032	35968
Late Classic	1368	**1429866**	200107	200439	73728	63091

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Late Classic	1369	**611786**	85618	85761	31545	26994
Late Classic	1370	**1581045**	221264	221632	81523	69761
Late Classic	1371	**674985**	94463	94620	34804	29783
Late Classic	1372	**1037081**	145137	145379	53474	45760
Late Classic	1373	**1507632**	210990	211341	77737	66522
Late Classic	1374	**1552989**	217338	217699	80076	68523
Late Classic	1375	**805453**	112722	112909	41531	35539
Late Classic	1376	**575968**	80606	80739	29698	25414
Late Classic	1377	**959067**	134220	134443	49452	42317
Late Classic	1378	**735106**	102877	103048	37904	32435
Late Classic	1379	**505044**	70680	70797	26041	22284
Late Classic	1380	**2080032**	291097	291580	107252	91778
Late Classic	1381	**997161**	139551	139783	51416	43998
Late Classic	1382	**1137377**	159174	159438	58646	50185
Late Classic	1383	**998520**	139741	139973	51486	44058
Late Classic	1384	**1006384**	140842	141075	51892	44405
Late Classic	1385	**1014005**	141908	142144	52285	44741
Late Classic	1386	**1080684**	151240	151491	55723	47684
Late Classic	1387	**875466**	122520	122723	45141	38629
Late Classic	1388	**811844**	113616	113805	41861	35821
Late Classic	1389	**720953**	100896	101064	37174	31811
Late Classic	1390	**638719**	89388	89536	32934	28183
Late Classic	1391	**802921**	112367	112554	41401	35428
Late Classic	1392	**1363356**	190799	191116	70298	60156
Late Classic	1393	**737329**	103188	103359	38019	32534
Late Classic	1394	**1229044**	172002	172288	63373	54230
Late Classic	1395	**766007**	107201	107379	39497	33799
Late Classic	1396	**1083945**	151696	151948	55891	47827
Late Classic	1397	**651509**	91177	91329	33593	28747
Late Classic	1398	**885242**	123888	124094	45645	39060
Late Classic	1399	**763329**	106827	107004	39359	33681
Late Classic	1400	**946507**	132462	132682	48804	41763
Late Classic	1401	**940245**	131586	131804	48481	41487
Late Classic	1402	**796088**	111411	111596	41048	35126
Late Classic	1403	**840599**	117640	117836	43343	37090

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Late Classic	1404	**1694851**	237191	237585	87391	74783
Late Classic	1405	**841885**	117820	118016	43410	37147
Late Classic	1406	**1124779**	157411	157672	57996	49629
Late Classic	1407	**454109**	63552	63657	23415	20037
Late Classic	1408	**997532**	139603	139835	51435	44015
Late Classic	1409	**1604338**	224524	224897	82724	70789
Late Classic	1410	**525239**	73506	73628	27083	23175
Late Classic	1411	**614562**	86007	86150	31688	27117
Late Classic	1412	**1150306**	160983	161251	59313	50755
Late Classic	1413	**543897**	76117	76244	28045	23999
Late Classic	1414	**1714775**	239980	240378	88418	75662
Late Classic	1415	**600671**	84063	84202	30972	26504
Late Classic	1416	**812869**	113760	113948	41914	35867
Late Classic	1417	**1186959**	166113	166389	61203	52373
Late Classic	1418	**768516**	107552	107731	39627	33910
Late Classic	1419	**800915**	112087	112273	41297	35339
Late Classic	1420	**1256858**	175895	176187	64807	55457
Late Classic	1421	**437088**	61170	61271	22537	19286
Late Classic	1422	**1075929**	150574	150824	55478	47474
Late Classic	1423	**479011**	67037	67148	24699	21136
Late Classic	1424	**1082265**	151461	151712	55804	47753
Late Classic	1425	**974656**	136401	136628	50256	43005
Late Classic	1426	**1524854**	213400	213755	78625	67282
Late Classic	1427	**1509987**	211320	211671	77859	66626
Late Classic	1428	**1729338**	242018	242420	89169	76304
Late Classic	1429	**954939**	133642	133864	49239	42135
Late Classic	1430	**945226**	132283	132502	48738	41707
Late Classic	1431	**1262550**	176692	176985	65100	55708
Late Classic	1432	**851241**	119130	119327	43892	37560
Late Classic	1433	**1621114**	226872	227249	83589	71529
Late Classic	1434	**1240041**	173541	173830	63940	54715
Late Classic	1435	**578098**	80904	81038	29808	25508
Late Classic	1436	**646948**	90539	90690	33358	28546
Late Classic	1437	**714161**	99945	100111	36824	31511
Late Classic	1438	**502228**	70286	70403	25896	22160

APPENIX B. RETRODICTED LOWER SALT RIVER MONTHLY DISCHARGE

Period	Date	Annual Discharge	February (Planting 1)	April (Silking 1)	August (Planting 2)	October (Silking 2)
Late Classic	1439	**824701**	115415	115607	42524	36389
Late Classic	1440	**1006546**	140864	141098	51900	44412
Late Classic	1441	**1520185**	212747	213100	78385	67076
Late Classic	1442	**537525**	75226	75351	27716	23717
Late Classic	1443	**826155**	115619	115811	42599	36453
Late Classic	1444	**871711**	121994	122197	44948	38463
Late Classic	1445	**671118**	93922	94078	34605	29612
Late Classic	1446	**730741**	102266	102436	37679	32243
Late Classic	1447	**912987**	127771	127983	47076	40284
Late Classic	1448	**471741**	66019	66129	24324	20815
Late Classic	1449	**733013**	102584	102754	37796	32343
Late Classic	1450	**556335**	77858	77987	28686	24547

APPENDIX C

WATER SUFFICIENCY ANALYSIS FOR THE LOWER SALT RIVER VALLEY BETWEEN A.D. 740 - 1450

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	740 Plant 1	741 Plant 1	742 Plant 1	743 Plant 1	744 Plant 1	745 Plant 1	746 Plant 1	747 Plant 1	748 Plant 1	749 Plant 1	750 Plant 1	751 Plant 1	752 Plant 1	753 Plant 1
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895
Coyote	SIU	1	157484	107410	59492	118466	85354	121349	142173	191743	96802	149618	56063	50941	111818	121839
Crismon	SIU	1	157172	107099	59181	118155	85043	121038	141862	191432	96491	149307	55752	50630	111507	121527
Sediment	SIU	1	156936	106862	58944	117918	84806	120801	141625	191195	96254	149071	55515	50393	111271	121291
Canal System 2	SIU	1	155311	105238	57319	116293	83182	119176	140001	189570	94630	147446	53891	48769	109646	119666
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895
Coyote	Buffer	1	157347	107274	59355	118330	85218	121213	142037	191606	96666	149482	55927	50805	111682	121702
Crismon	Buffer	1	156274	106200	58282	117256	84144	120139	140963	190533	95592	148408	54853	49731	110608	120629
Sedimento	Buffer	1	155460	105386	57468	116442	83330	119325	140149	189719	94778	147594	54039	48917	109794	119815
Canal System 2	Buffer	1	149790	99717	51798	110773	77661	113656	134480	184049	89109	141925	48370	43248	104125	114145
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895
Coyote	SIU	2	157427	107354	59436	118410	85298	121293	142117	191687	96746	149562	56007	50885	111762	121783
Crismon	SIU	2	156805	106731	58813	117787	84676	120670	141495	191064	96123	148940	55384	50262	111140	121160
Sediment	SIU	2	156332	106258	58340	117314	84203	120197	141022	190591	95650	148467	54911	49789	110667	120687
Canal System 2	SIU	2	153082	103009	55091	114065	80953	116948	137772	187342	92401	145217	51662	46540	107417	117438
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895
Coyote	Buffer	2	157155	107081	59163	118137	85025	121020	141844	191414	96473	149290	55734	50612	111490	121510
Crismon	Buffer	2	155007	104934	57016	115990	82878	118873	139697	189267	94326	147142	53587	48465	109342	119363
Sedimento	Buffer	2	153379	103306	55388	114362	81250	117245	138069	187639	92698	145514	51959	46837	107714	117735
Canal System 2	Buffer	2	142041	91967	44049	103023	69911	105906	126730	176300	81359	134176	40620	35498	96376	106396

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	757 Plant 1	758 Plant 1	759 Plant 1	760 Plant 1	761 Plant 1	762 Plant 1	763 Plant 1	764 Plant 1	765 Plant 1	766 Plant 1	767 Plant 1	768 Plant 1	769 Plant 1	770 Plant 1
Start (Pioneer)			78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588	86796
Coyote	SIU	1	78819	120831	193142	139906	55503	106277	175999	95878	22042	206130	104303	212511	134532	86740
Crismon	SIU	1	78507	120520	192831	139595	55192	105965	175687	95567	21730	205818	103992	212200	134221	86428
Sediment	SIU	1	78271	120283	192595	139358	54956	105729	175451	95331	21494	205582	103755	211963	133984	86192
Canal System 2	SIU	1	76646	118659	190970	137734	53331	104104	173826	93706	19869	203957	102131	210339	132360	84567
Start (Pioneer)			78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588	86796
Coyote	Buffer	1	78682	120695	193006	139770	55367	106140	175862	95742	21905	205993	104167	212375	134396	86603
Crismon	Buffer	1	77609	119621	191932	138696	54293	105067	174789	94668	20832	204920	103093	211301	133322	85530
Sedimento	Buffer	1	76795	118807	191118	137882	53479	104253	173975	93854	20018	204106	102279	210487	132508	84716
Canal System 2	Buffer	1	71125	113138	185449	132213	47810	98583	168305	88185	14348	198436	96610	204818	126839	79046
Start (Pioneer)			78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588	86796
Coyote	SIU	2	78763	120775	193086	139850	55447	106220	175943	95822	21986	206073	104247	212455	134476	86684
Crismon	SIU	2	78140	120152	192464	139227	54825	105598	175320	95200	21363	205451	103625	211832	133853	86061
Sediment	SIU	2	77667	119679	191991	138754	54352	105125	174847	94727	20890	204978	103152	211359	133380	85588
Canal System 2	SIU	2	74418	116430	188741	135505	51102	101875	171598	91477	17641	201728	99902	208110	130131	82339
Start (Pioneer)			78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588	86796
Coyote	Buffer	2	78490	120502	192813	139577	55174	105948	175670	95549	21713	205801	103974	212182	134203	86411
Crismon	Buffer	2	76343	118355	190666	137430	53027	103800	173523	93402	19566	203653	101827	210035	132056	84264
Sedimento	Buffer	2	74715	116727	189038	135802	51399	102172	171895	91774	17938	202025	100199	208407	130428	82636
Canal System 2	Buffer	2	63376	105388	177699	124463	40060	90834	160556	80435	6599	190687	88860	197068	119089	71297

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	771 Plant 1	772 Plant 1	773 Plant 1	774 Plant 1	775 Plant 1	776 Plant 1	777 Plant 1	778 Plant 1	779 Plant 1	780 Plant 1	781 Plant 1	782 Plant 1	783 Plant 1	784 Plant 1
Start (Pioneer)			157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	SIU	1	157302	192541	126093	80372	193212	199300	106626	85480	62319	137765	145532	76272	170219	167084
Crismon	SIU	1	156990	192229	125782	80061	192901	198989	106315	85169	62007	137454	145221	75960	169908	166773
Sediment	SIU	1	156754	191993	125545	79824	192664	198752	106079	84932	61771	137217	144984	75724	169671	166536
Canal System 2	SIU	1	155129	190368	123921	78200	191040	197128	104454	83308	60146	135592	143359	74099	168046	164911
Start (Pioneer)			157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	Buffer	1	157165	192404	125957	80236	193076	199164	106490	85344	62182	137628	145396	76135	170082	166948
Crismon	Buffer	1	156092	191331	124883	79162	192002	198090	105416	84270	61109	136555	144322	75062	169009	165874
Sedimento	Buffer	1	155278	190517	124069	78348	191188	197276	104602	83456	60295	135741	143508	74248	168195	165060
Canal System 2	Buffer	1	149608	184847	118400	72679	185519	191607	98933	77787	54625	130071	137839	68578	162525	159391
Start (Pioneer)			157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	SIU	2	157245	192484	126037	80316	193156	199244	106570	85424	62263	137709	145476	76216	170163	167028
Crismon	SIU	2	156623	191862	125414	79693	192534	198621	105948	84802	61640	137086	144853	75593	169540	166405
Sediment	SIU	2	156150	191389	124941	79220	192061	198148	105475	84329	61167	136613	144380	75120	169067	165932
Canal System 2	SIU	2	152900	188139	121692	75971	188811	194899	102225	81079	57918	133364	141131	71871	165818	162683
Start (Pioneer)			157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	Buffer	2	156973	192212	125764	80043	192883	198971	106297	85151	61990	137436	145203	75943	169890	166755
Crismon	Buffer	2	154825	190064	123617	77896	190736	196824	104150	83004	59843	135289	143056	73796	167743	164608
Sedimento	Buffer	2	153197	188436	121989	76268	189108	195196	102522	81376	58215	133661	141428	72168	166115	162980
Canal System 2	Buffer	2	141859	177098	110650	64929	177769	183857	91183	70037	46876	122322	130089	60829	154776	151641

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	785 Plant 1	786 Plant 1	787 Plant 1	788 Plant 1	789 Plant 1	790 Plant 1	791 Plant 1	792 Plant 1	793 Plant 1	794 Plant 1	795 Plant 1	796 Plant 1	797 Plant 1	798 Plant 1
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662
Coyote	SIU	1	190651	68449	164579	89455	120621	143713	58344	94157	176838	94955	93877	97866	56791	252606
Crismon	SIU	1	190340	68137	164268	89143	120310	143401	58033	93846	176527	94643	93566	97554	56480	252295
Sediment	SIU	1	190103	67901	164031	88907	120073	143165	57796	93609	176291	94407	93329	97318	56243	252058
Canal System 2	SIU	1	188479	66276	162406	87282	118449	141540	56172	91984	174666	92782	91705	95693	54618	250434
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662
Coyote	Buffer	1	190515	68312	164443	89318	120485	143576	58208	94021	176702	94818	93741	97729	56654	252470
Crismon	Buffer	1	189441	67239	163369	88245	119411	142503	57134	92947	175628	93745	92667	96656	55581	251396
Sedimento	Buffer	1	188627	66425	162555	87431	118597	141689	56320	92133	174814	92931	91853	95842	54767	250582
Canal System 2	Buffer	1	182958	60755	156886	81761	112928	136019	50651	86464	169145	87261	86184	90172	49097	244913
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662
Coyote	SIU	2	190595	68392	164523	89399	120565	143657	58288	94101	176782	94899	93821	97810	56735	252550
Crismon	SIU	2	189973	67770	163900	88776	119942	143034	57666	93478	176160	94276	93198	97187	56112	251928
Sediment	SIU	2	189500	67297	163427	88303	119469	142561	57193	93005	175687	93803	92725	96714	55639	251455
Canal System 2	SIU	2	186250	64047	160178	85054	116220	139312	53943	89756	172437	90554	89476	93465	52390	248205
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662
Coyote	Buffer	2	190322	68120	164250	89126	120292	143384	58015	93828	176509	94626	93548	97537	56462	252277
Crismon	Buffer	2	188175	65972	162103	86979	118145	141237	55868	91681	174362	92479	91401	95390	54315	250130
Sedimento	Buffer	2	186547	64344	160475	85351	116517	139609	54240	90053	172734	90851	89773	93762	52687	248502
Canal System 2	Buffer	2	175208	53006	149136	74012	105178	128270	42901	78714	161395	79512	78434	82423	41348	237163

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	799 Plant 1	Total Deficits	740 Silk 1	741 Silk 1	742 Silk 1	743 Silk 1	744 Silk 1	745 Silk 1	746 Silk 1	747 Silk 1	748 Silk 1	749 Silk 1	750 Silk 1
Start (Pioneer)			157582		157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212
Coyote	SIU	1	157526	0	157745	107589	59591	118663	85496	121551	142409	192061	96963	149867	56156
Crismon	SIU	1	157214	0	157434	107277	59279	118352	85185	121239	142098	191750	96652	149556	55845
Sediment	SIU	1	156978	0	157197	107041	59043	118115	84948	121003	141862	191514	96415	149319	55609
Canal System 2	SIU	1	155353	0	155573	105416	57418	116490	83324	119378	140237	189889	94790	147695	53984
Start (Pioneer)			157582		157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212
Coyote	Buffer	1	157389	0	157609	107452	59454	118526	85360	121414	142273	191925	96826	149731	56020
Crismon	Buffer	1	156316	0	156535	106379	58381	117453	84286	120341	141199	190851	95753	148657	54946
Sedimento	Buffer	1	155502	0	155721	105565	57567	116639	83472	119527	140385	190037	94939	147843	54132
Canal System 2	Buffer	1	149832	0	150052	99895	51897	110969	77803	113857	134716	184368	89269	142174	48463
Start (Pioneer)			157582		157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212
Coyote	SIU	2	157469	0	157689	107532	59535	118607	85440	121494	142353	192005	96907	149811	56100
Crismon	SIU	2	156847	0	157066	106910	58912	117984	84817	120872	141731	191383	96284	149188	55478
Sediment	SIU	2	156374	0	156593	106437	58439	117511	84344	120399	141258	190910	95811	148715	55005
Canal System 2	SIU	2	153124	0	153344	103187	55190	114262	81095	117149	138008	187660	92562	145466	51755
Start (Pioneer)			157582		157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212
Coyote	Buffer	2	157197	0	157416	107260	59262	118334	85167	121222	142081	191732	96634	149538	55827
Crismon	Buffer	2	155049	0	155269	105112	57115	116187	83020	119074	139933	189585	94487	147391	53680
Sedimento	Buffer	2	153421	0	153641	103484	55487	114559	81392	117446	138305	187957	92859	145763	52052
Canal System 2	Buffer	2	142083	0	142302	92146	44148	103220	70053	106108	126967	176618	81520	134424	40713

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	751 Silk 1	752 Silk 1	753 Silk 1	754 Silk 1	755 Silk 1	756 Silk 1	757 Silk 1	758 Silk 1	759 Silk 1	760 Silk 1	761 Silk 1	762 Silk 1	763 Silk 1	764 Silk 1
Start (Pioneer)			51082	112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094
Coyote	SIU	1	51026	112004	122041	110644	93837	141330	78950	121032	193463	140138	55596	106453	176291	96038
Crismon	SIU	1	50714	111693	121730	110333	93526	141019	78638	120721	193152	139827	55284	106142	175980	95726
Sediment	SIU	1	50478	111456	121493	110097	93289	140782	78402	120484	192915	139591	55048	105905	175743	95490
Canal System 2	SIU	1	48853	109832	119869	108472	91664	139158	76777	118859	191291	137966	53423	104281	174119	93865
Start (Pioneer)			51082	112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094
Coyote	Buffer	1	50889	111868	121905	110508	93700	141194	78813	120895	193327	140002	55459	106317	176155	95901
Crismon	Buffer	1	49816	110794	120831	109434	92627	140120	77740	119822	192253	138928	54386	105243	175081	94828
Sedimento	Buffer	1	49002	109980	120017	108620	91813	139306	76926	119008	191439	138114	53572	104429	174267	94014
Canal System 2	Buffer	1	43332	104311	114348	102951	86143	133637	71256	113338	185770	132445	47902	98760	168598	88344
Start (Pioneer)			51082	112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094
Coyote	SIU	2	50970	111948	121985	110588	93781	141274	78894	120976	193407	140082	55539	106397	176235	95982
Crismon	SIU	2	50347	111326	121362	109966	93158	140651	78271	120353	192784	139460	54917	105774	175612	95359
Sediment	SIU	2	49874	110853	120889	109493	92685	140178	77798	119880	192311	138987	54444	105301	175139	94886
Canal System 2	SIU	2	46625	107603	117640	106243	89436	136929	74549	116631	189062	135737	51194	102052	171890	91637
Start (Pioneer)			51082	112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094
Coyote	Buffer	2	50697	111675	121712	110316	93508	141001	78621	120703	193134	139810	55267	106124	175962	95709
Crismon	Buffer	2	48550	109528	119565	108168	91361	138854	76474	118556	190987	137662	53119	103977	173815	93562
Sedimento	Buffer	2	46922	107900	117937	106540	89733	137226	74846	116928	189359	136034	51491	102349	172187	91934
Canal System 2	Buffer	2	35583	96561	106598	95202	78394	125887	63507	105589	178020	124696	40153	91010	160848	80595

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	765 Silk 1	766 Silk 1	767 Silk 1	768 Silk 1	769 Silk 1	770 Silk 1	771 Silk 1	772 Silk 1	773 Silk 1	774 Silk 1	775 Silk 1	776 Silk 1	777 Silk 1	778 Silk 1
Start (Pioneer)			22135	206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678
Coyote	SIU	1	22078	206472	104477	212864	134756	86884	157563	192860	126303	80506	193533	199631	106804	85622
Crismon	SIU	1	21767	206161	104165	212553	134444	86573	157252	192549	125991	80194	193222	199320	106492	85311
Sediment	SIU	1	21531	205924	103929	212316	134208	86336	157015	192313	125755	79958	192985	199083	106256	85074
Canal System 2	SIU	1	19906	204299	102304	210692	132583	84711	155390	190688	124130	78333	191361	197459	104631	83450
Start (Pioneer)			22135	206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678
Coyote	Buffer	1	21942	206336	104340	212728	134619	86747	157427	192724	126166	80369	193397	199495	106667	85486
Crismon	Buffer	1	20868	205262	103267	211654	133546	85674	156353	191650	125093	79296	192323	198421	105594	84412
Sedimento	Buffer	1	20054	204448	102453	210840	132732	84860	155539	190836	124279	78482	191509	197607	104780	83598
Canal System 2	Buffer	1	14385	198779	96783	205171	127062	79190	149870	185167	118609	72812	185840	191938	99110	77929
Start (Pioneer)			22135	206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678
Coyote	SIU	2	22022	206416	104420	212808	134699	86828	157507	192804	126247	80450	193477	199575	106747	85566
Crismon	SIU	2	21400	205793	103798	212185	134077	86205	156884	192182	125624	79827	192855	198952	106125	84944
Sediment	SIU	2	20927	205320	103325	211712	133604	85732	156411	191709	125151	79354	192382	198479	105652	84471
Canal System 2	SIU	2	17677	202071	100075	208463	130354	82483	153162	188459	121902	76105	189132	195230	102402	81221
Start (Pioneer)			22135	206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678
Coyote	Buffer	2	21750	206143	104148	212535	134427	86555	157234	192531	125974	80177	193204	199302	106475	85293
Crismon	Buffer	2	19602	203996	102000	210388	132279	84408	155087	190384	123827	78030	191057	197155	104327	83146
Sedimento	Buffer	2	17974	202368	100372	208760	130651	82780	153459	188756	122199	76402	189429	195527	102699	81518
Canal System 2	Buffer	2	6636	191029	89034	197421	119313	71441	142120	177417	110860	65063	178090	184188	91361	70179

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	779 Silk 1	780 Silk 1	781 Silk 1	782 Silk 1	783 Silk 1	784 Silk 1	785 Silk 1	786 Silk 1	787 Silk 1	788 Silk 1	789 Silk 1	790 Silk 1	791 Silk 1	792 Silk 1
Start (Pioneer)			62478	138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370
Coyote	SIU	1	62422	137994	145774	76398	170502	167362	190968	68562	164852	89603	120822	143951	58441	94313
Crismon	SIU	1	62111	137682	145462	76087	170190	167050	190657	68251	164541	89292	120510	143640	58130	94002
Sediment	SIU	1	61875	137446	145226	75851	169954	166814	190420	68014	164305	89056	120274	143404	57893	93766
Canal System 2	SIU	1	60250	135821	143601	74226	168329	165189	188795	66390	162680	87431	118649	141779	56269	92141
Start (Pioneer)			62478	138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370
Coyote	Buffer	1	62286	137857	145637	76262	170365	167225	190832	68426	164716	89467	120685	143815	58305	94177
Crismon	Buffer	1	61212	136784	144564	75188	169292	166152	189758	67352	163642	88393	119612	142741	57231	93103
Sedimento	Buffer	1	60398	135970	143750	74374	168478	165338	188944	66538	162828	87579	118798	141927	56417	92289
Canal System 2	Buffer	1	54729	130300	138080	68705	162808	159668	183275	60869	157159	81910	113128	136258	50748	86620
Start (Pioneer)			62478	138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370
Coyote	SIU	2	62366	137938	145718	76342	170445	167305	190912	68506	164796	89547	120765	143895	58385	94257
Crismon	SIU	2	61744	137315	145095	75720	169823	166683	190289	67884	164174	88925	120143	143273	57763	93635
Sediment	SIU	2	61271	136842	144622	75247	169350	166210	189816	67411	163701	88452	119670	142800	57290	93162
Canal System 2	SIU	2	58021	133593	141373	71997	166100	162960	186567	64161	160451	85202	116420	139550	54040	89912
Start (Pioneer)			62478	138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370
Coyote	Buffer	2	62093	137665	145445	76069	170173	167033	190639	68233	164523	89274	120493	143622	58112	93985
Crismon	Buffer	2	59946	135518	143298	73922	168025	164885	188492	66086	162376	87127	118345	141475	55965	91837
Sedimento	Buffer	2	58318	133890	141670	72294	166397	163257	186864	64458	160748	85499	116717	139847	54337	90209
Canal System 2	Buffer	2	46979	122551	130331	60955	155059	151919	175525	53119	149409	74160	105379	128508	42998	78871

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	793 Silk 1	794 Silk 1	795 Silk 1	796 Silk 1	797 Silk 1	798 Silk 1	799 Silk 1	Total Deficits
Start (Pioneer)			177188	95169	94089	98084	56941	253082	157843	
Coyote	SIU	1	177132	95112	94033	98028	56885	253026	157787	0
Crismon	SIU	1	176821	94801	93722	97717	56574	252715	157476	0
Sediment	SIU	1	176584	94565	93485	97480	56337	252478	157239	0
Canal System 2	SIU	1	174960	92940	91861	95856	54713	250853	155615	0
Start (Pioneer)			177188	95169	94089	98084	56941	253082	157843	
Coyote	Buffer	1	176996	94976	93897	97892	56749	252889	157651	0
Crismon	Buffer	1	175922	93902	92823	96818	55675	251816	156577	0
Sedimento	Buffer	1	175108	93088	92009	96004	54861	251002	155763	0
Canal System 2	Buffer	1	169439	87419	86340	90335	49192	245332	150094	0
Start (Pioneer)			177188	95169	94089	98084	56941	253082	157843	
Coyote	SIU	2	177076	95056	93977	97972	56829	252970	157731	0
Crismon	SIU	2	176453	94434	93354	97350	56207	252347	157109	0
Sediment	SIU	2	175980	93961	92881	96877	55734	251874	156636	0
Canal System 2	SIU	2	172731	90711	89632	93627	52484	248625	153386	0
Start (Pioneer)			177188	95169	94089	98084	56941	253082	157843	
Coyote	Buffer	2	176803	94784	93704	97699	56556	252697	157458	0
Crismon	Buffer	2	174656	92636	91557	95552	54409	250550	155311	0
Sedimento	Buffer	2	173028	91008	89929	93924	52781	248922	153683	0
Canal System 2	Buffer	2	161689	79670	78590	82585	41442	237583	142344	0

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	740 Plant 2	741 Plant 2	742 Plant 2	743 Plant 2	744 Plant 2	745 Plant 2	746 Plant 2	747 Plant 2	748 Plant 2	749 Plant 2	750 Plant 2	751 Plant 2	752 Plant 2
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219
Coyote	SIU	1	49614	33826	18718	37312	26872	38221	44787	60415	30482	47134	20620	18733	41163
Crismon	SIU	1	49302	33515	18407	37001	26561	37910	44475	60104	30170	46823	20309	18422	40852
Sediment	SIU	1	49066	33279	18171	36764	26325	37673	44239	59867	29934	46586	20073	18185	40615
Canal System 2	SIU	1	47441	31654	16546	35140	24700	36049	42614	58243	28309	44961	18448	16561	38990
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219
Coyote	Buffer	1	49477	33690	18582	37176	26736	38085	44650	60279	30345	46998	20484	18597	41027
Crismon	Buffer	1	48404	32616	17508	36102	25662	37011	43577	59205	29272	45924	19410	17523	39953
Sedimento	Buffer	1	47590	31802	16694	35288	24848	36197	42763	58391	28458	45110	18596	16709	39139
Canal System 2	Buffer	1	41920	26133	11025	29619	19179	30528	37093	52722	22788	39441	12927	11040	33470
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219
Coyote	SIU	2	49558	33770	18662	37256	26816	38165	44730	60359	30426	47078	20564	18677	41107
Crismon	SIU	2	48935	33148	18040	36633	26194	37542	44108	59736	29803	46455	19942	18055	40484
Sediment	SIU	2	48462	32675	17567	36160	25721	37069	43635	59263	29330	45982	19469	17582	40011
Canal System 2	SIU	2	45213	29425	14317	32911	22471	33820	40385	56014	26081	42733	16219	14332	36762
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219
Coyote	Buffer	2	49285	33497	18390	36983	26544	37892	44458	60086	30153	46805	20292	18404	40834
Crismon	Buffer	2	47138	31350	16242	34836	24396	35745	42310	57939	28006	44658	18144	16257	38687
Sedimento	Buffer	2	45510	29722	14614	33208	22768	34117	40682	56311	26378	43030	16516	14629	37059
Canal System 2	Buffer	2	34171	18383	3276	21869	11430	22778	29344	44972	15039	31691	5178	3290	25720

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	753 Plant 2	754 Plant 2	755 Plant 2	756 Plant 2	757 Plant 2	758 Plant 2	759 Plant 2	760 Plant 2	761 Plant 2	762 Plant 2	763 Plant 2	764 Plant 2	765 Plant 2
Start (Pioneer)			44911	40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8142
Coyote	SIU	1	44855	40663	34480	51950	29005	44484	71126	51512	20414	39121	64810	35290	8086
Crismon	SIU	1	44544	40352	34169	51639	28693	44172	70815	51200	20103	38810	64498	34979	7774
Sediment	SIU	1	44307	40115	33933	51402	28457	43936	70578	50964	19866	38573	64262	34742	7538
Canal System 2	SIU	1	42682	38490	32308	49777	26832	42311	68953	49339	18242	36949	62637	33118	5913
Start (Pioneer)			44911	40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8142
Coyote	Buffer	1	44718	40526	34344	51813	28868	44347	70990	51375	20278	38985	64673	35154	7949
Crismon	Buffer	1	43645	39453	33270	50740	27795	43274	69916	50302	19204	37911	63600	34080	6876
Sedimento	Buffer	1	42831	38639	32456	49926	26981	42460	69102	49488	18390	37097	62786	33266	6062
Canal System 2	Buffer	1	37161	32969	26787	44256	21311	36790	63433	43818	12721	31428	57116	27597	392
Start (Pioneer)			44911	40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8142
Coyote	SIU	2	44799	40607	34424	51894	28948	44428	71070	51455	20358	39065	64753	35234	8030
Crismon	SIU	2	44176	39984	33802	51271	28326	43805	70447	50833	19736	38442	64131	34611	7407
Sediment	SIU	2	43703	39511	33329	50798	27853	43332	69974	50360	19263	37969	63658	34138	6934
Canal System 2	SIU	2	40454	36262	30079	47549	24603	40083	66725	47110	16013	34720	60408	30889	3685
Start (Pioneer)			44911	40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8142
Coyote	Buffer	2	44526	40334	34152	51621	28676	44155	70797	51183	20085	38792	64481	34961	7757
Crismon	Buffer	2	42379	38187	32004	49474	26528	42008	68650	49035	17938	36645	62333	32814	5610
Sedimento	Buffer	2	40751	36559	30376	47846	24900	40380	67022	47407	16310	35017	60705	31186	3982
Canal System 2	Buffer	2	29412	25220	19038	36507	13562	29041	55683	36069	4971	23678	49367	19847	-7357

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	766 Plant 2	767 Plant 2	768 Plant 2	769 Plant 2	770 Plant 2	771 Plant 2	772 Plant 2	773 Plant 2	774 Plant 2	775 Plant 2	776 Plant 2	777 Plant 2	778 Plant 2
Start (Pioneer)			75967	38450	78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515
Coyote	SIU	1	75911	38394	78262	49532	31923	57921	70904	46422	29577	71152	73395	39250	31459
Crismon	SIU	1	75600	38083	77951	49220	31612	57610	70593	46111	29266	70840	73083	38939	31148
Sediment	SIU	1	75363	37846	77714	48984	31375	57373	70356	45875	29029	70604	72847	38702	30911
Canal System 2	SIU	1	73738	36222	76090	47359	29750	55748	68732	44250	27404	68979	71222	37078	29286
Start (Pioneer)			75967	38450	78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515
Coyote	Buffer	1	75775	38258	78126	49395	31787	57784	70768	46286	29440	71015	73258	39114	31323
Crismon	Buffer	1	74701	37184	77052	48322	30713	56711	69694	45212	28367	69942	72185	38040	30249
Sedimento	Buffer	1	73887	36370	76238	47508	29899	55897	68880	44398	27553	69128	71371	37226	29435
Canal System 2	Buffer	1	68218	30701	70569	41838	24230	50227	63211	38729	21883	63458	65701	31557	23766
Start (Pioneer)			75967	38450	78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515
Coyote	SIU	2	75855	38338	78206	49475	31867	57865	70848	46366	29521	71096	73339	39194	31403
Crismon	SIU	2	75232	37715	77584	48853	31244	57242	70226	45744	28898	70473	72716	38571	30780
Sediment	SIU	2	74759	37242	77111	48380	30771	56769	69753	45271	28425	70000	72243	38098	30307
Canal System 2	SIU	2	71510	33993	73861	45130	27522	53520	66503	42021	25176	66751	68994	34849	27058
Start (Pioneer)			75967	38450	78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515
Coyote	Buffer	2	75582	38065	77933	49203	31594	57592	70575	46093	29248	70823	73066	38921	31130
Crismon	Buffer	2	73435	35918	75786	47055	29447	55445	68428	43946	27101	68676	70919	36774	28983
Sedimento	Buffer	2	71807	34290	74158	45427	27819	53817	66800	42318	25473	67048	69291	35146	27355
Canal System 2	Buffer	2	60468	22951	62819	34089	16480	42478	55461	30979	14134	55709	57952	23807	16016

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	779 Plant 2	780 Plant 2	781 Plant 2	782 Plant 2	783 Plant 2	784 Plant 2	785 Plant 2	786 Plant 2	787 Plant 2	788 Plant 2	789 Plant 2	790 Plant 2	791 Plant 2
Start (Pioneer)			22981	50779	53641	28122	62736	61581	70264	25240	60658	32979	44462	52970	21517
Coyote	SIU	1	22925	50723	53584	28066	62680	61525	70208	25184	60602	32923	44406	52914	21461
Crismon	SIU	1	22614	50411	53273	27755	62369	61214	69897	24872	60291	32612	44095	52603	21150
Sediment	SIU	1	22378	50175	53037	27518	62132	60977	69660	24636	60054	32375	43858	52366	20913
Canal System 2	SIU	1	20753	48550	51412	25894	60508	59353	68036	23011	58430	30751	42234	50742	19288
Start (Pioneer)			22981	50779	53641	28122	62736	61581	70264	25240	60658	32979	44462	52970	21517
Coyote	Buffer	1	22789	50586	53448	27930	62544	61389	70072	25047	60466	32787	44270	52778	21325
Crismon	Buffer	1	21715	49513	52374	26856	61470	60315	68998	23974	59392	31713	43196	51704	20251
Sedimento	Buffer	1	20901	48699	51560	26042	60656	59501	68184	23160	58578	30899	42382	50890	19437
Canal System 2	Buffer	1	15232	43029	45891	20373	54987	53832	62515	17490	52909	25230	36713	45221	13768
Start (Pioneer)			22981	50779	53641	28122	62736	61581	70264	25240	60658	32979	44462	52970	21517
Coyote	SIU	2	22869	50667	53528	28010	62624	61469	70152	25128	60546	32867	44350	52858	21405
Crismon	SIU	2	22247	50044	52906	27387	62001	60846	69529	24505	59923	32245	43728	52235	20782
Sediment	SIU	2	21774	49571	52433	26914	61528	60373	69056	24032	59450	31772	43255	51762	20309
Canal System 2	SIU	2	18524	46322	49183	23665	58279	57124	65807	20783	56201	28522	40005	48513	17060
Start (Pioneer)			22981	50779	53641	28122	62736	61581	70264	25240	60658	32979	44462	52970	21517
Coyote	Buffer	2	22596	50394	53256	27737	62351	61196	69879	24855	60273	32594	44077	52585	21132
Crismon	Buffer	2	20449	48247	51108	25590	60204	59049	67732	22708	58126	30447	41930	50438	18985
Sedimento	Buffer	2	18821	46619	49480	23962	58576	57421	66104	21080	56498	28819	40302	48810	17357
Canal System 2	Buffer	2	7482	35280	38142	12623	47237	46082	54765	9741	45159	17480	28963	37471	6018

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	792 Plant 2	793 Plant 2	794 Plant 2	795 Plant 2	796 Plant 2	797 Plant 2	798 Plant 2	799 Plant 2	Total Deficits	740 Silk 2	741 Silk 2	742 Silk 2
Start (Pioneer)			34712	65175	35006	34609	36078	20945	93091	58059		43226	29487	16339
Coyote	SIU	1	34656	65119	34950	34553	36022	20889	93035	58003	0	43170	29431	16283
Crismon	SIU	1	34344	64808	34638	34241	35711	20577	92724	57692	0	42859	29119	15971
Sediment	SIU	1	34108	64571	34402	34005	35474	20341	92487	57456	0	42622	28883	15735
Canal System 2	SIU	1	32483	62946	32777	32380	33850	18716	90862	55831	0	40997	27258	14110
Start (Pioneer)			34712	65175	35006	34609	36078	20945	93091	58059		43226	29487	16339
Coyote	Buffer	1	34519	64983	34813	34416	35886	20752	92898	57867	0	43034	29294	16146
Crismon	Buffer	1	33446	63909	33740	33343	34812	19679	91825	56793	0	41960	28221	15073
Sedimento	Buffer	1	32632	63095	32926	32529	33998	18865	91011	55979	0	41146	27407	14259
Canal System 2	Buffer	1	26962	57426	27256	26859	28329	13195	85341	50310	0	35477	21737	8589
Start (Pioneer)			34712	65175	35006	34609	36078	20945	93091	58059		43226	29487	16339
Coyote	SIU	2	34600	65063	34894	34497	35966	20833	92979	57947	0	43114	29375	16227
Crismon	SIU	2	33977	64440	34271	33874	35344	20210	92356	57325	0	42491	28752	15604
Sediment	SIU	2	33504	63967	33798	33401	34871	19737	91883	56852	0	42018	28279	15131
Canal System 2	SIU	2	30255	60718	30549	30152	31621	16488	88634	53602	0	38769	25030	11882
Start (Pioneer)			34712	65175	35006	34609	36078	20945	93091	58059		43226	29487	16339
Coyote	Buffer	2	34327	64790	34621	34224	35693	20560	92706	57674	0	42841	29102	15954
Crismon	Buffer	2	32180	62643	32474	32077	33546	18413	90559	55527	0	40694	26955	13807
Sedimento	Buffer	2	30552	61015	30846	30449	31918	16785	88931	53899	0	39066	25327	12179
Canal System 2	Buffer	2	19213	49676	19507	19110	20579	5446	77592	42560	1	27727	13988	840

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	743 Silk 2	744 Silk 2	745 Silk 2	746 Silk 2	747 Silk 2	748 Silk 2	749 Silk 2	750 Silk 2	751 Silk 2	752 Silk 2	753 Silk 2	754 Silk 2	755 Silk 2
Start (Pioneer)			32520	23435	33311	39025	52626	26576	41068	17694	16079	35272	38432	34844	29554
Coyote	SIU	1	32464	23379	33255	38969	52570	26520	41012	17637	16022	35216	38375	34788	29498
Crismon	SIU	1	32153	23068	32944	38658	52259	26209	40701	17326	15711	34905	38064	34477	29187
Sediment	SIU	1	31916	22831	32707	38421	52022	25972	40464	17090	15475	34668	37828	34240	28950
Canal System 2	SIU	1	30292	21206	31083	36797	50398	24348	38839	15465	13850	33044	36203	32616	27325
Start (Pioneer)			32520	23435	33311	39025	52626	26576	41068	17694	16079	35272	38432	34844	29554
Coyote	Buffer	1	32328	23243	33119	38833	52434	26384	40876	17501	15886	35080	38239	34652	29361
Crismon	Buffer	1	31254	22169	32045	37759	51360	25310	39802	16427	14812	34006	37165	33578	28288
Sedimento	Buffer	1	30440	21355	31231	36945	50546	24496	38988	15613	13998	33192	36351	32764	27474
Canal System 2	Buffer	1	24771	15686	25562	31276	44877	18827	33319	9944	8329	27523	30682	27095	21804
Start (Pioneer)			32520	23435	33311	39025	52626	26576	41068	17694	16079	35272	38432	34844	29554
Coyote	SIU	2	32408	23323	33199	38913	52514	26464	40956	17581	15966	35160	38319	34732	29442
Crismon	SIU	2	31786	22700	32577	38290	51891	25841	40333	16959	15344	34538	37697	34110	28819
Sediment	SIU	2	31313	22227	32104	37817	51418	25368	39860	16486	14871	34065	37224	33637	28346
Canal System 2	SIU	2	28063	18978	28854	34568	48169	22119	36611	13236	11621	30815	33974	30387	25097
Start (Pioneer)			32520	23435	33311	39025	52626	26576	41068	17694	16079	35272	38432	34844	29554
Coyote	Buffer	2	32135	23050	32926	38640	52241	26191	40683	17309	15694	34887	38047	34459	29169
Crismon	Buffer	2	29988	20903	30779	36493	50094	24044	38536	15161	13546	32740	35899	32312	27022
Sedimento	Buffer	2	28360	19275	29151	34865	48466	22416	36908	13533	11918	31112	34271	30684	25394
Canal System 2	Buffer	2	17021	7936	17812	23526	37127	11077	25569	2195	580	19773	22933	19345	14055

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	756 Silk 2	757 Silk 2	758 Silk 2	759 Silk 2	760 Silk 2	761 Silk 2	762 Silk 2	763 Silk 2	764 Silk 2	765 Silk 2	766 Silk 2	767 Silk 2	768 Silk 2
Start (Pioneer)			44503	24868	38114	60912	44128	17517	33525	55507	30247	6967	65007	32903	67019
Coyote	SIU	1	44447	24812	38058	60856	44072	17461	33469	55451	30191	6911	64951	32847	66963
Crismon	SIU	1	44136	24501	37746	60545	43760	17150	33158	55140	29879	6600	64640	32535	66652
Sediment	SIU	1	43899	24264	37510	60309	43524	16913	32921	54903	29643	6363	64403	32299	66415
Canal System 2	SIU	1	42274	22639	35885	58684	41899	15288	31296	53279	28018	4738	62779	30674	64791
Start (Pioneer)			44503	24868	38114	60912	44128	17517	33525	55507	30247	6967	65007	32903	67019
Coyote	Buffer	1	44310	24675	37921	60720	43935	17325	33333	55315	30054	6775	64815	32710	66827
Crismon	Buffer	1	43237	23602	36848	59646	42862	16251	32259	54241	28981	5701	63741	31637	65753
Sedimento	Buffer	1	42423	22788	36034	58832	42048	15437	31445	53427	28167	4887	62927	30823	64939
Canal System 2	Buffer	1	36753	17118	30364	53163	36378	9768	25776	47758	22497	-782	57258	25153	59270
Start (Pioneer)			44503	24868	38114	60912	44128	17517	33525	55507	30247	6967	65007	32903	67019
Coyote	SIU	2	44391	24756	38002	60800	44016	17405	33413	55395	30134	6855	64895	32791	66907
Crismon	SIU	2	43768	24133	37379	60178	43393	16782	32790	54773	29512	6232	64272	32168	66284
Sediment	SIU	2	43295	23660	36906	59705	42920	16309	32317	54300	29039	5759	63799	31695	65811
Canal System 2	SIU	2	40046	20411	33657	56455	39671	13060	29068	51050	25789	2510	60550	28446	62562
Start (Pioneer)			44503	24868	38114	60912	44128	17517	33525	55507	30247	6967	65007	32903	67019
Coyote	Buffer	2	44118	24483	37729	60527	43743	17132	33140	55122	29862	6582	64622	32518	66634
Crismon	Buffer	2	41971	22336	35582	58380	41596	14985	30993	52975	27714	4435	62475	30371	64487
Sedimento	Buffer	2	40343	20708	33954	56752	39968	13357	29365	51347	26086	2807	60847	28743	62859
Canal System 2	Buffer	2	29004	9369	22615	45413	28629	2018	18026	40008	14748	-8532	49508	17404	51520

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	769 Silk 2	770 Silk 2	771 Silk 2	772 Silk 2	773 Silk 2	774 Silk 2	775 Silk 2	776 Silk 2	777 Silk 2	778 Silk 2	779 Silk 2	780 Silk 2	781 Silk 2
Start (Pioneer)			42434	27365	49612	60723	39773	25358	60935	62854	33635	26968	19666	43453	45902
Coyote	SIU	1	42377	27309	49556	60667	39717	25302	60878	62798	33579	26912	19610	43397	45846
Crismon	SIU	1	42066	26998	49245	60355	39406	24990	60567	62486	33268	26601	19298	43085	45534
Sediment	SIU	1	41830	26761	49009	60119	39169	24754	60331	62250	33031	26364	19062	42849	45298
Canal System 2	SIU	1	40205	25137	47384	58494	37544	23129	58706	60625	31407	24740	17437	41224	43673
Start (Pioneer)			42434	27365	49612	60723	39773	25358	60935	62854	33635	26968	19666	43453	45902
Coyote	Buffer	1	42241	27173	49420	60530	39580	25165	60742	62661	33443	26776	19473	43260	45709
Crismon	Buffer	1	41167	26099	48346	59457	38507	24092	59668	61588	32369	25702	18400	42187	44636
Sedimento	Buffer	1	40353	25285	47532	58643	37693	23278	58854	60774	31555	24888	17586	41373	43822
Canal System 2	Buffer	1	34684	19616	41863	52973	32023	17608	53185	55104	25886	19219	11916	35703	38152
Start (Pioneer)			42434	27365	49612	60723	39773	25358	60935	62854	33635	26968	19666	43453	45902
Coyote	SIU	2	42321	27253	49500	60611	39661	25246	60822	62742	33523	26856	19554	43341	45789
Crismon	SIU	2	41699	26631	48878	59988	39038	24623	60200	62119	32901	26233	18931	42718	45167
Sediment	SIU	2	41226	26158	48405	59515	38565	24150	59727	61646	32428	25760	18458	42245	44694
Canal System 2	SIU	2	37976	22908	45155	56266	35316	20901	56477	58397	29178	22511	15209	38996	41444
Start (Pioneer)			42434	27365	49612	60723	39773	25358	60935	62854	33635	26968	19666	43453	45902
Coyote	Buffer	2	42049	26980	49227	60338	39388	24973	60550	62469	33250	26583	19281	43068	45517
Crismon	Buffer	2	39901	24833	47080	58191	37241	22826	58402	60322	31103	24436	17134	40921	43369
Sedimento	Buffer	2	38273	23205	45452	56563	35613	21198	56774	58694	29475	22808	15506	39293	41741
Canal System 2	Buffer	2	26935	11866	34113	45224	24274	9859	45436	47355	18136	11469	4167	27954	30403

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	782 Silk 2	783 Silk 2	784 Silk 2	785 Silk 2	786 Silk 2	787 Silk 2	788 Silk 2	789 Silk 2	790 Silk 2	791 Silk 2	792 Silk 2	793 Silk 2	794 Silk 2
Start (Pioneer)			24065	53685	52697	60127	21598	51907	28221	38048	45328	18413	29704	55772	29955
Coyote	SIU	1	24009	53629	52641	60071	21542	51851	28165	37992	45272	18357	29648	55716	29899
Crismon	SIU	1	23698	53318	52329	59760	21231	51539	27854	37680	44961	18045	29337	55405	29588
Sediment	SIU	1	23461	53081	52093	59523	20995	51303	27617	37444	44724	17809	29100	55168	29352
Canal System 2	SIU	1	21836	51456	50468	57898	19370	49678	25993	35819	43099	16184	27475	53543	27727
Start (Pioneer)			24065	53685	52697	60127	21598	51907	28221	38048	45328	18413	29704	55772	29955
Coyote	Buffer	1	23872	53493	52504	59935	21406	51714	28029	37855	45136	18220	29511	55580	29763
Crismon	Buffer	1	22799	52419	51431	58861	20332	50641	26955	36782	44062	17147	28438	54506	28689
Sedimento	Buffer	1	21985	51605	50617	58047	19518	49827	26141	35968	43248	16333	27624	53692	27875
Canal System 2	Buffer	1	16315	45936	44947	52378	13849	44157	20472	30298	37579	10663	21954	48023	22206
Start (Pioneer)			24065	53685	52697	60127	21598	51907	28221	38048	45328	18413	29704	55772	29955
Coyote	SIU	2	23953	53573	52584	60015	21486	51795	28109	37935	45216	18301	29592	55660	29843
Crismon	SIU	2	23330	52950	51962	59392	20864	51172	27487	37313	44593	17678	28969	55037	29221
Sediment	SIU	2	22857	52477	51489	58919	20391	50699	27014	36840	44120	17205	28496	54564	28748
Canal System 2	SIU	2	19608	49228	48239	55670	17141	47450	23764	33590	40871	13956	25247	51315	25498
Start (Pioneer)			24065	53685	52697	60127	21598	51907	28221	38048	45328	18413	29704	55772	29955
Coyote	Buffer	2	23680	53300	52312	59742	21213	51522	27836	37663	44943	18028	29319	55387	29570
Crismon	Buffer	2	21533	51153	50164	57595	19066	49375	25689	35515	42796	15881	27172	53240	27423
Sedimento	Buffer	2	19905	49525	48536	55967	17438	47747	24061	33887	41168	14253	25544	51612	25795
Canal System 2	Buffer	2	8566	38186	37198	44628	6099	36408	12722	22549	29829	2914	14205	40273	14456

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	795 Silk 2	796 Silk 2	797 Silk 2	798 Silk 2	799 Silk 2	Total Deficits
Start (Pioneer)			29616	30873	17923	79661	49683	
Coyote	SIU	1	29560	30817	17867	79604	49627	0
Crismon	SIU	1	29248	30506	17556	79293	49316	0
Sediment	SIU	1	29012	30269	17319	79057	49079	0
Canal System 2	SIU	1	27387	28645	15694	77432	47454	0
Start (Pioneer)			29616	30873	17923	79661	49683	
Coyote	Buffer	1	29423	30681	17730	79468	49491	0
Crismon	Buffer	1	28350	29607	16657	78394	48417	0
Sedimento	Buffer	1	27536	28793	15843	77580	47603	0
Canal System 2	Buffer	1	21866	23124	10173	71911	41934	1
Start (Pioneer)			29616	30873	17923	79661	49683	
Coyote	SIU	2	29503	30761	17811	79548	49571	0
Crismon	SIU	2	28881	30138	17188	78926	48948	0
Sediment	SIU	2	28408	29665	16715	78453	48475	0
Canal System 2	SIU	2	25158	26416	13466	75203	45226	0
Start (Pioneer)			29616	30873	17923	79661	49683	
Coyote	Buffer	2	29231	30488	17538	79276	49298	0
Crismon	Buffer	2	27083	28341	15391	77128	47151	0
Sedimento	Buffer	2	25455	26713	13763	75500	45523	0
Canal System 2	Buffer	2	14117	15374	2424	64162	34184	1

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	740 Plant 1	741 Plant 1	742 Plant 1	743 Plant 1	744 Plant 1	745 Plant 1	746 Plant 1	747 Plant 1	748 Plant 1	749 Plant 1	750 Plant 1	751 Plant 1	752 Plant 1	753 Plant 1	754 Plant 1
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895	110517
Coyote	SIU	3	157371	107298	59380	118354	85242	121237	142061	191631	96690	149506	55951	50829	111706	121727	110349
Crismon	SIU	3	156437	106364	58446	117420	84308	120303	141127	190697	95756	148572	55017	49895	110772	120793	109415
Sediment	SIU	3	155728	105654	57736	116710	83599	119593	140418	189987	95046	147863	54308	49185	110063	120083	108705
Canal System 2	SIU	3	150854	100780	52862	111836	78725	114719	135544	185113	90172	142989	49433	44311	105189	115209	103831
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895	110517
Coyote	Buffer	3	156962	106889	58970	117945	84833	120828	141652	191221	96281	149097	55542	50420	111297	121317	109940
Crismon	Buffer	3	153741	103668	55750	114724	81612	117607	138431	188001	93060	145876	52321	47199	108076	118097	106719
Sedimento	Buffer	3	151299	101226	53308	112282	79170	115165	135989	185559	90618	143434	49879	44757	105634	115655	104277
Canal System 2	Buffer	3	134291	84218	36299	95274	62162	98157	118981	168550	73610	126426	32871	27749	88626	98646	87269
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895	110517
Coyote	SIU	4	157315	107242	59324	118298	85186	121181	142005	191575	96634	149450	55895	50773	111650	121670	110293
Crismon	SIU	4	156070	105997	58078	117052	83941	119935	140760	190329	95389	148205	54650	49528	110405	120425	109047
Sediment	SIU	4	155124	105051	57132	116106	82995	118989	139814	189383	94443	147259	53704	48582	109459	119479	108101
Canal System 2	SIU	4	148625	98552	50634	109608	76496	112491	133315	182885	87944	140760	47205	42083	102960	112980	101603
Start (Pioneer)			157540	107466	59548	118522	85410	121405	142229	191799	96858	149675	56119	50997	111875	121895	110517
Coyote	Buffer	4	156770	106696	58778	117752	84640	120635	141459	191029	96088	148905	55349	50227	111105	121125	109747
Crismon	Buffer	4	152475	102402	54484	113458	80346	116341	137165	186735	91794	144610	51055	45933	106810	116830	105453
Sedimento	Buffer	4	149219	99146	51228	110202	77090	113085	133909	183479	88538	141354	47799	42677	103554	113574	102197
Canal System 2	Buffer	4	126542	76468	28550	87524	54412	90407	111231	160801	65860	118677	25121	19999	80877	90897	79519

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	755 Plant 1	756 Plant 1	757 Plant 1	758 Plant 1	759 Plant 1	760 Plant 1	761 Plant 1	762 Plant 1	763 Plant 1	764 Plant 1	765 Plant 1	766 Plant 1	767 Plant 1	768 Plant 1	769 Plant 1
Start (Pioneer)			93737	141152	78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588
Coyote	SIU	3	93569	140983	78706	120719	193030	139794	55391	106164	175886	95766	21930	206017	104191	212399	134420
Crismon	SIU	3	92635	140050	77773	119785	192096	138860	54457	105230	174953	94832	20996	205083	103257	211465	133486
Sediment	SIU	3	91926	139340	77063	119076	191387	138150	53748	104521	174243	94123	20286	204374	102548	210756	132776
Canal System 2	SIU	3	87051	134466	72189	114201	186513	133276	48874	99647	169369	89249	15412	199500	97674	205881	127902
Start (Pioneer)			93737	141152	78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588
Coyote	Buffer	3	93160	140574	78297	120310	192621	139385	54982	105755	175477	95357	21520	205608	103782	211990	134011
Crismon	Buffer	3	89939	137353	75076	117089	189400	136164	51761	102534	172256	92136	18300	202387	100561	208769	130790
Sedimento	Buffer	3	87497	134911	72634	114647	186958	133722	49319	100092	169814	89694	15858	199945	98119	206327	128348
Canal System 2	Buffer	3	70489	117903	55626	97639	169950	116714	32311	83084	152806	72686	-1151	182937	81111	189319	111340
Start (Pioneer)			93737	141152	78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588
Coyote	SIU	4	93513	140927	78650	120663	192974	139738	55335	106108	175830	95710	21873	205961	104135	212343	134364
Crismon	SIU	4	92268	139682	77405	119418	191729	138493	54090	104863	174585	94465	20628	204716	102890	211098	133119
Sediment	SIU	4	91322	138736	76459	118472	190783	137547	53144	103917	173639	93519	19682	203770	101944	210152	132173
Canal System 2	SIU	4	84823	132237	69960	111973	184284	131048	46645	97418	167140	87020	13183	197271	95445	203653	125674
Start (Pioneer)			93737	141152	78875	120887	193198	139962	55559	106333	176055	95934	22098	206186	104359	212567	134588
Coyote	Buffer	4	92967	140382	78105	120117	192428	139192	54789	105563	175285	95164	21328	205416	103589	211797	133818
Crismon	Buffer	4	88673	136087	73810	115823	188134	134898	50495	101268	170990	90870	17033	201121	99295	207503	129524
Sedimento	Buffer	4	85417	132831	70554	112567	184878	131642	47239	98012	167734	87614	13777	197865	96039	204247	126268
Canal System 2	Buffer	4	62739	110154	47877	89889	162200	108964	24561	75335	145057	64936	-8900	175188	73361	181569	103590

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	770 Plant 1	771 Plant 1	772 Plant 1	773 Plant 1	774 Plant 1	775 Plant 1	776 Plant 1	777 Plant 1	778 Plant 1	779 Plant 1	780 Plant 1	781 Plant 1	782 Plant 1	783 Plant 1	784 Plant 1
Start (Pioneer)			86796	157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	SIU	3	86628	157189	192428	125981	80260	193100	199188	106514	85368	62207	137653	145420	76159	170107	166972
Crismon	SIU	3	85694	156255	191494	125047	79326	192166	198254	105580	84434	61273	136719	144486	75226	169173	166038
Sediment	SIU	3	84984	155546	190785	124338	78617	191457	197544	104871	83725	60563	136009	143776	74516	168463	165328
Canal System 2	SIU	3	80110	150672	185911	119463	73742	186583	192670	99997	78851	55689	131135	138902	69642	163589	160454
Start (Pioneer)			86796	157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	Buffer	3	86218	156780	192019	125572	79851	192691	198779	106105	84959	61797	137243	145011	75750	169697	166563
Crismon	Buffer	3	82998	153559	188798	122351	76630	189470	195558	102884	81738	58577	134023	141790	72529	166477	163342
Sedimento	Buffer	3	80556	151117	186356	119909	74188	187028	193116	100442	79296	56135	131581	139348	70087	164035	160900
Canal System 2	Buffer	3	63547	134109	169348	102901	57180	170020	176108	83434	62288	39126	114572	122340	53079	147026	143892
Start (Pioneer)			86796	157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	SIU	4	86571	157133	192372	125925	80204	193044	199132	106458	85312	62150	137597	145364	76103	170051	166916
Crismon	SIU	4	85326	155888	191127	124680	78959	191799	197887	105213	84067	60905	136351	144118	74858	168805	165670
Sediment	SIU	4	84380	154942	190181	123734	78013	190853	196941	104267	83121	59959	135405	143172	73912	167859	164724
Canal System 2	SIU	4	77881	148443	183682	117235	71514	184354	190442	97768	76622	53460	128907	136674	67413	161361	158226
Start (Pioneer)			86796	157358	192597	126149	80428	193268	199356	106682	85536	62375	137821	145588	76328	170275	167140
Coyote	Buffer	4	86026	156588	191827	125379	79658	192498	198586	105912	84766	61605	137051	144818	75558	169505	166370
Crismon	Buffer	4	81731	152293	187532	121085	75364	188204	194292	101618	80472	57310	132757	140524	71263	165211	162076
Sedimento	Buffer	4	78475	149037	184276	117829	72108	184948	191036	98362	77216	54054	129501	137268	68007	161955	158820
Canal System 2	Buffer	4	55798	126360	161599	95151	49430	162270	168358	75684	54538	31377	106823	114590	45330	139277	136142

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	785 Plant 1	786 Plant 1	787 Plant 1	788 Plant 1	789 Plant 1	790 Plant 1	791 Plant 1	792 Plant 1	793 Plant 1	794 Plant 1	795 Plant 1	796 Plant 1	797 Plant 1	798 Plant 1	799 Plant 1
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662	157582
Coyote	SIU	3	190539	68336	164467	89343	120509	143600	58232	94045	176726	94842	93765	97753	56679	252494	157413
Crismon	SIU	3	189605	67402	163533	88409	119575	142667	57298	93111	175792	93909	92831	96820	55745	251560	156479
Sediment	SIU	3	188896	66693	162823	87699	118866	141957	56589	92401	175083	93199	92121	96110	55035	250851	155770
Canal System 2	SIU	3	184022	61819	157949	82825	113991	137083	51715	87527	170209	88325	87247	91236	50161	245977	150896
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662	157582
Coyote	Buffer	3	190130	67927	164058	88933	120100	143191	57823	93636	176317	94433	93356	97344	56269	252085	157004
Crismon	Buffer	3	186909	64706	160837	85713	116879	139970	54602	90415	173096	91212	90135	94123	53049	248864	153783
Sedimento	Buffer	3	184467	62264	158395	83271	114437	137528	52160	87973	170654	88770	87693	91681	50607	246422	151341
Canal System 2	Buffer	3	167459	45256	141387	66262	97429	120520	35152	70965	153646	71762	70685	74673	33598	229414	134333
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662	157582
Coyote	SIU	4	190483	68280	164411	89286	120453	143544	58176	93989	176670	94786	93709	97697	56623	252438	157357
Crismon	SIU	4	189238	67035	163165	88041	119208	142299	56931	92743	175425	93541	92464	96452	55377	251193	156112
Sediment	SIU	4	188292	66089	162219	87095	118262	141353	55985	91797	174479	92595	91518	95506	54431	250247	155166
Canal System 2	SIU	4	181793	59590	155721	80596	111763	134854	49486	85299	167980	86096	85019	89007	47933	243748	148667
Start (Pioneer)			190707	68505	164635	89511	120677	143769	58400	94213	176894	95011	93933	97922	56847	252662	157582
Coyote	Buffer	4	189937	67735	163865	88741	119907	142999	57630	93443	176124	94241	93163	97152	56077	251892	156812
Crismon	Buffer	4	185643	63440	159571	84446	115613	138704	53336	89149	171830	89946	88869	92857	51783	247598	152517
Sedimento	Buffer	4	182387	60184	156315	81190	112357	135448	50080	85893	168574	86690	85613	89601	48527	244342	149261
Canal System 2	Buffer	4	159709	37507	133637	58513	89679	112771	27402	63215	145896	64013	62935	66924	25849	221664	126584

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	Total Deficits	740 Silk 1	741 Silk 1	742 Silk 1	743 Silk 1	744 Silk 1	745 Silk 1	746 Silk 1	747 Silk 1	748 Silk 1	749 Silk 1	750 Silk 1	751 Silk 1
Start (Pioneer)				157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212	51082
Coyote	SIU	3	0	157633	107476	59479	118551	85384	121438	142297	191949	96851	149755	56044	50913
Crismon	SIU	3	0	156699	106542	58545	117617	84450	120504	141363	191015	95917	148821	55110	49980
Sediment	SIU	3	0	155990	105833	57835	116907	83740	119795	140654	190306	95207	148111	54401	49270
Canal System 2	SIU	3	0	151115	100959	52961	112033	78866	114921	135780	185432	90333	143237	49527	44396
Start (Pioneer)				157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212	51082
Coyote	Buffer	3	0	157224	107067	59069	118141	84975	121029	141888	191540	96441	149346	55635	50504
Crismon	Buffer	3	0	154003	103846	55849	114921	81754	117808	138667	188319	93221	146125	52414	47283
Sedimento	Buffer	3	0	151561	101404	53407	112479	79312	115366	136225	185877	90779	143683	49972	44841
Canal System 2	Buffer	3	1	134553	84396	36398	95470	62304	98358	119217	168869	73770	126675	32964	27833
Start (Pioneer)				157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212	51082
Coyote	SIU	4	0	157577	107420	59422	118495	85328	121382	142241	191893	96795	149699	55988	50857
Crismon	SIU	4	0	156332	106175	58177	117249	84083	120137	140996	190648	95549	148454	54743	49612
Sediment	SIU	4	0	155386	105229	57231	116303	83137	119191	140050	189702	94603	147508	53797	48666
Canal System 2	SIU	4	0	148887	98730	50732	109805	76638	112692	133551	183203	88105	141009	47298	42167
Start (Pioneer)				157801	107645	59647	118719	85552	121607	142466	192117	97019	149923	56212	51082
Coyote	Buffer	4	0	157031	106875	58877	117949	84782	120837	141696	191347	96249	149153	55442	50312
Crismon	Buffer	4	0	152737	102580	54582	113655	80488	116542	137401	187053	91955	144859	51148	46017
Sedimento	Buffer	4	0	149481	99324	51326	110399	77232	113286	134145	183797	88699	141603	47892	42761
Canal System 2	Buffer	4	1	126803	76647	28649	87721	54554	90609	111468	161119	66021	118925	25214	20084

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	752 Silk 1	753 Silk 1	754 Silk 1	755 Silk 1	756 Silk 1	757 Silk 1	758 Silk 1	759 Silk 1	760 Silk 1	761 Silk 1	762 Silk 1	763 Silk 1	764 Silk 1	765 Silk 1
Start (Pioneer)			112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094	22135
Coyote	SIU	3	111892	121929	110532	93725	141218	78837	120920	193351	140026	55483	106341	176179	95925	21966
Crismon	SIU	3	110958	120995	109598	92791	140284	77904	119986	192417	139092	54549	105407	175245	94992	21032
Sediment	SIU	3	110249	120286	108889	92081	139574	77194	119276	191708	138383	53840	104697	174535	94282	20323
Canal System 2	SIU	3	105375	115411	104015	87207	134700	72320	114402	186833	133509	48966	99823	169661	89408	15449
Start (Pioneer)			112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094	22135
Coyote	Buffer	3	111483	121520	110123	93315	140809	78428	120510	192942	139617	55074	105932	175770	95516	21557
Crismon	Buffer	3	108262	118299	106902	90095	137588	75207	117290	189721	136396	51853	102711	172549	92295	18336
Sedimento	Buffer	3	105820	115857	104460	87653	135146	72765	114848	187279	133954	49411	100269	170107	89853	15894
Canal System 2	Buffer	3	88812	98849	87452	70644	118138	55757	97839	170271	116946	32403	83261	153099	72845	-1114
Start (Pioneer)			112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094	22135
Coyote	SIU	4	111836	121873	110476	93669	141162	78781	120864	193295	139970	55427	106285	176123	95869	21910
Crismon	SIU	4	110591	120628	109231	92423	139917	77536	119618	192050	138725	54182	105040	174878	94624	20665
Sediment	SIU	4	109645	119682	108285	91477	138971	76590	118672	191104	137779	53236	104094	173932	93678	19719
Canal System 2	SIU	4	103146	113183	101786	84979	132472	70091	112174	184605	131280	46737	97595	167433	87179	13220
Start (Pioneer)			112060	122097	110701	93893	141386	79006	121088	193519	140195	55652	106509	176347	96094	22135
Coyote	Buffer	4	111290	121327	109931	93123	140616	78236	120318	192749	139425	54882	105739	175577	95324	21365
Crismon	Buffer	4	106996	117033	105636	88829	136322	73941	116024	188455	135130	50587	101445	171283	91029	17070
Sedimento	Buffer	4	103740	113777	102380	85573	133066	70685	112768	185199	131874	47331	98189	168027	87773	13814
Canal System 2	Buffer	4	81062	91099	79703	62895	110388	48008	90090	162521	109197	24654	75511	145349	65096	-8863

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	766 Silk 1	767 Silk 1	768 Silk 1	769 Silk 1	770 Silk 1	771 Silk 1	772 Silk 1	773 Silk 1	774 Silk 1	775 Silk 1	776 Silk 1	777 Silk 1	778 Silk 1	779 Silk 1
Start (Pioneer)			206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678	62478
Coyote	SIU	3	206360	104364	212752	134643	86772	157451	192748	126190	80393	193421	199519	106691	85510	62310
Crismon	SIU	3	205426	103430	211818	133709	85838	156517	191814	125257	79460	192487	198585	105757	84576	61376
Sediment	SIU	3	204716	102721	211109	133000	85128	155807	191105	124547	78750	191778	197876	105048	83867	60667
Canal System 2	SIU	3	199842	97847	206234	128126	80254	150933	186231	119673	73876	186904	193001	100174	78993	55793
Start (Pioneer)			206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678	62478
Coyote	Buffer	3	205951	103955	212343	134234	86362	157042	192339	125781	79984	193012	199110	106282	85101	61901
Crismon	Buffer	3	202730	100734	209122	131013	83142	153821	189118	122560	76763	189791	195889	103061	81880	58680
Sedimento	Buffer	3	200288	98292	206680	128571	80700	151379	186676	120118	74321	187349	193447	100619	79438	56238
Canal System 2	Buffer	3	183280	81284	189672	111563	63691	134371	169668	103110	57313	170341	176439	83611	62430	39230
Start (Pioneer)			206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678	62478
Coyote	SIU	4	206304	104308	212696	134587	86716	157395	192692	126134	80337	193365	199463	106635	85454	62254
Crismon	SIU	4	205058	103063	211451	133342	85470	156149	191447	124889	79092	192120	198218	105390	84209	61009
Sediment	SIU	4	204112	102117	210505	132396	84524	155203	190501	123943	78146	191174	197272	104444	83263	60063
Canal System 2	SIU	4	197614	95618	204006	125897	78026	148705	184002	117444	71647	184675	190773	97945	76764	53564
Start (Pioneer)			206528	104533	212920	134812	86940	157619	192916	126359	80562	193589	199687	106860	85678	62478
Coyote	Buffer	4	205758	103763	212150	134042	86170	156849	192146	125589	79792	192819	198917	106090	84908	61708
Crismon	Buffer	4	201464	99468	207856	129747	81876	152555	187852	121294	75497	188525	194623	101795	80614	57414
Sedimento	Buffer	4	198208	96212	204600	126491	78620	149299	184596	118038	72241	185269	191367	98539	77358	54158
Canal System 2	Buffer	4	175530	73535	181922	103814	55942	126621	161918	95361	49564	162591	168689	75862	54680	31480

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	780 Silk 1	781 Silk 1	782 Silk 1	783 Silk 1	784 Silk 1	785 Silk 1	786 Silk 1	787 Silk 1	788 Silk 1	789 Silk 1	790 Silk 1	791 Silk 1	792 Silk 1	793 Silk 1
Start (Pioneer)			138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370	177188
Coyote	SIU	3	137882	145662	76286	170389	167249	190856	68450	164740	89491	120709	143839	58329	94201	177020
Crismon	SIU	3	136948	144728	75352	169455	166315	189922	67516	163806	88557	119775	142905	57395	93267	176086
Sediment	SIU	3	136238	144018	74643	168746	165606	189212	66807	163097	87848	119066	142196	56686	92558	175377
Canal System 2	SIU	3	131364	139144	69769	163872	160732	184338	61933	158223	82974	114192	137322	51812	87684	170502
Start (Pioneer)			138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370	177188
Coyote	Buffer	3	137472	145252	75877	169980	166840	190447	68041	164331	89082	120300	143430	57920	93792	176611
Crismon	Buffer	3	134252	142032	72656	166759	163619	187226	64820	161110	85861	117079	140209	54699	90571	173390
Sedimento	Buffer	3	131810	139590	70214	164317	161177	184784	62378	158668	83419	114637	137767	52257	88129	170948
Canal System 2	Buffer	3	114801	122581	53206	147309	144169	167776	45370	141660	66411	97629	120759	35249	71121	153940
Start (Pioneer)			138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370	177188
Coyote	SIU	4	137825	145605	76230	170333	167193	190800	68394	164684	89435	120653	143783	58273	94145	176964
Crismon	SIU	4	136580	144360	74985	169088	165948	189554	67149	163439	88190	119408	142538	57028	92900	175719
Sediment	SIU	4	135634	143414	74039	168142	165002	188608	66203	162493	87244	118462	141592	56082	91954	174773
Canal System 2	SIU	4	129135	136915	67540	161643	158503	182110	59704	155994	80745	111963	135093	49583	85455	168274
Start (Pioneer)			138050	145830	76454	170558	167418	191024	68618	164908	89659	120878	144007	58497	94370	177188
Coyote	Buffer	4	137280	145060	75684	169788	166648	190254	67848	164138	88889	120108	143237	57727	93600	176418
Crismon	Buffer	4	132985	140765	71390	165493	162353	185960	63554	159844	84595	115813	138943	53433	89305	172124
Sedimento	Buffer	4	129729	137509	68134	162237	159097	182704	60298	156588	81339	112557	135687	50177	86049	168868
Canal System 2	Buffer	4	107052	114832	45456	139560	136420	160026	37620	133910	58661	89880	113009	27499	63372	146190

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	794 Silk 1	795 Silk 1	796 Silk 1	797 Silk 1	798 Silk 1	799 Silk 1	Total Deficits
Start (Pioneer)			95169	94089	98084	56941	253082	157843	
Coyote	SIU	3	95000	93921	97916	56773	252914	157675	0
Crismon	SIU	3	94066	92987	96982	55839	251980	156741	0
Sediment	SIU	3	93357	92277	96273	55130	251270	156032	0
Canal System 2	SIU	3	88483	87403	91399	50256	246396	151158	0
Start (Pioneer)			95169	94089	98084	56941	253082	157843	
Coyote	Buffer	3	94591	93512	97507	56364	252504	157266	0
Crismon	Buffer	3	91370	90291	94286	53143	249284	154045	0
Sedimento	Buffer	3	88928	87849	91844	50701	246842	151603	0
Canal System 2	Buffer	3	71920	70841	74836	33693	229833	134595	1
Start (Pioneer)			95169	94089	98084	56941	253082	157843	
Coyote	SIU	4	94944	93865	97860	56717	252858	157619	0
Crismon	SIU	4	93699	92620	96615	55472	251612	156374	0
Sediment	SIU	4	92753	91674	95669	54526	250666	155428	0
Canal System 2	SIU	4	86254	85175	89170	48027	244168	148929	0
Start (Pioneer)			95169	94089	98084	56941	253082	157843	
Coyote	Buffer	4	94399	93319	97314	56171	252312	157073	0
Crismon	Buffer	4	90104	89025	93020	51877	248018	152779	0
Sedimento	Buffer	4	86848	85769	89764	48621	244762	149523	0
Canal System 2	Buffer	4	64171	63091	67086	25943	222084	126845	1

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	740 Plant 2	741 Plant 2	742 Plant 2	743 Plant 2	744 Plant 2	745 Plant 2	746 Plant 2	747 Plant 2	748 Plant 2	749 Plant 2	750 Plant 2	751 Plant 2	752 Plant 2	753 Plant 2
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219	44911
Coyote	SIU	3	49501	33714	18606	37200	26760	38109	44674	60303	30370	47022	20508	18621	41051	44743
Crismon	SIU	3	48568	32780	17672	36266	25826	37175	43740	59369	29436	46088	19574	17687	40117	43809
Sediment	SIU	3	47858	32071	16963	35556	25117	36465	43031	58660	28726	45378	18865	16978	39407	43099
Canal System 2	SIU	3	42984	27197	12089	30682	20243	31591	38157	53785	23852	40504	13991	12104	34533	38225
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219	44911
Coyote	Buffer	3	49092	33305	18197	36791	26351	37700	44265	59894	29960	46613	20099	18212	40642	44333
Crismon	Buffer	3	45871	30084	14976	33570	23130	34479	41044	56673	26740	43392	16878	14991	37421	41113
Sedimento	Buffer	3	43429	27642	12534	31128	20688	32037	38602	54231	24298	40950	14436	12549	34979	38671
Canal System 2	Buffer	3	26421	10634	-4474	14120	3680.1	15029	21594	37223	7289.4	23942	-2572	-4459	17971	21662
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219	44911
Coyote	SIU	4	49445	33658	18550	37144	26704	38053	44618	60247	30313	46966	20452	18565	40995	44687
Crismon	SIU	4	48200	32413	17305	35899	25459	36808	43373	59002	29068	45720	19207	17320	39749	43441
Sediment	SIU	4	47254	31467	16359	34953	24513	35862	42427	58056	28122	44774	18261	16374	38803	42495
Canal System 2	SIU	4	40755	24968	9860.1	28454	18014	29363	35928	51557	21623	38276	11762	9875	32305	35997
Start (Pioneer)			49670	33882	18775	37368	26929	38277	44843	60471	30538	47190	20677	18789	41219	44911
Coyote	Buffer	4	48900	33112	18005	36598	26159	37507	44073	59701	29768	46420	19907	18019	40449	44141
Crismon	Buffer	4	44605	28818	13710	32304	21864	33213	39778	55407	25473	42126	15612	13725	36155	39847
Sedimento	Buffer	4	41349	25562	10454	29048	18608	29957	36522	52151	22217	38870	12356	10469	32899	36591
Canal System 2	Buffer	4	18672	2884.4	-12223	6370.2	-4069	7279.1	13845	29473	-460.1	16192	-10321	-12209	10221	13913

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	754 Plant 2	755 Plant 2	756 Plant 2	757 Plant 2	758 Plant 2	759 Plant 2	760 Plant 2	761 Plant 2	762 Plant 2	763 Plant 2	764 Plant 2	765 Plant 2	766 Plant 2	767 Plant 2
Start (Pioneer)			40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8141.7	75967	38450
Coyote	SIU	3	40551	34368	51838	28892	44371	71014	51399	20302	39009	64697	35178	7973.4	75799	38282
Crismon	SIU	3	39617	33434	50904	27958	43438	70080	50465	19368	38075	63763	34244	7039.5	74865	37348
Sediment	SIU	3	38907	32725	50194	27249	42728	69370	49756	18659	37366	63054	33534	6330	74155	36638
Canal System 2	SIU	3	34033	27851	45320	22375	37854	64496	44882	13785	32491	58180	28660	1455.9	69281	31764
Start (Pioneer)			40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8141.7	75967	38450
Coyote	Buffer	3	40141	33959	51428	28483	43962	70605	50990	19893	38600	64288	34769	7564.2	75390	37873
Crismon	Buffer	3	36921	30738	48208	25262	40741	67384	47769	16672	35379	61067	31548	4343.4	72169	34652
Sedimento	Buffer	3	34479	28296	45766	22820	38299	64942	45327	14230	32937	58625	29106	1901.4	69727	32210
Canal System 2	Buffer	3	17470	11288	28757	5812.1	21291	47934	28319	-2778	15929	41617	12098	-15107	52719	15202
Start (Pioneer)			40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8141.7	75967	38450
Coyote	SIU	4	40495	34312	51782	28836	44315	70958	51343	20246	38953	64641	35122	7917.3	75743	38226
Crismon	SIU	4	39249	33067	50536	27591	43070	69712	50098	19001	37708	63396	33877	6672.1	74497	36981
Sediment	SIU	4	38303	32121	49590	26645	42124	68766	49152	18055	36762	62450	32931	5726.1	73551	36035
Canal System 2	SIU	4	31805	25622	43092	20146	35625	62268	42653	11556	30263	55951	26432	-772.7	67053	29536
Start (Pioneer)			40719	34537	52006	29061	44540	71182	51568	20470	39177	64866	35346	8141.7	75967	38450
Coyote	Buffer	4	39949	33767	51236	28291	43770	70412	50798	19700	38407	64096	34576	7371.7	75197	37680
Crismon	Buffer	4	35655	29472	46942	23996	39475	66118	46503	15406	34113	59801	30282	3077.3	70903	33386
Sedimento	Buffer	4	32399	26216	43686	20740	36219	62862	43247	12150	30857	56545	27026	-178.7	67647	30130
Canal System 2	Buffer	4	9720.9	3538.6	21008	-1937	13542	40184	20570	-10528	8179.2	33868	4348.1	-22856	44969	7452.2

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	768 Plant 2	769 Plant 2	770 Plant 2	771 Plant 2	772 Plant 2	773 Plant 2	774 Plant 2	775 Plant 2	776 Plant 2	777 Plant 2	778 Plant 2	779 Plant 2	780 Plant 2	781 Plant 2
Start (Pioneer)			78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515	22981	50779	53641
Coyote	SIU	3	78150	49419	31811	57809	70792	46310	29465	71040	73283	39138	31347	22813	50610	53472
Crismon	SIU	3	77216	48485	30877	56875	69858	45376	28531	70106	72349	38204	30413	21879	49677	52538
Sediment	SIU	3	76507	47776	30167	56165	69149	44667	27821	69396	71639	37494	29703	21170	48967	51829
Canal System 2	SIU	3	71633	42902	25293	51291	64275	39793	22947	64522	66765	32620	24829	16296	44093	46955
Start (Pioneer)			78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515	22981	50779	53641
Coyote	Buffer	3	77741	49010	31402	57399	70383	45901	29055	70630	72873	38729	30938	22404	50201	53063
Crismon	Buffer	3	74520	45789	28181	54179	67162	42680	25835	67410	69653	35508	27717	19183	46980	49842
Sedimento	Buffer	3	72078	43347	25739	51737	64720	40238	23393	64968	67211	33066	25275	16741	44538	47400
Canal System 2	Buffer	3	55070	26339	8730.6	34728	47712	23230	6384.5	47959	50202	16058	8266.5	-267.1	27530	30392
Start (Pioneer)			78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515	22981	50779	53641
Coyote	SIU	4	78094	49363	31755	57753	70736	46254	29409	70983	73226	39082	31291	22757	50554	53416
Crismon	SIU	4	76849	48118	30509	56507	69491	45009	28163	69738	71981	37837	30045	21512	49309	52171
Sediment	SIU	4	75903	47172	29563	55561	68545	44063	27217	68792	71035	36891	29099	20566	48363	51225
Canal System 2	SIU	4	69404	40673	23065	49063	62046	37564	20719	62293	64536	30392	22601	14067	41864	44726
Start (Pioneer)			78318	49588	31979	57977	70960	46478	29633	71208	73451	39306	31515	22981	50779	53641
Coyote	Buffer	4	77548	48818	31209	57207	70190	45708	28863	70438	72681	38536	30745	22211	50009	52871
Crismon	Buffer	4	73254	44523	26915	52913	65896	41414	24569	66143	68386	34242	26451	17917	45714	48576
Sedimento	Buffer	4	69998	41267	23659	49657	62640	38158	21313	62887	65130	30986	23195	14661	42458	45320
Canal System 2	Buffer	4	47320	18590	981.08	26979	39962	15480	-1365	40210	42453	8308.1	517.02	-8017	19781	22643

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	782 Plant 2	783 Plant 2	784 Plant 2	785 Plant 2	786 Plant 2	787 Plant 2	788 Plant 2	789 Plant 2	790 Plant 2	791 Plant 2	792 Plant 2	793 Plant 2	794 Plant 2	795 Plant 2
Start (Pioneer)			28122	62736	61581	70264	25240	60658	32979	44462	52970	21517	34712	65175	35006	34609
Coyote	SIU	3	27954	62568	61413	70096	25072	60490	32811	44294	52802	21349	34544	65007	34838	34440
Crismon	SIU	3	27020	61634	60479	69162	24138	59556	31877	43360	51868	20415	33610	64073	33904	33507
Sediment	SIU	3	26311	60924	59769	68453	23428	58846	31168	42651	51158	19705	32900	63363	33194	32797
Canal System 2	SIU	3	21436	56050	54895	63578	18554	53972	26294	37777	46284	14831	28026	58489	28320	27923
Start (Pioneer)			28122	62736	61581	70264	25240	60658	32979	44462	52970	21517	34712	65175	35006	34609
Coyote	Buffer	3	27545	62159	61004	69687	24662	60081	32402	43885	52393	20940	34134	64598	34428	34031
Crismon	Buffer	3	24324	58938	57783	66466	21442	56860	29181	40664	49172	17719	30914	61377	31208	30810
Sedimento	Buffer	3	21882	56496	55341	64024	19000	54418	26739	38222	46730	15277	28472	58935	28766	28368
Canal System 2	Buffer	3	4874	39488	38333	47016	1991	37410	9731	21214	29722	-1731	11463	41927	11757	11360
Start (Pioneer)			28122	62736	61581	70264	25240	60658	32979	44462	52970	21517	34712	65175	35006	34609
Coyote	SIU	4	27898	62512	61357	70040	25015	60434	32755	44238	52746	21293	34487	64951	34781	34384
Crismon	SIU	4	26653	61267	60112	68795	23770	59189	31510	42993	51501	20047	33242	63705	33536	33139
Sediment	SIU	4	25707	60321	59166	67849	22824	58243	30564	42047	50555	19101	32296	62759	32590	32193
Canal System 2	SIU	4	19208	53822	52667	61350	16325	51744	24065	35548	44056	12603	25797	56261	26091	25694
Start (Pioneer)			28122	62736	61581	70264	25240	60658	32979	44462	52970	21517	34712	65175	35006	34609
Coyote	Buffer	4	27352	61966	60811	69494	24470	59888	32209	43692	52200	20747	33942	64405	34236	33839
Crismon	Buffer	4	23058	57672	56517	65200	20175	55594	27915	39398	47906	16453	29647	60111	29941	29544
Sedimento	Buffer	4	19802	54416	53261	61944	16919	52338	24659	36142	44650	13197	26391	56855	26685	26288
Canal System 2	Buffer	4	-2876	31738	30583	39266	-5758	29660	1981	13464	21972	-9481	3714	34177	4008	3611

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	796 Plant 2	797 Plant 2	798 Plant 2	799 Plant 2	Total Deficits	740 Silk 2	741 Silk 2	742 Silk 2	743 Silk 2	744 Silk 2	745 Silk 2	746 Silk 2	747 Silk 2
Start (Pioneer)			36078	20945	93091	58059		43226	29487	16339	32520	23435	33311	39025	52626
Coyote	SIU	3	35910	20776	92923	57891	0	43058	29318	16171	32352	23267	33143	38857	52458
Crismon	SIU	3	34976	19843	91989	56957	0	42124	28385	15237	31418	22333	32209	37923	51524
Sediment	SIU	3	34267	19133	91279	56248	0	41414	27675	14527	30709	21623	31500	37213	50814
Canal System 2	SIU	3	29393	14259	86405	51374	0	36540	22801	9653.1	25835	16749	26626	32339	45940
Start (Pioneer)			36078	20945	93091	58059		43226	29487	16339	32520	23435	33311	39025	52626
Coyote	Buffer	3	35501	20367	92513	57482	0	42649	28909	15761	31943	22858	32734	38448	52049
Crismon	Buffer	3	32280	17146	89293	54261	0	39428	25688	12541	28722	19637	29513	35227	48828
Sedimento	Buffer	3	29838	14704	86851	51819	0	36986	23246	10099	26280	17195	27071	32785	46386
Canal System 2	Buffer	3	12830	-2304	69842	34811	8	19978	6238.3	-6910	9271.8	186.57	10063	15777	29378
Start (Pioneer)			36078	20945	93091	58059		43226	29487	16339	32520	23435	33311	39025	52626
Coyote	SIU	4	35854	20720	92867	57835	0	43002	29262	16114	32296	23211	33087	38801	52402
Crismon	SIU	4	34609	19475	91621	56590	0	41756	28017	14869	31051	21965	31842	37556	51157
Sediment	SIU	4	33663	18529	90675	55644	0	40810	27071	13923	30105	21019	30896	36610	50211
Canal System 2	SIU	4	27164	12030	84177	49145	1	34312	20572	7424.5	23606	14521	24397	30111	43712
Start (Pioneer)			36078	20945	93091	58059		43226	29487	16339	32520	23435	33311	39025	52626
Coyote	Buffer	4	35308	20175	92321	57289	0	42456	28717	15569	31750	22665	32541	38255	51856
Crismon	Buffer	4	31014	15880	88027	52995	0	38162	24422	11274	27456	18371	28247	33961	47562
Sedimento	Buffer	4	27758	12624	84771	49739	1	34906	21166	8018.5	24200	15115	24991	30705	44306
Canal System 2	Buffer	4	5080.3	-10053	62093	27061	14	12228	-1511	-14659	1522.3	-7563	2313.4	8027.2	21628

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	748 Silk 2	749 Silk 2	750 Silk 2	751 Silk 2	752 Silk 2	753 Silk 2	754 Silk 2	755 Silk 2	756 Silk 2	757 Silk 2	758 Silk 2	759 Silk 2	760 Silk 2	761 Silk 2
Start (Pioneer)			26576	41068	17694	16079	35272	38432	34844	29554	44503	24868	38114	60912	44128	17517
Coyote	SIU	3	26408	40900	17525	15910	35104	38263	34676	29386	44335	24700	37946	60744	43960	17349
Crismon	SIU	3	25474	39966	16591	14976	34170	37329	33742	28452	43401	23766	37012	59810	43026	16415
Sediment	SIU	3	24764	39256	15882	14267	33461	36620	33033	27742	42691	23056	36302	59101	42316	15705
Canal System 2	SIU	3	19890	34382	11008	9392.8	28587	31746	28159	22868	37817	18182	31428	54227	37442	10831
Start (Pioneer)			26576	41068	17694	16079	35272	38432	34844	29554	44503	24868	38114	60912	44128	17517
Coyote	Buffer	3	25999	40491	17116	15501	34695	37854	34267	28976	43925	24290	37536	60335	43550	16940
Crismon	Buffer	3	22778	37270	13895	12280	31474	34633	31046	25756	40705	21070	34316	57114	40330	13719
Sedimento	Buffer	3	20336	34828	11453	9838.3	29032	32191	28604	23314	38263	18628	31874	54672	37888	11277
Canal System 2	Buffer	3	3327.6	17820	-5555	-7170	12024	15183	11596	6305.4	21254	1619.5	14865	37664	20879	-5731
Start (Pioneer)			26576	41068	17694	16079	35272	38432	34844	29554	44503	24868	38114	60912	44128	17517
Coyote	SIU	4	26352	40844	17469	15854	35048	38207	34620	29330	44279	24644	37889	60688	43903	17293
Crismon	SIU	4	25107	39598	16224	14609	33803	36962	33375	28084	43033	23398	36644	59443	42658	16047
Sediment	SIU	4	24161	38652	15278	13663	32857	36016	32429	27138	42087	22452	35698	58497	41712	15101
Canal System 2	SIU	4	17662	32154	8779.1	7164.2	26358	29517	25930	20640	35589	15954	29199	51998	35213	8602.6
Start (Pioneer)			26576	41068	17694	16079	35272	38432	34844	29554	44503	24868	38114	60912	44128	17517
Coyote	Buffer	4	25806	40298	16924	15309	34502	37662	34074	28784	43733	24098	37344	60142	43358	16747
Crismon	Buffer	4	21512	36004	12629	11014	30208	33367	29780	24490	39439	19804	33049	55848	39063	12453
Sedimento	Buffer	4	18256	32748	9373.1	7758.2	26952	30111	26524	21234	36183	16548	29793	52592	35807	9196.6
Canal System 2	Buffer	4	-4422	10070	-13304	-14919	4274.3	7433.5	3846.3	-1444	13505	-6130	7115.9	29914	13130	-13481

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	762 Silk 2	763 Silk 2	764 Silk 2	765 Silk 2	766 Silk 2	767 Silk 2	768 Silk 2	769 Silk 2	770 Silk 2	771 Silk 2	772 Silk 2	773 Silk 2	774 Silk 2	775 Silk 2
Start (Pioneer)			33525	55507	30247	6967.1	65007	32903	67019	42434	27365	49612	60723	39773	25358	60935
Coyote	SIU	3	33357	55339	30078	6798.8	64839	32735	66851	42265	27197	49444	60554	39605	25189	60766
Crismon	SIU	3	32423	54405	29144	5864.9	63905	31801	65917	41331	26263	48510	59621	38671	24256	59832
Sediment	SIU	3	31713	53696	28435	5155.4	63195	31091	65207	40622	25554	47801	58911	37961	23546	59123
Canal System 2	SIU	3	26839	48822	23561	281.3	58321	26217	60333	35748	20680	42927	54037	33087	18672	54249
Start (Pioneer)			33525	55507	30247	6967.1	65007	32903	67019	42434	27365	49612	60723	39773	25358	60935
Coyote	Buffer	3	32948	54930	29669	6389.6	64430	32325	66442	41856	26788	49035	60145	39195	24780	60357
Crismon	Buffer	3	29727	51709	26448	3168.8	61209	29105	63221	38635	23567	45814	56924	35975	21559	57136
Sedimento	Buffer	3	27285	49267	24006	726.8	58767	26663	60779	36193	21125	43372	54482	33533	19117	54694
Canal System 2	Buffer	3	10277	32259	6998.1	-16281	41759	9654.4	43771	19185	4116.9	26364	37474	16524	2109.3	37686
Start (Pioneer)			33525	55507	30247	6967.1	65007	32903	67019	42434	27365	49612	60723	39773	25358	60935
Coyote	SIU	4	33301	55283	30022	6742.7	64783	32678	66795	42209	27141	49388	60498	39549	25133	60710
Crismon	SIU	4	32055	54038	28777	5497.5	63538	31433	65550	40964	25896	48143	59253	38303	23888	59465
Sediment	SIU	4	31109	53092	27831	4551.5	62592	30487	64604	40018	24950	47197	58307	37357	22942	58519
Canal System 2	SIU	4	24611	46593	21332	-1947	56093	23988	58105	33519	18451	40698	51808	30859	16443	52020
Start (Pioneer)			33525	55507	30247	6967.1	65007	32903	67019	42434	27365	49612	60723	39773	25358	60935
Coyote	Buffer	4	32755	54737	29477	6197.1	64237	32133	66249	41664	26595	48842	59953	39003	24588	60165
Crismon	Buffer	4	28461	50443	25182	1902.7	59943	27838	61955	37369	22301	44548	55658	34709	20293	55870
Sedimento	Buffer	4	25205	47187	21926	-1353	56687	24582	58699	34113	19045	41292	52402	31453	17037	52614
Canal System 2	Buffer	4	2527	24509	-751.4	-24031	34009	1904.9	36021	11436	-3633	18614	29725	8774.9	-5640	29937

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	776 Silk 2	777 Silk 2	778 Silk 2	779 Silk 2	780 Silk 2	781 Silk 2	782 Silk 2	783 Silk 2	784 Silk 2	785 Silk 2	786 Silk 2	787 Silk 2	788 Silk 2	789 Silk 2
Start (Pioneer)			62854	33635	26968	19666	43453	45902	24065	53685	52697	60127	21598	51907	28221	38048
Coyote	SIU	3	62686	33467	26800	19498	43284	45733	23897	53517	52528	59959	21430	51739	28053	37879
Crismon	SIU	3	61752	32533	25866	18564	42351	44799	22963	52583	51594	59025	20496	50805	27119	36945
Sediment	SIU	3	61042	31824	25157	17854	41641	44090	22253	51873	50885	58315	19787	50095	26410	36236
Canal System 2	SIU	3	56168	26950	20282	12980	36767	39216	17379	46999	46011	53441	14913	45221	21536	31362
Start (Pioneer)			62854	33635	26968	19666	43453	45902	24065	53685	52697	60127	21598	51907	28221	38048
Coyote	Buffer	3	62276	33058	26391	19088	42875	45324	23487	53108	52119	59550	21021	51329	27644	37470
Crismon	Buffer	3	59056	29837	23170	15868	39654	42103	20267	49887	48898	56329	17800	48109	24423	34249
Sedimento	Buffer	3	56614	27395	20728	13426	37212	39661	17825	47445	46456	53887	15358	45667	21981	31807
Canal System 2	Buffer	3	39605	10387	3719.8	-3583	20204	22653	816.44	30437	29448	36879	-1650	28658	4972.9	14799
Start (Pioneer)			62854	33635	26968	19666	43453	45902	24065	53685	52697	60127	21598	51907	28221	38048
Coyote	SIU	4	62629	33411	26744	19441	43228	45677	23841	53461	52472	59903	21374	51682	27997	37823
Crismon	SIU	4	61384	32166	25499	18196	41983	44432	22595	52215	51227	58657	20129	50437	26752	36578
Sediment	SIU	4	60438	31220	24553	17250	41037	43486	21649	51269	50281	57711	19183	49491	25806	35632
Canal System 2	SIU	4	53939	24721	18054	10751	34538	36987	15151	44771	43782	51213	12684	42992	19307	29133
Start (Pioneer)			62854	33635	26968	19666	43453	45902	24065	53685	52697	60127	21598	51907	28221	38048
Coyote	Buffer	4	62084	32865	26198	18896	42683	45132	23295	52915	51927	59357	20828	51137	27451	37278
Crismon	Buffer	4	57789	28571	21904	14601	38388	40837	19001	48621	47632	55063	16534	46842	23157	32983
Sedimento	Buffer	4	54533	25315	18648	11345	35132	37581	15745	45365	44376	51807	13278	43586	19901	29727
Canal System 2	Buffer	4	31856	2637.3	-4030	-11332	12455	14904	-6933	22687	21699	29129	-9400	20909	-2777	7050

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	790 Silk 2	791 Silk 2	792 Silk 2	793 Silk 2	794 Silk 2	795 Silk 2	796 Silk 2	797 Silk 2	798 Silk 2	799 Silk 2	Total Deficits
Start (Pioneer)			45328	18413	29704	55772	29955	29616	30873	17923	79661	49683	
Coyote	SIU	3	45160	18244	29536	55604	29787	29447	30705	17755	79492	49515	0
Crismon	SIU	3	44226	17311	28602	54670	28853	28513	29771	16821	78558	48581	0
Sediment	SIU	3	43516	16601	27892	53960	28144	27804	29061	16111	77849	47871	0
Canal System 2	SIU	3	38642	11727	23018	49086	23270	22930	24187	11237	72975	42997	0
Start (Pioneer)			45328	18413	29704	55772	29955	29616	30873	17923	79661	49683	
Coyote	Buffer	3	44751	17835	29126	55195	29378	29038	30296	17345	79083	49106	0
Crismon	Buffer	3	41530	14614	25906	51974	26157	25817	27075	14125	75862	45885	0
Sedimento	Buffer	3	39088	12172	23464	49532	23715	23375	24633	11683	73420	43443	0
Canal System 2	Buffer	3	22080	-4836	6455.4	32524	6706.9	6367.2	7624.7	-5326	56412	26435	9
Start (Pioneer)			45328	18413	29704	55772	29955	29616	30873	17923	79661	49683	
Coyote	SIU	4	45104	18188	29480	55548	29731	29391	30649	17699	79436	49459	0
Crismon	SIU	4	43858	16943	28234	54302	28486	28146	29404	16453	78191	48213	0
Sediment	SIU	4	42912	15997	27288	53356	27540	27200	28458	15507	77245	47267	0
Canal System 2	SIU	4	36414	9498.3	20790	46858	21041	20701	21959	9008.6	70746	40769	1
Start (Pioneer)			45328	18413	29704	55772	29955	29616	30873	17923	79661	49683	
Coyote	Buffer	4	44558	17643	28934	55002	29185	28846	30103	17153	78891	48913	0
Crismon	Buffer	4	40264	13348	24640	50708	24891	24551	25809	12859	74596	44619	0
Sedimento	Buffer	4	37008	10092	21384	47452	21635	21295	22553	9602.6	71340	41363	1
Canal System 2	Buffer	4	14330	-12585	-1294	24774	-1043	-1382	-124.8	-13075	48663	18685	24

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	800 Plant 1	801 Plant 1	802 Plant 1	803 Plant 1	804 Plant 1	805 Plant 1	806 Plant 1	807 Plant 1	808 Plant 1	809 Plant 1	810 Plant 1	811 Plant 1	812 Plant 1	813 Plant 1	814 Plant 1
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537	150136
Coyote	SIU	1	147435	228171	147575	304555	237310	306738	160003	131691	57491	50619	213659	148359	174739	164481	150080
Crismon	SIU	1	146962	227698	147102	304082	236837	306265	159530	131218	57018	50146	213186	147886	174266	164008	149607
Scottsdale	SIU	1	146791	227527	146931	303910	236665	306094	159358	131046	56846	49975	213014	147714	174095	163836	149436
Sedimento	SIU	1	145826	226562	145966	302946	235701	305129	158393	130082	55881	49010	212049	146750	173130	162872	148471
Canal System 2	SIU	1	138864	219600	139004	295984	228739	298167	151431	123120	48919	42048	205088	139788	166168	155910	141509
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537	150136
Coyote	Buffer	1	147299	228035	147439	304419	237174	306602	159866	131555	57354	50483	213522	148223	174603	164345	149944
Crismon	Buffer	1	145669	226405	145809	302788	235543	304972	158236	129924	55724	48853	211892	146592	172973	162714	148314
Scottsdale	Buffer	1	145077	225813	145217	302197	234952	304380	157644	129333	55132	48261	211300	146001	172381	162123	147722
Sedimento	Buffer	1	141752	222488	141892	298871	231626	301055	154319	126007	51807	44935	207975	142675	169055	158797	144397
Canal System 2	Buffer	1	130096	210832	130236	287216	219971	289399	142663	114352	40151	33280	196319	131020	157400	147142	132741
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537	150136
Coyote	SIU	2	147379	228115	147519	304499	237254	306682	159946	131635	57434	50563	213603	148303	174683	164425	150024
Crismon	SIU	2	146433	227169	146573	303553	236308	305736	159000	130689	56488	49617	212657	147357	173737	163479	149078
Scottsdale	SIU	2	146090	226826	146230	303210	235965	305393	158657	130346	56145	49274	212313	147014	173394	163136	148735
Sedimento	SIU	2	144161	224897	144301	301280	234035	303464	156728	128416	54216	47344	210384	145084	171464	161206	146806
Canal System 2	SIU	2	130237	210973	130377	287357	220111	289540	142804	114493	40292	33421	196460	131160	157541	147282	132882
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537	150136
Coyote	Buffer	2	147106	227842	147246	304226	236981	306409	159674	131362	57162	50290	213330	148030	174410	164152	149751
Crismon	Buffer	2	143846	224582	143986	300966	233721	303149	156413	128102	53901	47030	210069	144770	171150	160892	146491
Scottsdale	Buffer	2	142662	223398	142802	299782	232537	301965	155230	126918	52718	45846	208886	143586	169966	159708	145307
Sedimento	Buffer	2	136012	216748	136152	293132	225886	295315	148579	120268	46067	39196	202235	136935	163316	153057	138657
Canal System 2	Buffer	2	112701	193437	112841	269820	202575	272004	125268	96956	22756	15884	178924	113624	140004	129746	115346

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	815 Plant 1	816 Plant 1	817 Plant 1	818 Plant 1	819 Plant 1	820 Plant 1	821 Plant 1	822 Plant 1	823 Plant 1	824 Plant 1	825 Plant 1	826 Plant 1	827 Plant 1	828 Plant 1	829 Plant 1
Start (Colonial)			112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700	93163	111119
Coyote	SIU	1	112546	99601	92758	72479	137751	195270	180379	256623	72787	114995	55419	181793	145644	93107	111063
Crismon	SIU	1	112073	99128	92285	72006	137278	194797	179906	256150	72314	114522	54946	181320	145171	92634	110590
Scottsdale	SIU	1	111902	98956	92113	71834	137106	194625	179734	255978	72142	114351	54775	181148	144999	92463	110418
Sedimento	SIU	1	110937	97992	91148	70870	136142	193660	178770	255013	71178	113386	53810	180183	144035	91498	109453
Canal System 2	SIU	1	103975	91030	84186	63908	129180	186698	171808	248052	64216	106424	46848	173221	137073	84536	102492
Start (Colonial)			112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700	93163	111119
Coyote	Buffer	1	112410	99465	92621	72343	137614	195133	180243	256486	72651	114859	55283	181656	145508	92971	110926
Crismon	Buffer	1	110780	97834	90991	70712	135984	193503	178612	254856	71020	113229	53653	180026	143877	91341	109296
Scottsdale	Buffer	1	110188	97243	90399	70121	135392	192911	178021	254264	70429	112637	53061	179434	143286	90749	108704
Sedimento	Buffer	1	106862	93917	87074	66795	132067	189586	174695	250939	67103	109312	49736	176109	139960	87424	105379
Canal System 2	Buffer	1	95207	82262	75418	55140	120412	177930	163040	239283	55448	97656	38080	164453	128305	75768	93723
Start (Colonial)			112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700	93163	111119
Coyote	SIU	2	112490	99545	92701	72423	137695	195213	180323	256567	72731	114939	55363	181736	145588	93051	111007
Crismon	SIU	2	111544	98599	91755	71477	136749	194267	179377	255621	71785	113993	54417	180790	144642	92105	110061
Scottsdale	SIU	2	111201	98256	91412	71134	136406	193924	179034	255277	71442	113650	54074	180447	144299	91762	109717
Sedimento	SIU	2	109271	96326	89483	69204	134476	191995	177104	253348	69512	111721	52145	178518	142369	89833	107788
Canal System 2	SIU	2	95348	82402	75559	55281	120552	178071	163181	239424	55588	97797	38221	164594	128445	75909	93864
Start (Colonial)			112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700	93163	111119
Coyote	Buffer	2	112217	99272	92429	72150	137422	194941	180050	256294	72458	114666	55090	181464	145315	92778	110734
Crismon	Buffer	2	108957	96012	89168	68890	134162	191680	176790	253033	69198	111406	51830	178203	142055	89518	107473
Scottsdale	Buffer	2	107773	94828	87985	67706	132978	190497	175606	251850	68014	110222	50646	177020	140871	88334	106290
Sedimento	Buffer	2	101123	88177	81334	61056	126327	183846	168956	245199	61363	103572	43996	170369	134220	81684	99639
Canal System 2	Buffer	2	77811	64866	58023	37744	103016	160535	145644	221888	38052	80261	20685	147058	110909	58373	76328

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	830 Plant 1	831 Plant 1	832 Plant 1	833 Plant 1	834 Plant 1	835 Plant 1	836 Plant 1	837 Plant 1	838 Plant 1	839 Plant 1	840 Plant 1	841 Plant 1	842 Plant 1	843 Plant 1	844 Plant 1
Start (Colonial)			58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592	129088	164649	127325
Coyote	SIU	1	58050	179022	111748	170835	207935	160101	175999	101378	17339	83017	51417	118536	129032	164593	127269
Crismon	SIU	1	57577	178549	111275	170362	207462	159628	175526	100905	16866	82544	50944	118063	128559	164120	126796
Scottsdale	SIU	1	57406	178377	111104	170190	207290	159456	175354	100734	16695	82373	50772	117891	128387	163948	126624
Sedimento	SIU	1	56441	177412	110139	169225	206326	158491	174389	99769	15730	81408	49808	116927	127423	162984	125659
Canal System 2	SIU	1	49479	170450	103177	162263	199364	151529	167427	92807	8768	74446	42846	109965	120461	156022	118698
Start (Colonial)			58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592	129088	164649	127325
Coyote	Buffer	1	57914	178885	111612	170698	207798	159964	175862	101242	17203	82881	51280	118400	128896	164456	127132
Crismon	Buffer	1	56284	177255	109982	169068	206168	158334	174232	99612	15573	81251	49650	116769	127265	162826	125502
Scottsdale	Buffer	1	55692	176663	109390	168476	205576	157742	173640	99020	14981	80659	49058	116178	126674	162234	124910
Sedimento	Buffer	1	52367	173338	106065	165151	202251	154417	170315	95695	11656	77333	45733	112852	123348	158909	121585
Canal System 2	Buffer	1	40711	161682	94409	153495	190596	142761	158659	84039	0	65678	34078	101197	111693	147254	109929
Start (Colonial)			58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592	129088	164649	127325
Coyote	SIU	2	57994	178965	111692	170778	207879	160044	175943	101322	17283	82961	51361	118480	128976	164537	127213
Crismon	SIU	2	57048	178019	110746	169832	206933	159098	174997	100376	16337	82015	50415	117534	128030	163591	126267
Scottsdale	SIU	2	56705	177676	110403	169489	206590	158755	174653	100033	15994	81672	50072	117191	127687	163248	125923
Sedimento	SIU	2	54776	175747	108474	167560	204660	156826	172724	98104	14065	79742	48142	115261	125757	161318	123994
Canal System 2	SIU	2	40852	161823	94550	153636	190736	142902	158800	84180	141	65819	34218	101337	111834	147394	110070
Start (Colonial)			58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592	129088	164649	127325
Coyote	Buffer	2	57721	178693	111420	170506	207606	159772	175670	101049	17011	82688	51088	118207	128703	164264	126940
Crismon	Buffer	2	54461	175432	108159	167245	204346	156511	172409	97789	13750	79428	47828	114947	125443	161004	123679
Scottsdale	Buffer	2	53277	174249	106976	166062	203162	155328	171226	96605	12567	78244	46644	113763	124259	159820	122496
Sedimento	Buffer	2	46627	167598	100325	159411	196511	148677	164575	89955	5916	71594	39993	107112	117609	153169	115845
Canal System 2	Buffer	2	23316	144287	77014	136100	173200	125366	141264	66644	-17395	48282	16682	83801	94297	129858	92534

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	845 Plant 1	846 Plant 1	847 Plant 1	848 Plant 1	849 Plant 1	850 Plant 1	851 Plant 1	852 Plant 1	853 Plant 1	854 Plant 1	855 Plant 1	856 Plant 1	857 Plant 1	858 Plant 1	859 Plant 1
Start (Colonial)			162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016	206633	126527	176796	146400
Coyote	SIU	1	162158	106878	58260	154643	82583	154615	109859	186355	110167	206479	102960	206577	126471	176740	146344
Crismon	SIU	1	161685	106405	57787	154170	82110	154142	109386	185882	109694	206006	102487	206104	125998	176267	145871
Scottsdale	SIU	1	161513	106234	57616	153998	81939	153970	109215	185710	109522	205835	102315	205933	125826	176096	145699
Sedimento	SIU	1	160548	105269	56651	153033	80974	153005	108250	184746	108558	204870	101350	204968	124862	175131	144734
Canal System 2	SIU	1	153587	98307	49689	146071	74012	146043	101288	177784	101596	197908	94389	198006	117900	168169	137772
Start (Colonial)			162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016	206633	126527	176796	146400
Coyote	Buffer	1	162021	106742	58124	154506	82447	154478	109723	186218	110031	206343	102823	206441	126335	176604	146207
Crismon	Buffer	1	160391	105112	56494	152876	80817	152848	108093	184588	108400	204713	101193	204811	124704	174974	144577
Scottsdale	Buffer	1	159799	104520	55902	152284	80225	152256	107501	183996	107809	204121	100601	204219	124113	174382	143985
Sedimento	Buffer	1	156474	101195	52577	148959	76900	148931	104175	180671	104483	200796	97276	200894	120787	171057	140660
Canal System 2	Buffer	1	144818	89539	40921	137303	65244	137275	92520	169016	92828	189140	85620	189238	109132	159401	129004
Start (Colonial)			162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016	206633	126527	176796	146400
Coyote	SIU	2	162102	106822	58204	154586	82527	154558	109803	186299	110111	206423	102904	206521	126415	176684	146288
Crismon	SIU	2	161156	105876	57258	153640	81581	153612	108857	185353	109165	205477	101958	205575	125469	175738	145342
Scottsdale	SIU	2	160812	105533	56915	153297	81238	153269	108514	185010	108822	205134	101614	205232	125126	175395	144998
Sedimento	SIU	2	158883	103604	54986	151368	79309	151340	106584	183080	106892	203205	99685	203303	123196	173466	143069
Canal System 2	SIU	2	144959	89680	41062	137444	65385	137416	92661	169156	92969	189281	85761	189379	109273	159542	129145
Start (Colonial)			162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016	206633	126527	176796	146400
Coyote	Buffer	2	161829	106549	57931	154314	82254	154286	109530	186026	109838	206150	102631	206248	126142	176411	146015
Crismon	Buffer	2	158568	103289	54671	151053	78994	151025	106270	182766	106578	202890	99370	202988	122882	173151	142754
Scottsdale	Buffer	2	157385	102105	53487	149870	77810	149842	105086	181582	105394	201706	98187	201804	121698	171967	141571
Sedimento	Buffer	2	150734	95455	46837	143219	71160	143191	98436	174931	98744	195056	91536	195154	115048	165317	134920
Canal System 2	Buffer	2	127423	72144	23526	119908	47849	119880	75124	151620	75432	171745	68225	171843	91736	142006	111609

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	860 Plant 1	861 Plant 1	862 Plant 1	863 Plant 1	864 Plant 1	865 Plant 1	866 Plant 1	867 Plant 1	868 Plant 1	869 Plant 1	870 Plant 1	871 Plant 1	872 Plant 1	873 Plant 1	874 Plant 1
Start (Colonial)			104527	164229	156420	145700	116563	81114	118620	80918	128193	206214	102022	126723	102792	203946	127031
Coyote	SIU	1	104471	164173	156364	145644	116507	81058	118564	80862	128136	206157	101966	126667	102736	203890	126975
Crismon	SIU	1	103998	163700	155891	145171	116034	80585	118091	80389	127663	205684	101493	126194	102263	203417	126502
Scottsdale	SIU	1	103827	163528	155719	144999	115862	80413	117919	80217	127492	205513	101322	126022	102091	203246	126330
Sedimento	SIU	1	102862	162564	154755	144035	114897	79449	116955	79253	126527	204548	100357	125058	101127	202281	125366
Canal System 2	SIU	1	95900	155602	147793	137073	107936	72487	109993	72291	119565	197586	93395	118096	94165	195319	118404
Start (Colonial)			104527	164229	156420	145700	116563	81114	118620	80918	128193	206214	102022	126723	102792	203946	127031
Coyote	Buffer	1	104335	164037	156228	145508	116370	80921	118428	80726	128000	206021	101830	126531	102599	203754	126838
Crismon	Buffer	1	102705	162406	154597	143877	114740	79291	116797	79095	126370	204391	100200	124900	100969	202124	125208
Scottsdale	Buffer	1	102113	161815	154006	143286	114148	78699	116206	78504	125778	203799	99608	124309	100377	201532	124616
Sedimento	Buffer	1	98787	158489	150680	139960	110823	75374	112880	75178	122453	200474	96282	120983	97052	198207	121291
Canal System 2	Buffer	1	87132	146834	139025	128305	99167	63719	101225	63523	110797	188818	84627	109328	85397	186551	109636
Start (Colonial)			104527	164229	156420	145700	116563	81114	118620	80918	128193	206214	102022	126723	102792	203946	127031
Coyote	SIU	2	104415	164117	156308	145588	116451	81002	118508	80806	128080	206101	101910	126611	102680	203834	126919
Crismon	SIU	2	103469	163171	155362	144642	115505	80056	117562	79860	127134	205155	100964	125665	101734	202888	125973
Scottsdale	SIU	2	103126	162828	155019	144299	115161	79713	117219	79517	126791	204812	100621	125322	101391	202545	125630
Sedimento	SIU	2	101196	160898	153089	142369	113232	77783	115289	77587	124862	202883	98691	123392	99461	200616	123700
Canal System 2	SIU	2	87273	146975	139165	128445	99308	63859	101365	63663	110938	188959	84768	109468	85537	186692	109776
Start (Colonial)			104527	164229	156420	145700	116563	81114	118620	80918	128193	206214	102022	126723	102792	203946	127031
Coyote	Buffer	2	104142	163844	156035	145315	116178	80729	118235	80533	127808	205829	101637	126338	102407	203561	126646
Crismon	Buffer	2	100882	160584	152775	142055	112917	77469	114975	77273	124547	202568	98377	123078	99147	200301	123386
Scottsdale	Buffer	2	99698	159400	151591	140871	111734	76285	113791	76089	123364	201385	97193	121894	97963	199117	122202
Sedimento	Buffer	2	93048	152750	144940	134220	105083	69634	107140	69438	116713	194734	90543	115243	91312	192467	115551
Canal System 2	Buffer	2	69736	129438	121629	110909	81772	46323	83829	46127	93402	171423	67231	91932	68001	169156	92240

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	875 Plant 1	876 Plant 1	877 Plant 1	878 Plant 1	879 Plant 1	880 Plant 1	881 Plant 1	882 Plant 1	883 Plant 1	884 Plant 1	885 Plant 1	886 Plant 1	887 Plant 1	888 Plant 1	889 Plant 1
Start (Colonial)			164467	205542	131047	100455	102904	178896	167350	112350	73543	62613	134784	103478	145532	264712	74270
Coyote	SIU	1	164411	205486	130991	100399	102848	178840	167294	112294	73487	62557	134728	103422	145476	264656	74214
Crismon	SIU	1	163938	205013	130518	99926	102375	178367	166821	111821	73014	62084	134255	102949	145003	264183	73741
Scottsdale	SIU	1	163766	204841	130347	99754	102203	178195	166649	111650	72842	61912	134083	102777	144831	264011	73570
Sedimento	SIU	1	162802	203876	129382	98789	101238	177230	165685	110685	71877	60947	133119	101812	143867	263047	72605
Canal System 2	SIU	1	155840	196915	122420	91827	94277	170268	158723	103723	64915	53986	126157	94850	136905	256085	65643
Start (Colonial)			164467	205542	131047	100455	102904	178896	167350	112350	73543	62613	134784	103478	145532	264712	74270
Coyote	Buffer	1	164275	205349	130855	100262	102711	178703	167157	112158	73350	62420	134592	103285	145340	264519	74078
Crismon	Buffer	1	162644	203719	129225	98632	101081	177073	165527	110528	71720	60790	132961	101655	143709	262889	72448
Scottsdale	Buffer	1	162053	203127	128633	98040	100489	176481	164935	109936	71128	60198	132370	101063	143118	262297	71856
Sedimento	Buffer	1	158727	199802	125308	94715	97164	173156	161610	106611	67803	56873	129044	97738	139792	258972	68531
Canal System 2	Buffer	1	147072	188146	113652	83059	85508	161500	149955	94955	56147	45217	117389	86082	128137	247317	56875
Start (Colonial)			164467	205542	131047	100455	102904	178896	167350	112350	73543	62613	134784	103478	145532	264712	74270
Coyote	SIU	2	164355	205430	130935	100343	102792	178784	167238	112238	73431	62501	134672	103365	145420	264600	74158
Crismon	SIU	2	163409	204484	129989	99397	101846	177838	166292	111292	72485	61555	133726	102419	144474	263654	73212
Scottsdale	SIU	2	163066	204140	129646	99053	101502	177494	165949	110949	72141	61211	133383	102076	144131	263311	72869
Sedimento	SIU	2	161136	202211	127717	97124	99573	175565	164019	109020	70212	59282	131453	100147	142201	261381	70940
Canal System 2	SIU	2	147212	188287	113793	83200	85649	161641	150095	95096	56288	45358	117529	86223	128277	247457	57016
Start (Colonial)			164467	205542	131047	100455	102904	178896	167350	112350	73543	62613	134784	103478	145532	264712	74270
Coyote	Buffer	2	164082	205157	130662	100070	102519	178511	166965	111965	73158	62228	134399	103093	145147	264327	73885
Crismon	Buffer	2	160822	201896	127402	96809	99258	175250	163705	108705	69897	58967	131139	99832	141887	261067	70625
Scottsdale	Buffer	2	159638	200713	126218	95626	98075	174067	162521	107521	68714	57784	129955	98649	140703	259883	69441
Sedimento	Buffer	2	152987	194062	119568	88975	91424	167416	155870	100871	62063	51133	123304	91998	134052	253232	62791
Canal System 2	Buffer	2	129676	170751	96257	65664	68113	144105	132559	77560	38752	27822	99993	68687	110741	229921	39480

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	890 Plant 1	891 Plant 1	892 Plant 1	893 Plant 1	894 Plant 1	895 Plant 1	896 Plant 1	897 Plant 1	898 Plant 1	899 Plant 1	900 Plant 1	901 Plant 1	902 Plant 1	903 Plant 1	904 Plant 1
Start (Colonial)			190707	181779	78819	163012	92086	89511	115233	202309	203792	363837	60905	110363	83927	69190	70996
Coyote	SIU	1	190651	181723	78763	162956	92030	89455	115177	202253	203736	363781	60849	110307	83871	69134	70940
Crismon	SIU	1	190178	181250	78290	162483	91557	88982	114704	201780	203263	363308	60376	109834	83398	68661	70467
Scottsdale	SIU	1	190007	181078	78118	162311	91385	88810	114533	201608	203092	363136	60205	109662	83226	68490	70295
Sedimento	SIU	1	189042	180113	77153	161346	90420	87845	113568	200644	202127	362172	59240	108698	82262	67525	69330
Canal System 2	SIU	1	182080	173151	70191	154384	83459	80884	106606	193682	195165	355210	52278	101736	75300	60563	62368
Start (Colonial)			190707	181779	78819	163012	92086	89511	115233	202309	203792	363837	60905	110363	83927	69190	70996
Coyote	Buffer	1	190515	181586	78626	162819	91893	89318	115041	202117	203600	363645	60713	110171	83734	68998	70803
Crismon	Buffer	1	188885	179956	76996	161189	90263	87688	113411	200486	201970	362014	59083	108540	82104	67368	69173
Scottsdale	Buffer	1	188293	179364	76404	160597	89671	87096	112819	199895	201378	361423	58491	107949	81512	66776	68581
Sedimento	Buffer	1	184968	176039	73079	157272	86346	83771	109494	196569	198053	358097	55166	104623	78187	63451	65256
Canal System 2	Buffer	1	173312	164383	61423	145616	74690	72115	97838	184914	186397	346442	43510	92968	66532	51795	53600
Start (Colonial)			190707	181779	78819	163012	92086	89511	115233	202309	203792	363837	60905	110363	83927	69190	70996
Coyote	SIU	2	190595	181666	78707	162899	91974	89399	115121	202197	203680	363725	60793	110251	83815	69078	70883
Crismon	SIU	2	189649	180720	77761	161953	91028	88453	114175	201251	202734	362779	59847	109305	82869	68132	69937
Scottsdale	SIU	2	189306	180377	77417	161610	90684	88109	113832	200908	202391	362436	59504	108962	82526	67789	69594
Sedimento	SIU	2	187377	178448	75488	159681	88755	86180	111903	198978	200462	360506	57575	107032	80596	65860	67665
Canal System 2	SIU	2	173453	164524	61564	145757	74831	72256	97979	185054	186538	346583	43651	93109	66672	51936	53741
Start (Colonial)			190707	181779	78819	163012	92086	89511	115233	202309	203792	363837	60905	110363	83927	69190	70996
Coyote	Buffer	2	190322	181394	78434	162627	91701	89126	114848	201924	203407	363452	60520	109978	83542	68805	70611
Crismon	Buffer	2	187062	178133	75173	159366	88440	85865	111588	198664	200147	360192	57260	106718	80282	65545	67350
Scottsdale	Buffer	2	185878	176950	73990	158183	87257	84682	110404	197480	198963	359008	56076	105534	79098	64361	66167
Sedimento	Buffer	2	179228	170299	67339	151532	80606	78031	103754	190829	192313	352358	49426	98884	72447	57711	59516
Canal System 2	Buffer	2	155917	146988	44028	128221	57295	54720	80443	167518	169002	329046	26115	75572	49136	34400	36205

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	905 Plant 1	906 Plant 1	907 Plant 1	908 Plant 1	909 Plant 1	910 Plant 1	911 Plant 1	912 Plant 1	913 Plant 1	914 Plant 1	915 Plant 1	916 Plant 1	917 Plant 1	918 Plant 1	919 Plant 1
Start (Colonial)			125296	83521	74326	133441	132783	90295	162284	161220	123448	128710	181653	88111	201455	114785	113148
Coyote	SIU	1	125239	83465	74270	133384	132727	90238	162228	161164	123392	128654	181597	88055	201399	114729	113092
Crismon	SIU	1	124766	82992	73797	132911	132254	89765	161755	160691	122919	128181	181124	87582	200926	114256	112619
Scottsdale	SIU	1	124595	82820	73626	132740	132082	89594	161583	160520	122748	128010	180952	87411	200755	114085	112447
Sedimento	SIU	1	123630	81856	72661	131775	131117	88629	160618	159555	121783	127045	179987	86446	199790	113120	111483
Canal System 2	SIU	1	116668	74894	65699	124813	124156	81667	153657	152593	114821	120083	173025	79484	192828	106158	104521
Start (Colonial)			125296	83521	74326	133441	132783	90295	162284	161220	123448	128710	181653	88111	201455	114785	113148
Coyote	Buffer	1	125103	83329	74134	133248	132590	90102	162091	161028	123256	128518	181460	87919	201263	114593	112956
Crismon	Buffer	1	123473	81698	72504	131618	130960	88472	160461	159398	121626	126888	179830	86289	199633	112963	111325
Scottsdale	Buffer	1	122881	81107	71912	131026	130368	87880	159869	158806	121034	126296	179238	85697	199041	112371	110734
Sedimento	Buffer	1	119556	77781	68587	127701	127043	84555	156544	155480	117708	122971	175913	82372	195716	109046	107408
Canal System 2	Buffer	1	107900	66126	56931	116045	115387	72899	144888	143825	106053	111315	164257	70716	184060	97390	95753
Start (Colonial)			125296	83521	74326	133441	132783	90295	162284	161220	123448	128710	181653	88111	201455	114785	113148
Coyote	SIU	2	125183	83409	74214	133328	132671	90182	162172	161108	123336	128598	181540	87999	201343	114673	113036
Crismon	SIU	2	124237	82463	73268	132382	131725	89236	161226	160162	122390	127652	180594	87053	200397	113727	112090
Scottsdale	SIU	2	123894	82120	72925	132039	131381	88893	160882	159819	122047	127309	180251	86710	200054	113384	111747
Sedimento	SIU	2	121965	80190	70996	130110	129452	86964	158953	157889	120117	125380	178322	84781	198125	111455	109817
Canal System 2	SIU	2	108041	66266	57072	116186	115528	73040	145029	143966	106194	111456	164398	70857	184201	97531	95893
Start (Colonial)			125296	83521	74326	133441	132783	90295	162284	161220	123448	128710	181653	88111	201455	114785	113148
Coyote	Buffer	2	124911	83136	73941	133056	132398	89910	161899	160835	123063	128325	181268	87726	201070	114400	112763
Crismon	Buffer	2	121650	79876	70681	129795	129137	86649	158638	157575	119803	125065	178007	84466	197810	111140	109503
Scottsdale	Buffer	2	120467	78692	69497	128612	127954	85466	157455	156391	118619	123881	176824	83282	196626	109956	108319
Sedimento	Buffer	2	113816	72041	62847	121961	121303	78815	150804	149741	111969	117231	170173	76632	189976	103306	101668
Canal System 2	Buffer	2	90505	48730	39536	98650	97992	55504	127493	126429	88657	93920	146862	53321	166665	79995	78357

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	920 Plant 1	921 Plant 1	922 Plant 1	923 Plant 1	924 Plant 1	925 Plant 1	926 Plant 1	927 Plant 1	928 Plant 1	929 Plant 1	930 Plant 1	931 Plant 1	932 Plant 1	933 Plant 1	934 Plant 1
Start (Colonial)			56189	103436	68952	85760	69400	108824	172542	127157	249821	206116	129914	206689	152795	89987	93485
Coyote	SIU	1	56133	103380	68896	85704	69344	108768	172486	127101	249765	206060	129858	206633	152739	89931	93429
Crismon	SIU	1	55660	102907	68423	85231	68871	108295	172013	126628	249292	205587	129385	206160	152266	89458	92956
Scottsdale	SIU	1	55488	102735	68252	85060	68700	108123	171841	126456	249121	205415	129213	205989	152095	89286	92785
Sedimento	SIU	1	54524	101770	67287	84095	67735	107158	170877	125491	248156	204450	128248	205024	151130	88321	91820
Canal System 2	SIU	1	47562	94808	60325	77133	60773	100196	163915	118530	241194	197488	121287	198062	144168	81359	84858
Start (Colonial)			56189	103436	68952	85760	69400	108824	172542	127157	249821	206116	129914	206689	152795	89987	93485
Coyote	Buffer	1	55997	103243	68760	85568	69208	108631	172350	126964	249629	205923	129721	206497	152603	89794	93293
Crismon	Buffer	1	54366	101613	67130	83938	67578	107001	170719	125334	247999	204293	128091	204867	150973	88164	91663
Scottsdale	Buffer	1	53775	101021	66538	83346	66986	106409	170128	124742	247407	203701	127499	204275	150381	87572	91071
Sedimento	Buffer	1	50449	97696	63213	80020	63660	103084	166802	121417	244082	200376	124174	200950	147056	84247	87746
Canal System 2	Buffer	1	38794	86040	51557	68365	52005	91428	155147	109761	232426	188720	112518	189294	135400	72591	76090
Start (Colonial)			56189	103436	68952	85760	69400	108824	172542	127157	249821	206116	129914	206689	152795	89987	93485
Coyote	SIU	2	56077	103323	68840	85648	69288	108711	172430	127045	249709	206003	129802	206577	152683	89874	93373
Crismon	SIU	2	55131	102377	67894	84702	68342	107765	171484	126099	248763	205057	128856	205631	151737	88928	92427
Scottsdale	SIU	2	54788	102034	67551	84359	67999	107422	171141	125755	248420	204714	128512	205288	151394	88585	92084
Sedimento	SIU	2	52858	100105	65622	82429	66069	105493	169211	123826	246491	202785	126583	203359	149465	86656	90155
Canal System 2	SIU	2	38935	86181	51698	68506	52146	91569	155287	109902	232567	188861	112659	189435	135541	72732	76231
Start (Colonial)			56189	103436	68952	85760	69400	108824	172542	127157	249821	206116	129914	206689	152795	89987	93485
Coyote	Buffer	2	55804	103051	68567	85375	69015	108439	172157	126772	249436	205731	129529	206304	152410	89602	93100
Crismon	Buffer	2	52544	99790	65307	82115	65755	105178	168897	123511	246176	202470	126268	203044	149150	86341	89840
Scottsdale	Buffer	2	51360	98607	64123	80931	64571	103995	167713	122328	244992	201287	125085	201860	147966	85158	88656
Sedimento	Buffer	2	44710	91956	57473	74281	57921	97344	161062	115677	238342	194636	118434	195210	141316	78507	82006
Canal System 2	Buffer	2	21398	68645	34162	50969	34609	74033	137751	92366	215031	171325	95123	171899	118005	55196	58695

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	935 Plant 1	936 Plant 1	937 Plant 1	938 Plant 1	939 Plant 1	940 Plant 1	941 Plant 1	942 Plant 1	943 Plant 1	944 Plant 1	945 Plant 1	946 Plant 1	947 Plant 1	948 Plant 1	949 Plant 1
Start (Colonial)			103100	139164	76412	196949	139038	167364	193072	219187	57645	172500	210650	169295	153229	206438	192667
Coyote	SIU	1	103044	139108	76356	196893	138982	167308	193016	219131	57589	172444	210594	169239	153173	206381	192611
Crismon	SIU	1	102571	138635	75883	196420	138509	166835	192543	218658	57116	171971	210121	168766	152700	205908	192138
Scottsdale	SIU	1	102399	138464	75711	196248	138338	166663	192372	218486	56944	171799	209949	168595	152529	205737	191966
Sedimento	SIU	1	101434	137499	74746	195284	137373	165699	191407	217521	55979	170835	208985	167630	151564	204772	191001
Canal System 2	SIU	1	94473	130537	67784	188322	130411	158737	184445	210559	49017	163873	202023	160668	144602	197810	184039
Start (Colonial)			103100	139164	76412	196949	139038	167364	193072	219187	57645	172500	210650	169295	153229	206438	192667
Coyote	Buffer	1	102907	138972	76219	196757	138846	167171	192880	218994	57452	172308	210457	169103	153037	206245	192474
Crismon	Buffer	1	101277	137342	74589	195126	137216	165541	191250	217364	55822	170677	208827	167473	151407	204615	190844
Scottsdale	Buffer	1	100685	136750	73997	194535	136624	164949	190658	216772	55230	170086	208235	166881	150815	204023	190252
Sedimento	Buffer	1	97360	133425	70672	191209	133299	161624	187333	213447	51905	166760	204910	163555	147489	200698	186927
Canal System 2	Buffer	1	85704	121769	59016	179554	121643	149969	175677	201791	40249	155105	193255	151900	135834	189042	175271
Start (Colonial)			103100	139164	76412	196949	139038	167364	193072	219187	57645	172500	210650	169295	153229	206438	192667
Coyote	SIU	2	102988	139052	76299	196837	138926	167252	192960	219075	57532	172388	210538	169183	153117	206325	192554
Crismon	SIU	2	102042	138106	75353	195891	137980	166306	192014	218129	56586	171442	209592	168237	152171	205379	191608
Scottsdale	SIU	2	101698	137763	75010	195548	137637	165963	191671	217785	56243	171099	209249	167894	151828	205036	191265
Sedimento	SIU	2	99769	135834	73081	193618	135708	164033	189742	215856	54314	169169	207319	165964	149898	203107	189336
Canal System 2	SIU	2	85845	121910	59157	179694	121784	150109	175818	201932	40390	155245	193395	152041	135975	189183	175412
Start (Colonial)			103100	139164	76412	196949	139038	167364	193072	219187	57645	172500	210650	169295	153229	206438	192667
Coyote	Buffer	2	102715	138779	76027	196564	138653	166979	192687	218802	57260	172115	210265	168910	152844	206053	192282
Crismon	Buffer	2	99454	135519	72766	193304	135393	163719	189427	215541	53999	168855	207005	165650	149584	202792	189021
Scottsdale	Buffer	2	98271	134335	71583	192120	134209	162535	188243	214358	52816	167671	205821	164466	148400	201609	187838
Sedimento	Buffer	2	91620	127685	64932	185469	127559	155884	181593	207707	46165	161020	199170	157816	141750	194958	181187
Canal System 2	Buffer	2	68309	104374	41621	162158	104248	132573	158282	184396	22854	137709	175859	134504	118438	171647	157876

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	950 Plant 1	951 Plant 1	952 Plant 1	953 Plant 1	954 Plant 1	955 Plant 1	956 Plant 1	957 Plant 1	958 Plant 1	959 Plant 1	960 Plant 1	961 Plant 1	962 Plant 1	963 Plant 1	964 Plant 1
Start (Colonial)			147953	73487	163529	133133	43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900
Coyote	SIU	1	147897	73431	163473	133077	43426	102008	149996	55797	154209	162844	216752	99825	183514	127521	118844
Crismon	SIU	1	147424	72958	163000	132604	42953	101535	149523	55324	153736	162371	216279	99352	183041	127048	118371
Scottsdale	SIU	1	147252	72786	162829	132432	42781	101363	149352	55153	153564	162199	216107	99180	182869	126876	118199
Sedimento	SIU	1	146288	71821	161864	131467	41816	100399	148387	54188	152599	161234	215142	98216	181905	125911	117235
Canal System 2	SIU	1	139326	64859	154902	124505	34855	93437	141425	47226	145638	154272	208180	91254	174943	118949	110273
Start (Colonial)			147953	73487	163529	133133	43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900
Coyote	Buffer	1	147761	73294	163337	132940	43289	101872	149860	55661	154072	162707	216615	99688	183377	127384	118707
Crismon	Buffer	1	146130	71664	161707	131310	41659	100241	148230	54031	152442	161077	214985	98058	181747	125754	117077
Scottsdale	Buffer	1	145539	71072	161115	130718	41067	99650	147638	53439	151850	160485	214393	97466	181155	125162	116485
Sedimento	Buffer	1	142213	67747	157790	127393	37742	96324	144313	50114	148525	157160	211068	94141	177830	121837	113160
Canal System 2	Buffer	1	130558	56091	146134	115737	26086	84669	132657	38458	136869	145504	199412	82486	166175	110181	101505
Start (Colonial)			147953	73487	163529	133133	43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900
Coyote	SIU	2	147841	73375	163417	133020	43370	101952	149940	55741	154153	162787	216695	99769	183458	127465	118788
Crismon	SIU	2	146895	72429	162471	132074	42424	101006	148994	54795	153207	161841	215749	98823	182512	126519	117842
Scottsdale	SIU	2	146552	72085	162128	131731	42080	100663	148651	54452	152863	161498	215406	98480	182169	126175	117499
Sedimento	SIU	2	144622	70156	160199	129802	40151	98733	146722	52523	150934	159569	213477	96550	180239	124246	115569
Canal System 2	SIU	2	130699	56232	146275	115878	26227	84810	132798	38599	137010	145645	199553	82626	166315	110322	101645
Start (Colonial)			147953	73487	163529	133133	43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900
Coyote	Buffer	2	147568	73102	163144	132748	43097	101679	149667	55468	153880	162515	216423	99496	183185	127192	118515
Crismon	Buffer	2	144308	69841	159884	129487	39836	98419	146407	52208	150619	159254	213162	96236	179925	123931	115255
Scottsdale	Buffer	2	143124	68658	158700	128304	38653	97235	145223	51024	149436	158071	211979	95052	178741	122748	114071
Sedimento	Buffer	2	136474	62007	152050	121653	32002	90585	138573	44374	142785	151420	205328	88401	172090	116097	107420
Canal System 2	Buffer	2	113162	38696	128739	98342	8691	67273	115262	21063	119474	128109	182017	65090	148779	92786	84109

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	965 Plant 1	966 Plant 1	967 Plant 1	968 Plant 1	969 Plant 1	970 Plant 1	971 Plant 1	972 Plant 1	973 Plant 1	974 Plant 1	975 Plant 1	976 Plant 1	977 Plant 1	978 Plant 1	979 Plant 1
Start (Colonial)			205178	130740	92814	76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256
Coyote	SIU	1	205122	130683	92758	76607	132769	127017	110881	88923	229865	100147	54202	137205	171114	100777	74200
Crismon	SIU	1	204649	130210	92285	76134	132296	126544	110408	88450	229392	99674	53729	136732	170641	100304	73727
Scottsdale	SIU	1	204477	130039	92113	75963	132124	126372	110236	88278	229220	99502	53557	136560	170470	100132	73556
Sedimento	SIU	1	203513	129074	91148	74998	131159	125408	109271	87314	228255	98537	52592	135596	169505	99167	72591
Canal System 2	SIU	1	196551	122112	84186	68036	124197	118446	102310	80352	221294	91576	45631	128634	162543	92205	65629
Start (Colonial)			205178	130740	92814	76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256
Coyote	Buffer	1	204985	130547	92621	76471	132632	126880	110744	88787	229728	100010	54065	137069	170978	100640	74064
Crismon	Buffer	1	203355	128917	90991	74841	131002	125250	109114	87156	228098	98380	52435	135438	169348	99010	72434
Scottsdale	Buffer	1	202763	128325	90399	74249	130410	124658	108522	86565	227506	97788	51843	134847	168756	98418	71842
Sedimento	Buffer	1	199438	125000	87074	70924	127085	121333	105197	83239	224181	94463	48518	131521	165431	95093	68517
Canal System 2	Buffer	1	187783	113344	75418	59268	115429	109678	93541	71584	212525	82807	36862	119866	153775	83437	56861
Start (Colonial)			205178	130740	92814	76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256
Coyote	SIU	2	205066	130627	92701	76551	132713	126961	110825	88867	229809	100091	54146	137149	171058	100720	74144
Crismon	SIU	2	204120	129681	91755	75605	131767	126015	109879	87921	228863	99145	53200	136203	170112	99774	73198
Scottsdale	SIU	2	203777	129338	91412	75262	131423	125672	109535	87578	228519	98801	52856	135860	169769	99431	72855
Sedimento	SIU	2	201847	127409	89483	73333	129494	123742	107606	85648	226590	96872	50927	133930	167840	97502	70926
Canal System 2	SIU	2	187923	113485	75559	59409	115570	109818	93682	71724	212666	82948	37003	120007	153916	83578	57002
Start (Colonial)			205178	130740	92814	76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256
Coyote	Buffer	2	204793	130355	92429	76279	132440	126688	110552	88594	229536	99818	53873	136876	170786	100448	73871
Crismon	Buffer	2	201533	127094	89168	73018	129179	123428	107291	85334	226275	96557	50612	133616	167525	97187	70611
Scottsdale	Buffer	2	200349	125911	87985	71835	127996	122244	106108	84150	225092	95374	49429	132432	166342	96004	69427
Sedimento	Buffer	2	193698	119260	81334	65184	121345	115593	99457	77499	218441	88723	42778	125782	159691	89353	62777
Canal System 2	Buffer	2	170387	95949	58023	41873	98034	92282	76146	54188	195130	65412	19467	102470	136380	66042	39466

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	980 Plant 1	981 Plant 1	982 Plant 1	983 Plant 1	984 Plant 1	985 Plant 1	986 Plant 1	987 Plant 1	988 Plant 1	989 Plant 1	990 Plant 1	991 Plant 1	992 Plant 1	993 Plant 1	994 Plant 1
Start (Colonial)			53712	62991	150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648
Coyote	SIU	1	53656	62935	150920	136533	64488	111818	161164	158603	213463	203918	76985	69050	166300	63047	140592
Crismon	SIU	1	53183	62462	150447	136060	64015	111345	160691	158130	212990	203445	76512	68577	165827	62574	140119
Scottsdale	SIU	1	53011	62290	150275	135889	63843	111174	160520	157959	212818	203274	76341	68406	165656	62402	139947
Sedimento	SIU	1	52047	61325	149311	134924	62879	110209	159555	156994	211853	202309	75376	67441	164691	61437	138982
Canal System 2	SIU	1	45085	54363	142349	127962	55917	103247	152593	150032	204892	195347	68414	60479	157729	54475	132021
Start (Colonial)			53712	62991	150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648
Coyote	Buffer	1	53520	62798	150784	136397	64352	111682	161028	158467	213326	203782	76849	68914	166164	62910	140455
Crismon	Buffer	1	51889	61168	149153	134767	62721	110052	159398	156837	211696	202152	75219	67284	164534	61280	138825
Scottsdale	Buffer	1	51298	60576	148562	134175	62130	109460	158806	156245	211104	201560	74627	66692	163942	60688	138233
Sedimento	Buffer	1	47972	57251	145236	130850	58804	106135	155480	152919	207779	198235	71302	63367	160617	57363	134908
Canal System 2	Buffer	1	36317	45595	133581	119194	47149	94479	143825	141264	196123	186579	59646	51711	148961	45707	123252
Start (Colonial)			53712	62991	150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648
Coyote	SIU	2	53600	62878	150864	136477	64432	111762	161108	158547	213407	203862	76929	68994	166244	62990	140536
Crismon	SIU	2	52654	61932	149918	135531	63486	110816	160162	157601	212461	202916	75983	68048	165298	62044	139590
Scottsdale	SIU	2	52311	61589	149575	135188	63143	110473	159819	157258	212117	202573	75640	67705	164955	61701	139246
Sedimento	SIU	2	50381	59660	147645	133259	61213	108544	157889	155328	210188	200644	73711	65776	163026	59772	137317
Canal System 2	SIU	2	36457	45736	133721	119335	47289	94620	143966	141405	196264	186720	59787	51852	149102	45848	123393
Start (Colonial)			53712	62991	150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648
Coyote	Buffer	2	53327	62606	150591	136204	64159	111490	160835	158274	213134	203589	76656	68721	165971	62718	140263
Crismon	Buffer	2	50067	59345	147331	132944	60899	108229	157575	155014	209873	200329	73396	65461	162711	59457	137002
Scottsdale	Buffer	2	48883	58162	146147	131760	59715	107046	156391	153830	208690	199145	72212	64277	161527	58274	135819
Sedimento	Buffer	2	42232	51511	139496	125110	53064	100395	149741	147180	202039	192495	65562	57627	154877	51623	129168
Canal System 2	Buffer	2	18921	28200	116185	101799	29753	77084	126429	123868	178728	169184	42251	34316	131566	28312	105857

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	995 Plant 1	996 Plant 1	997 Plant 1	998 Plant 1	999 Plant 1	Total Deficits	800 Silk 1	801 Silk 1	802 Silk 1	803 Silk 1	804 Silk 1	805 Silk 1	806 Silk 1	807 Silk 1
Start (Colonial)			123630	124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	SIU	1	123574	124694	107564	125156	102946	0	147680	228550	147820	305061	237704	307248	160268	131910
Crismon	SIU	1	123101	124221	107091	124683	102473	0	147207	228077	147347	304588	237231	306775	159795	131437
Scottsdale	SIU	1	122929	124049	106919	124511	102301	0	147036	227906	147176	304416	237060	306603	159624	131265
Sedimento	SIU	1	121965	123084	105955	123546	101336	0	146071	226941	146211	303452	236095	305638	158659	130301
Canal System 2	SIU	1	115003	116122	98993	116584	94375	0	139109	219979	139249	296490	229133	298677	151697	123339
Start (Colonial)			123630	124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	Buffer	1	123438	124557	107428	125019	102809	0	147544	228414	147684	304925	237568	307111	160132	131773
Crismon	Buffer	1	121807	122927	105797	123389	101179	0	145914	226784	146054	303294	235938	305481	158502	130143
Scottsdale	Buffer	1	121216	122335	105206	122797	100587	0	145322	226192	145462	302703	235346	304889	157910	129551
Sedimento	Buffer	1	117890	119010	101880	119472	97262	0	141996	222867	142137	299377	232020	301564	154585	126226
Canal System 2	Buffer	1	106235	107354	90225	107816	85606	0	130341	211211	130481	287722	220365	289908	142929	114571
Start (Colonial)			123630	124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	SIU	2	123518	124638	107508	125099	102890	0	147624	228494	147764	305005	237648	307192	160212	131854
Crismon	SIU	2	122572	123692	106562	124153	101944	0	146678	227548	146818	304059	236702	306246	159266	130908
Scottsdale	SIU	2	122229	123348	106219	123810	101600	0	146335	227205	146475	303716	236359	305902	158923	130565
Sedimento	SIU	2	120299	121419	104289	121881	99671	0	144405	225276	144546	301786	234429	303973	156994	128635
Canal System 2	SIU	2	106376	107495	90366	107957	85747	0	130482	211352	130622	287862	220506	290049	143070	114711
Start (Colonial)			123630	124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	Buffer	2	123245	124365	107235	124827	102617	0	147351	228221	147491	304732	237375	306919	159940	131581
Crismon	Buffer	2	119985	121104	103975	121566	99356	0	144091	224961	144231	301472	234115	303658	156679	128321
Scottsdale	Buffer	2	118801	119921	102791	120383	98173	0	142907	223777	143047	300288	232931	302475	155496	127137
Sedimento	Buffer	2	112151	113270	96141	113732	91522	0	136257	217127	136397	293637	226281	295824	148845	120486
Canal System 2	Buffer	2	88839	89959	72829	90421	68211	1	112945	193816	113086	270326	202969	272513	125534	97175

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	808 Silk 1	809 Silk 1	810 Silk 1	811 Silk 1	812 Silk 1	813 Silk 1	814 Silk 1	815 Silk 1	816 Silk 1	817 Silk 1	818 Silk 1	819 Silk 1	820 Silk 1	821 Silk 1	822 Silk 1
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735	257105
Coyote	SIU	1	57586	50703	214014	148605	175029	164754	150330	112733	99766	92912	72599	137980	195594	180679	257049
Crismon	SIU	1	57113	50230	213541	148132	174556	164281	149857	112260	99293	92439	72126	137507	195121	180206	256576
Scottsdale	SIU	1	56942	50059	213369	147961	174385	164110	149685	112089	99122	92267	71955	137335	194949	180034	256404
Sedimento	SIU	1	55977	49094	212404	146996	173420	163145	148720	111124	98157	91302	70990	136370	193985	179069	255440
Canal System 2	SIU	1	49015	42132	205442	140034	166458	156183	141758	104162	91195	84340	64028	129408	187023	172107	248478
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735	257105
Coyote	Buffer	1	57450	50567	213877	148469	174893	164618	150193	112597	99630	92775	72463	137843	195458	180542	256913
Crismon	Buffer	1	55820	48937	212247	146839	173263	162988	148563	110967	98000	91145	70833	136213	193827	178912	255282
Scottsdale	Buffer	1	55228	48345	211655	146247	172671	162396	147971	110375	97408	90553	70241	135621	193236	178320	254691
Sedimento	Buffer	1	51902	45020	208330	142922	169346	159070	144646	107049	94083	87228	66916	132296	189910	174995	251365
Canal System 2	Buffer	1	40247	33364	196674	131266	157690	147415	132990	95394	82427	75572	55260	120640	178255	163339	239710
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735	257105
Coyote	SIU	2	57530	50647	213958	148549	174973	164698	150274	112677	99710	92856	72543	137924	195538	180623	256993
Crismon	SIU	2	56584	49701	213012	147603	174027	163752	149328	111731	98764	91910	71597	136978	194592	179677	256047
Scottsdale	SIU	2	56241	49358	212668	147260	173684	163409	148984	111388	98421	91566	71254	136634	194249	179333	255704
Sedimento	SIU	2	54311	47429	210739	145331	171755	161479	147055	109458	96492	89637	69325	134705	192319	177404	253774
Canal System 2	SIU	2	40388	33505	196815	131407	157831	147556	133131	95535	82568	75713	55401	120781	178395	163480	239851
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735	257105
Coyote	Buffer	2	57257	50374	213685	148276	174701	164425	150001	112404	99438	92583	72271	137651	195265	180350	256720
Crismon	Buffer	2	53997	47114	210424	145016	171440	161165	146740	109144	96177	89322	69010	134390	192005	177089	253460
Scottsdale	Buffer	2	52813	45930	209241	143832	170257	159981	145557	107960	94994	88139	67827	133207	190821	175906	252276
Sedimento	Buffer	2	46163	39280	202590	137182	163606	153331	138906	101310	88343	81488	61176	126556	184170	169255	245626
Canal System 2	Buffer	2	22851	15969	179279	113871	140295	130019	115595	77998	65032	58177	37865	103245	160859	145944	222314

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	823 Silk 1	824 Silk 1	825 Silk 1	826 Silk 1	827 Silk 1	828 Silk 1	829 Silk 1	830 Silk 1	831 Silk 1	832 Silk 1	833 Silk 1	834 Silk 1	835 Silk 1	836 Silk 1	837 Silk 1
Start (Colonial)			72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423	176347	101603
Coyote	SIU	1	72908	115186	55511	182095	145886	93262	111247	58147	179319	111934	171118	208280	160367	176291	101547
Crismon	SIU	1	72435	114713	55038	181622	145413	92789	110774	57674	178846	111461	170645	207807	159894	175818	101074
Scottsdale	SIU	1	72263	114542	54867	181450	145241	92617	110603	57502	178674	111290	170474	207636	159722	175646	100902
Sedimento	SIU	1	71299	113577	53902	180485	144277	91653	109638	56538	177710	110325	169509	206671	158757	174682	99937
Canal System 2	SIU	1	64337	106615	46940	173523	137315	84691	102676	49576	170748	103363	162547	199709	151795	167720	92976
Start (Colonial)			72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423	176347	101603
Coyote	Buffer	1	72771	115050	55375	181958	145749	93126	111111	58010	179183	111798	170982	208144	160230	176155	101410
Crismon	Buffer	1	71141	113420	53745	180328	144119	91495	109481	56380	177552	110168	169352	206514	158600	174524	99780
Scottsdale	Buffer	1	70549	112828	53153	179736	143527	90904	108889	55788	176961	109576	168760	205922	158008	173933	99188
Sedimento	Buffer	1	67224	109503	49828	176411	140202	87578	105564	52463	173635	106250	165435	202597	154683	170607	95863
Canal System 2	Buffer	1	55569	97847	38172	164755	128547	75923	93908	40808	161980	94595	153779	190941	143027	158952	84207
Start (Colonial)			72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423	176347	101603
Coyote	SIU	2	72852	115130	55455	182038	145830	93206	111191	58091	179263	111878	171062	208224	160310	176235	101491
Crismon	SIU	2	71906	114184	54509	181092	144884	92260	110245	57145	178317	110932	170116	207278	159364	175289	100545
Scottsdale	SIU	2	71563	113841	54166	180749	144541	91917	109902	56802	177974	110589	169773	206935	159021	174946	100201
Sedimento	SIU	2	69633	111912	52237	178820	142611	89987	107973	54872	176044	108659	167844	205006	157092	173016	98272
Canal System 2	SIU	2	55709	97988	38313	164896	128687	76064	94049	40948	162120	94736	153920	191082	143168	159093	84348
Start (Colonial)			72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423	176347	101603
Coyote	Buffer	2	72579	114857	55183	181766	145557	92933	110918	57818	178990	111605	170789	207951	160038	175962	101218
Crismon	Buffer	2	69319	111597	51922	178505	142297	89673	107658	54558	175730	108345	167529	204691	156777	172702	97957
Scottsdale	Buffer	2	68135	110413	50739	177322	141113	88489	106474	53374	174546	107161	166345	203507	155594	171518	96774
Sedimento	Buffer	2	61484	103763	44088	170671	134462	81839	99824	46723	167895	100511	159695	196857	148943	164868	90123
Canal System 2	Buffer	2	38173	80452	20777	147360	111151	58527	76513	23412	144584	77199	136384	173546	125632	141556	66812

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	838 Silk 1	839 Silk 1	840 Silk 1	841 Silk 1	842 Silk 1	843 Silk 1	844 Silk 1	845 Silk 1	846 Silk 1	847 Silk 1	848 Silk 1	849 Silk 1	850 Silk 1	851 Silk 1	852 Silk 1
Start (Colonial)			17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777	154928	110098	186721
Coyote	SIU	1	17368	83155	51502	118733	129246	164866	127480	162427	107056	58357	154899	82721	154871	110042	186664
Crismon	SIU	1	16895	82682	51029	118260	128773	164393	127007	161954	106583	57884	154426	82248	154398	109569	186191
Scottsdale	SIU	1	16724	82510	50858	118088	128602	164222	126836	161783	106411	57713	154255	82076	154227	109397	186020
Sedimento	SIU	1	15759	81546	49893	117124	127637	163257	125871	160818	105447	56748	153290	81111	153262	108432	185055
Canal System 2	SIU	1	8797	74584	42931	110162	120675	156295	118909	153856	98485	49786	146328	74149	146300	101471	178093
Start (Colonial)			17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777	154928	110098	186721
Coyote	Buffer	1	17232	83019	51366	118597	129110	164730	127344	162291	106919	58221	154763	82584	154735	109905	186528
Crismon	Buffer	1	15602	81388	49736	116966	127480	163100	125714	160661	105289	56591	153133	80954	153105	108275	184898
Scottsdale	Buffer	1	15010	80797	49144	116375	126888	162508	125122	160069	104697	55999	152541	80362	152513	107683	184306
Sedimento	Buffer	1	11685	77471	45819	113049	123563	159183	121796	156743	101372	52673	149216	77037	149188	104358	180981
Canal System 2	Buffer	1	29	65816	34163	101394	111907	147527	110141	145088	89717	41018	137560	65381	137532	92702	169325
Start (Colonial)			17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777	154928	110098	186721
Coyote	SIU	2	17312	83099	51446	118677	129190	164810	127424	162371	107000	58301	154843	82664	154815	109986	186608
Crismon	SIU	2	16366	82153	50500	117731	128244	163864	126478	161425	106054	57355	153897	81718	153869	109040	185662
Scottsdale	SIU	2	16023	81810	50157	117388	127901	163521	126135	161082	105711	57012	153554	81375	153526	108696	185319
Sedimento	SIU	2	14094	79880	48228	115458	125972	161592	124205	159152	103781	55082	151625	79446	151597	106767	183390
Canal System 2	SIU	2	170	65957	34304	101534	112048	147668	110282	145229	89857	41159	137701	65522	137673	92843	169466
Start (Colonial)			17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777	154928	110098	186721
Coyote	Buffer	2	17039	82826	51173	118404	128918	164537	127151	162098	106727	58028	154571	82392	154543	109713	186336
Crismon	Buffer	2	13779	79566	47913	115144	125657	161277	123891	158838	103467	54768	151310	79131	151282	106452	183075
Scottsdale	Buffer	2	12595	78382	46729	113960	124474	160093	122707	157654	102283	53584	150127	77948	150099	105269	181892
Sedimento	Buffer	2	5945	71732	40079	107309	117823	153443	116057	151004	95632	46934	143476	71297	143448	98618	175241
Canal System 2	Buffer	2	-17366	48420	16768	83998	94512	130132	92745	127692	72321	23622	120165	47986	120137	75307	151930

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	853 Silk 1	854 Silk 1	855 Silk 1	856 Silk 1	857 Silk 1	858 Silk 1	859 Silk 1	860 Silk 1	861 Silk 1	862 Silk 1	863 Silk 1	864 Silk 1	865 Silk 1	866 Silk 1	867 Silk 1
Start (Colonial)			110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942	116756	81249	118817	81052
Coyote	SIU	1	110350	206822	103131	206920	126681	177034	146587	104645	164446	156624	145886	116700	81193	118761	80996
Crismon	SIU	1	109877	206349	102658	206447	126208	176561	146114	104172	163973	156151	145413	116227	80720	118288	80523
Scottsdale	SIU	1	109706	206178	102486	206276	126037	176389	145942	104000	163801	155979	145241	116056	80548	118116	80352
Sedimento	SIU	1	108741	205213	101522	205311	125072	175425	144977	103035	162836	155014	144277	115091	79583	117152	79387
Canal System 2	SIU	1	101779	198251	94560	198349	118110	168463	138016	96074	155875	148053	137315	108129	72621	110190	72425
Start (Colonial)			110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942	116756	81249	118817	81052
Coyote	Buffer	1	110214	206686	102994	206784	126545	176898	146450	104508	164309	156487	145749	116564	81056	118625	80860
Crismon	Buffer	1	108584	205056	101364	205154	124915	175267	144820	102878	162679	154857	144119	114934	79426	116994	79230
Scottsdale	Buffer	1	107992	204464	100772	204562	124323	174676	144228	102286	162087	154265	143527	114342	78834	116403	78638
Sedimento	Buffer	1	104666	201139	97447	201237	120997	171350	140903	98961	158762	150940	140202	111017	75509	113077	75313
Canal System 2	Buffer	1	93011	189483	85792	189581	109342	159695	129247	87305	147106	139284	128547	99361	63853	101422	63657
Start (Colonial)			110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942	116756	81249	118817	81052
Coyote	SIU	2	110294	206766	103075	206864	126625	176978	146531	104589	164390	156568	145830	116644	81136	118705	80940
Crismon	SIU	2	109348	205820	102129	205918	125679	176032	145585	103643	163444	155622	144884	115698	80190	117759	79994
Scottsdale	SIU	2	109005	205477	101786	205575	125336	175689	145241	103299	163100	155278	144541	115355	79847	117416	79651
Sedimento	SIU	2	107075	203548	99856	203646	123406	173759	143312	101370	161171	153349	142611	113426	77918	115486	77722
Canal System 2	SIU	2	93152	189624	85932	189722	109483	159836	129388	87446	147247	139425	128687	99502	63994	101562	63798
Start (Colonial)			110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942	116756	81249	118817	81052
Coyote	Buffer	2	110021	206493	102802	206592	126352	176705	146258	104316	164117	156295	145557	116371	80864	118432	80667
Crismon	Buffer	2	106761	203233	99542	203331	123092	173445	142997	101055	160856	153034	142297	113111	77603	115172	77407
Scottsdale	Buffer	2	105577	202049	98358	202148	121908	172261	141814	99872	159673	151851	141113	111927	76420	113988	76223
Sedimento	Buffer	2	98927	195399	91707	195497	115258	165611	135163	93221	153022	145200	134462	105277	69769	107337	69573
Canal System 2	Buffer	2	75615	172088	68396	172186	91946	142299	111852	69910	129711	121889	111151	81966	46458	84026	46262

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	868 Silk 1	869 Silk 1	870 Silk 1	871 Silk 1	872 Silk 1	873 Silk 1	874 Silk 1	875 Silk 1	876 Silk 1	877 Silk 1	878 Silk 1	879 Silk 1	880 Silk 1	881 Silk 1	882 Silk 1
Start (Colonial)			128405	206556	102192	126933	102963	204285	127242	164740	205883	131265	100622	103075	179193	167628	112537
Coyote	SIU	1	128349	206500	102136	126877	102907	204229	127186	164684	205827	131209	100566	103019	179137	167572	112481
Crismon	SIU	1	127876	206027	101663	126404	102434	203756	126713	164211	205354	130736	100093	102546	178664	167099	112008
Scottsdale	SIU	1	127705	205855	101491	126233	102262	203584	126541	164039	205182	130564	99921	102374	178492	166927	111836
Sedimento	SIU	1	126740	204891	100526	125268	101297	202620	125576	163075	204218	129600	98956	101409	177527	165963	110872
Canal System 2	SIU	1	119778	197929	93564	118306	94335	195658	118615	156113	197256	122638	91994	94447	170566	159001	103910
Start (Colonial)			128405	206556	102192	126933	102963	204285	127242	164740	205883	131265	100622	103075	179193	167628	112537
Coyote	Buffer	1	128213	206364	101999	126741	102770	204093	127049	164548	205691	131073	100429	102882	179000	167435	112344
Crismon	Buffer	1	126583	204733	100369	125111	101140	202462	125419	162917	204060	129442	98799	101252	177370	165805	110714
Scottsdale	Buffer	1	125991	204142	99777	124519	100548	201871	124827	162326	203469	128851	98207	100660	176778	165213	110122
Sedimento	Buffer	1	122666	200816	96452	121194	97223	198545	121502	159000	200143	125525	94882	97335	173453	161888	106797
Canal System 2	Buffer	1	111010	189161	84796	109538	85567	186890	109846	147345	188488	113870	83226	85679	161797	150233	95142
Start (Colonial)			128405	206556	102192	126933	102963	204285	127242	164740	205883	131265	100622	103075	179193	167628	112537
Coyote	SIU	2	128293	206444	102079	126821	102850	204173	127130	164628	205771	131153	100509	102963	179081	167516	112425
Crismon	SIU	2	127347	205498	101133	125875	101904	203227	126184	163682	204825	130207	99563	102017	178135	166570	111479
Scottsdale	SIU	2	127004	205155	100790	125532	101561	202884	125840	163339	204482	129864	99220	101673	177791	166227	111136
Sedimento	SIU	2	125075	203225	98861	123603	99632	200954	123911	161409	202552	127934	97291	99744	175862	164297	109206
Canal System 2	SIU	2	111151	189301	84937	109679	85708	187031	109987	147486	188629	114010	83367	85820	161938	150373	95282
Start (Colonial)			128405	206556	102192	126933	102963	204285	127242	164740	205883	131265	100622	103075	179193	167628	112537
Coyote	Buffer	2	128020	206171	101807	126548	102578	203900	126857	164355	205498	130880	100237	102690	178808	167243	112152
Crismon	Buffer	2	124760	202911	98546	123288	99317	200640	123596	161095	202238	127620	96976	99429	175547	163983	108892
Scottsdale	Buffer	2	123576	201727	97363	122104	98134	199456	122413	159911	201054	126436	95793	98246	174364	162799	107708
Sedimento	Buffer	2	116926	195076	90712	115454	91483	192806	115762	153261	194404	119785	89142	91595	167713	156148	101057
Canal System 2	Buffer	2	93615	171765	67401	92143	68172	169494	92451	129949	171092	96474	65831	68284	144402	132837	77746

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	883 Silk 1	884 Silk 1	885 Silk 1	886 Silk 1	887 Silk 1	888 Silk 1	889 Silk 1	890 Silk 1	891 Silk 1	892 Silk 1	893 Silk 1	894 Silk 1	895 Silk 1	896 Silk 1	897 Silk 1
Start (Colonial)			73665	62717	135008	103650	145774	265152	74394	191024	182081	78950	163282	92239	89659	115425	202645
Coyote	SIU	1	73609	62661	134952	103593	145718	265095	74338	190968	182024	78894	163226	92183	89603	115369	202589
Crismon	SIU	1	73136	62188	134479	103120	145245	264622	73865	190495	181551	78421	162753	91710	89130	114896	202116
Scottsdale	SIU	1	72964	62016	134307	102949	145073	264451	73693	190323	181380	78249	162582	91538	88959	114724	201944
Sedimento	SIU	1	71999	61051	133342	101984	144108	263486	72728	189359	180415	77284	161617	90573	87994	113759	200980
Canal System 2	SIU	1	65038	54089	126381	95022	137146	256524	65767	182397	173453	70322	154655	83612	81032	106797	194018
Start (Colonial)			73665	62717	135008	103650	145774	265152	74394	191024	182081	78950	163282	92239	89659	115425	202645
Coyote	Buffer	1	73472	62524	134815	103457	145581	264959	74201	190832	181888	78757	163090	92046	89467	115232	202453
Crismon	Buffer	1	71842	60894	133185	101827	143951	263329	72571	189201	180258	77127	161460	90416	87837	113602	200822
Scottsdale	Buffer	1	71250	60302	132593	101235	143359	262737	71979	188610	179666	76535	160868	89824	87245	113010	200231
Sedimento	Buffer	1	67925	56977	129268	97910	140034	259412	68654	185284	176341	73210	157543	86499	83920	109685	196905
Canal System 2	Buffer	1	56269	45321	117612	86254	128378	247756	56998	173629	164685	61554	145887	74843	72264	98029	185250
Start (Colonial)			73665	62717	135008	103650	145774	265152	74394	191024	182081	78950	163282	92239	89659	115425	202645
Coyote	SIU	2	73553	62605	134896	103537	145662	265039	74282	190912	181968	78837	163170	92127	89547	115312	202533
Crismon	SIU	2	72607	61659	133950	102591	144716	264093	73336	189966	181022	77891	162224	91181	88601	114366	201587
Scottsdale	SIU	2	72263	61315	133606	102248	144372	263750	72992	189623	180679	77548	161881	90837	88258	114023	201244
Sedimento	SIU	2	70334	59386	131677	100319	142443	261821	71063	187693	178750	75619	159952	88908	86329	112094	199314
Canal System 2	SIU	2	56410	45462	117753	86395	128519	247897	57139	173769	164826	61695	146028	74984	72405	98170	185390
Start (Colonial)			73665	62717	135008	103650	145774	265152	74394	191024	182081	78950	163282	92239	89659	115425	202645
Coyote	Buffer	2	73280	62332	134623	103265	145389	264767	74009	190639	181696	78565	162897	91854	89274	115040	202260
Crismon	Buffer	2	70019	59071	131362	100004	142128	261506	70748	187379	178435	75304	159637	88593	86014	111779	199000
Scottsdale	Buffer	2	68836	57888	130179	98821	140945	260323	69565	186195	177252	74121	158453	87410	84830	110596	197816
Sedimento	Buffer	2	62185	51237	123528	92170	134294	253672	62914	179544	170601	67470	151803	80759	78180	103945	191165
Canal System 2	Buffer	2	38874	27926	100217	68859	110983	230361	39603	156233	147290	44159	128492	57448	54869	80634	167854

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	898 Silk 1	899 Silk 1	900 Silk 1	901 Silk 1	902 Silk 1	903 Silk 1	904 Silk 1	905 Silk 1	906 Silk 1	907 Silk 1	908 Silk 1	909 Silk 1	910 Silk 1	911 Silk 1	912 Silk 1
Start (Colonial)			204131	364441	61007	110546	84066	69305	71114	125504	83660	74450	133662	133003	90444	162553	161488
Coyote	SIU	1	204075	364385	60950	110490	84010	69249	71057	125448	83604	74394	133606	132947	90388	162497	161432
Crismon	SIU	1	203602	363912	60477	110017	83537	68776	70584	124975	83131	73921	133133	132474	89915	162024	160959
Scottsdale	SIU	1	203430	363741	60306	109846	83366	68605	70413	124803	82959	73749	132961	132303	89744	161853	160787
Sedimento	SIU	1	202466	362776	59341	108881	82401	67640	69448	123838	81994	72784	131997	131338	88779	160888	159823
Canal System 2	SIU	1	195504	355814	52379	101919	75439	60678	62486	116876	75032	65823	125035	124376	81817	153926	152861
Start (Colonial)			204131	364441	61007	110546	84066	69305	71114	125504	83660	74450	133662	133003	90444	162553	161488
Coyote	Buffer	1	203938	364249	60814	110354	83874	69113	70921	125311	83467	74257	133470	132811	90252	162361	161296
Crismon	Buffer	1	202308	362619	59184	108724	82244	67483	69291	123681	81837	72627	131839	131181	88622	160731	159665
Scottsdale	Buffer	1	201716	362027	58592	108132	81652	66891	68699	123089	81245	72035	131248	130589	88030	160139	159074
Sedimento	Buffer	1	198391	358702	55267	104807	78326	63565	65374	119764	77920	68710	127922	127264	84705	156814	155748
Canal System 2	Buffer	1	186736	347046	43611	93151	66671	51910	53718	108108	66264	57054	116267	115608	73049	145158	144093
Start (Colonial)			204131	364441	61007	110546	84066	69305	71114	125504	83660	74450	133662	133003	90444	162553	161488
Coyote	SIU	2	204019	364329	60894	110434	83954	69193	71001	125391	83548	74338	133550	132891	90332	162441	161376
Crismon	SIU	2	203073	363383	59948	109488	83008	68247	70055	124445	82602	73392	132604	131945	89386	161495	160430
Scottsdale	SIU	2	202730	363040	59605	109145	82665	67904	69712	124102	82258	73048	132261	131602	89043	161152	160087
Sedimento	SIU	2	200800	361111	57676	107216	80735	65974	67783	122173	80329	71119	130331	129673	87114	159223	158157
Canal System 2	SIU	2	186876	347187	43752	93292	66812	52051	53859	108249	66405	57195	116408	115749	73190	145299	144233
Start (Colonial)			204131	364441	61007	110546	84066	69305	71114	125504	83660	74450	133662	133003	90444	162553	161488
Coyote	Buffer	2	203746	364056	60622	110161	83681	68920	70729	125119	83275	74065	133277	132618	90059	162168	161103
Crismon	Buffer	2	200486	360796	57361	106901	80421	65660	67468	121858	80014	70804	130017	129358	86799	158908	157843
Scottsdale	Buffer	2	199302	359612	56178	105717	79237	64476	66285	120675	78831	69621	128833	128174	85615	157724	156659
Sedimento	Buffer	2	192651	352962	49527	99067	72587	57826	59634	114024	72180	62970	122183	121524	78965	151074	150008
Canal System 2	Buffer	2	169340	329651	26216	75756	49275	34514	36323	90713	48869	39659	98871	98213	55654	127763	126697

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	913 Silk 1	914 Silk 1	915 Silk 1	916 Silk 1	917 Silk 1	918 Silk 1	919 Silk 1	920 Silk 1	921 Silk 1	922 Silk 1	923 Silk 1	924 Silk 1	925 Silk 1	926 Silk 1	927 Silk 1
Start (Colonial)			123653	128924	181954	88258	201790	114976	113336	56282	103607	69067	85903	69516	109004	172829	127368
Coyote	SIU	1	123597	128868	181898	88202	201734	114920	113280	56226	103551	69011	85847	69459	108948	172773	127312
Crismon	SIU	1	123124	128395	181425	87729	201261	114447	112807	55753	103078	68538	85374	68986	108475	172300	126839
Scottsdale	SIU	1	122953	128223	181254	87557	201089	114275	112635	55582	102907	68366	85202	68815	108304	172128	126667
Sedimento	SIU	1	121988	127259	180289	86592	200125	113311	111671	54617	101942	67402	84237	67850	107339	171163	125703
Canal System 2	SIU	1	115026	120297	173327	79630	193163	106349	104709	47655	94980	60440	77275	60888	100377	164201	118741
Start (Colonial)			123653	128924	181954	88258	201790	114976	113336	56282	103607	69067	85903	69516	109004	172829	127368
Coyote	Buffer	1	123461	128732	181762	88065	201597	114784	113143	56090	103415	68874	85710	69323	108812	172636	127176
Crismon	Buffer	1	121831	127101	180132	86435	199967	113153	111513	54460	101785	67244	84080	67693	107182	171006	125545
Scottsdale	Buffer	1	121239	126510	179540	85843	199375	112562	110921	53868	101193	66652	83488	67101	106590	170414	124954
Sedimento	Buffer	1	117913	123184	176215	82518	196050	109236	107596	50543	97868	63327	80163	63776	103265	167089	121628
Canal System 2	Buffer	1	106258	111529	164559	70862	184395	97581	95941	38887	86212	51672	68507	52120	91609	155433	109973
Start (Colonial)			123653	128924	181954	88258	201790	114976	113336	56282	103607	69067	85903	69516	109004	172829	127368
Coyote	SIU	2	123541	128812	181842	88145	201678	114864	113224	56170	103495	68955	85790	69403	108892	172716	127256
Crismon	SIU	2	122595	127866	180896	87199	200732	113918	112278	55224	102549	68009	84844	68457	107946	171770	126310
Scottsdale	SIU	2	122252	127523	180553	86856	200389	113575	111935	54881	102206	67666	84501	68114	107603	171427	125967
Sedimento	SIU	2	120322	125593	178624	84927	198459	111645	110005	52952	100277	65736	82572	66185	105674	169498	124037
Canal System 2	SIU	2	106399	111669	164700	71003	184535	97721	96081	39028	86353	51812	68648	52261	91750	155574	110113
Start (Colonial)			123653	128924	181954	88258	201790	114976	113336	56282	103607	69067	85903	69516	109004	172829	127368
Coyote	Buffer	2	123268	128539	181569	87873	201405	114591	112951	55897	103222	68682	85518	69131	108619	172444	126983
Crismon	Buffer	2	120008	125279	178309	84612	198145	111331	109691	52637	99962	65422	82257	65870	105359	169183	123723
Scottsdale	Buffer	2	118824	124095	177125	83429	196961	110147	108507	51453	98778	64238	81074	64687	104175	168000	122539
Sedimento	Buffer	2	112174	117444	170475	76778	190310	103496	101856	44803	92128	57587	74423	58036	97525	161349	115888
Canal System 2	Buffer	2	88862	94133	147164	53467	166999	80185	78545	21492	68817	34276	51112	34725	74214	138038	92577

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	928 Silk 1	929 Silk 1	930 Silk 1	931 Silk 1	932 Silk 1	933 Silk 1	934 Silk 1	935 Silk 1	936 Silk 1	937 Silk 1	938 Silk 1	939 Silk 1	940 Silk 1	941 Silk 1	942 Silk 1
Start (Colonial)			250236	206458	130130	207033	153049	90136	93641	103271	139396	76539	197276	139269	167642	193393	219551
Coyote	SIU	1	250180	206402	130074	206977	152993	90080	93585	103215	139339	76482	197220	139213	167586	193337	219495
Crismon	SIU	1	249707	205929	129601	206504	152520	89607	93112	102742	138866	76009	196747	138740	167113	192864	219022
Scottsdale	SIU	1	249536	205757	129429	206332	152348	89435	92940	102570	138695	75838	196575	138569	166941	192692	218850
Sedimento	SIU	1	248571	204793	128464	205367	151384	88471	91975	101606	137730	74873	195611	137604	165977	191728	217885
Canal System 2	SIU	1	241609	197831	121502	198405	144422	81509	85013	94644	130768	67911	188649	130642	159015	184766	210923
Start (Colonial)			250236	206458	130130	207033	153049	90136	93641	103271	139396	76539	197276	139269	167642	193393	219551
Coyote	Buffer	1	250044	206265	129937	206840	152857	89944	93448	103079	139203	76346	197084	139077	167449	193201	219358
Crismon	Buffer	1	248414	204635	128307	205210	151226	88313	91818	101448	137573	74716	195453	137447	165819	191570	217728
Scottsdale	Buffer	1	247822	204043	127715	204618	150635	87722	91226	100857	136981	74124	194862	136855	165227	190979	217136
Sedimento	Buffer	1	244497	200718	124390	201293	147309	84396	87901	97531	133656	70799	191536	133530	161902	187653	213811
Canal System 2	Buffer	1	232841	189063	112734	189637	135654	72741	76245	85876	122000	59143	179881	121874	150247	175998	202155
Start (Colonial)			250236	206458	130130	207033	153049	90136	93641	103271	139396	76539	197276	139269	167642	193393	219551
Coyote	SIU	2	250124	206346	130017	206920	152937	90024	93528	103159	139283	76426	197164	139157	167530	193281	219439
Crismon	SIU	2	249178	205400	129071	205974	151991	89078	92582	102213	138337	75480	196218	138211	166584	192335	218493
Scottsdale	SIU	2	248835	205057	128728	205631	151648	88735	92239	101870	137994	75137	195875	137868	166241	191992	218149
Sedimento	SIU	2	246906	203127	126799	203702	149718	86805	90310	99940	136065	73208	193945	135939	164311	190062	216220
Canal System 2	SIU	2	232982	189203	112875	189778	135795	72882	76386	86016	122141	59284	180022	122015	150387	176139	202296
Start (Colonial)			250236	206458	130130	207033	153049	90136	93641	103271	139396	76539	197276	139269	167642	193393	219551
Coyote	Buffer	2	249851	206073	129745	206648	152664	89751	93256	102886	139011	76154	196891	138884	167257	193008	219166
Crismon	Buffer	2	246591	202813	126484	203387	149404	86491	89995	99626	135750	72893	193631	135624	163997	189748	215905
Scottsdale	Buffer	2	245407	201629	125301	202204	148220	85307	88812	98442	134567	71710	192447	134440	162813	188564	214722
Sedimento	Buffer	2	238757	194978	118650	195553	141570	78657	82161	91791	127916	65059	185797	127790	156162	181914	208071
Canal System 2	Buffer	2	215446	171667	95339	172242	118258	55345	58850	68480	104605	41748	162485	104479	132851	158602	184760

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	943 Silk 1	944 Silk 1	945 Silk 1	946 Silk 1	947 Silk 1	948 Silk 1	949 Silk 1	950 Silk 1	951 Silk 1	952 Silk 1	953 Silk 1	954 Silk 1	955 Silk 1	956 Silk 1	957 Silk 1
Start (Colonial)			57740	172787	211000	169576	153484	206780	192987	148199	73609	163801	133354	43554	102234	150302	55946
Coyote	SIU	1	57684	172730	210944	169520	153428	206724	192930	148143	73553	163745	133298	43498	102178	150245	55890
Crismon	SIU	1	57211	172257	210471	169047	152955	206251	192457	147670	73080	163272	132825	43025	101705	149772	55417
Scottsdale	SIU	1	57040	172086	210299	168876	152783	206080	192286	147498	72908	163100	132653	42853	101533	149601	55245
Sedimento	SIU	1	56075	171121	209334	167911	151818	205115	191321	146533	71943	162136	131688	41889	100568	148636	54281
Canal System 2	SIU	1	49113	164159	202372	160949	144856	198153	184359	139572	64982	155174	124726	34927	93606	141674	47319
Start (Colonial)			57740	172787	211000	169576	153484	206780	192987	148199	73609	163801	133354	43554	102234	150302	55946
Coyote	Buffer	1	57548	172594	210807	169384	153291	206588	192794	148006	73416	163608	133161	43362	102041	150109	55754
Crismon	Buffer	1	55918	170964	209177	167754	151661	204958	191164	146376	71786	161978	131531	41731	100411	148479	54123
Scottsdale	Buffer	1	55326	170372	208585	167162	151069	204366	190572	145784	71194	161386	130939	41140	99819	147887	53532
Sedimento	Buffer	1	52001	167047	205260	163837	147744	201041	187247	142459	67869	158061	127614	37814	96494	144562	50206
Canal System 2	Buffer	1	40345	155391	193604	152181	136088	189385	175591	130803	56213	146406	115958	26159	84838	132906	38551
Start (Colonial)			57740	172787	211000	169576	153484	206780	192987	148199	73609	163801	133354	43554	102234	150302	55946
Coyote	SIU	2	57628	172674	210888	169464	153371	206668	192874	148087	73497	163689	133242	43442	102121	150189	55834
Crismon	SIU	2	56682	171728	209942	168518	152425	205722	191928	147141	72551	162743	132296	42496	101175	149243	54888
Scottsdale	SIU	2	56339	171385	209598	168175	152082	205379	191585	146797	72207	162400	131952	42153	100832	148900	54545
Sedimento	SIU	2	54410	169456	207669	166246	150153	203450	189656	144868	70278	160470	130023	40223	98903	146971	52615
Canal System 2	SIU	2	40486	155532	193745	152322	136229	189526	175732	130944	56354	146546	116099	26300	84979	133047	38691
Start (Colonial)			57740	172787	211000	169576	153484	206780	192987	148199	73609	163801	133354	43554	102234	150302	55946
Coyote	Buffer	2	57355	172402	210615	169191	153099	206395	192602	147814	73224	163416	132969	43169	101849	149917	55561
Crismon	Buffer	2	54095	169141	207354	165931	149838	203135	189341	144553	69963	160156	129708	39909	98588	146656	52301
Scottsdale	Buffer	2	52911	167958	206171	164747	148655	201951	188158	143370	68780	158972	128525	38725	97405	145473	51117
Sedimento	Buffer	2	46261	161307	199520	158097	142004	195301	181507	136719	62129	152321	121874	32075	90754	138822	44466
Canal System 2	Buffer	2	22950	137996	176209	134786	118693	171990	158196	113408	38818	129010	98563	8763	67443	115511	21155

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	958 Silk 1	959 Silk 1	960 Silk 1	961 Silk 1	962 Silk 1	963 Silk 1	964 Silk 1	965 Silk 1	966 Silk 1	967 Silk 1	968 Silk 1	969 Silk 1	970 Silk 1	971 Silk 1	972 Silk 1
Start (Colonial)			154521	163170	217168	100047	183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127
Coyote	SIU	1	154465	163114	217112	99991	183819	127732	119041	205463	130901	92912	76735	132989	127228	111065	89071
Crismon	SIU	1	153992	162641	216639	99518	183346	127259	118568	204990	130428	92439	76262	132516	126755	110592	88598
Scottsdale	SIU	1	153820	162469	216467	99346	183174	127088	118397	204818	130256	92267	76090	132345	126583	110420	88426
Sedimento	SIU	1	152856	161505	215502	98381	182209	126123	117432	203853	129291	91302	75126	131380	125619	109456	87461
Canal System 2	SIU	1	145894	154543	208540	91420	175248	119161	110470	196891	122329	84340	68164	124418	118657	102494	80500
Start (Colonial)			154521	163170	217168	100047	183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127
Coyote	Buffer	1	154329	162978	216975	99854	183682	127596	118905	205326	130764	92775	76598	132853	127091	110929	88934
Crismon	Buffer	1	152698	161347	215345	98224	182052	125966	117275	203696	129134	91145	74968	131223	125461	109298	87304
Scottsdale	Buffer	1	152107	160756	214753	97632	181460	125374	116683	203104	128542	90553	74376	130631	124869	108707	86712
Sedimento	Buffer	1	148781	157430	211428	94307	178135	122049	113358	199779	125217	87228	71051	127306	121544	105381	83387
Canal System 2	Buffer	1	137126	145775	199772	82651	166479	110393	101702	188123	113561	75572	59396	115650	109889	93726	71731
Start (Colonial)			154521	163170	217168	100047	183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127
Coyote	SIU	2	154409	163058	217056	99935	183763	127676	118985	205407	130844	92856	76679	132933	127172	111009	89015
Crismon	SIU	2	153463	162112	216110	98989	182817	126730	118039	204461	129898	91910	75733	131987	126226	110063	88069
Scottsdale	SIU	2	153120	161769	215766	98645	182473	126387	117696	204117	129555	91566	75390	131644	125883	109720	87725
Sedimento	SIU	2	151190	159839	213837	96716	180544	124458	115767	202188	127626	89637	73460	129715	123953	107790	85796
Canal System 2	SIU	2	137266	145916	199913	82792	166620	110534	101843	188264	113702	75713	59536	115791	110029	93867	71872
Start (Colonial)			154521	163170	217168	100047	183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127
Coyote	Buffer	2	154136	162785	216783	99662	183490	127404	118712	205134	130572	92583	76406	132660	126899	110736	88742
Crismon	Buffer	2	150876	159525	213522	96401	180229	124143	115452	201873	127311	89322	73146	129400	123639	107476	85481
Scottsdale	Buffer	2	149692	158341	212339	95218	179046	122960	114268	200690	126128	88139	71962	128216	122455	106292	84298
Sedimento	Buffer	2	143041	151691	205688	88567	172395	116309	107618	194039	119477	81488	65311	121566	115804	99642	77647
Canal System 2	Buffer	2	119730	128379	182377	65256	149084	92998	84307	170728	96166	58177	42000	98255	92493	76330	54336

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	973 Silk 1	974 Silk 1	975 Silk 1	976 Silk 1	977 Silk 1	978 Silk 1	979 Silk 1	980 Silk 1	981 Silk 1	982 Silk 1	983 Silk 1	984 Silk 1	985 Silk 1	986 Silk 1	987 Silk 1
Start (Colonial)			230303	100369	54348	137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923
Coyote	SIU	1	230247	100313	54292	137433	171399	100944	74324	53745	63039	151171	136760	64595	112004	161432	158867
Crismon	SIU	1	229774	99840	53819	136960	170926	100471	73851	53272	62566	150698	136287	64122	111531	160959	158394
Scottsdale	SIU	1	229602	99669	53647	136788	170754	100299	73679	53101	62395	150526	136116	63951	111360	160787	158222
Sedimento	SIU	1	228637	98704	52683	135824	169789	99335	72714	52136	61430	149561	135151	62986	110395	159823	157257
Canal System 2	SIU	1	221675	91742	45721	128862	162828	92373	65753	45174	54468	142599	128189	56024	103433	152861	150295
Start (Colonial)			230303	100369	54348	137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923
Coyote	Buffer	1	230110	100177	54156	137297	171262	100808	74187	53609	62903	151034	136624	64459	111868	161296	158730
Crismon	Buffer	1	228480	98547	52525	135666	169632	99177	72557	51979	61273	149404	134994	62829	110238	159665	157100
Scottsdale	Buffer	1	227888	97955	51934	135075	169040	98586	71965	51387	60681	148812	134402	62237	109646	159074	156508
Sedimento	Buffer	1	224563	94629	48608	131749	165715	95260	68640	48061	57355	145487	131076	58911	106321	155748	153183
Canal System 2	Buffer	1	212907	82974	36953	120094	154059	83605	56984	36406	45700	133831	119421	47256	94665	144093	141527
Start (Colonial)			230303	100369	54348	137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923
Coyote	SIU	2	230190	100257	54236	137377	171343	100888	74268	53689	62983	151115	136704	64539	111948	161376	158811
Crismon	SIU	2	229244	99311	53290	136431	170397	99942	73322	52743	62037	150169	135758	63593	111002	160430	157865
Scottsdale	SIU	2	228901	98968	52947	136088	170053	99599	72978	52400	61694	149825	135415	63250	110659	160087	157521
Sedimento	SIU	2	226972	97038	51017	134158	168124	97669	71049	50470	59764	147896	133485	61320	108730	158157	155592
Canal System 2	SIU	2	213048	83115	37093	120234	154200	83745	57125	36547	45841	133972	119562	47397	94806	144233	141668
Start (Colonial)			230303	100369	54348	137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923
Coyote	Buffer	2	229918	99984	53963	137104	171070	100615	73995	53416	62710	150842	136431	64266	111675	161103	158538
Crismon	Buffer	2	226657	96724	50703	133844	167809	97355	70734	50156	59450	147581	133171	61006	108415	157843	155277
Scottsdale	Buffer	2	225474	95540	49519	132660	166626	96171	69551	48972	58266	146398	131987	59822	107231	156659	154094
Sedimento	Buffer	2	218823	88890	42868	126009	159975	89520	62900	42322	51616	139747	125337	53172	100581	150008	147443
Canal System 2	Buffer	2	195512	65578	19557	102698	136664	66209	39589	19010	28304	116436	102025	29860	77270	126697	124132

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	988 Silk 1	989 Silk 1	990 Silk 1	991 Silk 1	992 Silk 1	993 Silk 1	994 Silk 1	995 Silk 1	996 Silk 1	997 Silk 1	998 Silk 1	999 Silk 1	Total Deficits
Start (Colonial)			213873	204313	77169	69221	166633	63207	140881	123836	124957	107799	125420	103173	
Coyote	SIU	1	213817	204257	77113	69165	166577	63151	140825	123779	124901	107743	125363	103117	0
Crismon	SIU	1	213344	203784	76640	68692	166104	62678	140352	123306	124428	107270	124890	102644	0
Scottsdale	SIU	1	213173	203612	76469	68520	165932	62507	140181	123135	124256	107098	124719	102472	0
Sedimento	SIU	1	212208	202648	75504	67556	164967	61542	139216	122170	123292	106133	123754	101507	0
Canal System 2	SIU	1	205246	195686	68542	60594	158005	54580	132254	115208	116330	99172	116792	94546	0
Start (Colonial)			213873	204313	77169	69221	166633	63207	140881	123836	124957	107799	125420	103173	
Coyote	Buffer	1	213681	204121	76977	69029	166440	63015	140689	123643	124764	107606	125227	102980	0
Crismon	Buffer	1	212051	202490	75347	67398	164810	61385	139059	122013	123134	105976	123597	101350	0
Scottsdale	Buffer	1	211459	201899	74755	66807	164218	60793	138467	121421	122542	105384	123005	100758	0
Sedimento	Buffer	1	208134	198573	71430	63481	160893	57468	135142	118096	119217	102059	119680	97433	0
Canal System 2	Buffer	1	196478	186918	59774	51826	149237	45812	123486	106440	107562	90403	108024	85777	0
Start (Colonial)			213873	204313	77169	69221	166633	63207	140881	123836	124957	107799	125420	103173	
Coyote	SIU	2	213761	204201	77057	69109	166520	63095	140769	123723	124845	107687	125307	103061	0
Crismon	SIU	2	212815	203255	76111	68163	165574	62149	139823	122777	123899	106741	124361	102115	0
Scottsdale	SIU	2	212472	202912	75768	67820	165231	61806	139480	122434	123556	106397	124018	101771	0
Sedimento	SIU	2	210543	200982	73839	65890	163302	59877	137551	120505	121626	104468	122089	99842	0
Canal System 2	SIU	2	196619	187059	59915	51967	149378	45953	123627	106581	107702	90544	108165	85918	0
Start (Colonial)			213873	204313	77169	69221	166633	63207	140881	123836	124957	107799	125420	103173	
Coyote	Buffer	2	213488	203928	76784	68836	166248	62822	140496	123451	124572	107414	125035	102788	0
Crismon	Buffer	2	210228	200668	73524	65576	162987	59562	137236	120190	121312	104153	121774	99527	0
Scottsdale	Buffer	2	209044	199484	72340	64392	161804	58378	136052	119007	120128	102970	120591	98344	0
Sedimento	Buffer	2	202394	192834	65690	57742	155153	51728	129402	112356	113477	96319	113940	91693	0
Canal System 2	Buffer	2	179083	169522	42379	34430	131842	28417	106091	89045	90166	73008	90629	68382	1

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	800 Plant 2	801 Plant 2	802 Plant 2	803 Plant 2	804 Plant 2	805 Plant 2	806 Plant 2	807 Plant 2	808 Plant 2	809 Plant 2	810 Plant 2	811 Plant 2	812 Plant 2	813 Plant 2	814 Plant 2
Start (Colonial)			54342	84088	54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316
Coyote	SIU	1	54286	84032	54337	112175	87399	112979	58916	48485	21146	18615	78685	54626	64346	60566	55260
Crismon	SIU	1	53813	83559	53864	111702	86926	112506	58443	48012	20673	18142	78212	54153	63873	60093	54787
Scottsdale	SIU	1	53641	83387	53693	111530	86755	112335	58271	47840	20502	17970	78040	53981	63701	59921	54616
Sedimento	SIU	1	52676	82423	52728	110566	85790	111370	57307	46876	19537	17005	77076	53017	62736	58957	53651
Canal System 2	SIU	1	45714	75461	45766	103604	78828	104408	50345	39914	12575	10043	70114	46055	55774	51995	46689
Start (Colonial)			54342	84088	54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316
Coyote	Buffer	1	54149	83896	54201	112039	87263	112843	58780	48348	21010	18478	78549	54490	64209	60430	55124
Crismon	Buffer	1	52519	82265	52571	110408	85633	111213	57149	46718	19380	16848	76918	52859	62579	58799	53494
Scottsdale	Buffer	1	51927	81674	51979	109817	85041	110621	56558	46126	18788	16256	76327	52268	61987	58208	52902
Sedimento	Buffer	1	48602	78348	48654	106491	81715	107296	53232	42801	15463	12931	73001	48942	58662	54882	49576
Canal System 2	Buffer	1	36946	66693	36998	94836	70060	95640	41577	31146	3807	1275	61346	37287	47006	43227	37921
Start (Colonial)			54342	84088	54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316
Coyote	SIU	2	54230	83976	54281	112119	87343	112923	58860	48429	21090	18559	78629	54570	64289	60510	55204
Crismon	SIU	2	53284	83030	53335	111173	86397	111977	57914	47483	20144	17613	77683	53624	63343	59564	54258
Scottsdale	SIU	2	52940	82687	52992	110830	86054	111634	57571	47140	19801	17269	77340	53281	63000	59221	53915
Sedimento	SIU	2	51011	80757	51063	108900	84124	109705	55641	45210	17872	15340	75410	51351	61071	57291	51985
Canal System 2	SIU	2	37087	66834	37139	94976	70201	95781	41717	31286	3948	1416	61487	37427	47147	43367	38062
Start (Colonial)			54342	84088	54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316
Coyote	Buffer	2	53957	83703	54008	111846	87070	112650	58587	48156	20818	18286	78356	54297	64017	60237	54931
Crismon	Buffer	2	50696	80443	50748	108586	83810	109390	55327	44896	17557	15025	75096	51037	60756	56977	51671
Scottsdale	Buffer	2	49513	79259	49564	107402	82626	108206	54143	43712	16374	13842	73912	49853	59573	55793	50487
Sedimento	Buffer	2	42862	72609	42914	100751	75976	101556	47492	37061	9723	7191	67262	43202	52922	49142	43837
Canal System 2	Buffer	2	19551	49297	19603	77440	52664	78245	24181	13750	-13588	-16120	43950	19891	29611	25831	20525

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	815 Plant 2	816 Plant 2	817 Plant 2	818 Plant 2	819 Plant 2	820 Plant 2	821 Plant 2	822 Plant 2	823 Plant 2	824 Plant 2	825 Plant 2	826 Plant 2	827 Plant 2	828 Plant 2	829 Plant 2
Start (Colonial)			41487	36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	SIU	1	41431	36662	34140	26669	50718	71910	66423	94515	26782	42333	20383	66944	53626	34269	40885
Crismon	SIU	1	40958	36189	33667	26196	50245	71437	65950	94042	26309	41860	19910	66471	53153	33796	40412
Scottsdale	SIU	1	40787	36017	33496	26024	50073	71265	65779	93870	26138	41689	19739	66300	52981	33624	40240
Sedimento	SIU	1	39822	35052	32531	25059	49108	70300	64814	92905	25173	40724	18774	65335	52016	32660	39275
Canal System 2	SIU	1	32860	28090	25569	18098	42146	63339	57852	85944	18211	33762	11812	58373	45054	25698	32313
Start (Colonial)			41487	36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	Buffer	1	41295	36525	34004	26532	50581	71773	66287	94378	26646	42197	20247	66808	53489	34133	40748
Crismon	Buffer	1	39665	34895	32374	24902	48951	70143	64657	92748	25016	40567	18617	65178	51859	32502	39118
Scottsdale	Buffer	1	39073	34303	31782	24310	48359	69551	64065	92156	24424	39975	18025	64586	51267	31911	38526
Sedimento	Buffer	1	35747	30978	28456	20985	45034	66226	60740	88831	21098	36650	14700	61261	47942	28585	35201
Canal System 2	Buffer	1	24092	19322	16801	9329	33378	54570	49084	77175	9443	24994	3044	49605	36286	16930	23545
Start (Colonial)			41487	36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	SIU	2	41375	36605	34084	26613	50661	71854	66367	94459	26726	42277	20327	66888	53570	34213	40828
Crismon	SIU	2	40429	35659	33138	25667	49715	70908	65421	93513	25780	41331	19381	65942	52624	33267	39882
Scottsdale	SIU	2	40086	35316	32795	25323	49372	70564	65078	93169	25437	40988	19038	65599	52280	32924	39539
Sedimento	SIU	2	38156	33387	30865	23394	47443	68635	63149	91240	23507	39059	17109	63670	50351	30994	37610
Canal System 2	SIU	2	24233	19463	16942	9470	33519	54711	49225	77316	9584	25135	3185	49746	36427	17071	23686
Start (Colonial)			41487	36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	Buffer	2	41102	36333	33811	26340	50389	71581	66095	94186	26453	42005	20054	66615	53297	33940	40556
Crismon	Buffer	2	37842	33072	30551	23079	47128	68320	62834	90925	23193	38744	16794	63355	50036	30680	37295
Scottsdale	Buffer	2	36658	31889	29367	21896	45945	67137	61651	89742	22009	37561	15610	62171	48853	29496	36112
Sedimento	Buffer	2	30008	25238	22717	15245	39294	60486	55000	83091	15359	30910	8960	55521	42202	22846	29461
Canal System 2	Buffer	2	6696	1927	-595	-8066	15983	37175	31689	59780	-7953	7599	-14351	32210	18891	-466	6150

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	830 Plant 2	831 Plant 2	832 Plant 2	833 Plant 2	834 Plant 2	835 Plant 2	836 Plant 2	837 Plant 2	838 Plant 2	839 Plant 2	840 Plant 2	841 Plant 2	842 Plant 2	843 Plant 2	844 Plant 2
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663	46912
Coyote	SIU	1	21353	65923	41137	62907	76576	58952	64810	37316	6353	30551	18909	43638	47505	60607	46855
Crismon	SIU	1	20880	65450	40664	62434	76103	58479	64337	36843	5880	30078	18436	43165	47032	60134	46382
Scottsdale	SIU	1	20708	65279	40493	62262	75932	58307	64165	36672	5709	29907	18264	42993	46861	59963	46211
Sedimento	SIU	1	19743	64314	39528	61298	74967	57343	63200	35707	4744	28942	17299	42029	45896	58998	45246
Canal System 2	SIU	1	12781	57352	32566	54336	68005	50381	56238	28745	-2218	21980	10337	35067	38934	52036	38284
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663	46912
Coyote	Buffer	1	21216	65787	41001	62771	76440	58816	64673	37180	6217	30415	18772	43502	47369	60471	46719
Crismon	Buffer	1	19586	64157	39371	61140	74810	57185	63043	35550	4587	28785	17142	41871	45739	58841	45089
Scottsdale	Buffer	1	18994	63565	38779	60549	74218	56594	62451	34958	3995	28193	16550	41280	45147	58249	44497
Sedimento	Buffer	1	15669	60240	35454	57223	70892	53268	59126	31633	669	24868	13225	37954	41821	54924	41172
Canal System 2	Buffer	1	4013	48584	23798	45568	59237	41613	47470	19977	-10986	13212	1569	26299	30166	43268	29516
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663	46912
Coyote	SIU	2	21297	65867	41081	62851	76520	58896	64753	37260	6297	30495	18852	43582	47449	60551	46799
Crismon	SIU	2	20351	64921	40135	61905	75574	57950	63807	36314	5351	29549	17906	42636	46503	59605	45853
Scottsdale	SIU	2	20007	64578	39792	61562	75231	57607	63464	35971	5008	29206	17563	42293	46160	59262	45510
Sedimento	SIU	2	18078	62649	37863	59632	73301	55677	61535	34042	3078	27277	15634	40363	44230	57333	43581
Canal System 2	SIU	2	4154	48725	23939	45708	59378	41754	47611	20118	-10845	13353	1710	26439	30307	43409	29657
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663	46912
Coyote	Buffer	2	21024	65594	40808	62578	76247	58623	64481	36988	6024	30223	18580	43309	47176	60278	46527
Crismon	Buffer	2	17763	62334	37548	59318	72987	55363	61220	33727	2764	26962	15319	40049	43916	57018	43266
Scottsdale	Buffer	2	16580	61150	36364	58134	71803	54179	60037	32544	1580	25779	14136	38865	42732	55834	42083
Sedimento	Buffer	2	9929	54500	29714	51483	65153	47529	53386	25893	-5070	19128	7485	32214	36082	49184	35432
Canal System 2	Buffer	2	-13382	31189	6403	28172	41841	24217	30075	2582	-28382	-4183	-15826	8903	12770	25873	12121

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	845 Plant 2	846 Plant 2	847 Plant 2	848 Plant 2	849 Plant 2	850 Plant 2	851 Plant 2	852 Plant 2	853 Plant 2	854 Plant 2	855 Plant 2	856 Plant 2	857 Plant 2	858 Plant 2	859 Plant 2
Start (Colonial)			59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618	65139	53940
Coyote	SIU	1	59710	39343	21430	56941	30392	56931	40441	68625	40555	76040	37899	76076	46562	65083	53883
Crismon	SIU	1	59237	38870	20957	56468	29919	56458	39968	68152	40082	75567	37426	75603	46089	64610	53410
Scottsdale	SIU	1	59065	38698	20785	56297	29747	56286	39797	67981	39910	75395	37254	75431	45917	64438	53239
Sedimento	SIU	1	58101	37734	19821	55332	28782	55322	38832	67016	38945	74431	36290	74467	44952	63474	52274
Canal System 2	SIU	1	51139	30772	12859	48370	21820	48360	31870	60054	31983	67469	29328	67505	37990	56512	45312
Start (Colonial)			59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618	65139	53940
Coyote	Buffer	1	59574	39206	21294	56805	30255	56794	40305	68489	40418	75903	37763	75940	46425	64946	53747
Crismon	Buffer	1	57943	37576	19663	55175	28625	55164	38675	66859	38788	74273	36132	74309	44795	63316	52117
Scottsdale	Buffer	1	57352	36984	19072	54583	28033	54572	38083	66267	38196	73681	35541	73718	44203	62724	51525
Sedimento	Buffer	1	54026	33659	15746	51257	24708	51247	34757	62941	34871	70356	32215	70392	40878	59399	48200
Canal System 2	Buffer	1	42371	22004	4091	39602	13052	39592	23102	51286	23215	58701	20560	58737	29222	47744	36544
Start (Colonial)			59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618	65139	53940
Coyote	SIU	2	59654	39287	21374	56885	30335	56875	40385	68569	40498	75984	37843	76020	46505	65027	53827
Crismon	SIU	2	58708	38341	20428	55939	29389	55929	39439	67623	39552	75038	36897	75074	45559	64081	52881
Scottsdale	SIU	2	58365	37998	20085	55596	29046	55586	39096	67280	39209	74695	36554	74731	45216	63738	52538
Sedimento	SIU	2	56435	36068	18155	53666	27117	53656	37166	65350	37280	72765	34624	72801	43287	61808	50609
Canal System 2	SIU	2	42512	22144	4232	39743	13193	39732	23243	51427	23356	58841	20701	58877	29363	47884	36685
Start (Colonial)			59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618	65139	53940
Coyote	Buffer	2	59381	39014	21101	56612	30063	56602	40112	68296	40226	75711	37570	75747	46233	64754	53555
Crismon	Buffer	2	56121	35754	17841	53352	26802	53342	36852	65036	36965	72451	34310	72487	42972	61494	50294
Scottsdale	Buffer	2	54937	34570	16657	52168	25619	52158	35668	63852	35782	71267	33126	71303	41789	60310	49111
Sedimento	Buffer	2	48287	27919	10007	45518	18968	45507	29018	57202	29131	64616	26476	64652	35138	53659	42460
Canal System 2	Buffer	2	24975	4608	-13305	22206	-4343	22196	5706	33890	5820	41305	3164	41341	11827	30348	19149

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	860 Plant 2	861 Plant 2	862 Plant 2	863 Plant 2	864 Plant 2	865 Plant 2	866 Plant 2	867 Plant 2	868 Plant 2	869 Plant 2	870 Plant 2	871 Plant 2	872 Plant 2	873 Plant 2	874 Plant 2
Start (Colonial)			38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690	37873	75142	46803
Coyote	SIU	1	38456	60453	57575	53626	42890	29830	43648	29757	47175	75921	37533	46634	37817	75086	46747
Crismon	SIU	1	37983	59980	57102	53153	42417	29357	43175	29284	46702	75448	37060	46161	37344	74613	46274
Scottsdale	SIU	1	37811	59808	56931	52981	42246	29185	43004	29113	46531	75277	36888	45989	37172	74441	46103
Sedimento	SIU	1	36847	58843	55966	52016	41281	28220	42039	28148	45566	74312	35924	45024	36207	73477	45138
Canal System 2	SIU	1	29885	51881	49004	45054	34319	21258	35077	21186	38604	67350	28962	38063	29245	66515	38176
Start (Colonial)			38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690	37873	75142	46803
Coyote	Buffer	1	38320	60316	57439	53489	42754	29693	43512	29621	47039	75785	37397	46497	37680	74950	46611
Crismon	Buffer	1	36689	58686	55809	51859	41124	28063	41882	27991	45409	74155	35766	44867	36050	73319	44981
Scottsdale	Buffer	1	36098	58094	55217	51267	40532	27471	41290	27399	44817	73563	35175	44275	35458	72728	44389
Sedimento	Buffer	1	32772	54769	51892	47942	37207	24146	37965	24074	41491	70238	31849	40950	32133	69402	41064
Canal System 2	Buffer	1	21117	43113	40236	36286	25551	12490	26309	12418	29836	58582	20194	29294	20477	57747	29408
Start (Colonial)			38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690	37873	75142	46803
Coyote	SIU	2	38400	60396	57519	53570	42834	29773	43592	29701	47119	75865	37477	46578	37760	75030	46691
Crismon	SIU	2	37454	59450	56573	52624	41888	28827	42646	28755	46173	74919	36531	45632	36814	74084	45745
Scottsdale	SIU	2	37111	59107	56230	52280	41545	28484	42303	28412	45830	74576	36188	45288	36471	73741	45402
Sedimento	SIU	2	35181	57178	54301	50351	39616	26555	40374	26483	43900	72647	34258	43359	34542	71811	43473
Canal System 2	SIU	2	21257	43254	40377	36427	25692	12631	26450	12559	29977	58723	20334	29435	20618	57887	29549
Start (Colonial)			38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690	37873	75142	46803
Coyote	Buffer	2	38127	60124	57246	53297	42561	29501	43319	29428	46846	75592	37204	46305	37488	74757	46418
Crismon	Buffer	2	34867	56863	53986	50036	39301	26240	40059	26168	43586	72332	33944	43044	34227	71497	43158
Scottsdale	Buffer	2	33683	55680	52802	48853	38117	25057	38875	24984	42402	71148	32760	41861	33044	70313	41974
Sedimento	Buffer	2	27032	49029	46152	42202	31467	18406	32225	18334	35752	64498	26109	35210	26393	63662	35324
Canal System 2	Buffer	2	3721	25718	22841	18891	8156	-4905	8914	-4977	12440	41187	2798	11899	3082	40351	12013

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	875 Plant 2	876 Plant 2	877 Plant 2	878 Plant 2	879 Plant 2	880 Plant 2	881 Plant 2	882 Plant 2	883 Plant 2	884 Plant 2	885 Plant 2	886 Plant 2	887 Plant 2	888 Plant 2	889 Plant 2
Start (Colonial)			60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660	38125	53620	97531	27364
Coyote	SIU	1	60540	75674	48227	36955	37858	65856	61602	41338	27040	23013	49604	38069	53564	97474	27308
Crismon	SIU	1	60067	75201	47754	36482	37385	65383	61129	40865	26567	22540	49131	37596	53091	97001	26835
Scottsdale	SIU	1	59896	75029	47582	36311	37213	65212	60958	40694	26395	22368	48959	37425	52919	96830	26664
Sedimento	SIU	1	58931	74064	46618	35346	36249	64247	59993	39729	25431	21404	47994	36460	51954	95865	25699
Canal System 2	SIU	1	51969	67103	39656	28384	29287	57285	53031	32767	18469	14442	41033	29498	44993	88903	18737
Start (Colonial)			60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660	38125	53620	97531	27364
Coyote	Buffer	1	60404	75537	48091	36819	37721	65720	61466	41202	26904	22877	49467	37933	53427	97338	27172
Crismon	Buffer	1	58774	73907	46460	35189	36091	64090	59836	39572	25273	21246	47837	36303	51797	95708	25542
Scottsdale	Buffer	1	58182	73315	45869	34597	35499	63498	59244	38980	24682	20655	47245	35711	51205	95116	24950
Sedimento	Buffer	1	54856	69990	42543	31272	32174	60173	55919	35655	21356	17329	43920	32386	47880	91791	21624
Canal System 2	Buffer	1	43201	58334	30888	19616	20519	48517	44263	23999	9701	5674	32264	20730	36224	80135	9969
Start (Colonial)			60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660	38125	53620	97531	27364
Coyote	SIU	2	60484	75618	48171	36899	37802	65800	61546	41282	26984	22957	49548	38013	53508	97418	27252
Crismon	SIU	2	59538	74672	47225	35953	36856	64854	60600	40336	26038	22011	48602	37067	52562	96472	26306
Scottsdale	SIU	2	59195	74328	46882	35610	36513	64511	60257	39993	25695	21668	48258	36724	52218	96129	25963
Sedimento	SIU	2	57265	72399	44952	33681	34583	62582	58328	38064	23765	19738	46329	34795	50289	94200	24033
Canal System 2	SIU	2	43342	58475	31029	19757	20659	48658	44404	24140	9842	5814	32405	20871	36365	80276	10110
Start (Colonial)			60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660	38125	53620	97531	27364
Coyote	Buffer	2	60211	75345	47898	36627	37529	65527	61273	41009	26711	22684	49275	37740	53235	97146	26979
Crismon	Buffer	2	56951	72084	44638	33366	34269	62267	58013	37749	23451	19424	46014	34480	49974	93885	23719
Scottsdale	Buffer	2	55767	70901	43454	32183	33085	61083	56829	36565	22267	18240	44831	33296	48791	92702	22535
Sedimento	Buffer	2	49117	64250	36804	25532	26434	54433	50179	29915	15617	11589	38180	26646	42140	86051	15885
Canal System 2	Buffer	2	25805	40939	13492	2221	3123	31122	26868	6604	-7695	-11722	14869	3335	18829	62740	-7427

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	890 Plant 2	891 Plant 2	892 Plant 2	893 Plant 2	894 Plant 2	895 Plant 2	896 Plant 2	897 Plant 2	898 Plant 2	899 Plant 2	900 Plant 2	901 Plant 2	902 Plant 2	903 Plant 2	904 Plant 2
Start (Colonial)			70264	66975	29040	60060	33928	32979	42457	74539	75085	134052	22440	40662	30922	25493	26158
Coyote	SIU	1	70208	66918	28984	60004	33872	32923	42400	74483	75029	133996	22384	40606	30866	25436	26102
Crismon	SIU	1	69735	66445	28511	59531	33399	32450	41927	74010	74556	133523	21911	40133	30393	24963	25629
Scottsdale	SIU	1	69564	66274	28339	59359	33227	32279	41756	73838	74385	133352	21739	39962	30221	24792	25457
Sedimento	SIU	1	68599	65309	27375	58395	32263	31314	40791	72873	73420	132387	20775	38997	29257	23827	24492
Canal System 2	SIU	1	61637	58347	20413	51433	25301	24352	33829	65911	66458	125425	13813	32035	22295	16865	17530
Start (Colonial)			70264	66975	29040	60060	33928	32979	42457	74539	75085	134052	22440	40662	30922	25493	26158
Coyote	Buffer	1	70072	66782	28848	59868	33736	32787	42264	74346	74893	133860	22248	40470	30730	25300	25965
Crismon	Buffer	1	68442	65152	27217	58237	32105	31157	40634	72716	73263	132230	20617	38840	29099	23670	24335
Scottsdale	Buffer	1	67850	64560	26626	57646	31514	30565	40042	72124	72671	131638	20026	38248	28508	23078	23743
Sedimento	Buffer	1	64524	61235	23300	54320	28188	27240	36717	68799	69346	128312	16700	34922	25182	19753	20418
Canal System 2	Buffer	1	52869	49579	11645	42665	16533	15584	25061	57143	57690	116657	5045	23267	13527	8097	8762
Start (Colonial)			70264	66975	29040	60060	33928	32979	42457	74539	75085	134052	22440	40662	30922	25493	26158
Coyote	SIU	2	70152	66862	28928	59948	33816	32867	42344	74427	74973	133940	22328	40550	30810	25380	26045
Crismon	SIU	2	69206	65916	27982	59002	32870	31921	41398	73481	74027	132994	21382	39604	29864	24434	25099
Scottsdale	SIU	2	68863	65573	27639	58659	32527	31578	41055	73137	73684	132651	21039	39261	29521	24091	24756
Sedimento	SIU	2	66933	63644	25709	56729	30597	29649	39126	71208	71755	130721	19109	37331	27591	22162	22827
Canal System 2	SIU	2	53010	49720	11785	42805	16674	15725	25202	57284	57831	116798	5185	23408	13667	8238	8903
Start (Colonial)			70264	66975	29040	60060	33928	32979	42457	74539	75085	134052	22440	40662	30922	25493	26158
Coyote	Buffer	2	69879	66590	28655	59675	33543	32594	42072	74154	74700	133667	22055	40277	30537	25108	25773
Crismon	Buffer	2	66619	63329	25395	56415	30283	29334	38811	70893	71440	130407	18795	37017	27277	21847	22512
Scottsdale	Buffer	2	65435	62146	24211	55231	29099	28150	37628	69710	70256	129223	17611	35833	26093	20664	21329
Sedimento	Buffer	2	58785	55495	17560	48580	22449	21500	30977	63059	63606	122573	10960	29183	19442	14013	14678
Canal System 2	Buffer	2	35473	32184	-5751	25269	-863	-1811	7666	39748	40295	99261	-12351	5871	-3869	-9298	-8633

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	905 Plant 2	906 Plant 2	907 Plant 2	908 Plant 2	909 Plant 2	910 Plant 2	911 Plant 2	912 Plant 2	913 Plant 2	914 Plant 2	915 Plant 2	916 Plant 2	917 Plant 2	918 Plant 2	919 Plant 2
Start (Colonial)			46164	30773	27385	49165	48923	33268	59792	59400	45483	47422	66928	32464	74224	42292	41688
Coyote	SIU	1	46108	30716	27329	49109	48866	33212	59736	59344	45427	47366	66872	32408	74168	42235	41632
Crismon	SIU	1	45635	30243	26856	48636	48393	32739	59263	58871	44954	46893	66399	31935	73695	41762	41159
Scottsdale	SIU	1	45463	30072	26684	48464	48222	32567	59091	58699	44783	46721	66227	31763	73524	41591	40988
Sedimento	SIU	1	44499	29107	25719	47499	47257	31603	58127	57735	43818	45757	65263	30798	72559	40626	40023
Canal System 2	SIU	1	37537	22145	18758	40538	40295	24641	51165	50773	36856	38795	58301	23836	65597	33664	33061
Start (Colonial)			46164	30773	27385	49165	48923	33268	59792	59400	45483	47422	66928	32464	74224	42292	41688
Coyote	Buffer	1	45971	30580	27192	48972	48730	33076	59599	59208	45291	47230	66736	32271	74032	42099	41496
Crismon	Buffer	1	44341	28950	25562	47342	47100	31445	57969	57577	43661	45599	65105	30641	72402	40469	39866
Scottsdale	Buffer	1	43749	28358	24970	46750	46508	30854	57377	56986	43069	45008	64514	30049	71810	39877	39274
Sedimento	Buffer	1	40424	25033	21645	43425	43183	27528	54052	53660	39744	41682	61188	26724	68484	36552	35949
Canal System 2	Buffer	1	28769	13377	9989	31769	31527	15873	42397	42005	28088	30027	49533	15068	56829	24896	24293
Start (Colonial)			46164	30773	27385	49165	48923	33268	59792	59400	45483	47422	66928	32464	74224	42292	41688
Coyote	SIU	2	46052	30660	27273	49053	48810	33156	59680	59288	45371	47310	66816	32352	74112	42179	41576
Crismon	SIU	2	45106	29714	26327	48107	47864	32210	58734	58342	44425	46364	65870	31406	73166	41233	40630
Scottsdale	SIU	2	44763	29371	25983	47763	47521	31867	58391	57999	44082	46021	65527	31062	72823	40890	40287
Sedimento	SIU	2	42833	27442	24054	45834	45592	29937	56461	56069	42153	44091	63597	29133	70893	38961	38358
Canal System 2	SIU	2	28909	13518	10130	31910	31668	16014	42537	42145	28229	30167	49674	15209	56970	25037	24434
Start (Colonial)			46164	30773	27385	49165	48923	33268	59792	59400	45483	47422	66928	32464	74224	42292	41688
Coyote	Buffer	2	45779	30388	27000	48780	48538	32883	59407	59015	45098	47037	66543	32079	73839	41907	41303
Crismon	Buffer	2	42519	27127	23739	45519	45277	29623	56147	55755	41838	43777	63283	28818	70579	38646	38043
Scottsdale	Buffer	2	41335	25944	22556	44336	44094	28439	54963	54571	40654	42593	62099	27635	69395	37463	36859
Sedimento	Buffer	2	34684	19293	15905	37685	37443	21789	48312	47920	34004	35942	55449	20984	62745	30812	30209
Canal System 2	Buffer	2	11373	-4018	-7406	14374	14132	-1523	25001	24609	10693	12631	32137	-2327	39433	7501	6898

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	920 Plant 2	921 Plant 2	922 Plant 2	923 Plant 2	924 Plant 2	925 Plant 2	926 Plant 2	927 Plant 2	928 Plant 2	929 Plant 2	930 Plant 2	931 Plant 2	932 Plant 2	933 Plant 2	934 Plant 2
Start (Colonial)			20702	38110	25405	31598	25570	40095	63571	46850	92044	75941	47865	76153	56296	33155	34444
Coyote	SIU	1	20646	38054	25349	31541	25514	40039	63515	46794	91988	75885	47809	76097	56240	33099	34388
Crismon	SIU	1	20173	37581	24876	31068	25041	39566	63042	46321	91515	75412	47336	75624	55767	32626	33915
Scottsdale	SIU	1	20002	37409	24704	30897	24869	39394	62871	46149	91344	75241	47165	75452	55595	32454	33743
Sedimento	SIU	1	19037	36444	23739	29932	23904	38430	61906	45184	90379	74276	46200	74487	54631	31489	32778
Canal System 2	SIU	1	12075	29483	16778	22970	16943	31468	54944	38222	83417	67314	39238	67525	47669	24527	25816
Start (Colonial)			20702	38110	25405	31598	25570	40095	63571	46850	92044	75941	47865	76153	56296	33155	34444
Coyote	Buffer	1	20510	37917	25212	31405	25377	39903	63379	46657	91852	75749	47673	75960	56103	32962	34251
Crismon	Buffer	1	18880	36287	23582	29775	23747	38272	61749	45027	90222	74119	46043	74330	54473	31332	32621
Scottsdale	Buffer	1	18288	35695	22990	29183	23155	37681	61157	44435	89630	73527	45451	73738	53881	30740	32029
Sedimento	Buffer	1	14963	32370	19665	25858	19830	34355	57832	41110	86304	70201	42126	70413	50556	27415	28704
Canal System 2	Buffer	1	3307	20714	8009	14202	8174	22700	46176	29454	74649	58546	30470	58757	38901	15759	17048
Start (Colonial)			20702	38110	25405	31598	25570	40095	63571	46850	92044	75941	47865	76153	56296	33155	34444
Coyote	SIU	2	20590	37998	25293	31485	25458	39983	63459	46738	91932	75829	47753	76041	56184	33043	34332
Crismon	SIU	2	19644	37052	24347	30539	24512	39037	62513	45792	90986	74883	46807	75095	55238	32097	33386
Scottsdale	SIU	2	19301	36708	24003	30196	24168	38694	62170	45448	90643	74540	46464	74751	54895	31753	33042
Sedimento	SIU	2	17372	34779	22074	28267	22239	36764	60241	43519	88713	72610	44535	72822	52965	29824	31113
Canal System 2	SIU	2	3448	20855	8150	14343	8315	22840	46317	29595	74790	58687	30611	58898	39041	15900	17189
Start (Colonial)			20702	38110	25405	31598	25570	40095	63571	46850	92044	75941	47865	76153	56296	33155	34444
Coyote	Buffer	2	20317	37725	25020	31213	25185	39710	63186	46465	91659	75556	47480	75768	55911	32770	34059
Crismon	Buffer	2	17057	34464	21759	27952	21924	36450	59926	43204	88399	72296	44220	72507	52651	29509	30798
Scottsdale	Buffer	2	15873	33281	20576	26769	20741	35266	58742	42021	87215	71112	43036	71324	51467	28326	29615
Sedimento	Buffer	2	9223	26630	13925	20118	14090	28615	52092	35370	80565	64462	36386	64673	44816	21675	22964
Canal System 2	Buffer	2	-14088	3319	-9386	-3193	-9221	5304	28781	12059	57253	41150	13075	41362	21505	-1636	-347

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	935 Plant 2	936 Plant 2	937 Plant 2	938 Plant 2	939 Plant 2	940 Plant 2	941 Plant 2	942 Plant 2	943 Plant 2	944 Plant 2	945 Plant 2	946 Plant 2	947 Plant 2	948 Plant 2	949 Plant 2
Start (Colonial)			37986	51274	28153	72564	51227	61664	71136	80757	21239	63556	77612	62375	56456	76060	70986
Coyote	SIU	1	37930	51218	28097	72508	51171	61608	71080	80701	21183	63500	77556	62319	56400	76004	70930
Crismon	SIU	1	37457	50745	27624	72035	50698	61135	70607	80228	20710	63027	77083	61846	55927	75531	70457
Scottsdale	SIU	1	37285	50573	27452	71863	50527	60963	70435	80057	20538	62855	76911	61674	55755	75359	70285
Sedimento	SIU	1	36321	49608	26488	70899	49562	59998	69470	79092	19573	61891	75947	60710	54790	74394	69321
Canal System 2	SIU	1	29359	42646	19526	63937	42600	53036	62508	72130	12611	54929	68985	53748	47829	67433	62359
Start (Colonial)			37986	51274	28153	72564	51227	61664	71136	80757	21239	63556	77612	62375	56456	76060	70986
Coyote	Buffer	1	37794	51081	27961	72371	51035	61471	70943	80565	21046	63363	77419	62183	56263	75867	70794
Crismon	Buffer	1	36163	49451	26330	70741	49405	59841	69313	78935	19416	61733	75789	60552	54633	74237	69163
Scottsdale	Buffer	1	35572	48859	25739	70149	48813	59249	68721	78343	18824	61141	75197	59961	54041	73645	68572
Sedimento	Buffer	1	32246	45534	22413	66824	45488	55924	65396	75017	15499	57816	71872	56635	50716	70320	65246
Canal System 2	Buffer	1	20591	33878	10758	55169	33832	44268	53740	63362	3843	46161	60217	44980	39060	58664	53591
Start (Colonial)			37986	51274	28153	72564	51227	61664	71136	80757	21239	63556	77612	62375	56456	76060	70986
Coyote	SIU	2	37874	51162	28041	72452	51115	61551	71023	80645	21126	63444	77500	62263	56344	75948	70874
Crismon	SIU	2	36928	50216	27095	71506	50169	60605	70077	79699	20180	62498	76554	61317	55398	75002	69928
Scottsdale	SIU	2	36585	49872	26752	71163	49826	60262	69734	79356	19837	62155	76211	60974	55054	74658	69585
Sedimento	SIU	2	34655	47943	24822	69233	47897	58333	67805	77426	17908	60225	74281	59044	53125	72729	67655
Canal System 2	SIU	2	20732	34019	10899	55309	33973	44409	53881	63503	3984	46301	60357	45121	39201	58805	53732
Start (Colonial)			37986	51274	28153	72564	51227	61664	71136	80757	21239	63556	77612	62375	56456	76060	70986
Coyote	Buffer	2	37601	50889	27768	72179	50842	61279	70751	80372	20854	63171	77227	61990	56071	75675	70601
Crismon	Buffer	2	34341	47628	24508	68919	47582	58018	67490	77112	17593	59911	73967	58730	52810	72414	67341
Scottsdale	Buffer	2	33157	46445	23324	67735	46398	56835	66307	75928	16410	58727	72783	57546	51627	71231	66157
Sedimento	Buffer	2	26507	39794	16674	61084	39748	50184	59656	69278	9759	52076	66132	50896	44976	64580	59507
Canal System 2	Buffer	2	3195	16483	-6638	37773	16437	26873	36345	45966	-13552	28765	42821	27584	21665	41269	36195

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	950 Plant 2	951 Plant 2	952 Plant 2	953 Plant 2	954 Plant 2	955 Plant 2	956 Plant 2	957 Plant 2	958 Plant 2	959 Plant 2	960 Plant 2	961 Plant 2	962 Plant 2	963 Plant 2	964 Plant 2
Start (Colonial)			54512	27075	60251	49051	16020	37605	55285	20579	56837	60019	79881	36800	67635	47004	43808
Coyote	SIU	1	54456	27019	60195	48995	15964	37548	55229	20523	56781	59963	79825	36744	67578	46948	43751
Crismon	SIU	1	53983	26546	59722	48522	15491	37075	54756	20050	56308	59490	79352	36271	67105	46475	43278
Scottsdale	SIU	1	53811	26375	59550	48351	15320	36904	54585	19878	56137	59318	79180	36099	66934	46304	43107
Sedimento	SIU	1	52847	25410	58585	47386	14355	35939	53620	18913	55172	58353	78215	35135	65969	45339	42142
Canal System 2	SIU	1	45885	18448	51624	40424	7393	28977	46658	11951	48210	51391	71253	28173	59007	38377	35180
Start (Colonial)			54512	27075	60251	49051	16020	37605	55285	20579	56837	60019	79881	36800	67635	47004	43808
Coyote	Buffer	1	54319	26883	60058	48859	15828	37412	55093	20386	56645	59826	79688	36608	67442	46812	43615
Crismon	Buffer	1	52689	25253	58428	47229	14198	35782	53463	18756	55015	58196	78058	34977	65812	45182	41985
Scottsdale	Buffer	1	52097	24661	57836	46637	13606	35190	52871	18164	54423	57604	77466	34386	65220	44590	41393
Sedimento	Buffer	1	48772	21336	54511	43312	10281	31865	49546	14839	51098	54279	74141	31060	61895	41265	38068
Canal System 2	Buffer	1	37117	9680	42855	31656	-1375	20209	37890	3183	39442	42623	62485	19405	50239	29609	26412
Start (Colonial)			54512	27075	60251	49051	16020	37605	55285	20579	56837	60019	79881	36800	67635	47004	43808
Coyote	SIU	2	54400	26963	60139	48939	15908	37492	55173	20466	56725	59907	79768	36688	67522	46892	43695
Crismon	SIU	2	53454	26017	59193	47993	14962	36546	54227	19520	55779	58961	78822	35742	66576	45946	42749
Scottsdale	SIU	2	53111	25674	58849	47650	14619	36203	53884	19177	55436	58617	78479	35399	66233	45603	42406
Sedimento	SIU	2	51181	23745	56920	45721	12690	34274	51955	17248	53507	56688	76550	33469	64304	43674	40477
Canal System 2	SIU	2	37257	9821	42996	31797	-1234	20350	38031	3324	39583	42764	62626	19546	50380	29750	26553
Start (Colonial)			54512	27075	60251	49051	16020	37605	55285	20579	56837	60019	79881	36800	67635	47004	43808
Coyote	Buffer	2	54127	26690	59866	48666	15635	37220	54900	20194	56452	59634	79496	36415	67250	46619	43423
Crismon	Buffer	2	50867	23430	56605	45406	12375	33959	51640	16933	53192	56373	76235	33155	63989	43359	40162
Scottsdale	Buffer	2	49683	22246	55422	44222	11191	32776	50456	15750	52008	55190	75052	31971	62806	42175	38979
Sedimento	Buffer	2	43032	15596	48771	37572	4541	26125	43806	9099	45358	48539	68401	25321	56155	35525	32328
Canal System 2	Buffer	2	19721	-7715	25460	14261	-18770	2814	20495	-14212	22047	25228	45090	2009	32844	12214	9017

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	965 Plant 2	966 Plant 2	967 Plant 2	968 Plant 2	969 Plant 2	970 Plant 2	971 Plant 2	972 Plant 2	973 Plant 2	974 Plant 2	975 Plant 2	976 Plant 2	977 Plant 2	978 Plant 2	979 Plant 2
Start (Colonial)			75596	48170	34196	28246	48938	46819	40874	32783	84712	36919	19991	50573	63066	37151	27359
Coyote	SIU	1	75540	48114	34140	28190	48882	46763	40818	32727	84656	36863	19935	50516	63010	37095	27303
Crismon	SIU	1	75067	47641	33667	27717	48409	46290	40345	32254	84183	36390	19462	50043	62537	36622	26830
Scottsdale	SIU	1	74895	47469	33496	27545	48237	46118	40173	32083	84011	36218	19290	49872	62365	36450	26658
Sedimento	SIU	1	73930	46504	32531	26581	47273	45153	39208	31118	83047	35253	18325	48907	61401	35485	25694
Canal System 2	SIU	1	66969	39542	25569	19619	40311	38191	32246	24156	76085	28291	11363	41945	54439	28524	18732
Start (Colonial)			75596	48170	34196	28246	48938	46819	40874	32783	84712	36919	19991	50573	63066	37151	27359
Coyote	Buffer	1	75403	47977	34004	28053	48745	46626	40681	32591	84520	36726	19798	50380	62874	36958	27167
Crismon	Buffer	1	73773	46347	32374	26423	47115	44996	39051	30961	82889	35096	18168	48750	61243	35328	25536
Scottsdale	Buffer	1	73181	45755	31782	25831	46523	44404	38459	30369	82298	34504	17576	48158	60652	34736	24945
Sedimento	Buffer	1	69856	42430	28456	22506	43198	41079	35134	27044	78972	31179	14251	44833	57326	31411	21619
Canal System 2	Buffer	1	58200	30774	16801	10851	31543	29423	23478	15388	67317	19523	2595	33177	45671	19755	9964
Start (Colonial)			75596	48170	34196	28246	48938	46819	40874	32783	84712	36919	19991	50573	63066	37151	27359
Coyote	SIU	2	75484	48058	34084	28134	48826	46707	40761	32671	84600	36807	19879	50460	62954	37039	27247
Crismon	SIU	2	74538	47112	33138	27188	47880	45761	39815	31725	83654	35861	18933	49514	62008	36093	26301
Scottsdale	SIU	2	74194	46768	32795	26845	47537	45417	39472	31382	83311	35517	18589	49171	61665	35749	25958
Sedimento	SIU	2	72265	44839	30865	24915	45607	43488	37543	29453	81381	33588	16660	47242	59735	33820	24028
Canal System 2	SIU	2	58341	30915	16942	10991	31683	29564	23619	15529	67457	19664	2736	33318	45812	19896	10104
Start (Colonial)			75596	48170	34196	28246	48938	46819	40874	32783	84712	36919	19991	50573	63066	37151	27359
Coyote	Buffer	2	75211	47785	33811	27861	48553	46434	40489	32398	84327	36534	19606	50188	62681	36766	26974
Crismon	Buffer	2	71950	44524	30551	24601	45293	43173	37228	29138	81067	33273	16345	46927	59421	33505	23714
Scottsdale	Buffer	2	70767	43341	29367	23417	44109	41990	36045	27954	79883	32090	15162	45744	58237	32322	22530
Sedimento	Buffer	2	64116	36690	22717	16766	37458	35339	29394	21304	73232	25439	8511	39093	51587	25671	15879
Canal System 2	Buffer	2	40805	13379	-595	-6545	14147	12028	6083	-2007	49921	2128	-14800	15782	28275	2360	-7432

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	980 Plant 2	981 Plant 2	982 Plant 2	983 Plant 2	984 Plant 2	985 Plant 2	986 Plant 2	987 Plant 2	988 Plant 2	989 Plant 2	990 Plant 2	991 Plant 2	992 Plant 2	993 Plant 2	994 Plant 2
Start (Colonial)			19790	23208	55626	50325	23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820
Coyote	SIU	1	19734	23152	55570	50269	23725	41163	59344	58400	78613	75096	28329	25405	61236	23193	51764
Crismon	SIU	1	19261	22679	55097	49796	23252	40690	58871	57927	78140	74623	27856	24932	60763	22720	51291
Scottsdale	SIU	1	19089	22508	54925	49624	23080	40518	58699	57756	77968	74452	27684	24761	60592	22549	51120
Sedimento	SIU	1	18124	21543	53960	48660	22115	39554	57735	56791	77004	73487	26720	23796	59627	21584	50155
Canal System 2	SIU	1	11162	14581	46998	41698	15153	32592	50773	49829	70042	66525	19758	16834	52665	14622	43193
Start (Colonial)			19790	23208	55626	50325	23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820
Coyote	Buffer	1	19597	23016	55433	50133	23588	41027	59208	58264	78476	74960	28193	25269	61100	23057	51628
Crismon	Buffer	1	17967	21386	53803	48502	21958	39396	57577	56634	76846	73330	26562	23639	59470	21427	49998
Scottsdale	Buffer	1	17375	20794	53211	47911	21366	38805	56986	56042	76254	72738	25971	23047	58878	20835	49406
Sedimento	Buffer	1	14050	17468	49886	44585	18041	35479	53660	52717	72929	69413	22645	19722	55553	17510	46081
Canal System 2	Buffer	1	2394	5813	38230	32930	6385	23824	42005	41061	61274	57757	10990	8066	43897	5854	34425
Start (Colonial)			19790	23208	55626	50325	23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820
Coyote	SIU	2	19677	23096	55513	50213	23668	41107	59288	58344	78557	75040	28273	25349	61180	23137	51708
Crismon	SIU	2	18731	22150	54567	49267	22722	40161	58342	57398	77611	74094	27327	24403	60234	22191	50762
Scottsdale	SIU	2	18388	21807	54224	48924	22379	39818	57999	57055	77268	73751	26984	24060	59891	21848	50419
Sedimento	SIU	2	16459	19877	52295	46994	20450	37888	56069	55126	75338	71822	25054	22131	57962	19919	48490
Canal System 2	SIU	2	2535	5954	38371	33070	6526	23964	42145	41202	61414	57898	11131	8207	44038	5995	34566
Start (Colonial)			19790	23208	55626	50325	23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820
Coyote	Buffer	2	19405	22823	55241	49940	23396	40834	59015	58071	78284	74767	28000	25077	60907	22865	51435
Crismon	Buffer	2	16144	19563	51980	46680	20135	37574	55755	54811	75024	71507	24740	21816	57647	19604	48175
Scottsdale	Buffer	2	14961	18379	50797	45496	18952	36390	54571	53627	73840	70323	23556	20633	56463	18421	46991
Sedimento	Buffer	2	8310	11729	44146	38845	12301	29739	47920	46977	67189	63673	16906	13982	49813	11770	40341
Canal System 2	Buffer	2	-15001	-11583	20835	15534	-11010	6428	24609	23666	43878	40362	-6406	-9329	26502	-11541	17030

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	995 Plant 2	996 Plant 2	997 Plant 2	998 Plant 2	999 Plant 2	Total Deficits	800 Silk 2	801 Silk 2	802 Silk 2	803 Silk 2	804 Silk 2	805 Silk 2	806 Silk 2	807 Silk 2
Start (Colonial)			45550	45963	39652	46133	37950		46502	71957	46546	96039	74838	96727	50464	41538
Coyote	SIU	1	45494	45907	39595	46077	37894	0	46446	71900	46490	95983	74782	96671	50408	41482
Crismon	SIU	1	45021	45434	39122	45604	37421	0	45973	71427	46017	95510	74309	96198	49935	41009
Scottsdale	SIU	1	44850	45262	38951	45432	37249	0	45801	71256	45845	95338	74137	96027	49763	40837
Sedimento	SIU	1	43885	44297	37986	44468	36285	0	44836	70291	44880	94374	73172	95062	48799	39872
Canal System 2	SIU	1	36923	37336	31024	37506	29323	1	37874	63329	37919	87412	66211	88100	41837	32911
Start (Colonial)			45550	45963	39652	46133	37950		46502	71957	46546	96039	74838	96727	50464	41538
Coyote	Buffer	1	45358	45770	39459	45940	37758	0	46309	71764	46353	95847	74645	96535	50272	41345
Crismon	Buffer	1	43728	44140	37829	44310	36127	0	44679	70134	44723	94216	73015	94905	48641	39715
Scottsdale	Buffer	1	43136	43548	37237	43718	35536	0	44087	69542	44131	93625	72423	94313	48050	39123
Sedimento	Buffer	1	39811	40223	33912	40393	32210	0	40762	66217	40806	90299	69098	90988	44724	35798
Canal System 2	Buffer	1	28155	28567	22256	28738	20555	2	29106	54561	29150	78644	57442	79332	33069	24142
Start (Colonial)			45550	45963	39652	46133	37950		46502	71957	46546	96039	74838	96727	50464	41538
Coyote	SIU	2	45438	45851	39539	46021	37838	0	46390	71844	46434	95927	74726	96615	50352	41426
Crismon	SIU	2	44492	44905	38593	45075	36892	0	45444	70898	45488	94981	73780	95669	49406	40480
Scottsdale	SIU	2	44149	44561	38250	44732	36549	0	45100	70555	45144	94638	73436	95326	49063	40136
Sedimento	SIU	2	42220	42632	36321	42802	34619	0	43171	68626	43215	92708	71507	93397	47133	38207
Canal System 2	SIU	2	28296	28708	22397	28878	20695	2	29247	54702	29291	78785	57583	79473	33209	24283
Start (Colonial)			45550	45963	39652	46133	37950		46502	71957	46546	96039	74838	96727	50464	41538
Coyote	Buffer	2	45165	45578	39267	45748	37565	0	46117	71572	46161	95654	74453	96342	50079	41153
Crismon	Buffer	2	41905	42317	36006	42488	34305	0	42856	68311	42900	92394	71192	93082	46819	37892
Scottsdale	Buffer	2	40721	41134	34823	41304	33121	0	41673	67128	41717	91210	70009	91898	45635	36709
Sedimento	Buffer	2	34071	34483	28172	34653	26470	1	35022	60477	35066	84560	63358	85248	38984	30058
Canal System 2	Buffer	2	10760	11172	4861	11342	3159	51	11711	37166	11755	61248	40047	61937	15673	6747

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	808 Silk 2	809 Silk 2	810 Silk 2	811 Silk 2	812 Silk 2	813 Silk 2	814 Silk 2	815 Silk 2	816 Silk 2	817 Silk 2	818 Silk 2	819 Silk 2	820 Silk 2	821 Silk 2	822 Silk 2
Start (Colonial)			18144	15977	67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927
Coyote	SIU	1	18087	15921	67325	46737	55054	51820	47280	35446	31364	29207	22813	43392	61527	56832	80871
Crismon	SIU	1	17614	15448	66852	46264	54581	51347	46807	34973	30891	28734	22340	42919	61054	56359	80398
Scottsdale	SIU	1	17443	15276	66680	46092	54410	51175	46635	34801	30720	28562	22168	42748	60882	56188	80226
Sedimento	SIU	1	16478	14312	65716	45128	53445	50211	45670	33836	29755	27597	21204	41783	59918	55223	79261
Canal System 2	SIU	1	9516	7350	58754	38166	46483	43249	38708	26874	22793	20635	14242	34821	52956	48261	72300
Start (Colonial)			18144	15977	67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927
Coyote	Buffer	1	17951	15785	67188	46600	54918	51683	47143	35309	31228	29070	22677	43256	61391	56696	80734
Crismon	Buffer	1	16321	14154	65558	44970	53288	50053	45513	33679	29598	27440	21046	41626	59760	55066	79104
Scottsdale	Buffer	1	15729	13563	64966	44378	52696	49461	44921	33087	29006	26848	20455	41034	59169	54474	78512
Sedimento	Buffer	1	12404	10237	61641	41053	49370	46136	41596	29762	25681	23523	17129	37709	55843	51149	75187
Canal System 2	Buffer	1	748	-1418	49986	29398	37715	34481	29940	18106	14025	11867	5474	26053	44188	39493	63531
Start (Colonial)			18144	15977	67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927
Coyote	SIU	2	18031	15865	67269	46681	54998	51764	47223	35390	31308	29150	22757	43336	61471	56776	80815
Crismon	SIU	2	17085	14919	66323	45735	54052	50818	46277	34444	30362	28204	21811	42390	60525	55830	79869
Scottsdale	SIU	2	16742	14576	65980	45392	53709	50475	45934	34100	30019	27861	21468	42047	60182	55487	79525
Sedimento	SIU	2	14813	12646	64050	43462	51779	48545	44005	32171	28090	25932	19538	40118	58252	53558	77596
Canal System 2	SIU	2	889	-1277	50126	29538	37856	34621	30081	18247	14166	12008	5615	26194	44329	39634	63672
Start (Colonial)			18144	15977	67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927
Coyote	Buffer	2	17759	15592	66996	46408	54725	51491	46951	35117	31035	28878	22484	43063	61198	56503	80542
Crismon	Buffer	2	14498	12332	63736	43148	51465	48231	43690	31856	27775	25617	19224	39803	57938	53243	77281
Scottsdale	Buffer	2	13315	11148	62552	41964	50281	47047	42507	30673	26591	24434	18040	38619	56754	52059	76098
Sedimento	Buffer	2	6664	4498	55901	35313	43631	40396	35856	24022	19941	17783	11390	31969	50104	45409	69447
Canal System 2	Buffer	2	-16647	-18814	32590	12002	20319	17085	12545	711	-3370	-5528	-11922	8658	26792	22098	46136

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	823 Silk 2	824 Silk 2	825 Silk 2	826 Silk 2	827 Silk 2	828 Silk 2	829 Silk 2	830 Silk 2	831 Silk 2	832 Silk 2	833 Silk 2	834 Silk 2	835 Silk 2	836 Silk 2	837 Silk 2
Start (Colonial)			22966	36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	SIU	1	22910	36218	17434	57278	45881	29317	34978	18264	56404	35194	53823	65520	50439	55451	31925
Crismon	SIU	1	22437	35745	16961	56805	45408	28844	34505	17791	55931	34721	53350	65047	49966	54978	31452
Scottsdale	SIU	1	22266	35573	16790	56633	45236	28672	34333	17619	55760	34550	53178	64876	49794	54807	31280
Sedimento	SIU	1	21301	34609	15825	55669	44272	27708	33369	16655	54795	33585	52214	63911	48830	53842	30315
Canal System 2	SIU	1	14339	27647	8863	48707	37310	20746	26407	9693	47833	26623	45252	56949	41868	46880	23353
Start (Colonial)			22966	36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	Buffer	1	22774	36081	17298	57142	45744	29180	34842	18128	56268	35058	53687	65384	50302	55315	31788
Crismon	Buffer	1	21144	34451	15668	55511	44114	27550	33211	16497	54638	33428	52056	63754	48672	53685	30158
Scottsdale	Buffer	1	20552	33859	15076	54920	43522	26958	32620	15906	54046	32836	51465	63162	48080	53093	29566
Sedimento	Buffer	1	17226	30534	11751	51594	40197	23633	29294	12580	50721	29510	48139	59837	44755	49768	26241
Canal System 2	Buffer	1	5571	18879	95	39939	28542	11978	17639	925	39065	17855	36484	48181	33100	38112	14585
Start (Colonial)			22966	36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	SIU	2	22854	36162	17378	57222	45825	29261	34922	18208	56348	35138	53767	65464	50383	55395	31868
Crismon	SIU	2	21908	35216	16432	56276	44879	28315	33976	17262	55402	34192	52821	64518	49437	54449	30922
Scottsdale	SIU	2	21565	34873	16089	55933	44536	27972	33633	16919	55059	33849	52478	64175	49094	54106	30579
Sedimento	SIU	2	19635	32943	14160	54003	42606	26042	31703	14989	53130	31919	50548	62246	47164	52177	28650
Canal System 2	SIU	2	5712	19019	236	40079	28682	12118	17779	1065	39206	17996	36625	48322	33240	38253	14726
Start (Colonial)			22966	36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	Buffer	2	22581	35889	17106	56949	45552	28988	34649	17935	56075	34865	53494	65191	50110	55122	31596
Crismon	Buffer	2	19321	32629	13845	53689	42292	25728	31389	14675	52815	31605	50234	61931	46850	51862	28335
Scottsdale	Buffer	2	18137	31445	12662	52505	41108	24544	30205	13491	51631	30421	49050	60747	45666	50678	27152
Sedimento	Buffer	2	11487	24794	6011	45854	34457	17893	23554	6840	44981	23771	42400	54097	39015	44028	20501
Canal System 2	Buffer	2	-11825	1483	-17300	22543	11146	-5418	243	-16471	21670	459	19088	30786	15704	20717	-2810

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	838 Silk 2	839 Silk 2	840 Silk 2	841 Silk 2	842 Silk 2	843 Silk 2	844 Silk 2	845 Silk 2	846 Silk 2	847 Silk 2	848 Silk 2	849 Silk 2	850 Silk 2	851 Silk 2	852 Silk 2
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655	58772
Coyote	SIU	1	5428	26136	16173	37334	40643	51855	40087	51087	33659	18330	48718	25999	48709	34598	58716
Crismon	SIU	1	4955	25663	15700	36861	40170	51382	39614	50614	33186	17857	48245	25526	48236	34125	58243
Scottsdale	SIU	1	4784	25491	15528	36690	39999	51211	39443	50443	33014	17686	48073	25354	48065	33954	58072
Sedimento	SIU	1	3819	24526	14563	35725	39034	50246	38478	49478	32049	16721	47109	24390	47100	32989	57107
Canal System 2	SIU	1	-3143	17564	7601	28763	32072	43284	31516	42516	25087	9759	40147	17428	40138	26027	50145
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655	58772
Coyote	Buffer	1	5292	25999	16036	37198	40507	51719	39951	50951	33522	18194	48582	25862	48573	34462	58580
Crismon	Buffer	1	3662	24369	14406	35568	38877	50089	38321	49321	31892	16564	46951	24232	46943	32832	56950
Scottsdale	Buffer	1	3070	23777	13814	34976	38285	49497	37729	48729	31300	15972	46360	23640	46351	32240	56358
Sedimento	Buffer	1	-255	20452	10489	31650	34960	46171	34404	45404	27975	12646	43034	20315	43025	28915	53033
Canal System 2	Buffer	1	-11911	8796	-1167	19995	23304	34516	22748	33748	16319	991	31379	8660	31370	17259	41377
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655	58772
Coyote	SIU	2	5372	26079	16116	37278	40587	51799	40031	51031	33603	18274	48662	25943	48653	34542	58660
Crismon	SIU	2	4426	25133	15170	36332	39641	50853	39085	50085	32657	17328	47716	24997	47707	33596	57714
Scottsdale	SIU	2	4083	24790	14827	35989	39298	50510	38742	49742	32313	16985	47373	24654	47364	33253	57371
Sedimento	SIU	2	2154	22861	12898	34059	37369	48580	36813	47813	30384	15055	45443	22724	45434	31324	55442
Canal System 2	SIU	2	-11770	8937	-1026	20136	23445	34657	22889	33889	16460	1132	31519	8800	31511	17400	41518
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655	58772
Coyote	Buffer	2	5100	25807	15844	37005	40314	51526	39759	50759	33330	18001	48389	25670	48380	34270	58387
Crismon	Buffer	2	1839	22546	12583	33745	37054	48266	36498	47498	30069	14741	45129	22410	45120	31009	55127
Scottsdale	Buffer	2	656	21363	11400	32561	35870	47082	35315	46315	28886	13557	43945	21226	43936	29826	53943
Sedimento	Buffer	2	-5995	14712	4749	25911	29220	40432	28664	39664	22235	6907	37294	14575	37286	23175	47293
Canal System 2	Buffer	2	-29306	-8599	-18562	2599	5909	17120	5353	16353	-1076	-16405	13983	-8736	13974	-136	23982

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	853 Silk 2	854 Silk 2	855 Silk 2	856 Silk 2	857 Silk 2	858 Silk 2	859 Silk 2	860 Silk 2	861 Silk 2	862 Silk 2	863 Silk 2	864 Silk 2	865 Silk 2	866 Silk 2	867 Silk 2
Start (Colonial)			34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574	37399	25512
Coyote	SIU	1	34696	65061	32423	65092	39836	55685	46101	32900	51723	49261	45881	36694	25518	37343	25456
Crismon	SIU	1	34223	64588	31950	64619	39363	55212	45628	32427	51250	48788	45408	36221	25045	36870	24983
Scottsdale	SIU	1	34051	64417	31779	64448	39191	55040	45457	32255	51078	48616	45236	36050	24873	36698	24811
Sedimento	SIU	1	33086	63452	30814	63483	38227	54076	44492	31290	50113	47651	44272	35085	23909	35734	23847
Canal System 2	SIU	1	26124	56490	23852	56521	31265	47114	37530	24329	43152	40690	37310	28123	16947	28772	16885
Start (Colonial)			34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574	37399	25512
Coyote	Buffer	1	34559	64925	32287	64956	39700	55549	45965	32763	51586	49124	45744	36558	25381	37207	25320
Crismon	Buffer	1	32929	63295	30657	63326	38069	53918	44335	31133	49956	47494	44114	34928	23751	35576	23689
Scottsdale	Buffer	1	32337	62703	30065	62734	37478	53327	43743	30541	49364	46902	43522	34336	23159	34985	23098
Sedimento	Buffer	1	29012	59378	26739	59409	34152	50001	40418	27216	46039	43577	40197	31011	19834	31659	19772
Canal System 2	Buffer	1	17356	47722	15084	47753	22497	38346	28762	15560	34383	31921	28542	19355	8179	20004	8117
Start (Colonial)			34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574	37399	25512
Coyote	SIU	2	34639	65005	32367	65036	39780	55629	46045	32844	51667	49205	45825	36638	25462	37287	25400
Crismon	SIU	2	33693	64059	31421	64090	38834	54683	45099	31898	50721	48259	44879	35692	24516	36341	24454
Scottsdale	SIU	2	33350	63716	31078	63747	38491	54340	44756	31554	50377	47915	44536	35349	24173	35998	24111
Sedimento	SIU	2	31421	61787	29148	61818	36561	52410	42827	29625	48448	45986	42606	33420	22243	34068	22181
Canal System 2	SIU	2	17497	47863	15225	47894	22637	38487	28903	15701	34524	32062	28682	19496	8319	20144	8258
Start (Colonial)			34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574	37399	25512
Coyote	Buffer	2	34367	64732	32094	64763	39507	55356	45773	32571	51394	48932	45552	36365	25189	37014	25127
Crismon	Buffer	2	31106	61472	28834	61503	36247	52096	42512	29310	48133	45671	42292	33105	21929	33754	21867
Scottsdale	Buffer	2	29923	60288	27650	60319	35063	50912	41329	28127	46950	44488	41108	31921	20745	32570	20683
Sedimento	Buffer	2	23272	53638	21000	53669	28412	44262	34678	21476	40299	37837	34457	25271	14094	25919	14033
Canal System 2	Buffer	2	-39	30327	-2312	30358	5101	20950	11367	-1835	16988	14526	11146	1960	-9217	2608	-9279

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	868 Silk 2	869 Silk 2	870 Silk 2	871 Silk 2	872 Silk 2	873 Silk 2	874 Silk 2	875 Silk 2	876 Silk 2	877 Silk 2	878 Silk 2	879 Silk 2	880 Silk 2	881 Silk 2	882 Silk 2
Start (Colonial)			40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444	56403	52763	35422
Coyote	SIU	1	40361	64960	32110	39898	32353	64245	39995	51798	64748	41261	31616	32388	56347	52707	35366
Crismon	SIU	1	39888	64487	31637	39425	31880	63772	39522	51325	64275	40788	31143	31915	55874	52234	34893
Scottsdale	SIU	1	39716	64315	31465	39253	31708	63600	39350	51153	64103	40617	30971	31743	55702	52062	34722
Sedimento	SIU	1	38752	63351	30501	38288	30743	62636	38385	50189	63139	39652	30006	30779	54738	51097	33757
Canal System 2	SIU	1	31790	56389	23539	31327	23781	55674	31424	43227	56177	32690	23045	23817	47776	44136	26795
Start (Colonial)			40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444	56403	52763	35422
Coyote	Buffer	1	40225	64823	31974	39761	32216	64109	39858	51661	64612	41125	31479	32251	56211	52570	35230
Crismon	Buffer	1	38594	63193	30343	38131	30586	62478	38228	50031	62981	39495	29849	30621	54580	50940	33600
Scottsdale	Buffer	1	38003	62601	29752	37539	29994	61887	37636	49439	62390	38903	29257	30029	53989	50348	33008
Sedimento	Buffer	1	34677	59276	26426	34214	26669	58561	34311	46114	59064	35577	25932	26704	50663	47023	29683
Canal System 2	Buffer	1	23022	47621	14771	22558	15013	46906	22655	34459	47409	23922	14276	15049	39008	35367	18027
Start (Colonial)			40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444	56403	52763	35422
Coyote	SIU	2	40305	64904	32054	39842	32296	64189	39939	51742	64692	41205	31560	32332	56291	52651	35310
Crismon	SIU	2	39359	63958	31108	38896	31350	63243	38993	50796	63746	40259	30614	31386	55345	51705	34364
Scottsdale	SIU	2	39016	63615	30765	38552	31007	62900	38649	50453	63403	39916	30270	31043	55002	51361	34021
Sedimento	SIU	2	37086	61685	28835	36623	29078	60970	36720	48523	61473	37986	28341	29113	53072	49432	32092
Canal System 2	SIU	2	23163	47761	14911	22699	15154	47047	22796	34599	47550	24063	14417	15189	39148	35508	18168
Start (Colonial)			40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444	56403	52763	35422
Coyote	Buffer	2	40032	64631	31781	39569	32024	63916	39666	51469	64419	40932	31287	32059	56018	52378	35037
Crismon	Buffer	2	36772	61371	28521	36308	28763	60656	36405	48209	61159	37672	28026	28799	52758	49117	31777
Scottsdale	Buffer	2	35588	60187	27337	35125	27580	59472	35222	47025	59975	36488	26843	27615	51574	47934	30593
Sedimento	Buffer	2	28938	53536	20686	28474	20929	52822	28571	40374	53325	29838	20192	20964	44923	41283	23943
Canal System 2	Buffer	2	5626	30225	-2625	5163	-2382	29510	5260	17063	30013	6526	-3119	-2347	21612	17972	632

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	883 Silk 2	884 Silk 2	885 Silk 2	886 Silk 2	887 Silk 2	888 Silk 2	889 Silk 2	890 Silk 2	891 Silk 2	892 Silk 2	893 Silk 2	894 Silk 2	895 Silk 2	896 Silk 2	897 Silk 2
Start (Colonial)			23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395	29033	28221	36331	63785
Coyote	SIU	1	23131	19685	42439	32569	45828	83403	23360	60071	57256	24794	51339	28977	28165	36275	63729
Crismon	SIU	1	22658	19212	41966	32096	45355	82930	22887	59598	56783	24321	50866	28504	27692	35802	63256
Scottsdale	SIU	1	22486	19040	41795	31924	45183	82759	22716	59426	56611	24150	50694	28333	27521	35631	63084
Sedimento	SIU	1	21521	18075	40830	30959	44219	81794	21751	58462	55647	23185	49730	27368	26556	34666	62119
Canal System 2	SIU	1	14560	11114	33868	23998	37257	74832	14789	51500	48685	16223	42768	20406	19594	27704	55158
Start (Colonial)			23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395	29033	28221	36331	63785
Coyote	Buffer	1	22994	19548	42303	32432	45692	83267	23224	59935	57119	24658	51203	28841	28029	36139	63592
Crismon	Buffer	1	21364	17918	40673	30802	44061	81637	21594	58304	55489	23028	49572	27211	26399	34509	61962
Scottsdale	Buffer	1	20772	17326	40081	30210	43470	81045	21002	57713	54897	22436	48981	26619	25807	33917	61370
Sedimento	Buffer	1	17447	14001	36756	26885	40144	77720	17677	54387	51572	19111	45655	23293	22482	30591	58045
Canal System 2	Buffer	1	5791	2345	25100	15229	28489	66064	6021	42732	39917	7455	34000	11638	10826	18936	46389
Start (Colonial)			23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395	29033	28221	36331	63785
Coyote	SIU	2	23075	19629	42383	32513	45772	83347	23304	60015	57200	24738	51283	28921	28109	36219	63673
Crismon	SIU	2	22129	18683	41437	31567	44826	82401	22358	59069	56254	23792	50337	27975	27163	35273	62727
Scottsdale	SIU	2	21785	18339	41094	31223	44483	82058	22015	58726	55911	23449	49994	27632	26820	34930	62383
Sedimento	SIU	2	19856	16410	39165	29294	42553	80129	20086	56796	53981	21520	48064	25702	24891	33000	60454
Canal System 2	SIU	2	5932	2486	25241	15370	28629	66205	6162	42872	40057	7596	34140	11779	10967	19077	46530
Start (Colonial)			23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395	29033	28221	36331	63785
Coyote	Buffer	2	22802	19356	42110	32240	45499	83075	23031	59742	56927	24465	51010	28648	27836	35946	63400
Crismon	Buffer	2	19541	16095	38850	28979	42239	79814	19771	56482	53667	21205	47750	25388	24576	32686	60139
Scottsdale	Buffer	2	18358	14912	37666	27796	41055	78631	18587	55298	52483	20021	46566	24204	23392	31502	58956
Sedimento	Buffer	2	11707	8261	31016	21145	34404	71980	11937	48647	45832	13371	39915	17554	16742	24852	52305
Canal System 2	Buffer	2	-11604	-15050	7705	-2166	11093	48669	-11374	25336	22521	-9940	16604	-5758	-6569	1540	28994

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	898 Silk 2	899 Silk 2	900 Silk 2	901 Silk 2	902 Silk 2	903 Silk 2	904 Silk 2	905 Silk 2	906 Silk 2	907 Silk 2	908 Silk 2	909 Silk 2	910 Silk 2	911 Silk 2	912 Silk 2
Start (Colonial)			64253	114712	19203	34796	26461	21815	22384	39504	26333	23434	42072	41864	28468	51166	50830
Coyote	SIU	1	64197	114656	19146	34740	26405	21759	22328	39448	26277	23378	42016	41808	28412	51109	50774
Crismon	SIU	1	63724	114183	18673	34267	25932	21286	21855	38975	25804	22905	41543	41335	27939	50636	50301
Scottsdale	SIU	1	63552	114012	18502	34095	25760	21114	21683	38803	25632	22733	41371	41164	27768	50465	50130
Sedimento	SIU	1	62587	113047	17537	33130	24795	20149	20718	37838	24667	21769	40406	40199	26803	49500	49165
Canal System 2	SIU	1	55625	106085	10575	26168	17834	13187	13757	30876	17706	14807	33444	33237	19841	42538	42203
Start (Colonial)			64253	114712	19203	34796	26461	21815	22384	39504	26333	23434	42072	41864	28468	51166	50830
Coyote	Buffer	1	64060	114520	19010	34603	26268	21622	22191	39311	26140	23241	41879	41672	28276	50973	50638
Crismon	Buffer	1	62430	112890	17380	32973	24638	19992	20561	37681	24510	21611	40249	40042	26646	49343	49008
Scottsdale	Buffer	1	61838	112298	16788	32381	24046	19400	19969	37089	23918	21019	39657	39450	26054	48751	48416
Sedimento	Buffer	1	58513	108972	13463	29056	20721	16075	16644	33764	20593	17694	36332	36125	22729	45426	45090
Canal System 2	Buffer	1	46857	97317	1807	17400	9065	4419	4988	22108	8937	6039	24676	24469	11073	33770	33435
Start (Colonial)			64253	114712	19203	34796	26461	21815	22384	39504	26333	23434	42072	41864	28468	51166	50830
Coyote	SIU	2	64140	114600	19090	34684	26349	21702	22272	39392	26221	23322	41960	41752	28356	51053	50718
Crismon	SIU	2	63194	113654	18144	33738	25403	20756	21326	38446	25275	22376	41014	40806	27410	50107	49772
Scottsdale	SIU	2	62851	113311	17801	33394	25059	20413	20982	38102	24931	22033	40670	40463	27067	49764	49429
Sedimento	SIU	2	60922	111381	15872	31465	23130	18484	19053	36173	23002	20103	38741	38534	25138	47835	47499
Canal System 2	SIU	2	46998	97458	1948	17541	9206	4560	5129	22249	9078	6179	24817	24610	11214	33911	33576
Start (Colonial)			64253	114712	19203	34796	26461	21815	22384	39504	26333	23434	42072	41864	28468	51166	50830
Coyote	Buffer	2	63868	114327	18818	34411	26076	21430	21999	39119	25948	23049	41687	41479	28083	50781	50445
Crismon	Buffer	2	60607	111067	15557	31150	22815	18169	18738	35858	22687	19789	38426	38219	24823	47520	47185
Scottsdale	Buffer	2	59424	109883	14374	29967	21632	16986	17555	34675	21504	18605	37243	37035	23639	46337	46001
Sedimento	Buffer	2	52773	103233	7723	23316	14981	10335	10904	28024	14853	11954	30592	30385	16989	39686	39351
Canal System 2	Buffer	2	29462	79921	-15588	5	-8330	-12976	-12407	4713	-8458	-11357	7281	7074	-6322	16375	16039

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	913 Silk 2	914 Silk 2	915 Silk 2	916 Silk 2	917 Silk 2	918 Silk 2	919 Silk 2	920 Silk 2	921 Silk 2	922 Silk 2	923 Silk 2	924 Silk 2	925 Silk 2	926 Silk 2	927 Silk 2
Start (Colonial)			38921	40580	57272	27780	63516	36190	35674	17716	32612	21740	27039	21881	34310	54400	40091
Coyote	SIU	1	38865	40524	57216	27724	63460	36134	35618	17659	32556	21684	26983	21825	34254	54344	40034
Crismon	SIU	1	38392	40051	56743	27251	62987	35661	35145	17186	32083	21211	26510	21352	33781	53871	39561
Scottsdale	SIU	1	38221	39880	56572	27079	62815	35489	34973	17015	31911	21039	26338	21180	33610	53699	39390
Sedimento	SIU	1	37256	38915	55607	26115	61850	34525	34008	16050	30946	20074	25373	20215	32645	52734	38425
Canal System 2	SIU	1	30294	31953	48645	19153	54888	27563	27047	9088	23984	13112	18412	13254	25683	45773	31463
Start (Colonial)			38921	40580	57272	27780	63516	36190	35674	17716	32612	21740	27039	21881	34310	54400	40091
Coyote	Buffer	1	38729	40388	57080	27588	63323	35998	35481	17523	32419	21547	26846	21688	34118	54207	39898
Crismon	Buffer	1	37099	38758	55450	25957	61693	34367	33851	15893	30789	19917	25216	20058	32488	52577	38268
Scottsdale	Buffer	1	36507	38166	54858	25366	61101	33776	33259	15301	30197	19325	24624	19466	31896	51985	37676
Sedimento	Buffer	1	33182	34841	51532	22040	57776	30450	29934	11976	26872	16000	21299	16141	28571	48660	34351
Canal System 2	Buffer	1	21526	23185	39877	10385	46120	18795	18278	320	15216	4344	9643	4485	16915	37004	22695
Start (Colonial)			38921	40580	57272	27780	63516	36190	35674	17716	32612	21740	27039	21881	34310	54400	40091
Coyote	SIU	2	38809	40468	57160	27668	63404	36078	35562	17603	32499	21627	26927	21769	34198	54288	39978
Crismon	SIU	2	37863	39522	56214	26722	62458	35132	34616	16657	31553	20681	25981	20823	33252	53342	39032
Scottsdale	SIU	2	37520	39179	55871	26379	62114	34789	34272	16314	31210	20338	25637	20479	32909	52998	38689
Sedimento	SIU	2	35591	37250	53941	24449	60185	32859	32343	14385	29281	18409	23708	18550	30980	51069	36760
Canal System 2	SIU	2	21667	23326	40018	10526	46261	18935	18419	461	15357	4485	9784	4626	17056	37145	22836
Start (Colonial)			38921	40580	57272	27780	63516	36190	35674	17716	32612	21740	27039	21881	34310	54400	40091
Coyote	Buffer	2	38536	40195	56887	27395	63131	35805	35289	17331	32227	21355	26654	21496	33925	54015	39706
Crismon	Buffer	2	35276	36935	53627	24135	59870	32545	32028	14070	28966	18094	23393	18235	30665	50754	36445
Scottsdale	Buffer	2	34092	35751	52443	22951	58687	31361	30845	12887	27783	16911	22210	17052	29481	49571	35262
Sedimento	Buffer	2	27442	29101	45793	16301	52036	24710	24194	6236	21132	10260	15559	10401	22831	42920	28611
Canal System 2	Buffer	2	4131	5790	22481	-7011	28725	1399	883	-17075	-2179	-13051	-7752	-12910	-480	19609	5300

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	928 Silk 2	929 Silk 2	930 Silk 2	931 Silk 2	932 Silk 2	933 Silk 2	934 Silk 2	935 Silk 2	936 Silk 2	937 Silk 2	938 Silk 2	939 Silk 2	940 Silk 2	941 Silk 2	942 Silk 2
Start (Colonial)			78765	64985	40960	65166	48174	28371	29474	32506	43876	24091	62095	43837	52767	60873	69106
Coyote	SIU	1	78709	64929	40904	65110	48118	28315	29418	32450	43820	24035	62039	43781	52711	60817	69050
Crismon	SIU	1	78236	64456	40431	64637	47645	27842	28945	31977	43347	23562	61566	43308	52238	60344	68577
Scottsdale	SIU	1	78064	64284	40259	64465	47473	27671	28774	31805	43176	23391	61394	43136	52067	60172	68405
Sedimento	SIU	1	77099	63320	39294	63501	46509	26706	27809	30840	42211	22426	60430	42171	51102	59207	67441
Canal System 2	SIU	1	70138	56358	32333	56539	39547	19744	20847	23878	35249	15464	53468	35209	44140	52245	60479
Start (Colonial)			78765	64985	40960	65166	48174	28371	29474	32506	43876	24091	62095	43837	52767	60873	69106
Coyote	Buffer	1	78572	64793	40767	64973	47982	28179	29282	32313	43684	23899	61902	43644	52575	60680	68914
Crismon	Buffer	1	76942	63162	39137	63343	46351	26549	27652	30683	42054	22269	60272	42014	50945	59050	67283
Scottsdale	Buffer	1	76350	62571	38545	62751	45760	25957	27060	30091	41462	21677	59680	41422	50353	58458	66692
Sedimento	Buffer	1	73025	59245	35220	59426	42434	22632	23735	26766	38137	18352	56355	38097	47027	55133	63366
Canal System 2	Buffer	1	61369	47590	23564	47771	30779	10976	12079	15110	26481	6696	44700	26441	35372	43477	51711
Start (Colonial)			78765	64985	40960	65166	48174	28371	29474	32506	43876	24091	62095	43837	52767	60873	69106
Coyote	SIU	2	78653	64873	40848	65054	48062	28259	29362	32394	43764	23979	61983	43724	52655	60761	68994
Crismon	SIU	2	77707	63927	39902	64108	47116	27313	28416	31448	42818	23033	61037	42778	51709	59815	68048
Scottsdale	SIU	2	77363	63584	39558	63765	46773	26970	28073	31104	42475	22690	60694	42435	51366	59471	67705
Sedimento	SIU	2	75434	61654	37629	61835	44843	25041	26144	29175	40546	20761	58764	40506	49436	57542	65775
Canal System 2	SIU	2	61510	47730	23705	47911	30919	11117	12220	15251	26622	6837	44840	26582	35513	43618	51852
Start (Colonial)			78765	64985	40960	65166	48174	28371	29474	32506	43876	24091	62095	43837	52767	60873	69106
Coyote	Buffer	2	78380	64600	40575	64781	47789	27986	29089	32121	43491	23706	61710	43452	52382	60488	68721
Crismon	Buffer	2	75119	61340	37314	61521	44529	24726	25829	28860	40231	20446	58450	40191	49122	57227	65461
Scottsdale	Buffer	2	73936	60156	36131	60337	43345	23542	24645	27677	39047	19262	57266	39008	47938	56044	64277
Sedimento	Buffer	2	67285	53505	29480	53686	36694	16892	17995	21026	32397	12612	50615	32357	41288	49393	57627
Canal System 2	Buffer	2	43974	30194	6169	30375	13383	-6419	-5316	-2285	9086	-10699	27304	9046	17976	26082	34315

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	943 Silk 2	944 Silk 2	945 Silk 2	946 Silk 2	947 Silk 2	948 Silk 2	949 Silk 2	950 Silk 2	951 Silk 2	952 Silk 2	953 Silk 2	954 Silk 2	955 Silk 2	956 Silk 2	957 Silk 2
Start (Colonial)			18174	54387	66415	53376	48311	65087	60745	46647	23169	51558	41975	13709	32179	47309	17610
Coyote	SIU	1	18118	54330	66359	53320	48255	65030	60689	46591	23113	51502	41919	13653	32123	47253	17554
Crismon	SIU	1	17645	53857	65886	52847	47782	64557	60216	46118	22640	51029	41446	13180	31650	46780	17081
Scottsdale	SIU	1	17474	53686	65714	52675	47610	64386	60044	45947	22469	50858	41274	13008	31479	46608	16909
Sedimento	SIU	1	16509	52721	64749	51711	46645	63421	59079	44982	21504	49893	40309	12044	30514	45644	15944
Canal System 2	SIU	1	9547	45759	57787	44749	39683	56459	52117	38020	14542	42931	33347	5082	23552	38682	8982
Start (Colonial)			18174	54387	66415	53376	48311	65087	60745	46647	23169	51558	41975	13709	32179	47309	17610
Coyote	Buffer	1	17982	54194	66222	53184	48118	64894	60552	46455	22977	51366	41782	13517	31987	47117	17417
Crismon	Buffer	1	16352	52564	64592	51553	46488	63264	58922	44825	21347	49736	40152	11886	30357	45486	15787
Scottsdale	Buffer	1	15760	51972	64000	50962	45896	62672	58330	44233	20755	49144	39560	11295	29765	44895	15195
Sedimento	Buffer	1	12435	48647	60675	47636	42571	59347	55005	40908	17429	45818	36235	7969	26439	41569	11870
Canal System 2	Buffer	1	779	36991	49019	35981	30915	47691	43349	29252	5774	34163	24579	-3686	14784	29914	214
Start (Colonial)			18174	54387	66415	53376	48311	65087	60745	46647	23169	51558	41975	13709	32179	47309	17610
Coyote	SIU	2	18062	54274	66302	53264	48199	64974	60633	46535	23057	51446	41862	13597	32067	47197	17497
Crismon	SIU	2	17116	53328	65356	52318	47253	64028	59687	45589	22111	50500	40916	12651	31121	46251	16551
Scottsdale	SIU	2	16773	52985	65013	51975	46909	63685	59343	45246	21768	50157	40573	12308	30778	45908	16208
Sedimento	SIU	2	14844	51056	63084	50045	44980	61756	57414	43317	19838	48227	38644	10378	28848	43978	14279
Canal System 2	SIU	2	920	37132	49160	36122	31056	47832	43490	29393	5915	34304	24720	-3545	14925	30055	355
Start (Colonial)			18174	54387	66415	53376	48311	65087	60745	46647	23169	51558	41975	13709	32179	47309	17610
Coyote	Buffer	2	17789	54002	66030	52991	47926	64702	60360	46262	22784	51173	41590	13324	31794	46924	17225
Crismon	Buffer	2	14529	50741	62769	49731	44665	61441	57099	43002	19524	47913	38329	10064	28534	43664	13964
Scottsdale	Buffer	2	13345	49558	61586	48547	43482	60258	55916	41818	18340	46729	37146	8880	27350	42480	12781
Sedimento	Buffer	2	6695	42907	54935	41897	36831	53607	49265	35168	11690	40079	30495	2230	20700	35830	6130
Canal System 2	Buffer	2	-16616	19596	31624	18585	13520	30296	25954	11857	-11622	16767	7184	-21082	-2612	12518	-17181

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	958 Silk 2	959 Silk 2	960 Silk 2	961 Silk 2	962 Silk 2	963 Silk 2	964 Silk 2	965 Silk 2	966 Silk 2	967 Silk 2	968 Silk 2	969 Silk 2	970 Silk 2	971 Silk 2	972 Silk 2
Start (Colonial)			48637	51360	68356	31491	57877	40223	37487	64689	41220	29263	24171	41878	40064	34977	28054
Coyote	SIU	1	48581	51304	68300	31435	57821	40167	37431	64633	41164	29207	24115	41821	40008	34921	27998
Crismon	SIU	1	48108	50831	67827	30962	57348	39694	36958	64160	40691	28734	23642	41348	39535	34448	27525
Scottsdale	SIU	1	47937	50659	67655	30790	57176	39522	36787	63989	40519	28562	23470	41177	39363	34276	27353
Sedimento	SIU	1	46972	49694	66691	29826	56211	38558	35822	63024	39555	27597	22505	40212	38399	33311	26388
Canal System 2	SIU	1	40010	42732	59729	22864	49249	31596	28860	56062	32593	20635	15544	33250	31437	26349	19426
Start (Colonial)			48637	51360	68356	31491	57877	40223	37487	64689	41220	29263	24171	41878	40064	34977	28054
Coyote	Buffer	1	48445	51167	68164	31298	57684	40030	37295	64497	41028	29070	23978	41685	39872	34784	27861
Crismon	Buffer	1	46815	49537	66533	29668	56054	38400	35665	62867	39397	27440	22348	40055	38241	33154	26231
Scottsdale	Buffer	1	46223	48945	65942	29076	55462	37808	35073	62275	38806	26848	21756	39463	37650	32562	25639
Sedimento	Buffer	1	42898	45620	62616	25751	52137	34483	31748	58950	35480	23523	18431	36138	34324	29237	22314
Canal System 2	Buffer	1	31242	33964	50961	14096	40481	22828	20092	47294	23825	11867	6775	24482	22669	17581	10658
Start (Colonial)			48637	51360	68356	31491	57877	40223	37487	64689	41220	29263	24171	41878	40064	34977	28054
Coyote	SIU	2	48525	51248	68244	31379	57765	40111	37375	64577	41108	29150	24059	41765	39952	34864	27942
Crismon	SIU	2	47579	50302	67298	30433	56819	39165	36429	63631	40162	28204	23113	40819	39006	33918	26996
Scottsdale	SIU	2	47236	49958	66955	30090	56475	38822	36086	63288	39819	27861	22769	40476	38663	33575	26652
Sedimento	SIU	2	45307	48029	65025	28160	54546	36892	34157	61359	37889	25932	20840	38547	36733	31646	24723
Canal System 2	SIU	2	31383	34105	51101	14236	40622	22968	20233	47435	23966	12008	6916	24623	22810	17722	10799
Start (Colonial)			48637	51360	68356	31491	57877	40223	37487	64689	41220	29263	24171	41878	40064	34977	28054
Coyote	Buffer	2	48252	50975	67971	31106	57492	39838	37102	64304	40835	28878	23786	41493	39679	34592	27669
Crismon	Buffer	2	44992	47714	64711	27846	54231	36578	33842	61044	37575	25617	20525	38232	36419	31331	24408
Scottsdale	Buffer	2	43808	46531	63527	26662	53048	35394	32658	59860	36391	24434	19342	37049	35235	30148	23225
Sedimento	Buffer	2	37158	39880	56876	20011	46397	28743	26008	53210	29741	17783	12691	30398	28585	23497	16574
Canal System 2	Buffer	2	13847	16569	33565	-3300	23086	5432	2697	29899	6429	-5528	-10620	7087	5273	186	-6737

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	973 Silk 2	974 Silk 2	975 Silk 2	976 Silk 2	977 Silk 2	978 Silk 2	979 Silk 2	980 Silk 2	981 Silk 2	982 Silk 2	983 Silk 2	984 Silk 2	985 Silk 2	986 Silk 2	987 Silk 2
Start (Colonial)			72490	31592	17107	43276	53967	31791	23412	16935	19860	47600	43065	20350	35272	50830	50023
Coyote	SIU	1	72434	31536	17051	43220	53911	31735	23356	16878	19804	47544	43008	20294	35216	50774	49967
Crismon	SIU	1	71961	31063	16578	42747	53438	31262	22883	16405	19331	47071	42535	19821	34743	50301	49494
Scottsdale	SIU	1	71790	30892	16406	42576	53267	31090	22711	16234	19159	46900	42364	19649	34572	50130	49322
Sedimento	SIU	1	70825	29927	15441	41611	52302	30126	21747	15269	18195	45935	41399	18684	33607	49165	48357
Canal System 2	SIU	1	63863	22965	8479	34649	45340	23164	14785	8307	11233	38973	34437	11722	26645	42203	41395
Start (Colonial)			72490	31592	17107	43276	53967	31791	23412	16935	19860	47600	43065	20350	35272	50830	50023
Coyote	Buffer	1	72298	31400	16914	43084	53775	31598	23219	16742	19667	47408	42872	20157	35080	50638	49830
Crismon	Buffer	1	70668	29770	15284	41454	52145	29968	21589	15112	18037	45778	41242	18527	33450	49008	48200
Scottsdale	Buffer	1	70076	29178	14692	40862	51553	29376	20997	14520	17445	45186	40650	17935	32858	48416	47608
Sedimento	Buffer	1	66751	25853	11367	37537	48228	26051	17672	11195	14120	41861	37325	14610	29533	45090	44283
Canal System 2	Buffer	1	55095	14197	-289	25881	36572	14396	6017	-461	2465	30205	25669	2954	17877	33435	32627
Start (Colonial)			72490	31592	17107	43276	53967	31791	23412	16935	19860	47600	43065	20350	35272	50830	50023
Coyote	SIU	2	72378	31480	16994	43164	53855	31679	23300	16822	19748	47488	42952	20238	35160	50718	49911
Crismon	SIU	2	71432	30534	16048	42218	52909	30733	22354	15876	18802	46542	42006	19292	34214	49772	48965
Scottsdale	SIU	2	71089	30191	15705	41875	52566	30390	22011	15533	18459	46199	41663	18948	33871	49429	48621
Sedimento	SIU	2	69160	28262	13776	39946	50637	28460	20081	13604	16529	44270	39734	17019	31942	47499	46692
Canal System 2	SIU	2	55236	14338	-148	26022	36713	14536	6157	-320	2605	30346	25810	3095	18018	33576	32768
Start (Colonial)			72490	31592	17107	43276	53967	31791	23412	16935	19860	47600	43065	20350	35272	50830	50023
Coyote	Buffer	2	72105	31207	16722	42891	53582	31406	23027	16550	19475	47215	42680	19965	34887	50445	49638
Crismon	Buffer	2	68845	27947	13461	39631	50322	28146	19767	13289	16215	43955	39419	16704	31627	47185	46377
Scottsdale	Buffer	2	67661	26763	12278	38447	49138	26962	18583	12106	15031	42771	38236	15521	30443	46001	45194
Sedimento	Buffer	2	61011	20113	5627	31797	42488	20311	11932	5455	8380	36121	31585	8870	23793	39351	38543
Canal System 2	Buffer	2	37700	-3198	-17684	8486	19177	-3000	-11379	-17856	-14931	12810	8274	-14441	482	16039	15232

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	988 Silk 2	989 Silk 2	990 Silk 2	991 Silk 2	992 Silk 2	993 Silk 2	994 Silk 2	995 Silk 2	996 Silk 2	997 Silk 2	998 Silk 2	999 Silk 2	Total Deficits
Start (Colonial)			67319	64310	24290	21788	52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	SIU	1	67263	64254	24234	21732	52393	19839	44288	38923	39276	33875	39421	32419	0
Crismon	SIU	1	66790	63781	23761	21259	51920	19366	43815	38450	38803	33402	38948	31946	0
Scottsdale	SIU	1	66618	63609	23589	21087	51749	19195	43643	38278	38631	33230	38777	31774	0
Sedimento	SIU	1	65654	62645	22625	20123	50784	18230	42679	37313	37666	32266	37812	30809	0
Canal System 2	SIU	1	58692	55683	15663	13161	43822	11268	35717	30351	30704	25304	30850	23848	1
Start (Colonial)			67319	64310	24290	21788	52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	Buffer	1	67127	64117	24097	21596	52257	19703	44152	38786	39139	33738	39285	32282	0
Crismon	Buffer	1	65496	62487	22467	19965	50627	18073	42521	37156	37509	32108	37655	30652	0
Scottsdale	Buffer	1	64905	61895	21875	19374	50035	17481	41930	36564	36917	31516	37063	30060	0
Sedimento	Buffer	1	61579	58570	18550	16048	46710	14155	38604	33239	33592	28191	33737	26735	1
Canal System 2	Buffer	1	49924	46915	6895	4393	35054	2500	26949	21583	21936	16536	22082	15079	6
Start (Colonial)			67319	64310	24290	21788	52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	SIU	2	67207	64198	24178	21676	52337	19783	44232	38866	39219	33819	39365	32363	0
Crismon	SIU	2	66261	63252	23232	20730	51391	18837	43286	37920	38273	32873	38419	31417	0
Scottsdale	SIU	2	65918	62909	22889	20387	51048	18494	42943	37577	37930	32530	38076	31073	0
Sedimento	SIU	2	63988	60979	20959	18457	49119	16564	41013	35648	36001	30600	36146	29144	0
Canal System 2	SIU	2	50065	47055	7035	4534	35195	2641	27089	21724	22077	16676	22223	15220	6
Start (Colonial)			67319	64310	24290	21788	52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	Buffer	2	66934	63925	23905	21403	52065	19510	43959	38594	38947	33546	39092	32090	0
Crismon	Buffer	2	63674	60665	20645	18143	48804	16250	40699	35333	35686	30286	35832	28829	0
Scottsdale	Buffer	2	62490	59481	19461	16959	47621	15066	39515	34150	34503	29102	34648	27646	0
Sedimento	Buffer	2	55840	52830	12810	10309	40970	8416	32864	27499	27852	22451	27998	20995	1
Canal System 2	Buffer	2	32528	29519	-10501	-13003	17659	-14896	9553	4188	4541	-860	4686	-2316	72

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	800 Plant 1	801 Plant 1	802 Plant 1	803 Plant 1	804 Plant 1	805 Plant 1	806 Plant 1	807 Plant 1	808 Plant 1	809 Plant 1	810 Plant 1	811 Plant 1	812 Plant 1	813 Plant 1
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537
Coyote	SIU	3	147323	228059	147463	304443	237198	306626	159890	131579	57378	50507	213547	148247	174627	164369
Crismon	SIU	3	145904	226640	146044	303024	235779	305207	158471	130160	55959	49088	212128	146828	173208	162950
Scottsdale	SIU	3	145389	226125	145529	302509	235264	304692	157957	129645	55445	48573	211613	146313	172693	162435
Sedimento	SIU	3	142495	223231	142635	299615	232370	301798	155062	126751	52550	45679	208719	143419	169799	159541
Canal System 2	SIU	3	121609	202346	121749	278729	211484	280912	134177	105865	31665	24793	187833	122533	148913	138655
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537
Coyote	Buffer	3	146914	227650	147054	304034	236789	306217	159481	131170	56969	50098	213137	147838	174218	163960
Crismon	Buffer	3	142023	222759	142163	299143	231898	301326	154591	126279	52079	45207	208247	142947	169327	159069
Scottsdale	Buffer	3	140248	220984	140388	297368	230123	299551	152815	124504	50303	43432	206471	141172	167552	157294
Sedimento	Buffer	3	130272	211008	130412	287392	220147	289575	142839	114528	40327	33456	196495	131196	157576	147318
Canal System 2	Buffer	3	95305	176041	95445	252425	185180	254608	107872	79561	5360	-1511	161529	96229	122609	112351
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537
Coyote	SIU	4	147267	228003	147407	304387	237142	306570	159834	131523	57322	50451	213490	148191	174571	164313
Crismon	SIU	4	145375	226111	145515	302495	235250	304678	157942	129631	55430	48559	211598	146299	172679	162421
Scottsdale	SIU	4	144689	225425	144829	301808	234563	303992	157256	128944	54744	47872	210912	145612	171992	161734
Sedimento	SIU	4	140830	221566	140970	297950	230704	300133	153397	125086	50885	44014	207053	141753	168134	157875
Canal System 2	SIU	4	112982	193718	113122	270102	202857	272285	125549	97238	23037	16166	179206	113906	140286	130028
Start (Colonial)			147491	228227	147631	304611	237366	306794	160059	131747	57547	50675	213715	148415	174795	164537
Coyote	Buffer	4	146721	227457	146861	303841	236596	306024	159289	130977	56777	49905	212945	147645	174025	163767
Crismon	Buffer	4	140201	220937	140341	297320	230075	299504	152768	124456	50256	43384	206424	141124	167504	157246
Scottsdale	Buffer	4	137833	218569	137973	294953	227708	297136	150401	122089	47889	41017	204057	138757	165137	154879
Sedimento	Buffer	4	124532	205268	124672	281652	214407	283835	137099	108788	34587	27716	190756	125456	151836	141578
Canal System 2	Buffer	4	77910	158646	78050	235030	167784	237213	90477	62166	-12035	-18906	144133	78833	105214	94955

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	814 Plant 1	815 Plant 1	816 Plant 1	817 Plant 1	818 Plant 1	819 Plant 1	820 Plant 1	821 Plant 1	822 Plant 1	823 Plant 1	824 Plant 1	825 Plant 1	826 Plant 1	827 Plant 1
Start (Colonial)			150136	112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700
Coyote	SIU	3	149968	112434	99489	92645	72367	137639	195157	180267	256511	72675	114883	55307	181680	145532
Crismon	SIU	3	148549	111015	98070	91226	70948	136220	193738	178848	255092	71256	113464	53888	180261	144113
Scottsdale	SIU	3	148034	110500	97555	90712	70433	135705	193224	178333	254577	70741	112949	53373	179747	143598
Sedimento	SIU	3	145140	107606	94661	87817	67539	132811	190329	175439	251683	67847	110055	50479	176852	140704
Canal System 2	SIU	3	124254	86720	73775	66932	46653	111925	169444	154553	230797	46961	89169	29594	155967	119818
Start (Colonial)			150136	112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700
Coyote	Buffer	3	149559	112025	99080	92236	71958	137229	194748	179858	256101	72266	114474	54898	181271	145123
Crismon	Buffer	3	144668	107134	94189	87346	67067	132339	189858	174967	251211	67375	109583	50007	176381	140232
Scottsdale	Buffer	3	142893	105359	92414	85570	65292	130563	188082	173192	249435	65600	107808	48232	174605	138457
Sedimento	Buffer	3	132917	95383	82438	75594	55316	120588	178106	163216	239459	55624	97832	38256	164629	128481
Canal System 2	Buffer	3	97950	60416	47471	40627	20349	85621	143139	128249	204493	20657	62865	3289	129662	93514
Start (Colonial)			150136	112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700
Coyote	SIU	4	149912	112378	99433	92589	72311	137583	195101	180211	256454	72619	114827	55251	181624	145476
Crismon	SIU	4	148020	110486	97541	90697	70419	135691	193209	178319	254562	70727	112935	53359	179732	143584
Scottsdale	SIU	4	147334	109799	96854	90011	69732	135004	192523	177632	253876	70040	112249	52673	179046	142897
Sedimento	SIU	4	143475	105941	92995	86152	65874	131145	188664	173774	250017	66181	108390	48814	175187	139038
Canal System 2	SIU	4	115627	78093	65148	58304	38026	103298	160816	145926	222170	38334	80542	20966	147339	111191
Start (Colonial)			150136	112602	99657	92814	72535	137807	195326	180435	256679	72843	115051	55475	181849	145700
Coyote	Buffer	4	149366	111832	98887	92044	71765	137037	194556	179665	255909	72073	114281	54705	181079	144930
Crismon	Buffer	4	142846	105311	92366	85523	65244	130516	188035	173144	249388	65552	107761	48185	174558	138409
Scottsdale	Buffer	4	140478	102944	89999	83156	62877	128149	185668	170777	247021	63185	105393	45817	172191	136042
Sedimento	Buffer	4	127177	89643	76698	69854	49576	114848	172366	157476	233720	49884	92092	32516	158889	122741
Canal System 2	Buffer	4	80555	43021	30075	23232	2954	68225	125744	110854	187097	3261	45470	-14106	112267	76118

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	828 Plant 1	829 Plant 1	830 Plant 1	831 Plant 1	832 Plant 1	833 Plant 1	834 Plant 1	835 Plant 1	836 Plant 1	837 Plant 1	838 Plant 1	839 Plant 1	840 Plant 1	841 Plant 1
Start (Colonial)			93163	111119	58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592
Coyote	SIU	3	92995	110951	57938	178909	111636	170722	207823	159988	175886	101266	17227	82905	51305	118424
Crismon	SIU	3	91576	109532	56519	177490	110217	169303	206404	158569	174467	99847	15808	81486	49886	117005
Scottsdale	SIU	3	91061	109017	56004	176976	109702	168789	205889	158055	173953	99332	15293	80971	49371	116490
Sedimento	SIU	3	88167	106123	53110	174081	106808	165894	202995	155160	171059	96438	12399	78077	46477	113596
Canal System 2	SIU	3	67282	85237	32225	153196	85923	145009	182109	134275	150173	75553	-8486	57191	25591	92710
Start (Colonial)			93163	111119	58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592
Coyote	Buffer	3	92586	110541	57529	178500	111227	170313	207413	159579	175477	100857	16818	82496	50895	118015
Crismon	Buffer	3	87695	105651	52638	173610	106336	165423	202523	154689	170587	95966	11927	77605	46005	113124
Scottsdale	Buffer	3	85920	103875	50863	171834	104561	163647	200747	152913	168811	94191	10152	75830	44229	111349
Sedimento	Buffer	3	75944	93899	40887	161858	94585	153671	190772	142937	158835	84215	176	65854	34254	101373
Canal System 2	Buffer	3	40977	58933	5920	126891	59618	118704	155805	107970	123869	49248	-34791	30887	-713	66406
Start (Colonial)			93163	111119	58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592
Coyote	SIU	4	92939	110894	57882	178853	111580	170666	207767	159932	175830	101210	17171	82849	51249	118368
Crismon	SIU	4	91047	109002	55990	176961	109688	168774	205875	158040	173938	99318	15279	80957	49357	116476
Scottsdale	SIU	4	90361	108316	55304	176275	109002	168088	205188	157354	173252	98632	14593	80270	48670	115789
Sedimento	SIU	4	86502	104457	51445	172416	105143	164229	201329	153495	169393	94773	10734	76412	44811	111930
Canal System 2	SIU	4	58654	76610	23597	144568	77295	136381	173482	125647	141546	66925	-17114	48564	16964	84083
Start (Colonial)			93163	111119	58106	179078	111805	170891	207991	160157	176055	101434	17396	83073	51473	118592
Coyote	Buffer	4	92393	110349	57336	178308	111035	170121	207221	159387	175285	100664	16626	82303	50703	117822
Crismon	Buffer	4	85873	103828	50816	171787	104514	163600	200700	152866	168764	94144	10105	75782	44182	111301
Scottsdale	Buffer	4	83505	101461	48448	169420	102147	161233	198333	150499	166397	91776	7738	73415	41815	108934
Sedimento	Buffer	4	70204	88160	35147	156118	88845	147931	185032	137197	153096	78475	-5564	60114	28514	95633
Canal System 2	Buffer	4	23582	41537	-11475	109496	42223	101309	138409	90575	106473	31853	-52186	13492	-18109	49010

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	842 Plant 1	843 Plant 1	844 Plant 1	845 Plant 1	846 Plant 1	847 Plant 1	848 Plant 1	849 Plant 1	850 Plant 1	851 Plant 1	852 Plant 1	853 Plant 1	854 Plant 1	855 Plant 1
Start (Colonial)			129088	164649	127325	162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016
Coyote	SIU	3	128920	164481	127157	162046	106766	58148	154530	82471	154502	109747	186243	110055	206367	102848
Crismon	SIU	3	127501	163062	125738	160627	105347	56729	153111	81052	153083	108328	184824	108636	204948	101429
Scottsdale	SIU	3	126986	162547	125223	160112	104832	56214	152597	80537	152569	107813	184309	108121	204433	100914
Sedimento	SIU	3	124092	159653	122329	157218	101938	53320	149702	77643	149674	104919	181415	105227	201539	98020
Canal System 2	SIU	3	103206	138767	101443	136332	81052	32434	128817	56757	128789	84033	160529	84341	180654	77134
Start (Colonial)			129088	164649	127325	162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016
Coyote	Buffer	3	128511	164071	126747	161636	106357	57739	154121	82062	154093	109338	185833	109646	205958	102438
Crismon	Buffer	3	123620	159181	121857	156746	101466	52848	149231	77171	149203	104447	180943	104755	201067	97548
Scottsdale	Buffer	3	121845	157405	120081	154970	99691	51073	147455	75396	147427	102672	179167	102980	199292	95772
Sedimento	Buffer	3	111869	147430	110105	144994	89715	41097	137479	65420	137451	92696	169192	93004	189316	85796
Canal System 2	Buffer	3	76902	112463	75139	110028	54748	6130	102512	30453	102484	57729	134225	58037	154349	50830
Start (Colonial)			129088	164649	127325	162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016
Coyote	SIU	4	128864	164425	127100	161989	106710	58092	154474	82415	154446	109691	186187	109999	206311	102791
Crismon	SIU	4	126972	162533	125208	160097	104818	56200	152582	80523	152554	107799	184295	108107	204419	100899
Scottsdale	SIU	4	126285	161846	124522	159411	104132	55514	151896	79837	151868	107112	183608	107420	203733	100213
Sedimento	SIU	4	122427	157987	120663	155552	100273	51655	148037	75978	148009	103254	179749	103562	199874	96354
Canal System 2	SIU	4	94579	130140	92816	127705	72425	23807	120189	48130	120161	75406	151902	75714	172026	68507
Start (Colonial)			129088	164649	127325	162214	106934	58316	154699	82639	154671	109915	186411	110223	206535	103016
Coyote	Buffer	4	128318	163879	126555	161444	106164	57546	153929	81869	153901	109145	185641	109453	205765	102246
Crismon	Buffer	4	121797	157358	120034	154923	99644	51026	147408	75349	147380	102624	179120	102932	199245	95725
Scottsdale	Buffer	4	119430	154991	117667	152556	97276	48658	145041	72981	145013	100257	176753	100565	196877	93358
Sedimento	Buffer	4	106129	141690	104366	139255	83975	35357	131739	59680	131711	86956	163452	87264	183576	80057
Canal System 2	Buffer	4	59507	95067	57743	92632	37353	-11265	85117	13058	85089	40334	116829	40642	136954	33434

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	856 Plant 1	857 Plant 1	858 Plant 1	859 Plant 1	860 Plant 1	861 Plant 1	862 Plant 1	863 Plant 1	864 Plant 1	865 Plant 1	866 Plant 1	867 Plant 1	868 Plant 1	869 Plant 1
Start (Colonial)			206633	126527	176796	146400	104527	164229	156420	145700	116563	81114	118620	80918	128193	206214
Coyote	SIU	3	206465	126359	176628	146231	104359	164061	156252	145532	116395	80946	118452	80750	128024	206045
Crismon	SIU	3	205046	124940	175209	144812	102940	162642	154833	144113	114976	79527	117033	79331	126605	204626
Scottsdale	SIU	3	204531	124425	174694	144298	102425	162127	154318	143598	114461	79012	116518	78816	126090	204111
Sedimento	SIU	3	201637	121531	171800	141404	99531	159233	151424	140704	111567	76118	113624	75922	123196	201217
Canal System 2	SIU	3	180752	100645	150915	120518	78645	138347	130538	119818	90681	55232	92738	55036	102311	180332
Start (Colonial)			206633	126527	176796	146400	104527	164229	156420	145700	116563	81114	118620	80918	128193	206214
Coyote	Buffer	3	206056	125950	176219	145822	103950	163652	155843	145123	115985	80536	118043	80341	127615	205636
Crismon	Buffer	3	201165	121059	171328	140932	99059	158761	150952	140232	111095	75646	113152	75450	122724	200745
Scottsdale	Buffer	3	199390	119284	169553	139156	97284	156986	149177	138457	109319	73870	111377	73675	120949	198970
Sedimento	Buffer	3	189414	109308	159577	129180	87308	147010	139201	128481	99343	63895	101401	63699	110973	188994
Canal System 2	Buffer	3	154447	74341	124610	94214	52341	112043	104234	93514	64377	28928	66434	28732	76006	154027
Start (Colonial)			206633	126527	176796	146400	104527	164229	156420	145700	116563	81114	118620	80918	128193	206214
Coyote	SIU	4	206409	126303	176572	146175	104303	164005	156196	145476	116338	80890	118396	80694	127968	205989
Crismon	SIU	4	204517	124411	174680	144283	102411	162113	154304	143584	114446	78998	116504	78802	126076	204097
Scottsdale	SIU	4	203831	123724	173994	143597	101724	161426	153617	142897	113760	78311	115817	78115	125390	203411
Sedimento	SIU	4	199972	119866	170135	139738	97866	157568	149758	139038	109901	74452	111958	74256	121531	199552
Canal System 2	SIU	4	172124	92018	142287	111891	70018	129720	121911	111191	82054	46605	84111	46409	93683	171704
Start (Colonial)			206633	126527	176796	146400	104527	164229	156420	145700	116563	81114	118620	80918	128193	206214
Coyote	Buffer	4	205863	125757	176026	145630	103757	163459	155650	144930	115793	80344	117850	80148	127423	205444
Crismon	Buffer	4	199343	119236	169506	139109	97236	156938	149129	138409	109272	73823	111329	73627	120902	198923
Scottsdale	Buffer	4	196975	116869	167138	136742	94869	154571	146762	136042	106905	71456	108962	71260	118535	196556
Sedimento	Buffer	4	183674	103568	153837	123441	81568	141270	133461	122741	93604	58155	95661	57959	105233	183254
Canal System 2	Buffer	4	137052	56946	107215	76818	34946	94648	86838	76118	46981	11532	49038	11336	58611	136632

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	870 Plant 1	871 Plant 1	872 Plant 1	873 Plant 1	874 Plant 1	875 Plant 1	876 Plant 1	877 Plant 1	878 Plant 1	879 Plant 1	880 Plant 1	881 Plant 1	882 Plant 1	883 Plant 1
Start (Colonial)			102022	126723	102792	203946	127031	164467	205542	131047	100455	102904	178896	167350	112350	73543
Coyote	SIU	3	101854	126555	102624	203778	126863	164299	205374	130879	100286	102736	178727	167182	112182	73374
Crismon	SIU	3	100435	125136	101205	202359	125444	162880	203955	129460	98867	101317	177308	165763	110763	71955
Scottsdale	SIU	3	99920	124621	100690	201844	124929	162365	203440	128945	98353	100802	176794	165248	110248	71441
Sedimento	SIU	3	97026	121727	97796	198950	122035	159471	200546	126051	95459	97908	173900	162354	107354	68547
Canal System 2	SIU	3	76140	100841	76910	178065	101149	138585	179660	105166	74573	77022	153014	141468	86468	47661
Start (Colonial)			102022	126723	102792	203946	127031	164467	205542	131047	100455	102904	178896	167350	112350	73543
Coyote	Buffer	3	101445	126146	102214	203369	126453	163890	204964	130470	99877	102326	178318	166772	111773	72965
Crismon	Buffer	3	96554	121255	97324	198478	121563	158999	200074	125579	94987	97436	173428	161882	106882	68075
Scottsdale	Buffer	3	94779	119480	95548	196703	119787	157224	198298	123804	93211	95660	171652	160106	105107	66299
Sedimento	Buffer	3	84803	109504	85573	186727	109812	147248	188322	113828	83235	85684	161676	150131	95131	56323
Canal System 2	Buffer	3	49836	74537	50606	151760	74845	112281	153356	78861	48269	50718	126710	115164	60164	21357
Start (Colonial)			102022	126723	102792	203946	127031	164467	205542	131047	100455	102904	178896	167350	112350	73543
Coyote	SIU	4	101798	126499	102568	203722	126807	164243	205317	130823	100230	102679	178671	167126	112126	73318
Crismon	SIU	4	99906	124607	100676	201830	124915	162351	203425	128931	98338	100787	176779	165234	110234	71426
Scottsdale	SIU	4	99219	123920	99989	201144	124228	161664	202739	128245	97652	100101	176093	164547	109548	70740
Sedimento	SIU	4	95361	120061	96130	197285	120369	157805	198880	124386	93793	96242	172234	160688	105689	66881
Canal System 2	SIU	4	67513	92214	68283	169437	92522	129958	171033	96538	65946	68395	144387	132841	77841	39034
Start (Colonial)			102022	126723	102792	203946	127031	164467	205542	131047	100455	102904	178896	167350	112350	73543
Coyote	Buffer	4	101252	125953	102022	203176	126261	163697	204772	130277	99685	102134	178126	166580	111580	72773
Crismon	Buffer	4	94731	119432	95501	196656	119740	157176	198251	123757	93164	95613	171605	160059	105060	66252
Scottsdale	Buffer	4	92364	117065	93134	194288	117373	154809	195884	121389	90797	93246	169238	157692	102692	63885
Sedimento	Buffer	4	79063	103764	79833	180987	104072	141508	182583	108088	77496	79945	155937	144391	89391	50584
Canal System 2	Buffer	4	32441	57141	33210	134365	57449	94885	135960	61466	30873	33322	109314	97768	42769	3961

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	884 Plant 1	885 Plant 1	886 Plant 1	887 Plant 1	888 Plant 1	889 Plant 1	890 Plant 1	891 Plant 1	892 Plant 1	893 Plant 1	894 Plant 1	895 Plant 1	896 Plant 1	897 Plant 1
Start (Colonial)			62613	134784	103478	145532	264712	74270	190707	181779	78819	163012	92086	89511	115233	202309
Coyote	SIU	3	62445	134616	103309	145364	264544	74102	190539	181610	78650	162843	91918	89343	115065	202141
Crismon	SIU	3	61026	133197	101890	143945	263125	72683	189120	180191	77231	161424	90499	87924	113646	200722
Scottsdale	SIU	3	60511	132682	101376	143430	262610	72168	188605	179677	76717	160910	89984	87409	113131	200207
Sedimento	SIU	3	57617	129788	98481	140536	259716	69274	185711	176782	73823	158015	87090	84515	110237	197313
Canal System 2	SIU	3	36731	108902	77596	119650	238830	48389	164825	155897	52937	137130	66204	63629	89351	176427
Start (Colonial)			62613	134784	103478	145532	264712	74270	190707	181779	78819	163012	92086	89511	115233	202309
Coyote	Buffer	3	62035	134207	102900	144955	264134	73693	190130	181201	78241	162434	91508	88933	114656	201732
Crismon	Buffer	3	57145	129316	98010	140064	259244	68802	185239	176311	73351	157544	86618	84043	109765	196841
Scottsdale	Buffer	3	55369	127541	96234	138289	257468	67027	183464	174535	71575	155768	84842	82267	107990	195066
Sedimento	Buffer	3	45393	117565	86258	128313	247493	57051	173488	164559	61599	145792	74866	72291	98014	185090
Canal System 2	Buffer	3	10427	82598	51291	93346	212526	22084	138521	129592	26633	110825	39900	37325	63047	150123
Start (Colonial)			62613	134784	103478	145532	264712	74270	190707	181779	78819	163012	92086	89511	115233	202309
Coyote	SIU	4	62388	134560	103253	145308	264488	74046	190483	181554	78594	162787	91861	89286	115009	202085
Crismon	SIU	4	60496	132668	101361	143416	262596	72154	188591	179662	76702	160895	89969	87394	113117	200193
Scottsdale	SIU	4	59810	131981	100675	142729	261909	71468	187905	178976	76016	160209	89283	86708	112431	199506
Sedimento	SIU	4	55951	128122	96816	138870	258050	67609	184046	175117	72157	156350	85424	82849	108572	195647
Canal System 2	SIU	4	28104	100275	68968	111023	230203	39761	156198	147269	44310	128502	57577	55002	80724	167800
Start (Colonial)			62613	134784	103478	145532	264712	74270	190707	181779	78819	163012	92086	89511	115233	202309
Coyote	Buffer	4	61843	134014	102708	144762	263942	73500	189937	181009	78049	162242	91316	88741	114463	201539
Crismon	Buffer	4	55322	127493	96187	138241	257421	66980	183417	174488	71528	155721	84795	82220	107943	195018
Scottsdale	Buffer	4	52955	125126	93820	135874	255054	64612	181049	172121	69161	153354	82428	79853	105575	192651
Sedimento	Buffer	4	39654	111825	80518	122573	241753	51311	167748	158819	55860	140052	69127	66552	92274	179350
Canal System 2	Buffer	4	-6969	65202	33896	75950	195130	4689	121126	112197	9237	93430	22504	19929	45652	132727

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	898 Plant 1	899 Plant 1	900 Plant 1	901 Plant 1	902 Plant 1	903 Plant 1	904 Plant 1	905 Plant 1	906 Plant 1	907 Plant 1	908 Plant 1	909 Plant 1	910 Plant 1	911 Plant 1
Start (Colonial)			203792	363837	60905	110363	83927	69190	70996	125296	83521	74326	133441	132783	90295	162284
Coyote	SIU	3	203624	363669	60737	110195	83759	69022	70827	125127	83353	74158	133272	132615	90126	162116
Crismon	SIU	3	202205	362250	59318	108776	82340	67603	69408	123708	81934	72739	131853	131196	88707	160697
Scottsdale	SIU	3	201690	361735	58803	108261	81825	67088	68894	123193	81419	72224	131338	130681	88192	160182
Sedimento	SIU	3	198796	358841	55909	105367	78931	64194	65999	120299	78525	69330	128444	127787	85298	157288
Canal System 2	SIU	3	177911	337955	35024	84481	58045	43308	45114	99414	57639	48445	107559	106901	64413	136402
Start (Colonial)			203792	363837	60905	110363	83927	69190	70996	125296	83521	74326	133441	132783	90295	162284
Coyote	Buffer	3	203215	363260	60328	109786	83349	68613	70418	124718	82944	73749	132863	132205	89717	161706
Crismon	Buffer	3	198324	358369	55437	104895	78459	63722	65528	119827	78053	68858	127972	127315	84826	156816
Scottsdale	Buffer	3	196549	356594	53662	103120	76683	61947	63752	118052	76278	67083	126197	125539	83051	155040
Sedimento	Buffer	3	186573	346618	43686	93144	66708	51971	53776	108076	66302	57107	116221	115563	73075	145064
Canal System 2	Buffer	3	151606	311651	8719	58177	31741	17004	18809	73109	31335	22140	81254	80597	38108	110098
Start (Colonial)			203792	363837	60905	110363	83927	69190	70996	125296	83521	74326	133441	132783	90295	162284
Coyote	SIU	4	203568	363613	60681	110139	83703	68966	70771	125071	83297	74102	133216	132558	90070	162059
Crismon	SIU	4	201676	361721	58789	108247	81811	67074	68879	123179	81405	72210	131324	130666	88178	160167
Scottsdale	SIU	4	200990	361034	58103	107560	81124	66388	68193	122493	80718	71524	130638	129980	87492	159481
Sedimento	SIU	4	197131	357176	54244	103702	77265	62529	64334	118634	76859	67665	126779	126121	83633	155622
Canal System 2	SIU	4	169283	329328	26396	75854	49418	34681	36486	90786	49012	39817	98931	98274	55785	127775
Start (Colonial)			203792	363837	60905	110363	83927	69190	70996	125296	83521	74326	133441	132783	90295	162284
Coyote	Buffer	4	203022	363067	60135	109593	83157	68420	70226	124526	82751	73556	132671	132013	89525	161514
Crismon	Buffer	4	196502	356546	53615	103072	76636	61900	63705	118005	76230	67036	126150	125492	83004	154993
Scottsdale	Buffer	4	194134	354179	51247	100705	74269	59532	61338	115638	73863	64668	123783	123125	80637	152626
Sedimento	Buffer	4	180833	340878	37946	87404	60968	46231	48036	102336	60562	51367	110481	109824	67335	139325
Canal System 2	Buffer	4	134211	294256	-8676	40782	14345	-391	1414	55714	13939	4745	63859	63201	20713	92702

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	912 Plant 1	913 Plant 1	914 Plant 1	915 Plant 1	916 Plant 1	917 Plant 1	918 Plant 1	919 Plant 1	920 Plant 1	921 Plant 1	922 Plant 1	923 Plant 1	924 Plant 1	925 Plant 1
Start (Colonial)			161220	123448	128710	181653	88111	201455	114785	113148	56189	103436	68952	85760	69400	108824
Coyote	SIU	3	161052	123280	128542	181484	87943	201287	114617	112980	56021	103267	68784	85592	69232	108655
Crismon	SIU	3	159633	121861	127123	180065	86524	199868	113198	111561	54602	101848	67365	84173	67813	107236
Scottsdale	SIU	3	159118	121346	126608	179551	86009	199353	112683	111046	54087	101334	66850	83658	67298	106722
Sedimento	SIU	3	156224	118452	123714	176656	83115	196459	109789	108152	51193	98439	63956	80764	64404	103827
Canal System 2	SIU	3	135338	97566	102828	155771	62229	175573	88904	87266	30307	77554	43071	59878	43518	82942
Start (Colonial)			161220	123448	128710	181653	88111	201455	114785	113148	56189	103436	68952	85760	69400	108824
Coyote	Buffer	3	160643	122871	128133	181075	87534	200878	114208	112571	55612	102858	68375	85183	68823	108246
Crismon	Buffer	3	155752	117980	123242	176185	82643	195987	109317	107680	50721	97968	63484	80292	63932	103356
Scottsdale	Buffer	3	153977	116205	121467	174409	80868	194212	107542	105905	48946	96192	61709	78517	62157	101580
Sedimento	Buffer	3	144001	106229	111491	164433	70892	184236	97566	95929	38970	86216	51733	68541	52181	91604
Canal System 2	Buffer	3	109034	71262	76524	129466	35925	149269	62599	60962	4003	51249	16766	33574	17214	56637
Start (Colonial)			161220	123448	128710	181653	88111	201455	114785	113148	56189	103436	68952	85760	69400	108824
Coyote	SIU	4	160996	123224	128486	181428	87887	201231	114561	112924	55965	103211	68728	85536	69176	108599
Crismon	SIU	4	159104	121332	126594	179536	85995	199339	112669	111032	54073	101319	66836	83644	67284	106707
Scottsdale	SIU	4	158417	120645	125908	178850	85309	198653	111983	110345	53386	100633	66150	82957	66597	106021
Sedimento	SIU	4	154559	116787	122049	174991	81450	194794	108124	106486	49528	96774	62291	79099	62739	102162
Canal System 2	SIU	4	126711	88939	94201	147143	53602	166946	80276	78639	21680	68926	34443	51251	34891	74314
Start (Colonial)			161220	123448	128710	181653	88111	201455	114785	113148	56189	103436	68952	85760	69400	108824
Coyote	Buffer	4	160450	122678	127940	180883	87341	200685	114015	112378	55419	102666	68182	84990	68630	108054
Crismon	Buffer	4	153929	116157	121420	174362	80821	194165	107495	105857	48898	96145	61662	78469	62109	101533
Scottsdale	Buffer	4	151562	113790	119052	171995	78453	191797	105127	103490	46531	93778	59294	76102	59742	99166
Sedimento	Buffer	4	138261	100489	105751	158693	65152	178496	91826	90189	33230	80476	45993	62801	46441	85864
Canal System 2	Buffer	4	91639	53867	59129	112071	18530	131874	45204	43566	-13392	33854	-629	16179	-181	39242

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	926 Plant 1	927 Plant 1	928 Plant 1	929 Plant 1	930 Plant 1	931 Plant 1	932 Plant 1	933 Plant 1	934 Plant 1	935 Plant 1	936 Plant 1	937 Plant 1	938 Plant 1	939 Plant 1
Start (Colonial)			172542	127157	249821	206116	129914	206689	152795	89987	93485	103100	139164	76412	196949	139038
Coyote	SIU	3	172374	126989	249653	205947	129746	206521	152627	89818	93317	102932	138996	76243	196781	138870
Crismon	SIU	3	170955	125570	248234	204528	128327	205102	151208	88399	91898	101513	137577	74824	195362	137451
Scottsdale	SIU	3	170440	125055	247719	204014	127812	204587	150693	87885	91383	100998	137062	74310	194847	136936
Sedimento	SIU	3	167546	122161	244825	201119	124918	201693	147799	84990	88489	98104	134168	71415	191953	134042
Canal System 2	SIU	3	146660	101275	223940	180234	104032	180808	126913	64105	67603	77218	113283	50530	171067	113157
Start (Colonial)			172542	127157	249821	206116	129914	206689	152795	89987	93485	103100	139164	76412	196949	139038
Coyote	Buffer	3	171965	126579	249244	205538	129336	206112	152218	89409	92908	102522	138587	75834	196372	138461
Crismon	Buffer	3	167074	121689	244353	200648	124446	201221	147327	84519	88017	97632	133696	70944	191481	133570
Scottsdale	Buffer	3	165299	119913	242578	198872	122670	199446	145552	82743	86242	95856	131921	69168	189706	131795
Sedimento	Buffer	3	155323	109937	232602	188896	112694	189470	135576	72767	76266	85880	121945	59192	179730	121819
Canal System 2	Buffer	3	120356	74971	197635	153929	77728	154503	100609	37800	41299	50914	86978	24225	144763	86852
Start (Colonial)			172542	127157	249821	206116	129914	206689	152795	89987	93485	103100	139164	76412	196949	139038
Coyote	SIU	4	172318	126932	249597	205891	129689	206465	152571	89762	93261	102875	138940	76187	196725	138814
Crismon	SIU	4	170426	125040	247705	203999	127797	204573	150679	87870	91369	100983	137048	74295	194833	136922
Scottsdale	SIU	4	169739	124354	247019	203313	127111	203887	149993	87184	90683	100297	136362	73609	194146	136236
Sedimento	SIU	4	165880	120495	243160	199454	123252	200028	146134	83325	86824	96438	132503	69750	190287	132377
Canal System 2	SIU	4	138033	92648	215312	171606	95405	172180	118286	55477	58976	68591	104655	41902	162440	104529
Start (Colonial)			172542	127157	249821	206116	129914	206689	152795	89987	93485	103100	139164	76412	196949	139038
Coyote	Buffer	4	171772	126387	249051	205346	129144	205919	152025	89217	92715	102330	138394	75642	196179	138268
Crismon	Buffer	4	165251	119866	242531	198825	122623	199399	145505	82696	86195	95809	131874	69121	189658	131748
Scottsdale	Buffer	4	162884	117499	240163	196458	120256	197031	143137	80329	83827	93442	129506	66754	187291	129380
Sedimento	Buffer	4	149583	104198	226862	183156	106955	183730	129836	67027	70526	80141	116205	53452	173990	116079
Canal System 2	Buffer	4	102960	57575	180240	136534	60332	137108	83214	20405	23904	33518	69583	6830	127367	69457

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	940 Plant 1	941 Plant 1	942 Plant 1	943 Plant 1	944 Plant 1	945 Plant 1	946 Plant 1	947 Plant 1	948 Plant 1	949 Plant 1	950 Plant 1	951 Plant 1	952 Plant 1	953 Plant 1
Start (Colonial)			167364	193072	219187	57645	172500	210650	169295	153229	206438	192667	147953	73487	163529	133133
Coyote	SIU	3	167196	192904	219018	57476	172332	210482	169127	153061	206269	192498	147785	73318	163361	132964
Crismon	SIU	3	165777	191485	217599	56057	170913	209063	167708	151642	204850	191079	146366	71899	161942	131545
Scottsdale	SIU	3	165262	190970	217085	55543	170398	208548	167193	151127	204335	190565	145851	71385	161427	131031
Sedimento	SIU	3	162368	188076	214191	52648	167504	205654	164299	148233	201441	187670	142957	68491	158533	128136
Canal System 2	SIU	3	141482	167191	193305	31763	146618	184768	143413	127347	180556	166785	122071	47605	137648	107251
Start (Colonial)			167364	193072	219187	57645	172500	210650	169295	153229	206438	192667	147953	73487	163529	133133
Coyote	Buffer	3	166786	192495	218609	57067	171923	210072	168718	152652	205860	192089	147376	72909	162952	132555
Crismon	Buffer	3	161896	187604	213719	52177	167032	205182	163827	147761	200969	187199	142485	68019	158061	127665
Scottsdale	Buffer	3	160120	185829	211943	50401	165257	203406	162052	145986	199194	185423	140710	66243	156286	125889
Sedimento	Buffer	3	150145	175853	201967	40425	155281	193431	152076	136010	189218	175447	130734	56267	146310	115913
Canal System 2	Buffer	3	115178	140886	167001	5458	120314	158464	117109	101043	154251	140480	95767	21301	111343	80946
Start (Colonial)			167364	193072	219187	57645	172500	210650	169295	153229	206438	192667	147953	73487	163529	133133
Coyote	SIU	4	167140	192848	218962	57420	172276	210426	169071	153005	206213	192442	147729	73262	163305	132908
Crismon	SIU	4	165248	190956	217070	55528	170384	208534	167179	151113	204321	190550	145837	71370	161413	131016
Scottsdale	SIU	4	164561	190270	216384	54842	169697	207847	166492	150426	203635	189864	145150	70684	160727	130330
Sedimento	SIU	4	160702	186411	212525	50983	165838	203988	162634	146568	199776	186005	141292	66825	156868	126471
Canal System 2	SIU	4	132855	158563	184678	23135	137991	176141	134786	118720	171928	158157	113444	38978	129020	98623
Start (Colonial)			167364	193072	219187	57645	172500	210650	169295	153229	206438	192667	147953	73487	163529	133133
Coyote	Buffer	4	166594	192302	218417	56875	171730	209880	168525	152459	205668	191897	147183	72717	162759	132363
Crismon	Buffer	4	160073	185782	211896	50354	165209	203359	162004	145938	199147	185376	140662	66196	156239	125842
Scottsdale	Buffer	4	157706	183414	209529	47987	162842	200992	159637	143571	196780	183009	138295	63829	153871	123475
Sedimento	Buffer	4	144405	170113	196228	34685	149541	187691	146336	130270	183478	169707	124994	50528	140570	110173
Canal System 2	Buffer	4	97782	123491	149605	-11937	102918	141068	99714	83648	136856	123085	78372	3905	93948	63551

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	954 Plant 1	955 Plant 1	956 Plant 1	957 Plant 1	958 Plant 1	959 Plant 1	960 Plant 1	961 Plant 1	962 Plant 1	963 Plant 1	964 Plant 1	965 Plant 1	966 Plant 1	967 Plant 1
Start (Colonial)			43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900	205178	130740	92814
Coyote	SIU	3	43314	101896	149884	55685	154097	162731	216639	99713	183402	127408	118732	205010	130571	92645
Crismon	SIU	3	41895	100477	148465	54266	152678	161312	215220	98294	181983	125989	117313	203591	129152	91226
Scottsdale	SIU	3	41380	99962	147950	53751	152163	160798	214706	97779	181468	125475	116798	203076	128637	90712
Sedimento	SIU	3	38486	97068	145056	50857	149269	157903	211811	94885	178574	122581	113904	200182	125743	87817
Canal System 2	SIU	3	17600	76182	124171	29971	128383	137018	190926	73999	157688	101695	93018	179296	104858	66932
Start (Colonial)			43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900	205178	130740	92814
Coyote	Buffer	3	42904	101487	149475	55276	153687	162322	216230	99303	182992	126999	118322	204600	130162	92236
Crismon	Buffer	3	38014	96596	144584	50385	148797	157432	211340	94413	178102	122109	113432	199710	125271	87346
Scottsdale	Buffer	3	36238	94821	142809	48610	147021	155656	209564	92637	176326	120333	111656	197934	123496	85570
Sedimento	Buffer	3	26262	84845	132833	38634	137045	145680	199588	82662	166351	110357	101681	187959	113520	75594
Canal System 2	Buffer	3	-8704	49878	97866	3667	102079	110713	164621	47695	131384	75391	66714	152992	78553	40627
Start (Colonial)			43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900	205178	130740	92814
Coyote	SIU	4	43257	101840	149828	55629	154040	162675	216583	99657	183346	127352	118676	204954	130515	92589
Crismon	SIU	4	41365	99948	147936	53737	152148	160783	214691	97765	181454	125460	116784	203062	128623	90697
Scottsdale	SIU	4	40679	99261	147250	53051	151462	160097	214005	97078	180767	124774	116097	202375	127937	90011
Sedimento	SIU	4	36820	95403	143391	49192	147603	156238	210146	93219	176908	120915	112238	198516	124078	86152
Canal System 2	SIU	4	8973	67555	115543	21344	119756	128390	182298	65372	149061	93068	84391	170669	96230	58304
Start (Colonial)			43482	102064	150052	55853	154265	162900	216808	99881	183570	127577	118900	205178	130740	92814
Coyote	Buffer	4	42712	101294	149282	55083	153495	162130	216038	99111	182800	126807	118130	204408	129970	92044
Crismon	Buffer	4	36191	94773	142762	48563	146974	155609	209517	92590	176279	120286	111609	197887	123449	85523
Scottsdale	Buffer	4	33824	92406	140394	46195	144607	153242	207150	90223	173912	117919	109242	195520	121082	83156
Sedimento	Buffer	4	20523	79105	127093	32894	131306	139940	193848	76922	160611	104618	95941	182219	107780	69854
Canal System 2	Buffer	4	-26100	32483	80471	-13728	84683	93318	147226	30299	113988	57995	49318	135596	61158	23232

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	968 Plant 1	969 Plant 1	970 Plant 1	971 Plant 1	972 Plant 1	973 Plant 1	974 Plant 1	975 Plant 1	976 Plant 1	977 Plant 1	978 Plant 1	979 Plant 1	980 Plant 1	981 Plant 1
Start (Colonial)			76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256	53712	62991
Coyote	SIU	3	76495	132656	126905	110769	88811	229753	100035	54090	137093	171002	100664	74088	53544	62822
Crismon	SIU	3	75076	131237	125486	109350	87392	228334	98616	52671	135674	169583	99245	72669	52125	61403
Scottsdale	SIU	3	74561	130723	124971	108835	86877	227819	98101	52156	135159	169068	98731	72154	51610	60889
Sedimento	SIU	3	71667	127829	122077	105941	83983	224925	95207	49262	132265	166174	95836	69260	48716	57994
Canal System 2	SIU	3	50782	106943	101191	85055	63097	204039	74321	28376	111379	145289	74951	48375	27830	37109
Start (Colonial)			76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256	53712	62991
Coyote	Buffer	3	76086	132247	126495	110359	88402	229343	99625	53680	136684	170593	100255	73679	53135	62413
Crismon	Buffer	3	71195	127357	121605	105469	83511	224453	94735	48790	131793	165702	95365	68788	48244	57523
Scottsdale	Buffer	3	69420	125581	119829	103693	81736	222677	92959	47014	130018	163927	93589	67013	46469	55747
Sedimento	Buffer	3	59444	115605	109854	93717	71760	212701	82983	37038	120042	153951	83613	57037	36493	45771
Canal System 2	Buffer	3	24477	80639	74887	58751	36793	177735	48017	2072	85075	118984	48646	22070	1526	10804
Start (Colonial)			76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256	53712	62991
Coyote	SIU	4	76439	132600	126849	110712	88755	229696	99978	54033	137037	170946	100608	74032	53488	62766
Crismon	SIU	4	74547	130708	124957	108820	86863	227804	98086	52141	135145	169054	98716	72140	51596	60874
Scottsdale	SIU	4	73861	130022	124270	108134	86176	227118	97400	51455	134458	168368	98030	71454	50909	60188
Sedimento	SIU	4	70002	126163	120411	104275	82317	223259	93541	47596	130600	164509	94171	67595	47050	56329
Canal System 2	SIU	4	42154	98316	92564	76428	54470	195412	65694	19749	102752	136661	66323	39747	19203	28481
Start (Colonial)			76664	132825	127073	110937	88979	229921	100203	54258	137261	171171	100833	74256	53712	62991
Coyote	Buffer	4	75894	132055	126303	110167	88209	229151	99433	53488	136491	170401	100063	73486	52942	62221
Crismon	Buffer	4	69373	125534	119782	103646	81688	222630	92912	46967	129970	163880	93542	66966	46421	55700
Scottsdale	Buffer	4	67006	123167	117415	101279	79321	220263	90545	44600	127603	161513	91175	64598	44054	53333
Sedimento	Buffer	4	53704	109866	104114	87978	66020	206962	77244	31299	114302	148211	77873	51297	30753	40031
Canal System 2	Buffer	4	7082	63243	57491	41355	19397	160339	30621	-15324	67680	101589	31251	4675	-15870	-6591

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	982 Plant 1	983 Plant 1	984 Plant 1	985 Plant 1	986 Plant 1	987 Plant 1	988 Plant 1	989 Plant 1	990 Plant 1	991 Plant 1	992 Plant 1	993 Plant 1	994 Plant 1	995 Plant 1
Start (Colonial)			150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648	123630
Coyote	SIU	3	150808	136421	64376	111706	161052	158491	213351	203806	76873	68938	166188	62934	140480	123462
Crismon	SIU	3	149389	135002	62957	110287	159633	157072	211932	202387	75454	67519	164769	61515	139061	122043
Scottsdale	SIU	3	148874	134487	62442	109772	159118	156557	211417	201872	74939	67004	164254	61001	138546	121528
Sedimento	SIU	3	145980	131593	59548	106878	156224	153663	208523	198978	72045	64110	161360	58106	135652	118634
Canal System 2	SIU	3	125094	110707	38662	85993	135338	132777	187637	178093	51160	43224	140474	37221	114766	97748
Start (Colonial)			150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648	123630
Coyote	Buffer	3	150399	136012	63967	111297	160643	158082	212941	203397	76464	68529	165779	62525	140070	123053
Crismon	Buffer	3	145508	131121	59076	106406	155752	153191	208051	198506	71573	63638	160888	57635	135180	118162
Scottsdale	Buffer	3	143733	129346	57301	104631	153977	151416	206275	196731	69798	61863	159113	55859	133404	116387
Sedimento	Buffer	3	133757	119370	47325	94655	144001	141440	196299	186755	59822	51887	149137	45883	123428	106411
Canal System 2	Buffer	3	98790	84403	12358	59688	109034	106473	161333	151788	24855	16920	114170	10916	88462	71444
Start (Colonial)			150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648	123630
Coyote	SIU	4	150752	136365	64320	111650	160996	158435	213294	203750	76817	68882	166132	62878	140423	123406
Crismon	SIU	4	148860	134473	62428	109758	159104	156543	211402	201858	74925	66990	164240	60986	138531	121514
Scottsdale	SIU	4	148173	133787	61741	109072	158417	155856	210716	201172	74239	66304	163554	60300	137845	120827
Sedimento	SIU	4	144314	129928	57882	105213	154559	151998	206857	197313	70380	62445	159695	56441	133986	116969
Canal System 2	SIU	4	116467	102080	30035	77365	126711	124150	179010	169465	42532	34597	131847	28593	106139	89121
Start (Colonial)			150976	136589	64544	111875	161220	158659	213519	203974	77041	69106	166356	63103	140648	123630
Coyote	Buffer	4	150206	135819	63774	111105	160450	157889	212749	203204	76271	68336	165586	62333	139878	122860
Crismon	Buffer	4	143685	129299	57253	104584	153929	151368	206228	196684	69751	61816	159066	55812	133357	116339
Scottsdale	Buffer	4	141318	126931	54886	102217	151562	149001	203861	194316	67383	59448	156698	53445	130990	113972
Sedimento	Buffer	4	128017	113630	41585	88915	138261	135700	190560	181015	54082	46147	143397	40143	117689	100671
Canal System 2	Buffer	4	81394	67008	-5038	42293	91639	89078	143937	134393	7460	-475	96775	-6479	71066	54049

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	996 Plant 1	997 Plant 1	998 Plant 1	999 Plant 1	Total Deficits	800 Silk 1	801 Silk 1	802 Silk 1	803 Silk 1	804 Silk 1	805 Silk 1	806 Silk 1	807 Silk 1
Start (Colonial)			124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	SIU	3	124581	107452	125043	102834	0	147568	228438	147708	304949	237592	307136	160156	131798
Crismon	SIU	3	123162	106033	123624	101415	0	146149	227019	146289	303530	236173	305717	158737	130379
Scottsdale	SIU	3	122648	105518	123110	100900	0	145634	226504	145774	303015	235658	305202	158222	129864
Sedimento	SIU	3	119754	102624	120215	98006	0	142740	223610	142880	300121	232764	302308	155328	126970
Canal System 2	SIU	3	98868	81738	99330	77120	1	121854	202725	121995	279235	211878	281422	134443	106084
Start (Colonial)			124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	Buffer	3	124172	107043	124634	102424	0	147159	228029	147299	304540	237183	306726	159747	131388
Crismon	Buffer	3	119282	102152	119744	97534	0	142268	223138	142408	299649	232292	301836	154856	126498
Scottsdale	Buffer	3	117506	100377	117968	95758	0	140493	221363	140633	297874	230517	300060	153081	124722
Sedimento	Buffer	3	107530	90401	107992	85782	0	130517	211387	130657	287898	220541	290084	143105	114747
Canal System 2	Buffer	3	72564	55434	73025	50816	4	95550	176420	95690	252931	185574	255118	108138	79780
Start (Colonial)			124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	SIU	4	124525	107396	124987	102777	0	147512	228382	147652	304893	237536	307079	160100	131742
Crismon	SIU	4	122633	105504	123095	100885	0	145620	226490	145760	303001	235644	305187	158208	129850
Scottsdale	SIU	4	121947	104817	122409	100199	0	144933	225804	145074	302314	234957	304501	157522	129163
Sedimento	SIU	4	118088	100959	118550	96340	0	141075	221945	141215	298455	231099	300642	153663	125304
Canal System 2	SIU	4	90241	73111	90702	68493	1	113227	194097	113367	270608	203251	272795	125815	97457
Start (Colonial)			124750	107620	125212	103002		147736	228606	147876	305117	237760	307304	160325	131966
Coyote	Buffer	4	123980	106850	124442	102232	0	146966	227836	147106	304347	236990	306534	159555	131196
Crismon	Buffer	4	117459	100329	117921	95711	0	140445	221316	140586	297826	230469	300013	153034	124675
Scottsdale	Buffer	4	115092	97962	115554	93344	0	138078	218948	138218	295459	228102	297646	150667	122308
Sedimento	Buffer	4	101791	84661	102252	80043	1	124777	205647	124917	282158	214801	284345	137365	109007
Canal System 2	Buffer	4	55168	38039	55630	33420	22	78155	159025	78295	235535	168179	237722	90743	62384

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	808 Silk 1	809 Silk 1	810 Silk 1	811 Silk 1	812 Silk 1	813 Silk 1	814 Silk 1	815 Silk 1	816 Silk 1	817 Silk 1	818 Silk 1	819 Silk 1	820 Silk 1	821 Silk 1
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735
Coyote	SIU	3	57474	50591	213901	148493	174917	164642	150217	112621	99654	92799	72487	137867	195482	180566
Crismon	SIU	3	56055	49172	212482	147074	173498	163223	148798	111202	98235	91380	71068	136448	194063	179147
Scottsdale	SIU	3	55540	48657	211968	146559	172983	162708	148284	110687	97720	90866	70553	135934	193548	178633
Sedimento	SIU	3	52646	45763	209074	143665	170089	159814	145390	107793	94826	87972	67659	133040	190654	175739
Canal System 2	SIU	3	31760	24877	188188	122780	149204	138928	124504	86907	73941	67086	46774	112154	169768	154853
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735
Coyote	Buffer	3	57065	50182	213492	148084	174508	164233	149808	112212	99245	92390	72078	137458	195073	180157
Crismon	Buffer	3	52174	45291	208602	143193	169617	159342	144918	107321	94354	87500	67187	132568	190182	175267
Scottsdale	Buffer	3	50399	43516	206826	141418	167842	157567	143142	105546	92579	85724	65412	130792	188407	173491
Sedimento	Buffer	3	40423	33540	196850	131442	157866	147591	133166	95570	82603	75748	55436	120816	178431	163515
Canal System 2	Buffer	3	5456	-1427	161884	96475	122899	112624	98200	60603	47636	40782	20469	85850	143464	128549
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735
Coyote	SIU	4	57418	50535	213845	148437	174861	164586	150161	112565	99598	92743	72431	137811	195426	180510
Crismon	SIU	4	55526	48643	211953	146545	172969	162694	148269	110673	97706	90851	70539	135919	193534	178618
Scottsdale	SIU	4	54839	47957	211267	145859	172283	162007	147583	109986	97020	90165	69853	135233	192847	177932
Sedimento	SIU	4	50981	44098	207408	142000	168424	158149	143724	106128	93161	86306	65994	131374	188988	174073
Canal System 2	SIU	4	23133	16250	179561	114152	140576	130301	115877	78280	65313	58459	38146	103527	161141	146226
Start (Colonial)			57642	50759	214070	148661	175086	164810	150386	112789	99823	92968	72656	138036	195650	180735
Coyote	Buffer	4	56872	49989	213300	147891	174316	164040	149616	112019	99053	92198	71886	137266	194880	179965
Crismon	Buffer	4	50351	43469	206779	141371	167795	157519	143095	105498	92532	85677	65365	130745	188359	173444
Scottsdale	Buffer	4	47984	41101	204412	139003	165428	155152	140728	103131	90165	83310	62998	128378	185992	171077
Sedimento	Buffer	4	34683	27800	191111	125702	152126	141851	127427	89830	76863	70009	49696	115077	172691	157776
Canal System 2	Buffer	4	-11939	-18822	144488	79080	105504	95229	80804	43208	30241	23386	3074	68454	126068	111153

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	822 Silk 1	823 Silk 1	824 Silk 1	825 Silk 1	826 Silk 1	827 Silk 1	828 Silk 1	829 Silk 1	830 Silk 1	831 Silk 1	832 Silk 1	833 Silk 1	834 Silk 1	835 Silk 1
Start (Colonial)			257105	72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423
Coyote	SIU	3	256937	72796	115074	55399	181982	145774	93150	111135	58035	179207	111822	171006	208168	160254
Crismon	SIU	3	255518	71377	113655	53980	180563	144355	91731	109716	56616	177788	110403	169587	206749	158835
Scottsdale	SIU	3	255003	70862	113140	53465	180049	143840	91216	109201	56101	177273	109888	169072	206234	158321
Sedimento	SIU	3	252109	67968	110246	50571	177154	140946	88322	106307	53207	174379	106994	166178	203340	155426
Canal System 2	SIU	3	231223	47082	89361	29686	156269	120060	67436	85421	32321	153493	86108	145293	182454	134541
Start (Colonial)			257105	72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423
Coyote	Buffer	3	256528	72386	114665	54990	181573	145364	92741	110726	57625	178798	111413	170597	207759	159845
Crismon	Buffer	3	251637	67496	109774	50099	176683	140474	87850	105835	52735	173907	106522	165706	202868	154955
Scottsdale	Buffer	3	249862	65720	107999	48324	174907	138698	86075	104060	50959	172132	104747	163931	201093	153179
Sedimento	Buffer	3	239886	55745	98023	38348	164931	128723	76099	94084	40984	162156	94771	153955	191117	143203
Canal System 2	Buffer	3	204919	20778	63056	3381	129964	93756	41132	59117	6017	127189	59804	118988	156150	108236
Start (Colonial)			257105	72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423
Coyote	SIU	4	256881	72740	115018	55343	181926	145718	93094	111079	57979	179151	111766	170950	208112	160198
Crismon	SIU	4	254989	70848	113126	53451	180034	143826	91202	109187	56087	177259	109874	169058	206220	158306
Scottsdale	SIU	4	254302	70161	112440	52765	179348	143139	90515	108501	55400	176572	109187	168372	205534	157620
Sedimento	SIU	4	250444	66302	108581	48906	175489	139280	86657	104642	51541	172713	105329	164513	201675	153761
Canal System 2	SIU	4	222596	38455	80733	21058	147641	111433	58809	76794	23694	144866	77481	136665	173827	125913
Start (Colonial)			257105	72964	115242	55568	182151	145942	93318	111303	58203	179375	111990	171174	208336	160423
Coyote	Buffer	4	256335	72194	114472	54798	181381	145172	92548	110533	57433	178605	111220	170404	207566	159653
Crismon	Buffer	4	249814	65673	107952	48277	174860	138651	86027	104013	50912	172084	104699	163884	201046	153132
Scottsdale	Buffer	4	247447	63306	105584	45910	172493	136284	83660	101645	48545	169717	102332	161516	198678	150765
Sedimento	Buffer	4	234146	50005	92283	32608	159191	122983	70359	88344	35244	156416	89031	148215	185377	137463
Canal System 2	Buffer	4	187524	3382	45661	-14014	112569	76360	23737	41722	-11379	109793	42409	101593	138755	90841

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	836 Silk 1	837 Silk 1	838 Silk 1	839 Silk 1	840 Silk 1	841 Silk 1	842 Silk 1	843 Silk 1	844 Silk 1	845 Silk 1	846 Silk 1	847 Silk 1	848 Silk 1	849 Silk 1
Start (Colonial)			176347	101603	17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777
Coyote	SIU	3	176179	101435	17256	83043	51390	118621	129134	164754	127368	162315	106944	58245	154787	82608
Crismon	SIU	3	174760	100016	15837	81624	49971	117202	127715	163335	125949	160896	105525	56826	153368	81189
Scottsdale	SIU	3	174245	99501	15322	81109	49456	116687	127200	162820	125434	160381	105010	56311	152853	80675
Sedimento	SIU	3	171351	96607	12428	78215	46562	113793	124306	159926	122540	157487	102116	53417	149959	77780
Canal System 2	SIU	3	150465	75721	-8457	57329	25677	92907	103421	139041	101654	136601	81230	32531	129074	56895
Start (Colonial)			176347	101603	17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777
Coyote	Buffer	3	175770	101025	16847	82634	50981	118212	128725	164345	126959	161906	106534	57836	154378	82199
Crismon	Buffer	3	170879	96135	11956	77743	46090	113321	123834	159454	122068	157015	101644	52945	149487	77309
Scottsdale	Buffer	3	169104	94359	10181	75968	44315	111546	122059	157679	120293	155240	99868	51170	147712	75533
Sedimento	Buffer	3	159128	84383	205	65992	34339	101570	112083	147703	110317	145264	89893	41194	137736	65557
Canal System 2	Buffer	3	124161	49417	-34762	31025	-628	66603	77116	112736	75350	110297	54926	6227	102769	30590
Start (Colonial)			176347	101603	17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777
Coyote	SIU	4	176123	101378	17200	82987	51334	118565	129078	164698	127312	162259	106888	58189	154731	82552
Crismon	SIU	4	174231	99486	15308	81095	49442	116673	127186	162806	125420	160367	104996	56297	152839	80660
Scottsdale	SIU	4	173544	98800	14622	80408	48756	115986	126500	162120	124733	159680	104309	55610	152153	79974
Sedimento	SIU	4	169686	94941	10763	76550	44897	112127	122641	158261	120875	155822	100450	51752	148294	76115
Canal System 2	SIU	4	141838	67094	-17085	48702	17049	84280	94793	130413	93027	127974	72603	23904	120446	48267
Start (Colonial)			176347	101603	17424	83211	51558	118789	129303	164922	127536	162483	107112	58413	154956	82777
Coyote	Buffer	4	175577	100833	16654	82441	50788	118019	128533	164152	126766	161713	106342	57643	154186	82007
Crismon	Buffer	4	169056	94312	10134	75920	44268	111498	122012	157632	120245	155192	99821	51122	147665	75486
Scottsdale	Buffer	4	166689	91945	7766	73553	41900	109131	119645	155264	117878	152825	97454	48755	145298	73119
Sedimento	Buffer	4	153388	78644	-5535	60252	28599	95830	106343	141963	104577	139524	84153	35454	131996	59817
Canal System 2	Buffer	4	106766	32021	-52157	13630	-18023	49207	59721	95341	57955	92902	37530	-11168	85374	13195

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	850 Silk 1	851 Silk 1	852 Silk 1	853 Silk 1	854 Silk 1	855 Silk 1	856 Silk 1	857 Silk 1	858 Silk 1	859 Silk 1	860 Silk 1	861 Silk 1	862 Silk 1	863 Silk 1
Start (Colonial)			154928	110098	186721	110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942
Coyote	SIU	3	154759	109930	186552	110238	206710	103019	206808	126569	176922	146475	104533	164334	156512	145774
Crismon	SIU	3	153340	108511	185133	108819	205291	101600	205389	125150	175503	145056	103114	162915	155093	144355
Scottsdale	SIU	3	152825	107996	184618	108304	204776	101085	204874	124635	174988	144541	102599	162400	154578	143840
Sedimento	SIU	3	149931	105102	181724	105410	201882	98191	201980	121741	172094	141647	99705	159506	151684	140946
Canal System 2	SIU	3	129046	84216	160839	84524	180997	77305	181095	100855	151208	120761	78819	138620	130798	120060
Start (Colonial)			154928	110098	186721	110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942
Coyote	Buffer	3	154350	109520	186143	109829	206301	102609	206399	126160	176513	146065	104123	163924	156102	145364
Crismon	Buffer	3	149459	104630	181252	104938	201410	97719	201508	121269	171622	141175	99233	159034	151212	140474
Scottsdale	Buffer	3	147684	102854	179477	103163	199635	95943	199733	119494	169847	139399	97457	157258	149436	138698
Sedimento	Buffer	3	137708	92878	169501	93187	189659	85968	189757	109518	159871	129423	87481	147282	139460	128723
Canal System 2	Buffer	3	102741	57912	134534	58220	154692	51001	154790	74551	124904	94457	52515	112316	104494	93756
Start (Colonial)			154928	110098	186721	110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942
Coyote	SIU	4	154703	109873	186496	110182	206654	102963	206752	126513	176866	146418	104476	164277	156455	145718
Crismon	SIU	4	152811	107981	184604	108290	204762	101071	204860	124621	174974	144526	102584	162385	154563	143826
Scottsdale	SIU	4	152125	107295	183918	107603	204076	100384	204174	123934	174287	143840	101898	161699	153877	143139
Sedimento	SIU	4	148266	103436	180059	103745	200217	96525	200315	120076	170429	139981	98039	157840	150018	139280
Canal System 2	SIU	4	120418	75589	152211	75897	172369	68678	172467	92228	142581	112134	70192	129993	122171	111433
Start (Colonial)			154928	110098	186721	110406	206878	103187	206977	126737	177090	146643	104701	164502	156680	145942
Coyote	Buffer	4	154158	109328	185951	109636	206108	102417	206207	125967	176320	145873	103931	163732	155910	145172
Crismon	Buffer	4	147637	102807	179430	103115	199588	95896	199686	119446	169799	139352	97410	157211	149389	138651
Scottsdale	Buffer	4	145270	100440	177063	100748	197220	93529	197319	117079	167432	136985	95043	154844	147022	136284
Sedimento	Buffer	4	131968	87139	163761	87447	183919	80228	184017	103778	154131	123684	81742	141543	133721	122983
Canal System 2	Buffer	4	85346	40516	117139	40825	137297	33605	137395	57156	107509	77061	35119	94920	87098	76360

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	864 Silk 1	865 Silk 1	866 Silk 1	867 Silk 1	868 Silk 1	869 Silk 1	870 Silk 1	871 Silk 1	872 Silk 1	873 Silk 1	874 Silk 1	875 Silk 1	876 Silk 1	877 Silk 1
Start (Colonial)			116756	81249	118817	81052	128405	206556	102192	126933	102963	204285	127242	164740	205883	131265
Coyote	SIU	3	116588	81080	118649	80884	128237	206388	102023	126765	102794	204117	127074	164572	205715	131097
Crismon	SIU	3	115169	79661	117230	79465	126818	204969	100604	125346	101375	202698	125655	163153	204296	129678
Scottsdale	SIU	3	114654	79147	116715	78950	126303	204454	100090	124831	100861	202183	125140	162638	203781	129163
Sedimento	SIU	3	111760	76252	113821	76056	123409	201560	97195	121937	97966	199289	122246	159744	200887	126269
Canal System 2	SIU	3	90874	55367	92935	55171	102523	180674	76310	101052	77081	178403	101360	138858	180001	105383
Start (Colonial)			116756	81249	118817	81052	128405	206556	102192	126933	102963	204285	127242	164740	205883	131265
Coyote	Buffer	3	116179	80671	118240	80475	127828	205979	101614	126356	102385	203708	126664	164163	205306	130688
Crismon	Buffer	3	111288	75781	113349	75584	122937	201088	96724	121465	97495	198817	121774	159272	200415	125797
Scottsdale	Buffer	3	109513	74005	111574	73809	121162	199313	94948	119690	95719	197042	119998	157497	198640	124022
Sedimento	Buffer	3	99537	64029	101598	63833	111186	189337	84972	109714	85743	187066	110022	147521	188664	114046
Canal System 2	Buffer	3	64570	29062	66631	28866	76219	154370	50005	74747	50776	152099	75056	112554	153697	79079
Start (Colonial)			116756	81249	118817	81052	128405	206556	102192	126933	102963	204285	127242	164740	205883	131265
Coyote	SIU	4	116532	81024	118593	80828	128181	206332	101967	126709	102738	204061	127017	164516	205659	131041
Crismon	SIU	4	114640	79132	116701	78936	126289	204440	100075	124817	100846	202169	125125	162624	203767	129149
Scottsdale	SIU	4	113954	78446	116014	78250	125603	203753	99389	124131	100160	201482	124439	161937	203080	128462
Sedimento	SIU	4	110095	74587	112155	74391	121744	199894	95530	120272	96301	197624	120580	158079	199222	124603
Canal System 2	SIU	4	82247	46739	84308	46543	93896	172047	67682	92424	68453	169776	92733	130231	171374	96756
Start (Colonial)			116756	81249	118817	81052	128405	206556	102192	126933	102963	204285	127242	164740	205883	131265
Coyote	Buffer	4	115986	80479	118047	80282	127635	205786	101422	126163	102193	203515	126472	163970	205113	130495
Crismon	Buffer	4	109466	73958	111526	73762	121115	199265	94901	119643	95672	196994	119951	157449	198592	123974
Scottsdale	Buffer	4	107098	71591	109159	71394	118747	196898	92534	117275	93305	194627	117584	155082	196225	121607
Sedimento	Buffer	4	93797	58289	95858	58093	105446	183597	79232	103974	80003	181326	104283	141781	182924	108306
Canal System 2	Buffer	4	47175	11667	49235	11471	58824	136974	32610	57352	33381	134704	57660	95159	136302	61683

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	878 Silk 1	879 Silk 1	880 Silk 1	881 Silk 1	882 Silk 1	883 Silk 1	884 Silk 1	885 Silk 1	886 Silk 1	887 Silk 1	888 Silk 1	889 Silk 1	890 Silk 1	891 Silk 1
Start (Colonial)			100622	103075	179193	167628	112537	73665	62717	135008	103650	145774	265152	74394	191024	182081
Coyote	SIU	3	100453	102906	179025	167460	112369	73497	62548	134840	103481	145605	264983	74226	190856	181912
Crismon	SIU	3	99034	101487	177606	166041	110950	72078	61129	133421	102062	144186	263564	72807	189437	180493
Scottsdale	SIU	3	98520	100973	177091	165526	110435	71563	60615	132906	101547	143672	263049	72292	188922	179978
Sedimento	SIU	3	95625	98079	174197	162632	107541	68669	57721	130012	98653	140778	260155	69398	186028	177084
Canal System 2	SIU	3	74740	77193	153311	141746	86655	47783	36835	109126	77768	119892	239270	48512	165142	156199
Start (Colonial)			100622	103075	179193	167628	112537	73665	62717	135008	103650	145774	265152	74394	191024	182081
Coyote	Buffer	3	100044	102497	178615	167050	111959	73087	62139	134430	103072	145196	264574	73816	190447	181503
Crismon	Buffer	3	95154	97607	173725	162160	107069	68197	57249	129540	98181	140306	259683	68926	185556	176612
Scottsdale	Buffer	3	93378	95831	171949	160384	105293	66421	55473	127764	96406	138530	257908	67150	183781	174837
Sedimento	Buffer	3	83402	85855	161973	150409	95318	56445	45497	117788	86430	128554	247932	57174	173805	164861
Canal System 2	Buffer	3	48435	50889	127007	115442	60351	21479	10531	82822	51463	93588	212965	22208	138838	129894
Start (Colonial)			100622	103075	179193	167628	112537	73665	62717	135008	103650	145774	265152	74394	191024	182081
Coyote	SIU	4	100397	102850	178968	167404	112313	73440	62492	134783	103425	145549	264927	74169	190800	181856
Crismon	SIU	4	98505	100958	177076	165512	110421	71548	60600	132891	101533	143657	263035	72277	188908	179964
Scottsdale	SIU	4	97819	100272	176390	164825	109734	70862	59914	132205	100847	142971	262349	71591	188221	179278
Sedimento	SIU	4	93960	96413	172531	160966	105875	67003	56055	128346	96988	139112	258490	67732	184362	175419
Canal System 2	SIU	4	66112	68566	144684	133119	78028	39156	28208	100499	69140	111265	230642	39885	156515	147571
Start (Colonial)			100622	103075	179193	167628	112537	73665	62717	135008	103650	145774	265152	74394	191024	182081
Coyote	Buffer	4	99852	102305	178423	166858	111767	72895	61947	134238	102880	145004	264382	73624	190254	181311
Crismon	Buffer	4	93331	95784	171902	160337	105246	66374	55426	127717	96359	138483	257861	67103	183733	174790
Scottsdale	Buffer	4	90964	93417	169535	157970	102879	64007	53059	125350	93992	136116	255494	64736	181366	172423
Sedimento	Buffer	4	77662	80116	156234	144669	89578	50706	39758	112049	80690	122815	242192	51435	168065	159121
Canal System 2	Buffer	4	31040	33493	109611	98046	42955	4083	-6865	65426	34068	76192	195570	4812	121442	112499

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	892 Silk 1	893 Silk 1	894 Silk 1	895 Silk 1	896 Silk 1	897 Silk 1	898 Silk 1	899 Silk 1	900 Silk 1	901 Silk 1	902 Silk 1	903 Silk 1	904 Silk 1	905 Silk 1
Start (Colonial)			78950	163282	92239	89659	115425	202645	204131	364441	61007	110546	84066	69305	71114	125504
Coyote	SIU	3	78781	163114	92071	89491	115256	202477	203963	364273	60838	110378	83898	69137	70945	125335
Crismon	SIU	3	77362	161695	90652	88072	113837	201058	202544	362854	59419	108959	82479	67718	69526	123916
Scottsdale	SIU	3	76848	161180	90137	87557	113323	200543	202029	362339	58904	108444	81964	67203	69011	123402
Sedimento	SIU	3	73953	158286	87243	84663	110428	197649	199135	359445	56010	105550	79070	64309	66117	120507
Canal System 2	SIU	3	53068	137400	66357	63778	89543	176763	178249	338560	35125	84664	58184	43423	45232	99622
Start (Colonial)			78950	163282	92239	89659	115425	202645	204131	364441	61007	110546	84066	69305	71114	125504
Coyote	Buffer	3	78372	162705	91661	89082	114847	202068	203553	363864	60429	109969	83489	68728	70536	124926
Crismon	Buffer	3	73482	157814	86771	84191	109957	197177	198663	358973	55538	105078	78598	63837	65645	120036
Scottsdale	Buffer	3	71706	156039	84995	82416	108181	195402	196887	357198	53763	103303	76823	62062	63870	118260
Sedimento	Buffer	3	61730	146063	75019	72440	98205	185426	186912	347222	43787	93327	66847	52086	53894	108284
Canal System 2	Buffer	3	26763	111096	40053	37473	63238	150459	151945	312255	8820	58360	31880	17119	18927	73317
Start (Colonial)			78950	163282	92239	89659	115425	202645	204131	364441	61007	110546	84066	69305	71114	125504
Coyote	SIU	4	78725	163058	92014	89435	115200	202421	203907	364217	60782	110322	83842	69081	70889	125279
Crismon	SIU	4	76833	161166	90122	87543	113308	200529	202015	362325	58890	108430	81950	67189	68997	123387
Scottsdale	SIU	4	76147	160480	89436	86857	112622	199842	201328	361639	58204	107744	81263	66502	68311	122701
Sedimento	SIU	4	72288	156621	85577	82998	108763	195983	197469	357780	54345	103885	77405	62644	64452	118842
Canal System 2	SIU	4	44440	128773	57730	55150	80915	168136	169622	329932	26497	76037	49557	34796	36604	90994
Start (Colonial)			78950	163282	92239	89659	115425	202645	204131	364441	61007	110546	84066	69305	71114	125504
Coyote	Buffer	4	78180	162512	91469	88889	114655	201875	203361	363671	60237	109776	83296	68535	70344	124734
Crismon	Buffer	4	71659	155992	84948	82369	108134	195354	196840	357151	53716	103256	76775	62014	63823	118213
Scottsdale	Buffer	4	69292	153624	82581	80001	105767	192987	194473	354783	51349	100888	74408	59647	61456	115846
Sedimento	Buffer	4	55990	140323	69280	66700	92465	179686	181172	341482	38047	87587	61107	46346	48154	102544
Canal System 2	Buffer	4	9368	93701	22657	20078	45843	133063	134549	294860	-8575	40965	14485	-276	1532	55922

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	906 Silk 1	907 Silk 1	908 Silk 1	909 Silk 1	910 Silk 1	911 Silk 1	912 Silk 1	913 Silk 1	914 Silk 1	915 Silk 1	916 Silk 1	917 Silk 1	918 Silk 1	919 Silk 1
Start (Colonial)			83660	74450	133662	133003	90444	162553	161488	123653	128924	181954	88258	201790	114976	113336
Coyote	SIU	3	83491	74282	133494	132835	90276	162385	161320	123485	128756	181786	88089	201622	114808	113168
Crismon	SIU	3	82072	72863	132075	131416	88857	160966	159901	122066	127337	180367	86670	200203	113389	111749
Scottsdale	SIU	3	81558	72348	131560	130901	88342	160451	159386	121551	126822	179852	86156	199688	112874	111234
Sedimento	SIU	3	78664	69454	128666	128007	85448	157557	156492	118657	123928	176958	83261	196794	109980	108340
Canal System 2	SIU	3	57778	48568	107780	107121	64563	136671	135606	97771	103042	156072	62376	175908	89094	87454
Start (Colonial)			83660	74450	133662	133003	90444	162553	161488	123653	128924	181954	88258	201790	114976	113336
Coyote	Buffer	3	83082	73872	133085	132426	89867	161976	160911	123076	128347	181377	87680	201212	114399	112758
Crismon	Buffer	3	78192	68982	128194	127535	84976	157085	156020	118185	123456	176486	82790	196322	109508	107868
Scottsdale	Buffer	3	76416	67206	126419	125760	83201	155310	154245	116410	121681	174711	81014	194546	107733	106092
Sedimento	Buffer	3	66440	57230	116443	115784	73225	145334	144269	106434	111705	164735	71038	184571	97757	96117
Canal System 2	Buffer	3	31474	22264	81476	80817	38258	110367	109302	71467	76738	129768	36071	149604	62790	61150
Start (Colonial)			83660	74450	133662	133003	90444	162553	161488	123653	128924	181954	88258	201790	114976	113336
Coyote	SIU	4	83435	74225	133438	132779	90220	162329	161264	123429	128700	181730	88033	201566	114752	113112
Crismon	SIU	4	81543	72333	131546	130887	88328	160437	159372	121537	126808	179838	86141	199674	112860	111220
Scottsdale	SIU	4	80857	71647	130859	130201	87642	159751	158685	120850	126121	179152	85455	198987	112173	110533
Sedimento	SIU	4	76998	67788	127001	126342	83783	155892	154826	116992	122262	175293	81596	195128	108314	106674
Canal System 2	SIU	4	49151	39941	99153	98494	55935	128044	126979	89144	94415	147445	53748	167281	80467	78827
Start (Colonial)			83660	74450	133662	133003	90444	162553	161488	123653	128924	181954	88258	201790	114976	113336
Coyote	Buffer	4	82890	73680	132892	132233	89674	161783	160718	122883	128154	181184	87488	201020	114206	112566
Crismon	Buffer	4	76369	67159	126371	125713	83154	155263	154197	116362	121633	174664	80967	194499	107685	106045
Scottsdale	Buffer	4	74002	64792	124004	123345	80786	152895	151830	113995	119266	172296	78600	192132	105318	103678
Sedimento	Buffer	4	60701	51491	110703	110044	67485	139594	138529	100694	105965	158995	65298	178831	92017	90377
Canal System 2	Buffer	4	14078	4868	64081	63422	20863	92972	91906	54072	59342	112373	18676	132208	45394	43754

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	920 Silk 1	921 Silk 1	922 Silk 1	923 Silk 1	924 Silk 1	925 Silk 1	926 Silk 1	927 Silk 1	928 Silk 1	929 Silk 1	930 Silk 1	931 Silk 1	932 Silk 1	933 Silk 1
Start (Colonial)			56282	103607	69067	85903	69516	109004	172829	127368	250236	206458	130130	207033	153049	90136
Coyote	SIU	3	56114	103439	68899	85734	69347	108836	172660	127200	250068	206290	129961	206864	152881	89968
Crismon	SIU	3	54695	102020	67480	84315	67928	107417	171241	125781	248649	204871	128542	205445	151462	88549
Scottsdale	SIU	3	54180	101505	66965	83801	67413	106902	170727	125266	248134	204356	128028	204931	150947	88034
Sedimento	SIU	3	51286	98611	64071	80906	64519	104008	167832	122372	245240	201462	125133	202036	148053	85140
Canal System 2	SIU	3	30401	77726	43185	60021	43634	83123	146947	101486	224354	180576	104248	181151	127167	64254
Start (Colonial)			56282	103607	69067	85903	69516	109004	172829	127368	250236	206458	130130	207033	153049	90136
Coyote	Buffer	3	55705	103030	68489	85325	68938	108427	172251	126791	249659	205880	129552	206455	152472	89559
Crismon	Buffer	3	50814	98139	63599	80435	64047	103536	167361	121900	244768	200990	124662	201565	147581	84668
Scottsdale	Buffer	3	49039	96364	61823	78659	62272	101761	165585	120125	242993	199214	122886	199789	145806	82893
Sedimento	Buffer	3	39063	86388	51848	68683	52296	91785	155609	110149	233017	189239	112910	189813	135830	72917
Canal System 2	Buffer	3	4096	51421	16881	33716	17329	56818	120642	75182	198050	154272	77943	154846	100863	37950
Start (Colonial)			56282	103607	69067	85903	69516	109004	172829	127368	250236	206458	130130	207033	153049	90136
Coyote	SIU	4	56058	103383	68843	85678	69291	108780	172604	127144	250012	206234	129905	206808	152825	89912
Crismon	SIU	4	54166	101491	66951	83786	67399	106888	170712	125252	248120	204342	128013	204916	150933	88020
Scottsdale	SIU	4	53480	100805	66264	83100	66713	106202	170026	124565	247434	203655	127327	204230	150246	87333
Sedimento	SIU	4	49621	96946	62405	79241	62854	102343	166167	120706	243575	199796	123468	200371	146388	83475
Canal System 2	SIU	4	21773	69098	34558	51393	35006	74495	138319	92859	215727	171949	95620	172523	118540	55627
Start (Colonial)			56282	103607	69067	85903	69516	109004	172829	127368	250236	206458	130130	207033	153049	90136
Coyote	Buffer	4	55512	102837	68297	85133	68746	108234	172059	126598	249466	205688	129360	206263	152279	89366
Crismon	Buffer	4	48992	96317	61776	78612	62225	101714	165538	120077	242946	199167	122839	199742	145758	82845
Scottsdale	Buffer	4	46624	93949	59409	76245	59858	99346	163171	117710	240578	196800	120472	197375	143391	80478
Sedimento	Buffer	4	33323	80648	46108	62943	46556	86045	149869	104409	227277	183499	107170	184073	130090	67177
Canal System 2	Buffer	4	-13299	34026	-515	16321	-66	39423	103247	57786	180655	136876	60548	137451	83468	20555

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	934 Silk 1	935 Silk 1	936 Silk 1	937 Silk 1	938 Silk 1	939 Silk 1	940 Silk 1	941 Silk 1	942 Silk 1	943 Silk 1	944 Silk 1	945 Silk 1	946 Silk 1	947 Silk 1
Start (Colonial)			93641	103271	139396	76539	197276	139269	167642	193393	219551	57740	172787	211000	169576	153484
Coyote	SIU	3	93472	103103	139227	76370	197108	139101	167474	193225	219382	57572	172618	210831	169408	153315
Crismon	SIU	3	92053	101684	137808	74951	195689	137682	166055	191806	217963	56153	171199	209412	167989	151896
Scottsdale	SIU	3	91539	101169	137293	74436	195174	137167	165540	191291	217449	55638	170684	208898	167474	151382
Sedimento	SIU	3	88644	98275	134399	71542	192280	134273	162646	188397	214555	52744	167790	206004	164580	148487
Canal System 2	SIU	3	67759	77389	113514	50657	171394	113387	141760	167511	193669	31858	146905	185118	143695	127602
Start (Colonial)			93641	103271	139396	76539	197276	139269	167642	193393	219551	57740	172787	211000	169576	153484
Coyote	Buffer	3	93063	102694	138818	75961	196699	138692	167064	192816	218973	57163	172209	210422	168999	152906
Crismon	Buffer	3	88173	97803	133927	71070	191808	133801	162174	187925	214083	52272	167318	205532	164108	148016
Scottsdale	Buffer	3	86397	96028	132152	69295	190033	132026	160398	186150	212307	50497	165543	203756	162333	146240
Sedimento	Buffer	3	76421	86052	122176	59319	180057	122050	150423	176174	202331	40521	155567	193780	152357	136264
Canal System 2	Buffer	3	41454	51085	87209	24352	145090	87083	115456	141207	167365	5554	120600	158814	117390	101297
Start (Colonial)			93641	103271	139396	76539	197276	139269	167642	193393	219551	57740	172787	211000	169576	153484
Coyote	SIU	4	93416	103047	139171	76314	197052	139045	167418	193169	219326	57516	172562	210775	169352	153259
Crismon	SIU	4	91524	101155	137279	74422	195160	137153	165526	191277	217434	55624	170670	208883	167460	151367
Scottsdale	SIU	4	90838	100468	136593	73736	194473	136467	164839	190590	216748	54938	169984	208197	166774	150681
Sedimento	SIU	4	86979	96609	132734	69877	190615	132608	160980	186732	212889	51079	166125	204338	162915	146822
Canal System 2	SIU	4	59131	68762	104886	42029	162767	104760	133133	158884	185042	23231	138277	176491	135067	118974
Start (Colonial)			93641	103271	139396	76539	197276	139269	167642	193393	219551	57740	172787	211000	169576	153484
Coyote	Buffer	4	92871	102501	138626	75769	196506	138499	166872	192623	218781	56970	172017	210230	168806	152714
Crismon	Buffer	4	86350	95980	132105	69248	189985	131979	160351	186102	212260	50450	165496	203709	162286	146193
Scottsdale	Buffer	4	83983	93613	129738	66881	187618	129611	157984	183735	209893	48082	163129	201342	159918	143826
Sedimento	Buffer	4	70681	80312	116436	53579	174317	116310	144683	170434	196592	34781	149827	188041	146617	130524
Canal System 2	Buffer	4	24059	33689	69814	6957	127695	69688	98060	123812	149969	-11841	103205	141418	99995	83902

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	948 Silk 1	949 Silk 1	950 Silk 1	951 Silk 1	952 Silk 1	953 Silk 1	954 Silk 1	955 Silk 1	956 Silk 1	957 Silk 1	958 Silk 1	959 Silk 1	960 Silk 1	961 Silk 1
Start (Colonial)			206780	192987	148199	73609	163801	133354	43554	102234	150302	55946	154521	163170	217168	100047
Coyote	SIU	3	206612	192818	148031	73441	163633	133185	43386	102065	150133	55778	154353	163002	216999	99879
Crismon	SIU	3	205193	191399	146612	72022	162214	131766	41967	100646	148714	54359	152934	161583	215580	98460
Scottsdale	SIU	3	204678	190884	146097	71507	161699	131252	41452	100132	148199	53844	152419	161068	215066	97945
Sedimento	SIU	3	201784	187990	143203	68613	158805	128358	38558	97237	145305	50950	149525	158174	212172	95051
Canal System 2	SIU	3	180898	167105	122317	47727	137919	107472	17672	76352	124420	30064	128639	137288	191286	74165
Start (Colonial)			206780	192987	148199	73609	163801	133354	43554	102234	150302	55946	154521	163170	217168	100047
Coyote	Buffer	3	206203	192409	147621	73031	163223	132776	42977	101656	149724	55369	153944	162593	216590	99469
Crismon	Buffer	3	201312	187518	142731	68141	158333	127886	38086	96766	144833	50478	149053	157702	211700	94579
Scottsdale	Buffer	3	199537	185743	140955	66365	156557	126110	36311	94990	143058	48703	147278	155927	209924	92803
Sedimento	Buffer	3	189561	175767	130979	56389	146582	116134	26335	85014	133082	38727	137302	145951	199948	82827
Canal System 2	Buffer	3	154594	140800	96013	21423	111615	81168	-8632	50047	98115	3760	102335	110984	164982	47861
Start (Colonial)			206780	192987	148199	73609	163801	133354	43554	102234	150302	55946	154521	163170	217168	100047
Coyote	SIU	4	206556	192762	147974	73384	163577	133129	43330	102009	150077	55722	154297	162946	216943	99822
Crismon	SIU	4	204664	190870	146082	71492	161685	131237	41438	100117	148185	53830	152405	161054	215051	97930
Scottsdale	SIU	4	203978	190184	145396	70806	160998	130551	40751	99431	147499	53143	151718	160367	214365	97244
Sedimento	SIU	4	200119	186325	141537	66947	157139	126692	36893	95572	143640	49284	147859	156509	210506	93385
Canal System 2	SIU	4	172271	158477	113690	39100	129292	98845	9045	67724	115792	21437	120012	128661	182659	65538
Start (Colonial)			206780	192987	148199	73609	163801	133354	43554	102234	150302	55946	154521	163170	217168	100047
Coyote	Buffer	4	206010	192217	147429	72839	163031	132584	42784	101464	149532	55176	153751	162400	216398	99277
Crismon	Buffer	4	199490	185696	140908	66318	156510	126063	36263	94943	143011	48655	147230	155879	209877	92756
Scottsdale	Buffer	4	197122	183329	138541	63951	154143	123696	33896	92576	140644	46288	144863	153512	207510	90389
Sedimento	Buffer	4	183821	170027	125240	50650	140842	110395	20595	79274	127342	32987	131562	140211	194209	77088
Canal System 2	Buffer	4	137199	123405	78617	4027	94219	63772	-26027	32652	80720	-13636	84939	93589	147586	30465

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	962 Silk 1	963 Silk 1	964 Silk 1	965 Silk 1	966 Silk 1	967 Silk 1	968 Silk 1	969 Silk 1	970 Silk 1	971 Silk 1	972 Silk 1	973 Silk 1	974 Silk 1	975 Silk 1
Start (Colonial)			183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127	230303	100369	54348
Coyote	SIU	3	183707	127620	118929	205350	130788	92799	76623	132877	127116	110953	88959	230134	100201	54180
Crismon	SIU	3	182288	126201	117510	203931	129369	91380	75204	131458	125697	109534	87540	228715	98782	52761
Scottsdale	SIU	3	181773	125686	116995	203417	128855	90866	74689	130943	125182	109019	87025	228201	98267	52246
Sedimento	SIU	3	178879	122792	114101	200523	125960	87972	71795	128049	122288	106125	84131	225306	95373	49352
Canal System 2	SIU	3	157993	101907	93216	179637	105075	67086	50909	107163	101402	85239	63245	204421	74487	28466
Start (Colonial)			183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127	230303	100369	54348
Coyote	Buffer	3	183297	127211	118520	204941	130379	92390	76213	132468	126706	110544	88549	229725	99792	53771
Crismon	Buffer	3	178407	122320	113629	200051	125489	87500	71323	127577	121816	105653	83659	224835	94901	48880
Scottsdale	Buffer	3	176631	120545	111854	198275	123713	85724	69547	125802	120040	103878	81883	223059	93126	47105
Sedimento	Buffer	3	166655	110569	101878	188299	113737	75748	59572	115826	110065	93902	71907	213083	83150	37129
Canal System 2	Buffer	3	131689	75602	66911	153333	78770	40782	24605	80859	75098	58935	36941	178116	48183	2162
Start (Colonial)			183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127	230303	100369	54348
Coyote	SIU	4	183650	127564	118873	205294	130732	92743	76567	132821	127060	110897	88902	230078	100145	54124
Crismon	SIU	4	181758	125672	116981	203402	128840	90851	74675	130929	125168	109005	87010	228186	98253	52232
Scottsdale	SIU	4	181072	124986	116295	202716	128154	90165	73988	130243	124481	108318	86324	227500	97566	51545
Sedimento	SIU	4	177213	121127	112436	198857	124295	86306	70129	126384	120622	104460	82465	223641	93708	47686
Canal System 2	SIU	4	149366	93279	84588	171010	96447	58459	42282	98536	92775	76612	54618	195793	65860	19839
Start (Colonial)			183875	127789	119097	205519	130957	92968	76791	133045	127284	111121	89127	230303	100369	54348
Coyote	Buffer	4	183105	127019	118327	204749	130187	92198	76021	132275	126514	110351	88357	229533	99599	53578
Crismon	Buffer	4	176584	120498	111807	198228	123666	85677	69500	125755	119993	103830	81836	223012	93078	47057
Scottsdale	Buffer	4	174217	118131	109439	195861	121299	83310	67133	123387	117626	101463	79469	220645	90711	44690
Sedimento	Buffer	4	160916	104829	96138	182560	107997	70009	53832	110086	104325	88162	66168	207343	77410	31389
Canal System 2	Buffer	4	114293	58207	49516	135937	61375	23386	7209	63464	57702	41540	19545	160721	30788	-15234

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	976 Silk 1	977 Silk 1	978 Silk 1	979 Silk 1	980 Silk 1	981 Silk 1	982 Silk 1	983 Silk 1	984 Silk 1	985 Silk 1	986 Silk 1	987 Silk 1	988 Silk 1	989 Silk 1
Start (Colonial)			137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923	213873	204313
Coyote	SIU	3	137321	171287	100832	74212	53633	62927	151058	136648	64483	111892	161320	158754	213705	204145
Crismon	SIU	3	135902	169868	99413	72793	52214	61508	149639	135229	63064	110473	159901	157335	212286	202726
Scottsdale	SIU	3	135387	169353	98898	72278	51699	60993	149125	134714	62549	109958	159386	156821	211771	202211
Sedimento	SIU	3	132493	166459	96004	69384	48805	58099	146231	131820	59655	107064	156492	153927	208877	199317
Canal System 2	SIU	3	111607	145573	75118	48498	27919	37213	125345	110934	38769	86178	135606	133041	187992	178431
Start (Colonial)			137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923	213873	204313
Coyote	Buffer	3	136912	170877	100423	73802	53224	62518	150649	136239	64074	111483	160911	158345	213296	203736
Crismon	Buffer	3	132021	165987	95532	68912	48333	57627	145759	131348	59183	106592	156020	153455	208405	198845
Scottsdale	Buffer	3	130246	164211	93757	67136	46558	55852	143983	129573	57408	104817	154245	151679	206630	197070
Sedimento	Buffer	3	120270	154235	83781	57160	36582	45876	134007	119597	47432	94841	144269	141703	196654	187094
Canal System 2	Buffer	3	85303	119269	48814	22194	1615	10909	99041	84630	12465	59874	109302	106737	161687	152127
Start (Colonial)			137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923	213873	204313
Coyote	SIU	4	137265	171230	100776	74155	53577	62871	151002	136592	64427	111836	161264	158698	213649	204089
Crismon	SIU	4	135373	169338	98884	72263	51685	60979	149110	134700	62535	109944	159372	156806	211757	202197
Scottsdale	SIU	4	134686	168652	98197	71577	50998	60292	148424	134013	61848	109258	158685	156120	211071	201510
Sedimento	SIU	4	130827	164793	94338	67718	47140	56434	144565	130155	57990	105399	154826	152261	207212	197652
Canal System 2	SIU	4	102980	136946	66491	39871	19292	28586	116718	102307	30142	77551	126979	124414	179364	169804
Start (Colonial)			137489	171455	101000	74380	53801	63095	151227	136816	64651	112060	161488	158923	213873	204313
Coyote	Buffer	4	136719	170685	100230	73610	53031	62325	150457	136046	63881	111290	160718	158153	213103	203543
Crismon	Buffer	4	130198	164164	93709	67089	46510	55804	143936	129525	57360	104770	154197	151632	206583	197022
Scottsdale	Buffer	4	127831	161797	91342	64722	44143	53437	141569	127158	54993	102402	151830	149265	204215	194655
Sedimento	Buffer	4	114530	148496	78041	51421	30842	40136	128268	113857	41692	89101	138529	135964	190914	181354
Canal System 2	Buffer	4	67907	101873	31418	4798	-15780	-6486	81645	67235	-4930	42479	91906	89341	144292	134732

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	990 Silk 1	991 Silk 1	992 Silk 1	993 Silk 1	994 Silk 1	995 Silk 1	996 Silk 1	997 Silk 1	998 Silk 1	999 Silk 1	Total Deficits	800 Plant 2	801 Plant 2
Start (Colonial)			77169	69221	166633	63207	140881	123836	124957	107799	125420	103173		54342	84088
Coyote	SIU	3	77001	69053	166464	63039	140713	123667	124789	107631	125251	103005	0	54173	83920
Crismon	SIU	3	75582	67634	165045	61620	139294	122248	123370	106212	123832	101586	0	52754	82501
Scottsdale	SIU	3	75067	67119	164531	61105	138779	121733	122855	105697	123317	101071	0	52240	81986
Sedimento	SIU	3	72173	64225	161636	58211	135885	118839	119961	102803	120423	98177	0	49346	79092
Canal System 2	SIU	3	51287	43339	140751	37326	115000	97954	99075	81917	99538	77291	1	28460	58206
Start (Colonial)			77169	69221	166633	63207	140881	123836	124957	107799	125420	103173		54342	84088
Coyote	Buffer	3	76592	68644	166055	62630	140304	123258	124379	107221	124842	102595	0	53764	83511
Crismon	Buffer	3	71701	63753	161165	57739	135413	118367	119489	102331	119951	97705	0	48874	78620
Scottsdale	Buffer	3	69926	61978	159389	55964	133638	116592	117713	100555	118176	95929	0	47098	76845
Sedimento	Buffer	3	59950	52002	149413	45988	123662	106616	107738	90579	108200	85953	0	37122	66869
Canal System 2	Buffer	3	24983	17035	114446	11021	88695	71649	72771	55613	73233	50987	4	2156	31902
Start (Colonial)			77169	69221	166633	63207	140881	123836	124957	107799	125420	103173		54342	84088
Coyote	SIU	4	76945	68997	166408	62983	140657	123611	124733	107574	125195	102948	0	54117	83864
Crismon	SIU	4	75053	67105	164516	61091	138765	121719	122841	105682	123303	101056	0	52225	81972
Scottsdale	SIU	4	74367	66418	163830	60405	138079	121033	122154	104996	122617	100370	0	51539	81285
Sedimento	SIU	4	70508	62560	159971	56546	134220	117174	118295	101137	118758	96511	0	47680	77427
Canal System 2	SIU	4	42660	34712	132123	28698	106372	89326	90448	73290	90910	68664	1	19833	49579
Start (Colonial)			77169	69221	166633	63207	140881	123836	124957	107799	125420	103173		54342	84088
Coyote	Buffer	4	76399	68451	165863	62437	140111	123066	124187	107029	124650	102403	0	53572	83318
Crismon	Buffer	4	69879	61930	159342	55917	133591	116545	117666	100508	118129	95882	0	47051	76797
Scottsdale	Buffer	4	67511	59563	156975	53549	131223	114178	115299	98141	115762	93515	0	44684	74430
Sedimento	Buffer	4	54210	46262	143673	40248	117922	100876	101998	84840	102460	80214	1	31383	61129
Canal System 2	Buffer	4	7588	-360	97051	-6374	71300	54254	55375	38217	55838	33591	22	-15240	14507

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	802 Plant 2	803 Plant 2	804 Plant 2	805 Plant 2	806 Plant 2	807 Plant 2	808 Plant 2	809 Plant 2	810 Plant 2	811 Plant 2	812 Plant 2	813 Plant 2	814 Plant 2	815 Plant 2
Start (Colonial)			54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316	41487
Coyote	SIU	3	54225	112063	87287	112867	58804	48373	21034	18502	78573	54514	64233	60454	55148	41319
Crismon	SIU	3	52806	110644	85868	111448	57385	46954	19615	17083	77154	53095	62814	59035	53729	39900
Scottsdale	SIU	3	52291	110129	85353	110933	56870	46439	19100	16569	76639	52580	62300	58520	53214	39385
Sedimento	SIU	3	49397	107235	82459	108039	53976	43545	16206	13675	73745	49686	59405	55626	50320	36491
Canal System 2	SIU	3	28511	86349	61573	87153	33090	22659	-4679	-7211	52859	28800	38520	34740	29434	15605
Start (Colonial)			54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316	41487
Coyote	Buffer	3	53816	111654	86878	112458	58395	47963	20625	18093	78164	54105	63824	60045	54739	40910
Crismon	Buffer	3	48925	106763	81987	107567	53504	43073	15734	13203	73273	49214	58934	55154	49848	36019
Scottsdale	Buffer	3	47150	104988	80212	105792	51729	41297	13959	11427	71498	47439	57158	53379	48073	34244
Sedimento	Buffer	3	37174	95012	70236	95816	41753	31322	3983	1451	61522	37463	47182	43403	38097	24268
Canal System 2	Buffer	3	2207	60045	35269	60849	6786	-3645	-30984	-33515	26555	2496	12215	8436	3130	-10699
Start (Colonial)			54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316	41487
Coyote	SIU	4	54169	112007	87231	112811	58748	48317	20978	18446	78517	54458	64177	60398	55092	41263
Crismon	SIU	4	52277	110115	85339	110919	56856	46425	19086	16554	76625	52566	62285	58506	53200	39371
Scottsdale	SIU	4	51591	109428	84652	110233	56169	45738	18400	15868	75938	51879	61599	57819	52513	38684
Sedimento	SIU	4	47732	105569	80794	106374	52310	41879	14541	12009	72080	48020	57740	53960	48655	34826
Canal System 2	SIU	4	19884	77722	52946	78526	24463	14032	-13307	-15838	44232	20173	29892	26113	20807	6978
Start (Colonial)			54393	112231	87455	113035	58972	48541	21203	18671	78741	54682	64402	60622	55316	41487
Coyote	Buffer	4	53623	111461	86685	112265	58202	47771	20433	17901	77971	53912	63632	59852	54546	40717
Crismon	Buffer	4	47103	104940	80164	105745	51681	41250	13912	11380	71450	47391	57111	53331	48025	34196
Scottsdale	Buffer	4	44735	102573	77797	103377	49314	38883	11545	9013	69083	45024	54744	50964	45658	31829
Sedimento	Buffer	4	31434	89272	64496	90076	36013	25582	-1757	-4288	55782	31723	41442	37663	32357	18528
Canal System 2	Buffer	4	-15188	42649	17874	43454	-10610	-21041	-48379	-50911	9160	-14900	-5180	-8960	-14265	-28094

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	816 Plant 2	817 Plant 2	818 Plant 2	819 Plant 2	820 Plant 2	821 Plant 2	822 Plant 2	823 Plant 2	824 Plant 2	825 Plant 2	826 Plant 2	827 Plant 2	828 Plant 2	829 Plant 2
Start (Colonial)			36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	SIU	3	36549	34028	26557	50605	71798	66311	94403	26670	42221	20271	66832	53513	34157	40772
Crismon	SIU	3	35130	32609	25138	49186	70379	64892	92984	25251	40802	18852	65413	52094	32738	39353
Scottsdale	SIU	3	34616	32094	24623	48672	69864	64377	92469	24736	40287	18337	64898	51580	32223	38839
Sedimento	SIU	3	31721	29200	21729	45777	66970	61483	89575	21842	37393	15443	62004	48686	29329	35944
Canal System 2	SIU	3	10836	8314	843	24892	46084	40598	68689	956	16508	-5443	41118	27800	8443	15059
Start (Colonial)			36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	Buffer	3	36140	33619	26147	50196	71388	65902	93993	26261	41812	19862	66423	53104	33748	40363
Crismon	Buffer	3	31250	28728	21257	45306	66498	61011	89103	21370	36921	14971	61532	48214	28857	35473
Scottsdale	Buffer	3	29474	26953	19481	43530	64722	59236	87327	19595	35146	13196	59757	46438	27082	33697
Sedimento	Buffer	3	19498	16977	9505	33554	54746	49260	77351	9619	25170	3220	49781	36462	17106	23721
Canal System 2	Buffer	3	-15469	-17990	-25461	-1413	19780	14293	42385	-25348	-9797	-31747	14814	1496	-17861	-11246
Start (Colonial)			36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	SIU	4	36493	33972	26500	50549	71741	66255	94346	26614	42165	20215	66776	53457	34101	40716
Crismon	SIU	4	34601	32080	24608	48657	69849	64363	92454	24722	40273	18323	64884	51565	32209	38824
Scottsdale	SIU	4	33915	31393	23922	47971	69163	63677	91768	24035	39587	17637	64198	50879	31522	38138
Sedimento	SIU	4	30056	27535	20063	44112	65304	59818	87909	20177	35728	13778	60339	47020	27664	34279
Canal System 2	SIU	4	2208	-313	-7784	16264	37457	31970	60062	-7671	7880	-14070	32491	19173	-184	6431
Start (Colonial)			36718	34196	26725	50774	71966	66480	94571	26838	42390	20439	67000	53682	34325	40941
Coyote	Buffer	4	35948	33426	25955	50004	71196	65710	93801	26068	41620	19669	66230	52912	33555	40171
Crismon	Buffer	4	29427	26905	19434	43483	64675	59189	87280	19547	35099	13149	59710	46391	27034	33650
Scottsdale	Buffer	4	27060	24538	17067	41116	62308	56822	84913	17180	32732	10781	57342	44024	24667	31283
Sedimento	Buffer	4	13758	11237	3766	27814	49007	43520	71612	3879	19430	-2520	44041	30723	11366	17981
Canal System 2	Buffer	4	-32864	-35385	-42857	-18808	2384	-3102	24989	-42743	-27192	-49142	-2581	-15900	-35256	-28641

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	830 Plant 2	831 Plant 2	832 Plant 2	833 Plant 2	834 Plant 2	835 Plant 2	836 Plant 2	837 Plant 2	838 Plant 2	839 Plant 2	840 Plant 2	841 Plant 2	842 Plant 2	843 Plant 2
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663
Coyote	SIU	3	21240	65811	41025	62795	76464	58840	64697	37204	6241	30439	18796	43526	47393	60495
Crismon	SIU	3	19821	64392	39606	61376	75045	57421	63278	35785	4822	29020	17377	42107	45974	59076
Scottsdale	SIU	3	19307	63877	39091	60861	74530	56906	62764	35270	4307	28505	16863	41592	45459	58561
Sedimento	SIU	3	16413	60983	36197	57967	71636	54012	59869	32376	1413	25611	13968	38698	42565	55667
Canal System 2	SIU	3	-4473	40098	15311	37081	50750	33126	38984	11491	-19473	4726	-6917	17812	21679	34781
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663
Coyote	Buffer	3	20831	65402	40616	62386	76055	58431	64288	36795	5832	30030	18387	43117	46984	60086
Crismon	Buffer	3	15941	60511	35725	57495	71164	53540	59398	31904	941	25139	13497	38226	42093	55195
Scottsdale	Buffer	3	14165	58736	33950	55720	69389	51765	57622	30129	-834	23364	11721	36451	40318	53420
Sedimento	Buffer	3	4189	48760	23974	45744	59413	41789	47646	20153	-10810	13388	1745	26475	30342	43444
Canal System 2	Buffer	3	-30777	13793	-10993	10777	24446	6822	12679	-14814	-45777	-21579	-33222	-8492	-4625	8477
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663
Coyote	SIU	4	21184	65755	40969	62739	76408	58784	64641	37148	6185	30383	18740	43470	47337	60439
Crismon	SIU	4	19292	63863	39077	60847	74516	56892	62749	35256	4293	28491	16848	41578	45445	58547
Scottsdale	SIU	4	18606	63177	38391	60160	73829	56205	62063	34570	3606	27805	16162	40891	44758	57861
Sedimento	SIU	4	14747	59318	34532	56301	69971	52347	58204	30711	-252	23946	12303	37032	40900	54002
Canal System 2	SIU	4	-13100	31470	6684	28454	42123	24499	30356	2863	-28100	-3902	-15545	9185	13052	26154
Start (Colonial)			21409	65979	41193	62963	76632	59008	64866	37373	6409	30608	18965	43694	47561	60663
Coyote	Buffer	4	20639	65209	40423	62193	75862	58238	64096	36603	5639	29838	18195	42924	46791	59893
Crismon	Buffer	4	14118	58689	33903	55672	69341	51717	57575	30082	-882	23317	11674	36403	40270	53373
Scottsdale	Buffer	4	11751	56321	31535	53305	66974	49350	55208	27715	-3249	20950	9307	34036	37903	51005
Sedimento	Buffer	4	-1550	43020	18234	40004	53673	36049	41906	14413	-16550	7648	-3995	20735	24602	37704
Canal System 2	Buffer	4	-48173	-3602	-28388	-6619	7051	-10573	-4716	-32209	-63172	-38974	-50617	-25888	-22020	-8918

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	844 Plant 2	845 Plant 2	846 Plant 2	847 Plant 2	848 Plant 2	849 Plant 2	850 Plant 2	851 Plant 2	852 Plant 2	853 Plant 2	854 Plant 2	855 Plant 2	856 Plant 2	857 Plant 2
Start (Colonial)			46912	59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618
Coyote	SIU	3	46743	59598	39231	21318	56829	30279	56819	40329	68513	40442	75928	37787	75964	46449
Crismon	SIU	3	45324	58179	37812	19899	55410	28860	55400	38910	67094	39023	74509	36368	74545	45030
Scottsdale	SIU	3	44809	57664	37297	19384	54895	28346	54885	38395	66579	38509	73994	35853	74030	44516
Sedimento	SIU	3	41915	54770	34403	16490	52001	25451	51991	35501	63685	35614	71100	32959	71136	41621
Canal System 2	SIU	3	21030	33884	13517	-4396	31115	4566	31105	14615	42799	14729	50214	12073	50250	20736
Start (Colonial)			46912	59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618
Coyote	Buffer	3	46334	59189	38821	20909	56420	29870	56409	39920	68104	40033	75518	37378	75555	46040
Crismon	Buffer	3	41443	54298	33931	16018	51529	24980	51519	35029	63213	35143	70628	32487	70664	41150
Scottsdale	Buffer	3	39668	52523	32155	14243	49754	23204	49743	33254	61438	33367	68852	30712	68889	39374
Sedimento	Buffer	3	29692	42547	22180	4267	39778	13228	39768	23278	51462	23391	58877	20736	58913	29398
Canal System 2	Buffer	3	-5275	7580	-12787	-30700	4811	-21739	4801	-11689	16495	-11576	23910	-14231	23946	-5569
Start (Colonial)			46912	59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618
Coyote	SIU	4	46687	59542	39175	21262	56773	30223	56763	40273	68457	40386	75872	37731	75908	46393
Crismon	SIU	4	44795	57650	37283	19370	54881	28331	54871	38381	66565	38494	73980	35839	74016	44501
Scottsdale	SIU	4	44109	56963	36596	18683	54194	27645	54184	37694	65878	37808	73293	35152	73329	43815
Sedimento	SIU	4	40250	53105	32737	14825	50336	23786	50325	33836	62020	33949	69434	31294	69470	39956
Canal System 2	SIU	4	12402	25257	4890	-13023	22488	-4062	22478	5988	34172	6101	41587	3446	41623	12108
Start (Colonial)			46912	59766	39399	21486	56997	30448	56987	40497	68681	40611	76096	37955	76132	46618
Coyote	Buffer	4	46142	58996	38629	20716	56227	29678	56217	39727	67911	39841	75326	37185	75362	45848
Crismon	Buffer	4	39621	52475	32108	14195	49706	23157	49696	33206	61390	33320	68805	30664	68841	39327
Scottsdale	Buffer	4	37254	50108	29741	11828	47339	20790	47329	30839	59023	30953	66438	28297	66474	36960
Sedimento	Buffer	4	23952	36807	16440	-1473	34038	7488	34028	17538	45722	17651	53137	14996	53173	23658
Canal System 2	Buffer	4	-22670	-9815	-30183	-48095	-12584	-39134	-12595	-29084	-900	-28971	6514	-31626	6550	-22964

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	858 Plant 2	859 Plant 2	860 Plant 2	861 Plant 2	862 Plant 2	863 Plant 2	864 Plant 2	865 Plant 2	866 Plant 2	867 Plant 2	868 Plant 2	869 Plant 2	870 Plant 2	871 Plant 2
Start (Colonial)			65139	53940	38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690
Coyote	SIU	3	64971	53771	38344	60340	57463	53513	42778	29717	43536	29645	47063	75809	37421	46522
Crismon	SIU	3	63552	52352	36925	58921	56044	52094	41359	28298	42117	28226	45644	74390	36002	45103
Scottsdale	SIU	3	63037	51837	36410	58407	55529	51580	40844	27784	41602	27711	45129	73875	35487	44588
Sedimento	SIU	3	60143	48943	33516	55512	52635	48686	37950	24889	38708	24817	42235	70981	32593	41694
Canal System 2	SIU	3	39257	28058	12630	34627	31750	27800	17065	4004	17823	3932	21349	50095	11707	20808
Start (Colonial)			65139	53940	38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690
Coyote	Buffer	3	64561	53362	37935	59931	57054	53104	42369	29308	43127	29236	46654	75400	37012	46112
Crismon	Buffer	3	59671	48471	33044	55041	52163	48214	37478	24418	38236	24345	41763	70509	32121	41222
Scottsdale	Buffer	3	57895	46696	31269	53265	50388	46438	35703	22642	36461	22570	39988	68734	30346	39446
Sedimento	Buffer	3	47920	36720	21293	43289	40412	36462	25727	12666	26485	12594	30012	58758	20370	29470
Canal System 2	Buffer	3	12953	1753	-13674	8322	5445	1496	-9240	-22301	-8482	-22373	-4955	23791	-14597	-5496
Start (Colonial)			65139	53940	38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690
Coyote	SIU	4	64915	53715	38288	60284	57407	53457	42722	29661	43480	29589	47007	75753	37365	46465
Crismon	SIU	4	63023	51823	36396	58392	55515	51565	40830	27769	41588	27697	45115	73861	35473	44573
Scottsdale	SIU	4	62336	51137	35709	57706	54829	50879	40144	27083	40902	27011	44428	73175	34786	43887
Sedimento	SIU	4	58477	47278	31850	53847	50970	47020	36285	23224	37043	23152	40570	69316	30927	40028
Canal System 2	SIU	4	30630	19430	4003	25999	23122	19173	8437	-4624	9195	-4696	12722	41468	3080	12181
Start (Colonial)			65139	53940	38512	60509	57631	53682	42946	29886	43704	29813	47231	75977	37589	46690
Coyote	Buffer	4	64369	53170	37742	59739	56861	52912	42176	29116	42934	29043	46461	75207	36819	45920
Crismon	Buffer	4	57848	46649	31221	53218	50341	46391	35656	22595	36414	22523	39940	68687	30298	39399
Scottsdale	Buffer	4	55481	44282	28854	50851	47973	44024	33288	20228	34046	20155	37573	66319	27931	37032
Sedimento	Buffer	4	42180	30980	15553	37549	34672	30723	19987	6926	20745	6854	24272	53018	14630	23731
Canal System 2	Buffer	4	-4443	-15642	-31070	-9073	-11950	-15900	-26635	-39696	-25877	-39768	-22350	6396	-31993	-22892

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	872 Plant 2	873 Plant 2	874 Plant 2	875 Plant 2	876 Plant 2	877 Plant 2	878 Plant 2	879 Plant 2	880 Plant 2	881 Plant 2	882 Plant 2	883 Plant 2	884 Plant 2	885 Plant 2
Start (Colonial)			37873	75142	46803	60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660
Coyote	SIU	3	37704	74974	46635	60428	75562	48115	36843	37746	65744	61490	41226	26928	22901	49492
Crismon	SIU	3	36285	73555	45216	59009	74143	46696	35424	36327	64325	60071	39807	25509	21482	48073
Scottsdale	SIU	3	35771	73040	44701	58494	73628	46181	34909	35812	63810	59556	39292	24994	20967	47558
Sedimento	SIU	3	32876	70146	41807	55600	70734	43287	32015	32918	60916	56662	36398	22100	18073	44664
Canal System 2	SIU	3	11991	49260	20921	34714	49848	22401	11130	12032	40030	35777	15513	1214	-2813	23778
Start (Colonial)			37873	75142	46803	60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660
Coyote	Buffer	3	37295	74565	46226	60019	75152	47706	36434	37336	65335	61081	40817	26519	22492	49082
Crismon	Buffer	3	32405	69674	41335	55128	70262	42815	31543	32446	60444	56190	35926	21628	17601	44192
Scottsdale	Buffer	3	30629	67899	39560	53353	68486	41040	29768	30670	58669	54415	34151	19853	15826	42416
Sedimento	Buffer	3	20653	57923	29584	43377	58510	31064	19792	20695	48693	44439	24175	9877	5850	32440
Canal System 2	Buffer	3	-14314	22956	-5383	8410	23544	-3903	-15175	-14272	13726	9472	-10792	-25090	-29117	-2526
Start (Colonial)			37873	75142	46803	60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660
Coyote	SIU	4	37648	74918	46579	60372	75505	48059	36787	37690	65688	61434	41170	26872	22845	49435
Crismon	SIU	4	35756	73026	44687	58480	73613	46167	34895	35798	63796	59542	39278	24980	20953	47543
Scottsdale	SIU	4	35070	72339	44001	57793	72927	45480	34209	35111	63110	58856	38592	24293	20266	46857
Sedimento	SIU	4	31211	68480	40142	53935	69068	41622	30350	31252	59251	54997	34733	20435	16407	42998
Canal System 2	SIU	4	3363	40633	12294	26087	41221	13774	2502	3405	31403	27149	6885	-7413	-11440	15151
Start (Colonial)			37873	75142	46803	60596	75730	48283	37012	37914	65912	61658	41394	27096	23069	49660
Coyote	Buffer	4	37103	74372	46033	59826	74960	47513	36242	37144	65142	60888	40624	26326	22299	48890
Crismon	Buffer	4	30582	67851	39513	53305	68439	40992	29721	30623	58622	54368	34104	19805	15778	42369
Scottsdale	Buffer	4	28215	65484	37145	50938	66072	38625	27354	28256	56254	52000	31736	17438	13411	40002
Sedimento	Buffer	4	14913	52183	23844	37637	52771	25324	14052	14955	42953	38699	18435	4137	110	26701
Canal System 2	Buffer	4	-31709	5560	-22778	-8985	6148	-21298	-32570	-31668	-3669	-7923	-28187	-42485	-46513	-19922

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	886 Plant 2	887 Plant 2	888 Plant 2	889 Plant 2	890 Plant 2	891 Plant 2	892 Plant 2	893 Plant 2	894 Plant 2	895 Plant 2	896 Plant 2	897 Plant 2	898 Plant 2	899 Plant 2
Start (Colonial)			38125	53620	97531	27364	70264	66975	29040	60060	33928	32979	42457	74539	75085	134052
Coyote	SIU	3	37957	53452	97362	27196	70096	66806	28872	59892	33760	32811	42288	74370	74917	133884
Crismon	SIU	3	36538	52033	95943	25777	68677	65387	27453	58473	32341	31392	40869	72951	73498	132465
Scottsdale	SIU	3	36023	51518	95428	25262	68162	64872	26938	57958	31826	30877	40354	72437	72983	131950
Sedimento	SIU	3	33129	48624	92534	22368	65268	61978	24044	55064	28932	27983	37460	69543	70089	129056
Canal System 2	SIU	3	12243	27738	71649	1482	44382	41093	3158	34178	8046	7097	16575	48657	49203	108170
Start (Colonial)			38125	53620	97531	27364	70264	66975	29040	60060	33928	32979	42457	74539	75085	134052
Coyote	Buffer	3	37548	53042	96953	26787	69687	66397	28463	59483	33351	32402	41879	73961	74508	133475
Crismon	Buffer	3	32657	48152	92062	21896	64796	61506	23572	54592	28460	27511	36988	69071	69617	128584
Scottsdale	Buffer	3	30882	46376	90287	20121	63021	59731	21797	52817	26685	25736	35213	67295	67842	126809
Sedimento	Buffer	3	20906	36400	80311	10145	53045	49755	11821	42841	16709	15760	25237	57319	57866	116833
Canal System 2	Buffer	3	-14061	1434	45344	-24822	18078	14788	-23146	7874	-18258	-19207	-9730	22353	22899	81866
Start (Colonial)			38125	53620	97531	27364	70264	66975	29040	60060	33928	32979	42457	74539	75085	134052
Coyote	SIU	4	37901	53395	97306	27140	70040	66750	28816	59836	33704	32755	42232	74314	74861	133828
Crismon	SIU	4	36009	51503	95414	25248	68148	64858	26924	57944	31812	30863	40340	72422	72969	131936
Scottsdale	SIU	4	35323	50817	94728	24561	67461	64172	26237	57257	31125	30177	39654	71736	72283	131249
Sedimento	SIU	4	31464	46958	90869	20703	63603	60313	22378	53398	27267	26318	35795	67877	68424	127391
Canal System 2	SIU	4	3616	19111	63021	-7145	35755	32465	-5469	25551	-581	-1530	7947	40030	40576	99543
Start (Colonial)			38125	53620	97531	27364	70264	66975	29040	60060	33928	32979	42457	74539	75085	134052
Coyote	Buffer	4	37355	52850	96761	26594	69494	66205	28270	59290	33158	32209	41687	73769	74315	133282
Crismon	Buffer	4	30835	46329	90240	20073	62973	59684	21749	52769	26637	25689	35166	67248	67795	126761
Scottsdale	Buffer	4	28467	43962	87873	17706	60606	57317	19382	50402	24270	23321	32799	64881	65427	124394
Sedimento	Buffer	4	15166	30661	74571	4405	47305	44015	6081	37101	10969	10020	19497	51580	52126	111093
Canal System 2	Buffer	4	-31456	-15962	27949	-42217	683	-2607	-40542	-9522	-35653	-36602	-27125	4957	5504	64471

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	900 Plant 2	901 Plant 2	902 Plant 2	903 Plant 2	904 Plant 2	905 Plant 2	906 Plant 2	907 Plant 2	908 Plant 2	909 Plant 2	910 Plant 2	911 Plant 2	912 Plant 2	913 Plant 2
Start (Colonial)			22440	40662	30922	25493	26158	46164	30773	27385	49165	48923	33268	59792	59400	45483
Coyote	SIU	3	22272	40494	30754	25324	25989	45996	30604	27217	48997	48754	33100	59624	59232	45315
Crismon	SIU	3	20853	39075	29335	23905	24570	44577	29185	25798	47578	47335	31681	58205	57813	43896
Scottsdale	SIU	3	20338	38560	28820	23390	24056	44062	28670	25283	47063	46820	31166	57690	57298	43381
Sedimento	SIU	3	17444	35666	25926	20496	21161	41168	25776	22389	44169	43926	28272	54796	54404	40487
Canal System 2	SIU	3	-3442	14780	5040	-389	276	20282	4891	1503	23283	23041	7386	33910	33518	19601
Start (Colonial)			22440	40662	30922	25493	26158	46164	30773	27385	49165	48923	33268	59792	59400	45483
Coyote	Buffer	3	21863	40085	30345	24915	25580	45586	30195	26807	48587	48345	32691	59214	58823	44906
Crismon	Buffer	3	16972	35194	25454	20024	20690	40696	25304	21917	43697	43454	27800	54324	53932	40015
Scottsdale	Buffer	3	15197	33419	23679	18249	18914	38920	23529	20141	41921	41679	26025	52548	52157	38240
Sedimento	Buffer	3	5221	23443	13703	8273	8938	28945	13553	10165	31945	31703	16049	42573	42181	28264
Canal System 2	Buffer	3	-29746	-11524	-21264	-26694	-26029	-6022	-21414	-24801	-3021	-3264	-18918	7606	7214	-6703
Start (Colonial)			22440	40662	30922	25493	26158	46164	30773	27385	49165	48923	33268	59792	59400	45483
Coyote	SIU	4	22216	40438	30698	25268	25933	45940	30548	27160	48940	48698	33044	59568	59176	45259
Crismon	SIU	4	20324	38546	28806	23376	24041	44048	28656	25268	47048	46806	31152	57676	57284	43367
Scottsdale	SIU	4	19637	37859	28119	22690	23355	43361	27970	24582	46362	46120	30465	56989	56597	42681
Sedimento	SIU	4	15778	34001	24260	18831	19496	39502	24111	20723	42503	42261	26607	53130	52738	38822
Canal System 2	SIU	4	-12069	6153	-3587	-9017	-8352	11655	-3737	-7124	14656	14413	-1241	25283	24891	10974
Start (Colonial)			22440	40662	30922	25493	26158	46164	30773	27385	49165	48923	33268	59792	59400	45483
Coyote	Buffer	4	21670	39892	30152	24723	25388	45394	30003	26615	48395	48153	32498	59022	58630	44713
Crismon	Buffer	4	15149	33371	23631	18202	18867	38873	23482	20094	41874	41632	25977	52501	52109	38193
Scottsdale	Buffer	4	12782	31004	21264	15835	16500	36506	21115	17727	39507	39265	23610	50134	49742	35825
Sedimento	Buffer	4	-519	17703	7963	2533	3198	23205	7813	4426	26206	25963	10309	36833	36441	22524
Canal System 2	Buffer	4	-47142	-28919	-38660	-44089	-43424	-23418	-38809	-42197	-20417	-20659	-36313	-9790	-10182	-24098

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	914 Plant 2	915 Plant 2	916 Plant 2	917 Plant 2	918 Plant 2	919 Plant 2	920 Plant 2	921 Plant 2	922 Plant 2	923 Plant 2	924 Plant 2	925 Plant 2	926 Plant 2	927 Plant 2
Start (Colonial)			47422	66928	32464	74224	42292	41688	20702	38110	25405	31598	25570	40095	63571	46850
Coyote	SIU	3	47254	66760	32295	74056	42123	41520	20534	37942	25237	31429	25402	39927	63403	46681
Crismon	SIU	3	45835	65341	30876	72637	40704	40101	19115	36523	23818	30010	23983	38508	61984	45262
Scottsdale	SIU	3	45320	64826	30362	72122	40189	39586	18600	36008	23303	29495	23468	37993	61469	44748
Sedimento	SIU	3	42426	61932	27468	69228	37295	36692	15706	33114	20409	26601	20574	35099	58575	41854
Canal System 2	SIU	3	21540	41046	6582	48342	16410	15806	-5180	12228	-477	5716	-312	14213	37690	20968
Start (Colonial)			47422	66928	32464	74224	42292	41688	20702	38110	25405	31598	25570	40095	63571	46850
Coyote	Buffer	3	46845	66351	31886	73647	41714	41111	20125	37532	24827	31020	24992	39518	62994	46272
Crismon	Buffer	3	41954	61460	26996	68756	36823	36220	15234	32642	19937	26129	20102	34627	58103	41382
Scottsdale	Buffer	3	40179	59685	25220	66981	35048	34445	13459	30866	18161	24354	18326	32852	56328	39606
Sedimento	Buffer	3	30203	49709	15244	57005	25072	24469	3483	20890	8185	14378	8350	22876	46352	29630
Canal System 2	Buffer	3	-4764	14742	-19722	22038	-9895	-10498	-31484	-14076	-26781	-20589	-26616	-12091	11385	-5336
Start (Colonial)			47422	66928	32464	74224	42292	41688	20702	38110	25405	31598	25570	40095	63571	46850
Coyote	SIU	4	47198	66704	32239	74000	42067	41464	20478	37885	25180	31373	25345	39871	63347	46625
Crismon	SIU	4	45306	64812	30347	72108	40175	39572	18586	35993	23288	29481	23453	37979	61455	44733
Scottsdale	SIU	4	44619	64125	29661	71421	39489	38886	17900	35307	22602	28795	22767	37292	60769	44047
Sedimento	SIU	4	40760	60267	25802	67563	35630	35027	14041	31448	18743	24936	18908	33433	56910	40188
Canal System 2	SIU	4	12913	32419	-2045	39715	7782	7179	-13807	3601	-9104	-2912	-8939	5586	29062	12341
Start (Colonial)			47422	66928	32464	74224	42292	41688	20702	38110	25405	31598	25570	40095	63571	46850
Coyote	Buffer	4	46652	66158	31694	73454	41522	40918	19932	37340	24635	30828	24800	39325	62801	46080
Crismon	Buffer	4	40131	59637	25173	66933	35001	34398	13412	30819	18114	24307	18279	32804	56281	39559
Scottsdale	Buffer	4	37764	57270	22806	64566	32634	32030	11044	28452	15747	21940	15912	30437	53913	37192
Sedimento	Buffer	4	24463	43969	9505	51265	19332	18729	-2257	15151	2446	8638	2611	17136	40612	23891
Canal System 2	Buffer	4	-22160	-2653	-37118	4643	-27290	-27893	-48879	-31472	-44177	-37984	-44012	-29487	-6010	-22732

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	928 Plant 2	929 Plant 2	930 Plant 2	931 Plant 2	932 Plant 2	933 Plant 2	934 Plant 2	935 Plant 2	936 Plant 2	937 Plant 2	938 Plant 2	939 Plant 2	940 Plant 2	941 Plant 2
Start (Colonial)			92044	75941	47865	76153	56296	33155	34444	37986	51274	28153	72564	51227	61664	71136
Coyote	SIU	3	91876	75773	47697	75984	56128	32986	34275	37818	51105	27985	72396	51059	61495	70967
Crismon	SIU	3	90457	74354	46278	74565	54709	31567	32856	36399	49686	26566	70977	49640	60076	69548
Scottsdale	SIU	3	89942	73839	45763	74051	54194	31053	32342	35884	49172	26051	70462	49125	59562	69034
Sedimento	SIU	3	87048	70945	42869	71157	51300	28159	29448	32990	46278	23157	67568	46231	56667	66139
Canal System 2	SIU	3	66162	50059	21984	50271	30414	7273	8562	12104	25392	2271	46682	25345	35782	45254
Start (Colonial)			92044	75941	47865	76153	56296	33155	34444	37986	51274	28153	72564	51227	61664	71136
Coyote	Buffer	3	91467	75364	47288	75575	55718	32577	33866	37409	50696	27576	71986	50650	61086	70558
Crismon	Buffer	3	86576	70473	42397	70685	50828	27687	28976	32518	45806	22685	67096	45759	56196	65668
Scottsdale	Buffer	3	84801	68698	40622	68909	49052	25911	27200	30743	44030	20910	65320	43984	54420	63892
Sedimento	Buffer	3	74825	58722	30646	58933	39077	15935	17224	20767	34054	10934	55345	34008	44444	53916
Canal System 2	Buffer	3	39858	23755	-4321	23967	4110	-19031	-17742	-14200	-912	-24033	20378	-959	9477	18949
Start (Colonial)			92044	75941	47865	76153	56296	33155	34444	37986	51274	28153	72564	51227	61664	71136
Coyote	SIU	4	91820	75717	47641	75928	56072	32930	34219	37762	51049	27929	72340	51003	61439	70911
Crismon	SIU	4	89928	73825	45749	74036	54180	31038	32327	35870	49157	26037	70448	49111	59547	69019
Scottsdale	SIU	4	89241	73138	45063	73350	53493	30352	31641	35183	48471	25350	69761	48425	58861	68333
Sedimento	SIU	4	85383	69280	41204	69491	49634	26493	27782	31325	44612	21492	65902	44566	55002	64474
Canal System 2	SIU	4	57535	41432	13356	41644	21787	-1354	-65	3477	16765	-6356	38055	16718	27154	36626
Start (Colonial)			92044	75941	47865	76153	56296	33155	34444	37986	51274	28153	72564	51227	61664	71136
Coyote	Buffer	4	91274	75171	47095	75383	55526	32385	33674	37216	50504	27383	71794	50457	60894	70366
Crismon	Buffer	4	84753	68650	40575	68862	49005	25864	27153	30695	43983	20862	65273	43937	54373	63845
Scottsdale	Buffer	4	82386	66283	38207	66495	46638	23497	24786	28328	41616	18495	62906	41569	52006	61478
Sedimento	Buffer	4	69085	52982	24906	53194	33337	10196	11485	15027	28315	5194	49605	28268	38704	48176
Canal System 2	Buffer	4	22463	6360	-21716	6571	-13286	-36427	-35138	-31595	-18308	-41428	2982	-18354	-7918	1554

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	942 Plant 2	943 Plant 2	944 Plant 2	945 Plant 2	946 Plant 2	947 Plant 2	948 Plant 2	949 Plant 2	950 Plant 2	951 Plant 2	952 Plant 2	953 Plant 2	954 Plant 2	955 Plant 2
Start (Colonial)			80757	21239	63556	77612	62375	56456	76060	70986	54512	27075	60251	49051	16020	37605
Coyote	SIU	3	80589	21070	63388	77444	62207	56288	75892	70818	54344	26907	60083	48883	15852	37436
Crismon	SIU	3	79170	19651	61969	76025	60788	54869	74473	69399	52925	25488	58664	47464	14433	36017
Scottsdale	SIU	3	78655	19137	61454	75510	60273	54354	73958	68884	52410	24973	58149	46949	13918	35502
Sedimento	SIU	3	75761	16242	58560	72616	57379	51460	71064	65990	49516	22079	55255	44055	11024	32608
Canal System 2	SIU	3	54875	-4643	37674	51730	36493	30574	50178	45104	28630	1194	34369	23170	-9861	11723
Start (Colonial)			80757	21239	63556	77612	62375	56456	76060	70986	54512	27075	60251	49051	16020	37605
Coyote	Buffer	3	80180	20661	62978	77034	61798	55878	75482	70409	53934	26498	59673	48474	15443	37027
Crismon	Buffer	3	75289	15771	58088	72144	56907	50988	70592	65518	49044	21607	54783	43583	10552	32136
Scottsdale	Buffer	3	73514	13995	56312	70368	55132	49212	68816	63743	47268	19832	53007	41808	8777	30361
Sedimento	Buffer	3	63538	4019	46337	60393	45156	39236	58840	53767	37293	9856	43031	31832	-1199	20385
Canal System 2	Buffer	3	28571	-30948	11370	25426	10189	4270	23874	18800	2326	-25111	8065	-3135	-36166	-14582
Start (Colonial)			80757	21239	63556	77612	62375	56456	76060	70986	54512	27075	60251	49051	16020	37605
Coyote	SIU	4	80533	21014	63332	77388	62151	56231	75835	70762	54288	26851	60026	48827	15796	37380
Crismon	SIU	4	78641	19122	61440	75496	60259	54339	73943	68870	52396	24959	58134	46935	13904	35488
Scottsdale	SIU	4	77954	18436	60753	74809	59572	53653	73257	68183	51709	24273	57448	46249	13218	34802
Sedimento	SIU	4	74096	14577	56894	70950	55714	49794	69398	64325	47850	20414	53589	42390	9359	30943
Canal System 2	SIU	4	46248	-13271	29047	43103	27866	21947	41551	36477	20003	-7434	25742	14542	-18489	3095
Start (Colonial)			80757	21239	63556	77612	62375	56456	76060	70986	54512	27075	60251	49051	16020	37605
Coyote	Buffer	4	79987	20469	62786	76842	61605	55686	75290	70216	53742	26305	59481	48281	15250	36835
Crismon	Buffer	4	73466	13948	56265	70321	55084	49165	68769	63695	47221	19785	52960	41761	8730	30314
Scottsdale	Buffer	4	71099	11581	53898	67954	52717	46798	66402	61328	44854	17417	50593	39393	6362	27947
Sedimento	Buffer	4	57798	-1721	40597	54653	39416	33497	53101	48027	31553	4116	37292	26092	-6939	14645
Canal System 2	Buffer	4	11176	-48343	-6026	8030	-7206	-13126	6478	1405	-15070	-42506	-9331	-20530	-53561	-31977

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	956 Plant 2	957 Plant 2	958 Plant 2	959 Plant 2	960 Plant 2	961 Plant 2	962 Plant 2	963 Plant 2	964 Plant 2	965 Plant 2	966 Plant 2	967 Plant 2	968 Plant 2	969 Plant 2
Start (Colonial)			55285	20579	56837	60019	79881	36800	67635	47004	43808	75596	48170	34196	28246	48938
Coyote	SIU	3	55117	20410	56669	59850	79712	36632	67466	46836	43639	75428	48001	34028	28078	48770
Crismon	SIU	3	53698	18991	55250	58431	78293	35213	66047	45417	42220	74009	46582	32609	26659	47351
Scottsdale	SIU	3	53183	18477	54735	57917	77779	34698	65532	44902	41705	73494	46068	32094	26144	46836
Sedimento	SIU	3	50289	15582	51841	55023	74884	31804	62638	42008	38811	70600	43174	29200	23250	43942
Canal System 2	SIU	3	29403	-5303	30955	34137	53999	10918	41753	21123	17926	49714	22288	8314	2364	23056
Start (Colonial)			55285	20579	56837	60019	79881	36800	67635	47004	43808	75596	48170	34196	28246	48938
Coyote	Buffer	3	54708	20001	56260	59441	79303	36223	67057	46427	43230	75018	47592	33619	27668	48360
Crismon	Buffer	3	49817	15111	51369	54551	74413	31332	62166	41536	38339	70128	42702	28728	22778	43470
Scottsdale	Buffer	3	48042	13335	49594	52775	72637	29557	60391	39761	36564	68352	40926	26953	21002	41694
Sedimento	Buffer	3	38066	3359	39618	42799	62661	19581	50415	29785	26588	58376	30950	16977	11027	31719
Canal System 2	Buffer	3	3099	-31608	4651	7833	27694	-15386	15448	-5182	-8379	23410	-4016	-17990	-23940	-3248
Start (Colonial)			55285	20579	56837	60019	79881	36800	67635	47004	43808	75596	48170	34196	28246	48938
Coyote	SIU	4	55061	20354	56613	59794	79656	36576	67410	46780	43583	75371	47945	33972	28022	48714
Crismon	SIU	4	53169	18462	54721	57902	77764	34684	65518	44888	41691	73479	46053	32080	26130	46822
Scottsdale	SIU	4	52483	17776	54035	57216	77078	33997	64832	44202	41005	72793	45367	31393	25443	46135
Sedimento	SIU	4	48624	13917	50176	53357	73219	30139	60973	40343	37146	68934	41508	27535	21584	42276
Canal System 2	SIU	4	20776	-13931	22328	25510	45371	2291	33125	12495	9298	41087	13661	-313	-6263	14429
Start (Colonial)			55285	20579	56837	60019	79881	36800	67635	47004	43808	75596	48170	34196	28246	48938
Coyote	Buffer	4	54515	19809	56067	59249	79111	36030	66865	46234	43038	74826	47400	33426	27476	48168
Crismon	Buffer	4	47995	13288	49547	52728	72590	29509	60344	39714	36517	68305	40879	26905	20955	41647
Scottsdale	Buffer	4	45627	10921	47179	50361	70223	27142	57977	37346	34150	65938	38512	24538	18588	39280
Sedimento	Buffer	4	32326	-2381	33878	37060	56921	13841	44675	24045	20848	52637	25211	11237	5287	25979
Canal System 2	Buffer	4	-14296	-49003	-12744	-9563	10299	-32781	-1947	-22577	-25774	6014	-21412	-35385	-41336	-20644

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	970 Plant 2	971 Plant 2	972 Plant 2	973 Plant 2	974 Plant 2	975 Plant 2	976 Plant 2	977 Plant 2	978 Plant 2	979 Plant 2	980 Plant 2	981 Plant 2	982 Plant 2	983 Plant 2
Start (Colonial)			46819	40874	32783	84712	36919	19991	50573	63066	37151	27359	19790	23208	55626	50325
Coyote	SIU	3	46650	40705	32615	84544	36750	19822	50404	62898	36983	27191	19621	23040	55457	50157
Crismon	SIU	3	45231	39286	31196	83125	35331	18403	48985	61479	35564	25772	18202	21621	54038	48738
Scottsdale	SIU	3	44717	38772	30681	82610	34817	17889	48470	60964	35049	25257	17688	21106	53524	48223
Sedimento	SIU	3	41823	35877	27787	79716	31923	14995	45576	58070	32155	22363	14793	18212	50629	45329
Canal System 2	SIU	3	20937	14992	6902	58830	11037	-5891	24691	37184	11269	1477	-6092	-2674	29744	24443
Start (Colonial)			46819	40874	32783	84712	36919	19991	50573	63066	37151	27359	19790	23208	55626	50325
Coyote	Buffer	3	46241	40296	32206	84135	36341	19413	49995	62489	36573	26782	19212	22631	55048	49748
Crismon	Buffer	3	41351	35406	27315	79244	31451	14523	45104	57598	31683	21891	14322	17740	50158	44857
Scottsdale	Buffer	3	39575	33630	25540	77469	29675	12747	43329	55823	29907	20116	12546	15965	48382	43082
Sedimento	Buffer	3	29599	23654	15564	67493	19699	2771	33353	45847	19931	10140	2570	5989	38406	33106
Canal System 2	Buffer	3	-5367	-11313	-19403	32526	-15267	-32195	-1614	10880	-15035	-24827	-32397	-28978	3439	-1861
Start (Colonial)			46819	40874	32783	84712	36919	19991	50573	63066	37151	27359	19790	23208	55626	50325
Coyote	SIU	4	46594	40649	32559	84488	36694	19766	50348	62842	36926	27135	19565	22984	55401	50101
Crismon	SIU	4	44702	38757	30667	82596	34802	17874	48456	60950	35034	25243	17673	21092	53509	48209
Scottsdale	SIU	4	44016	38071	29981	81909	34116	17188	47770	60263	34348	24556	16987	20405	52823	47522
Sedimento	SIU	4	40157	34212	26122	78050	30257	13329	43911	56405	30489	20697	13128	16547	48964	43663
Canal System 2	SIU	4	12310	6364	-1726	50203	2410	-14518	16063	28557	2642	-7150	-14720	-11301	21116	15816
Start (Colonial)			46819	40874	32783	84712	36919	19991	50573	63066	37151	27359	19790	23208	55626	50325
Coyote	Buffer	4	46049	40104	32013	83942	36149	19221	49803	62296	36381	26589	19020	22438	54856	49555
Crismon	Buffer	4	39528	33583	25493	77421	29628	12700	43282	55775	29860	20068	12499	15917	48335	43034
Scottsdale	Buffer	4	37161	31216	23125	75054	27261	10333	40915	53408	27493	17701	10132	13550	45968	40667
Sedimento	Buffer	4	23860	17914	9824	61753	13960	-2968	27613	40107	14192	4400	-3170	249	32666	27366
Canal System 2	Buffer	4	-22763	-28708	-36798	15130	-32663	-49591	-19009	-6515	-32431	-42223	-49792	-46373	-13956	-19257

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	984 Plant 2	985 Plant 2	986 Plant 2	987 Plant 2	988 Plant 2	989 Plant 2	990 Plant 2	991 Plant 2	992 Plant 2	993 Plant 2	994 Plant 2	995 Plant 2	996 Plant 2	997 Plant 2
Start (Colonial)			23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820	45550	45963	39652
Coyote	SIU	3	23612	41051	59232	58288	78501	74984	28217	25293	61124	23081	51652	45382	45795	39483
Crismon	SIU	3	22193	39632	57813	56869	77082	73565	26798	23874	59705	21662	50233	43963	44376	38064
Scottsdale	SIU	3	21679	39117	57298	56354	76567	73050	26283	23359	59190	21147	49718	43448	43861	37549
Sedimento	SIU	3	18784	36223	54404	53460	73673	70156	23389	20465	56296	18253	46824	40554	40967	34655
Canal System 2	SIU	3	-2101	15337	33518	32575	52787	49270	2503	-420	35410	-2632	25938	19668	20081	13770
Start (Colonial)			23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820	45550	45963	39652
Coyote	Buffer	3	23203	40642	58823	57879	78091	74575	27808	24884	60715	22672	51243	44973	45385	39074
Crismon	Buffer	3	18313	35751	53932	52988	73201	69684	22917	19993	55824	17781	46352	40082	40495	34183
Scottsdale	Buffer	3	16537	33976	52157	51213	71425	67909	21142	18218	54049	16006	44577	38307	38719	32408
Sedimento	Buffer	3	6561	24000	42181	41237	61450	57933	11166	8242	44073	6030	34601	28331	28743	22432
Canal System 2	Buffer	3	-28406	-10967	7214	6270	26483	22966	-23801	-26725	9106	-28937	-366	-6636	-6223	-12535
Start (Colonial)			23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820	45550	45963	39652
Coyote	SIU	4	23556	40995	59176	58232	78445	74928	28161	25237	61068	23025	51596	45326	45738	39427
Crismon	SIU	4	21664	39103	57284	56340	76553	73036	26269	23345	59176	21133	49704	43434	43846	37535
Scottsdale	SIU	4	20978	38416	56597	55654	75866	72350	25582	22659	58490	20447	49018	42748	43160	36849
Sedimento	SIU	4	17119	34557	52738	51795	72007	68491	21724	18800	54631	16588	45159	38889	39301	32990
Canal System 2	SIU	4	-10729	6710	24891	23947	44160	40643	-6124	-9048	26783	-11260	17311	11041	11454	5142
Start (Colonial)			23781	41219	59400	58456	78669	75152	28385	25462	61292	23250	51820	45550	45963	39652
Coyote	Buffer	4	23011	40449	58630	57686	77899	74382	27615	24692	60522	22480	51050	44780	45193	38882
Crismon	Buffer	4	16490	33928	52109	51166	71378	67862	21094	18171	54002	15959	44530	38260	38672	32361
Scottsdale	Buffer	4	14123	31561	49742	48798	69011	65494	18727	15804	51634	13592	42162	35892	36305	29994
Sedimento	Buffer	4	821	18260	36441	35497	55710	52193	5426	2502	38333	290	28861	22591	23004	16692
Canal System 2	Buffer	4	-45801	-28363	-10182	-11125	9087	5571	-41196	-44120	-8289	-46332	-17761	-24031	-23619	-29930

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	998 Plant 2	999 Plant 2	Total Deficits	800 Silk 2	801 Silk 2	802 Silk 2	803 Silk 2	804 Silk 2	805 Silk 2	806 Silk 2	807 Silk 2	808 Silk 2	809 Silk 2
Start (Colonial)			46133	37950		46502	71957	46546	96039	74838	96727	50464	41538	18144	15977
Coyote	SIU	3	45965	37782	0	46333	71788	46378	95871	74670	96559	50296	41370	17975	15809
Crismon	SIU	3	44546	36363	0	44914	70369	44959	94452	73251	95140	48877	39951	16556	14390
Scottsdale	SIU	3	44031	35848	0	44400	69854	44444	93937	72736	94625	48362	39436	16041	13875
Sedimento	SIU	3	41137	32954	0	41506	66960	41550	91043	69842	91731	45468	36542	13147	10981
Canal System 2	SIU	3	20251	12068	22	20620	46075	20664	70157	48956	70846	24582	15656	-7738	-9905
Start (Colonial)			46133	37950		46502	71957	46546	96039	74838	96727	50464	41538	18144	15977
Coyote	Buffer	3	45555	37373	0	45924	71379	45968	95462	74260	96150	49887	40960	17566	15400
Crismon	Buffer	3	40665	32482	0	41034	66488	41078	90571	69370	91259	44996	36070	12675	10509
Scottsdale	Buffer	3	38889	30707	1	39258	64713	39302	88796	67594	89484	43221	34294	10900	8734
Sedimento	Buffer	3	28914	20731	2	29282	54737	29326	78820	57618	79508	33245	24318	924	-1242
Canal System 2	Buffer	3	-6053	-14236	117	-5684	19770	-5640	43853	22652	44541	-1722	-10648	-34043	-36209
Start (Colonial)			46133	37950		46502	71957	46546	96039	74838	96727	50464	41538	18144	15977
Coyote	SIU	4	45909	37726	0	46277	71732	46321	95815	74613	96503	50240	41313	17919	15753
Crismon	SIU	4	44017	35834	0	44385	69840	44429	93923	72721	94611	48348	39421	16027	13861
Scottsdale	SIU	4	43330	35147	0	43699	69154	43743	93236	72035	93925	47661	38735	15341	13174
Sedimento	SIU	4	39471	31288	1	39840	65295	39884	89378	68176	90066	43802	34876	11482	9316
Canal System 2	SIU	4	11624	3441	51	11993	37447	12037	61530	40329	62218	15955	7029	-16366	-18532
Start (Colonial)			46133	37950		46502	71957	46546	96039	74838	96727	50464	41538	18144	15977
Coyote	Buffer	4	45363	37180	0	45732	71187	45776	95269	74068	95957	49694	40768	17374	15207
Crismon	Buffer	4	38842	30659	1	39211	64666	39255	88748	67547	89437	43173	34247	10853	8686
Scottsdale	Buffer	4	36475	28292	1	36844	62299	36888	86381	65180	87069	40806	31880	8486	6319
Sedimento	Buffer	4	23174	14991	14	23543	48997	23587	73080	51879	73768	27505	18579	-4816	-6982
Canal System 2	Buffer	4	-23449	-31632	167	-23080	2375	-23036	26458	5256	27146	-19118	-28044	-51438	-53604

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	810 Silk 2	811 Silk 2	812 Silk 2	813 Silk 2	814 Silk 2	815 Silk 2	816 Silk 2	817 Silk 2	818 Silk 2	819 Silk 2	820 Silk 2	821 Silk 2	822 Silk 2	823 Silk 2
Start (Colonial)			67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927	22966
Coyote	SIU	3	67213	46625	54942	51708	47167	35333	31252	29094	22701	43280	61415	56720	80759	22798
Crismon	SIU	3	65794	45206	53523	50289	45748	33914	29833	27675	21282	41861	59996	55301	79340	21379
Scottsdale	SIU	3	65279	44691	53008	49774	45234	33400	29318	27161	20767	41346	59481	54786	78825	20864
Sedimento	SIU	3	62385	41797	50114	46880	42339	30506	26424	24266	17873	38452	56587	51892	75931	17970
Canal System 2	SIU	3	41499	20911	29228	25994	21454	9620	5538	3381	-3013	17566	35701	31006	55045	-2916
Start (Colonial)			67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927	22966
Coyote	Buffer	3	66803	46215	54533	51298	46758	34924	30843	28685	22292	42871	61006	56311	80349	22389
Crismon	Buffer	3	61913	41325	49642	46408	41868	30034	25952	23795	17401	37980	56115	51420	75459	17498
Scottsdale	Buffer	3	60137	39549	47867	44632	40092	28258	24177	22019	15626	36205	54340	49645	73683	15723
Sedimento	Buffer	3	50162	29574	37891	34657	30116	18282	14201	12043	5650	26229	44364	39669	63707	5747
Canal System 2	Buffer	3	15195	-5393	2924	-310	-4851	-16684	-20766	-22924	-29317	-8738	9397	4702	28741	-29220
Start (Colonial)			67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927	22966
Coyote	SIU	4	67157	46569	54886	51652	47111	35277	31196	29038	22645	43224	61359	56664	80702	22742
Crismon	SIU	4	65265	44677	52994	49760	45219	33385	29304	27146	20753	41332	59467	54772	78810	20850
Scottsdale	SIU	4	64578	43990	52307	49073	44533	32699	28618	26460	20066	40646	58780	54086	78124	20163
Sedimento	SIU	4	60719	40131	48449	45214	40674	28840	24759	22601	16208	36787	54922	50227	74265	16305
Canal System 2	SIU	4	32872	12284	20601	17367	12826	993	-3089	-5247	-11640	8939	27074	22379	46418	-11543
Start (Colonial)			67381	46793	55110	51876	47336	35502	31420	29263	22869	43448	61583	56888	80927	22966
Coyote	Buffer	4	66611	46023	54340	51106	46566	34732	30650	28493	22099	42678	60813	56118	80157	22196
Crismon	Buffer	4	60090	39502	47819	44585	40045	28211	24130	21972	15578	36158	54292	49598	73636	15675
Scottsdale	Buffer	4	57723	37135	45452	42218	37678	25844	21762	19605	13211	33790	51925	47230	71269	13308
Sedimento	Buffer	4	44422	23834	32151	28917	24376	12543	8461	6303	-90	20489	38624	33929	57968	7
Canal System 2	Buffer	4	-2201	-22789	-14471	-17706	-22246	-34080	-38161	-40319	-46712	-26133	-7998	-12693	11345	-46615

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	824 Silk 2	825 Silk 2	826 Silk 2	827 Silk 2	828 Silk 2	829 Silk 2	830 Silk 2	831 Silk 2	832 Silk 2	833 Silk 2	834 Silk 2	835 Silk 2	836 Silk 2	837 Silk 2
Start (Colonial)			36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	SIU	3	36106	17322	57166	45769	29205	34866	18152	56292	35082	53711	65408	50327	55339	31812
Crismon	SIU	3	34687	15903	55747	44350	27786	33447	16733	54873	33663	52292	63989	48908	53920	30393
Scottsdale	SIU	3	34172	15388	55232	43835	27271	32932	16218	54358	33148	51777	63474	48393	53405	29879
Sedimento	SIU	3	31278	12494	52338	40941	24377	30038	13324	51464	30254	48883	60580	45499	50511	26984
Canal System 2	SIU	3	10392	-8391	31452	20055	3491	9152	-7562	30579	9368	27997	39694	24613	29625	6099
Start (Colonial)			36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	Buffer	3	35696	16913	56757	45359	28795	34457	17743	55883	34673	53302	64999	49917	54930	31403
Crismon	Buffer	3	30806	12022	51866	40469	23905	29566	12852	50992	29782	48411	60108	45027	50039	26513
Scottsdale	Buffer	3	29030	10247	50091	38693	22129	27791	11077	49217	28007	46636	58333	43251	48264	24737
Sedimento	Buffer	3	19055	271	40115	28718	12154	17815	1101	39241	18031	36660	48357	33276	38288	14761
Canal System 2	Buffer	3	-15912	-34696	5148	-6249	-22813	-17152	-33866	4274	-16936	1693	13390	-1691	3321	-20206
Start (Colonial)			36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	SIU	4	36050	17266	57110	45713	29149	34810	18096	56236	35026	53655	65352	50271	55283	31756
Crismon	SIU	4	34158	15374	55218	43821	27257	32918	16204	54344	33134	51763	63460	48379	53391	29864
Scottsdale	SIU	4	33471	14688	54531	43134	26570	32231	15517	53658	32447	51076	62774	47692	52705	29178
Sedimento	SIU	4	29612	10829	50672	39275	22711	28372	11658	49799	28589	47218	58915	43833	48846	25319
Canal System 2	SIU	4	1765	-17019	22825	11428	-5136	525	-16189	21951	741	19370	31067	15986	20998	-2529
Start (Colonial)			36274	17491	57334	45937	29373	35034	18320	56460	35250	53879	65576	50495	55507	31981
Coyote	Buffer	4	35504	16721	56564	45167	28603	34264	17550	55690	34480	53109	64806	49725	54737	31211
Crismon	Buffer	4	28983	10200	50043	38646	22082	27743	11029	49170	27959	46588	58286	43204	48217	24690
Scottsdale	Buffer	4	26616	7833	47676	36279	19715	25376	8662	46802	25592	44221	55918	40837	45849	22323
Sedimento	Buffer	4	13315	-5469	34375	22978	6414	12075	-4639	33501	12291	30920	42617	27536	32548	9021
Canal System 2	Buffer	4	-33308	-52091	-12248	-23645	-40209	-34548	-51262	-13121	-34331	-15702	-4005	-19087	-14074	-37601

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	838 Silk 2	839 Silk 2	840 Silk 2	841 Silk 2	842 Silk 2	843 Silk 2	844 Silk 2	845 Silk 2	846 Silk 2	847 Silk 2	848 Silk 2	849 Silk 2	850 Silk 2	851 Silk 2
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655
Coyote	SIU	3	5316	26023	16060	37222	40531	51743	39975	50975	33546	18218	48606	25887	48597	34486
Crismon	SIU	3	3897	24604	14641	35803	39112	50324	38556	49556	32127	16799	47187	24468	47178	33067
Scottsdale	SIU	3	3382	24090	14127	35288	38597	49809	38041	49041	31613	16284	46672	23953	46663	32552
Sedimento	SIU	3	488	21195	11232	32394	35703	46915	35147	46147	28719	13390	43778	21059	43769	29658
Canal System 2	SIU	3	-20397	310	-9653	11508	14818	26029	14262	25262	7833	-7496	22892	173	22883	8773
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655
Coyote	Buffer	3	4907	25614	15651	36813	40122	51334	39566	50566	33137	17809	48197	25477	48188	34077
Crismon	Buffer	3	16	20724	10761	31922	35231	46443	34675	45675	28247	12918	43306	20587	43297	29186
Scottsdale	Buffer	3	-1759	18948	8985	30147	33456	44668	32900	43900	26471	11143	41531	18811	41522	27411
Sedimento	Buffer	3	-11735	8972	-991	20171	23480	34692	22924	33924	16495	1167	31555	8836	31546	17435
Canal System 2	Buffer	3	-46702	-25995	-35958	-14796	-11487	-275	-12043	-1043	-18471	-33800	-3412	-26131	-3421	-17532
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655
Coyote	SIU	4	5260	25967	16004	37166	40475	51687	39919	50919	33490	18162	48550	25831	48541	34430
Crismon	SIU	4	3368	24075	14112	35274	38583	49795	38027	49027	31598	16270	46658	23939	46649	32538
Scottsdale	SIU	4	2682	23389	13426	34587	37897	49108	37341	48341	30912	15583	45971	23252	45962	31852
Sedimento	SIU	4	-1177	19530	9567	30729	34038	45250	33482	44482	27053	11725	42112	19393	42104	27993
Canal System 2	SIU	4	-29025	-8318	-18281	2881	6190	17402	5634	16634	-794	-16123	14265	-8454	14256	145
Start (Colonial)			5485	26192	16229	37390	40699	51911	40144	51144	33715	18386	48774	26055	48765	34655
Coyote	Buffer	4	4715	25422	15459	36620	39929	51141	39374	50374	32945	17616	48004	25285	47995	33885
Crismon	Buffer	4	-1806	18901	8938	30099	33409	44620	32853	43853	26424	11095	41483	18764	41474	27364
Scottsdale	Buffer	4	-4173	16534	6571	27732	31041	42253	30486	41486	24057	8728	39116	16397	39107	24997
Sedimento	Buffer	4	-17475	3232	-6731	14431	17740	28952	17184	28184	10756	-4573	25815	3096	25806	11695
Canal System 2	Buffer	4	-64097	-43390	-53353	-32191	-28882	-17670	-29438	-18438	-35867	-51195	-20808	-43527	-20816	-34927

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	852 Silk 2	853 Silk 2	854 Silk 2	855 Silk 2	856 Silk 2	857 Silk 2	858 Silk 2	859 Silk 2	860 Silk 2	861 Silk 2	862 Silk 2	863 Silk 2	864 Silk 2	865 Silk 2
Start (Colonial)			58772	34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574
Coyote	SIU	3	58604	34583	64949	32311	64980	39724	55573	45989	32788	51611	49149	45769	36582	25406
Crismon	SIU	3	57185	33164	63530	30892	63561	38305	54154	44570	31369	50192	47730	44350	35163	23987
Scottsdale	SIU	3	56670	32650	63015	30377	63046	37790	53639	44055	30854	49677	47215	43835	34648	23472
Sedimento	SIU	3	53776	29755	60121	27483	60152	34896	50745	41161	27960	46783	44321	40941	31754	20578
Canal System 2	SIU	3	32891	8870	39236	6597	39266	14010	29859	20276	7074	25897	23435	20055	10869	-308
Start (Colonial)			58772	34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574
Coyote	Buffer	3	58195	34174	64540	31902	64571	39315	55164	45580	32378	51201	48739	45359	36173	24996
Crismon	Buffer	3	53304	29284	59649	27011	59680	34424	50273	40689	27488	46311	43849	40469	31282	20106
Scottsdale	Buffer	3	51529	27508	57874	25236	57905	32649	48498	38914	25712	44535	42073	38693	29507	18330
Sedimento	Buffer	3	41553	17532	47898	15260	47929	22673	38522	28938	15736	34559	32097	28718	19531	8355
Canal System 2	Buffer	3	6586	-17435	12931	-19707	12962	-12294	3555	-6029	-19230	-407	-2869	-6249	-15436	-26612
Start (Colonial)			58772	34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574
Coyote	SIU	4	58548	34527	64893	32255	64924	39668	55517	45933	32731	51554	49092	45713	36526	25350
Crismon	SIU	4	56656	32635	63001	30363	63032	37776	53625	44041	30839	49662	47200	43821	34634	23458
Scottsdale	SIU	4	55970	31949	62315	29676	62346	37089	52938	43355	30153	48976	46514	43134	33948	22771
Sedimento	SIU	4	52111	28090	58456	25818	58487	33230	49080	39496	26294	45117	42655	39275	30089	18912
Canal System 2	SIU	4	24263	242	30608	-2030	30639	5383	21232	11648	-1553	17270	14808	11428	2241	-8935
Start (Colonial)			58772	34752	65117	32479	65148	39892	55741	46158	32956	51779	49317	45937	36750	25574
Coyote	Buffer	4	58002	33982	64347	31709	64378	39122	54971	45388	32186	51009	48547	45167	35980	24804
Crismon	Buffer	4	51482	27461	57827	25188	57858	32601	48450	38867	25665	44488	42026	38646	29460	18283
Scottsdale	Buffer	4	49114	25094	55459	22821	55490	30234	46083	36500	23298	42121	39659	36279	27092	15916
Sedimento	Buffer	4	35813	11792	42158	9520	42189	16933	32782	23198	9997	28820	26358	22978	13791	2615
Canal System 2	Buffer	4	-10809	-34830	-4464	-37102	-4433	-29690	-13840	-23424	-36626	-17803	-20265	-23645	-32831	-44008

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	866 Silk 2	867 Silk 2	868 Silk 2	869 Silk 2	870 Silk 2	871 Silk 2	872 Silk 2	873 Silk 2	874 Silk 2	875 Silk 2	876 Silk 2	877 Silk 2	878 Silk 2	879 Silk 2
Start (Colonial)			37399	25512	40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444
Coyote	SIU	3	37231	25344	40249	64848	31998	39786	32240	64133	39883	51686	64636	41149	31504	32276
Crismon	SIU	3	35812	23925	38830	63429	30579	38367	30821	62714	38464	50267	63217	39730	30085	30857
Scottsdale	SIU	3	35297	23410	38315	62914	30064	37852	30307	62199	37949	49752	62702	39215	29570	30342
Sedimento	SIU	3	32403	20516	35421	60020	27170	34958	27412	59305	35055	46858	59808	36321	26676	27448
Canal System 2	SIU	3	11517	-370	14535	39134	6284	14072	6527	38419	14169	25972	38922	15435	5790	6562
Start (Colonial)			37399	25512	40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444
Coyote	Buffer	3	36822	24935	39840	64438	31589	39376	31831	63724	39473	51276	64227	40740	31094	31866
Crismon	Buffer	3	31931	20044	34949	59548	26698	34486	26941	58833	34583	46386	59336	35849	26204	26976
Scottsdale	Buffer	3	30156	18269	33174	57772	24923	32710	25165	57058	32807	44610	57561	34074	24428	25200
Sedimento	Buffer	3	20180	8293	23198	47797	14947	22734	15189	47082	22831	34635	47585	24098	14452	15225
Canal System 2	Buffer	3	-14787	-26674	-11769	12830	-20020	-12232	-19778	12115	-12135	-332	12618	-10869	-20514	-19742
Start (Colonial)			37399	25512	40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444
Coyote	SIU	4	37175	25288	40193	64792	31942	39729	32184	64077	39826	51630	64580	41093	31447	32220
Crismon	SIU	4	35283	23396	38301	62900	30050	37837	30292	62185	37934	49738	62688	39201	29555	30328
Scottsdale	SIU	4	34596	22709	37614	62213	29363	37151	29606	61498	37248	49051	62001	38514	28869	29641
Sedimento	SIU	4	30737	18851	33756	58354	25504	33292	25747	57640	33389	45192	58143	34656	25010	25782
Canal System 2	SIU	4	2890	-8997	5908	30507	-2343	5445	-2101	29792	5542	17345	30295	6808	-2837	-2065
Start (Colonial)			37399	25512	40417	65016	32166	39954	32409	64301	40051	51854	64804	41317	31672	32444
Coyote	Buffer	4	36629	24742	39647	64246	31396	39184	31639	63531	39281	51084	64034	40547	30902	31674
Crismon	Buffer	4	30108	18221	33126	57725	24875	32663	25118	57010	32760	44563	57513	34026	24381	25153
Scottsdale	Buffer	4	27741	15854	30759	55358	22508	30296	22751	54643	30393	42196	55146	31659	22014	22786
Sedimento	Buffer	4	14440	2553	17458	42057	9207	16995	9449	41342	17092	28895	41845	18358	8713	9485
Canal System 2	Buffer	4	-32183	-44069	-29164	-4566	-37416	-29628	-37173	-5280	-29531	-17728	-4777	-28264	-37910	-37138

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	880 Silk 2	881 Silk 2	882 Silk 2	883 Silk 2	884 Silk 2	885 Silk 2	886 Silk 2	887 Silk 2	888 Silk 2	889 Silk 2	890 Silk 2	891 Silk 2	892 Silk 2	893 Silk 2
Start (Colonial)			56403	52763	35422	23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395
Coyote	SIU	3	56235	52595	35254	23019	19573	42327	32457	45716	83291	23248	59959	57144	24682	51227
Crismon	SIU	3	54816	51176	33835	21600	18154	40908	31038	44297	81872	21829	58540	55725	23263	49808
Scottsdale	SIU	3	54301	50661	33320	21085	17639	40393	30523	43782	81357	21314	58025	55210	22748	49293
Sedimento	SIU	3	51407	47767	30426	18191	14745	37499	27629	40888	78463	18420	55131	52316	19854	46399
Canal System 2	SIU	3	30521	26881	9540	-2695	-6141	16613	6743	20002	57578	-2466	34245	31430	-1032	25513
Start (Colonial)			56403	52763	35422	23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395
Coyote	Buffer	3	55826	52185	34845	22609	19163	41918	32047	45307	82882	22839	59550	56734	24273	50818
Crismon	Buffer	3	50935	47295	29954	17719	14273	37027	27157	40416	77991	17948	54659	51844	19382	45927
Scottsdale	Buffer	3	49160	45519	28179	15943	12497	35252	25381	38641	76216	16173	52884	50068	17607	44152
Sedimento	Buffer	3	39184	35543	18203	5967	2521	25276	15405	28665	66240	6197	42908	40093	7631	34176
Canal System 2	Buffer	3	4217	577	-16764	-28999	-32445	-9691	-19561	-6302	31273	-28770	7941	5126	-27336	-791
Start (Colonial)			56403	52763	35422	23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395
Coyote	SIU	4	56179	52538	35198	22962	19516	42271	32400	45660	83235	23192	59903	57088	24626	51171
Crismon	SIU	4	54287	50646	33306	21070	17624	40379	30508	43768	81343	21300	58011	55196	22734	49279
Scottsdale	SIU	4	53600	49960	32620	20384	16938	39693	29822	43081	80657	20614	57324	54509	22048	48592
Sedimento	SIU	4	49741	46101	28761	16525	13079	35834	25963	39222	76798	16755	53465	50650	18189	44733
Canal System 2	SIU	4	21894	18254	913	-11322	-14768	7986	-1884	11375	48950	-11093	25618	22803	-9659	16886
Start (Colonial)			56403	52763	35422	23187	19741	42495	32625	45884	83460	23416	60127	57312	24850	51395
Coyote	Buffer	4	55633	51993	34652	22417	18971	41725	31855	45114	82690	22646	59357	56542	24080	50625
Crismon	Buffer	4	49112	45472	28132	15896	12450	35205	25334	38593	76169	16126	52836	50021	17560	44104
Scottsdale	Buffer	4	46745	43105	25764	13529	10083	32837	22967	36226	73802	13758	50469	47654	15192	41737
Sedimento	Buffer	4	33444	29804	12463	228	-3218	19536	9666	22925	60500	457	37168	34353	1891	28436
Canal System 2	Buffer	4	-13179	-16819	-34159	-46395	-49841	-27086	-36957	-23698	13878	-46165	-9455	-12270	-44731	-18187

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	894 Silk 2	895 Silk 2	896 Silk 2	897 Silk 2	898 Silk 2	899 Silk 2	900 Silk 2	901 Silk 2	902 Silk 2	903 Silk 2	904 Silk 2	905 Silk 2	906 Silk 2	907 Silk 2
Start (Colonial)			29033	28221	36331	63785	64253	114712	19203	34796	26461	21815	22384	39504	26333	23434
Coyote	SIU	3	28865	28053	36163	63617	64084	114544	19034	34627	26293	21646	22216	39335	26165	23266
Crismon	SIU	3	27446	26634	34744	62198	62665	113125	17615	33208	24874	20227	20797	37916	24746	21847
Scottsdale	SIU	3	26931	26119	34229	61683	62151	112610	17100	32694	24359	19713	20282	37402	24231	21332
Sedimento	SIU	3	24037	23225	31335	58789	59256	109716	14206	29800	21465	16818	17388	34508	21337	18438
Canal System 2	SIU	3	3151	2339	10449	37903	38371	88830	-6679	8914	579	-4067	-3498	13622	451	-2448
Start (Colonial)			29033	28221	36331	63785	64253	114712	19203	34796	26461	21815	22384	39504	26333	23434
Coyote	Buffer	3	28456	27644	35754	63207	63675	114135	18625	34218	25883	21237	21806	38926	25755	22856
Crismon	Buffer	3	23565	22753	30863	58317	58785	109244	13734	29328	20993	16347	16916	34036	20865	17966
Scottsdale	Buffer	3	21790	20978	29088	56541	57009	107469	11959	27552	19217	14571	15140	32260	19089	16190
Sedimento	Buffer	3	11814	11002	19112	46565	47033	97493	1983	17576	9241	4595	5164	22284	9113	6215
Canal System 2	Buffer	3	-23153	-23965	-15855	11599	12066	62526	-32984	-17390	-25725	-30372	-29802	-12682	-25853	-28752
Start (Colonial)			29033	28221	36331	63785	64253	114712	19203	34796	26461	21815	22384	39504	26333	23434
Coyote	SIU	4	28809	27997	36107	63560	64028	114488	18978	34571	26236	21590	22159	39279	26108	23210
Crismon	SIU	4	26917	26105	34215	61668	62136	112596	17086	32679	24344	19698	20267	37387	24216	21318
Scottsdale	SIU	4	26230	25419	33528	60982	61450	111909	16400	31993	23658	19012	19581	36701	23530	20631
Sedimento	SIU	4	22372	21560	29670	57123	57591	108051	12541	28134	19799	15153	15722	32842	19671	16772
Canal System 2	SIU	4	-5476	-6288	1822	29276	29743	80203	-15307	287	-8048	-12695	-12125	4995	-8176	-11075
Start (Colonial)			29033	28221	36331	63785	64253	114712	19203	34796	26461	21815	22384	39504	26333	23434
Coyote	Buffer	4	28263	27451	35561	63015	63483	113942	18433	34026	25691	21045	21614	38734	25563	22664
Crismon	Buffer	4	21742	20931	29040	56494	56962	107421	11912	27505	19170	14524	15093	32213	19042	16143
Scottsdale	Buffer	4	19375	18563	26673	54127	54595	105054	9545	25138	16803	12157	12726	29846	16675	13776
Sedimento	Buffer	4	6074	5262	13372	40826	41293	91753	-3757	11837	3502	-1145	-575	16545	3374	475
Canal System 2	Buffer	4	-40548	-41360	-33250	-5797	-5329	45131	-50379	-34786	-43121	-47767	-47198	-30078	-43249	-46148

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	908 Silk 2	909 Silk 2	910 Silk 2	911 Silk 2	912 Silk 2	913 Silk 2	914 Silk 2	915 Silk 2	916 Silk 2	917 Silk 2	918 Silk 2	919 Silk 2	920 Silk 2	921 Silk 2
Start (Colonial)			42072	41864	28468	51166	50830	38921	40580	57272	27780	63516	36190	35674	17716	32612
Coyote	SIU	3	41903	41696	28300	50997	50662	38753	40412	57104	27612	63347	36022	35506	17547	32443
Crismon	SIU	3	40484	40277	26881	49578	49243	37334	38993	55685	26193	61928	34603	34087	16128	31024
Scottsdale	SIU	3	39970	39762	26366	49063	48728	36819	38478	55170	25678	61414	34088	33572	15613	30510
Sedimento	SIU	3	37076	36868	23472	46169	45834	33925	35584	52276	22784	58520	31194	30678	12719	27615
Canal System 2	SIU	3	16190	15982	2587	25284	24948	13039	14698	31390	1898	37634	10308	9792	-8166	6730
Start (Colonial)			42072	41864	28468	51166	50830	38921	40580	57272	27780	63516	36190	35674	17716	32612
Coyote	Buffer	3	41494	41287	27891	50588	50253	38344	40003	56695	27203	62938	35613	35096	17138	32034
Crismon	Buffer	3	36604	36396	23000	45697	45362	33453	35112	51804	22312	58048	30722	30206	12247	27144
Scottsdale	Buffer	3	34828	34621	21225	43922	43587	31678	33337	50029	20537	56272	28947	28430	10472	25368
Sedimento	Buffer	3	24852	24645	11249	33946	33611	21702	23361	40053	10561	46296	18971	18454	496	15392
Canal System 2	Buffer	3	-10114	-10322	-23718	-1021	-1356	-13265	-11606	5086	-24406	11330	-15996	-16512	-34471	-19575
Start (Colonial)			42072	41864	28468	51166	50830	38921	40580	57272	27780	63516	36190	35674	17716	32612
Coyote	SIU	4	41847	41640	28244	50941	50606	38697	40356	57048	27556	63291	35966	35449	17491	32387
Crismon	SIU	4	39955	39748	26352	49049	48714	36805	38464	55156	25664	61399	34074	33557	15599	30495
Scottsdale	SIU	4	39269	39062	25666	48363	48027	36119	37778	54469	24977	60713	33387	32871	14913	29809
Sedimento	SIU	4	35410	35203	21807	44504	44169	32260	33919	50611	21119	56854	29528	29012	11054	25950
Canal System 2	SIU	4	7563	7355	-6041	16656	16321	4412	6071	22763	-6729	29007	1681	1165	-16794	-1898
Start (Colonial)			42072	41864	28468	51166	50830	38921	40580	57272	27780	63516	36190	35674	17716	32612
Coyote	Buffer	4	41302	41094	27698	50396	50060	38151	39810	56502	27010	62746	35420	34904	16946	31842
Crismon	Buffer	4	34781	34574	21178	43875	43539	31631	33290	49981	20489	56225	28899	28383	10425	25321
Scottsdale	Buffer	4	32414	32206	18810	41508	41172	29263	30922	47614	18122	53858	26532	26016	8058	22954
Sedimento	Buffer	4	19113	18905	5509	28206	27871	15962	17621	34313	4821	40557	13231	12715	-5244	9652
Canal System 2	Buffer	4	-27510	-27717	-41113	-18416	-18751	-30660	-29001	-12309	-41801	-6066	-33392	-33908	-51866	-36970

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	922 Silk 2	923 Silk 2	924 Silk 2	925 Silk 2	926 Silk 2	927 Silk 2	928 Silk 2	929 Silk 2	930 Silk 2	931 Silk 2	932 Silk 2	933 Silk 2	934 Silk 2	935 Silk 2
Start (Colonial)			21740	27039	21881	34310	54400	40091	78765	64985	40960	65166	48174	28371	29474	32506
Coyote	SIU	3	21571	26871	21713	34142	54232	39922	78597	64817	40792	64998	48006	28203	29306	32337
Crismon	SIU	3	20152	25452	20294	32723	52813	38503	77178	63398	39373	63579	46587	26784	27887	30918
Scottsdale	SIU	3	19638	24937	19779	32208	52298	37988	76663	62883	38858	63064	46072	26269	27372	30404
Sedimento	SIU	3	16743	22043	16885	29314	49404	35094	73769	59989	35964	60170	43178	23375	24478	27510
Canal System 2	SIU	3	-4142	1157	-4001	8429	28518	14209	52883	39103	15078	39284	22292	2489	3593	6624
Start (Colonial)			21740	27039	21881	34310	54400	40091	78765	64985	40960	65166	48174	28371	29474	32506
Coyote	Buffer	3	21162	26461	21303	33733	53822	39513	78187	64408	40382	64588	47597	27794	28897	31928
Crismon	Buffer	3	16272	21571	16413	28842	48932	34622	73297	59517	35492	59698	42706	22903	24006	27038
Scottsdale	Buffer	3	14496	19795	14637	27067	47156	32847	71521	57742	33716	57922	40931	21128	22231	25262
Sedimento	Buffer	3	4520	9819	4661	17091	37180	22871	61545	47766	23740	47947	30955	11152	12255	15286
Canal System 2	Buffer	3	-30447	-25147	-30305	-17876	2214	-12096	26579	12799	-11226	12980	-4012	-23815	-22712	-19680
Start (Colonial)			21740	27039	21881	34310	54400	40091	78765	64985	40960	65166	48174	28371	29474	32506
Coyote	SIU	4	21515	26814	21656	34086	54175	39866	78540	64761	40735	64942	47950	28147	29250	32281
Crismon	SIU	4	19623	24922	19764	32194	52283	37974	76648	62869	38843	63050	46058	26255	27358	30389
Scottsdale	SIU	4	18937	24236	19078	31508	51597	37288	75962	62182	38157	62363	45371	25569	26672	29703
Sedimento	SIU	4	15078	20377	15219	27649	47738	33429	72103	58323	34298	58504	41512	21710	22813	25844
Canal System 2	SIU	4	-12770	-7470	-12628	-199	19891	5581	44256	30476	6451	30657	13665	-6138	-5035	-2003
Start (Colonial)			21740	27039	21881	34310	54400	40091	78765	64985	40960	65166	48174	28371	29474	32506
Coyote	Buffer	4	20970	26269	21111	33540	53630	39321	77995	64215	40190	64396	47404	27601	28704	31736
Crismon	Buffer	4	14449	19748	14590	27020	47109	32800	71474	57694	33669	57875	40883	21081	22184	25215
Scottsdale	Buffer	4	12082	17381	12223	24652	44742	30433	69107	55327	31302	55508	38516	18713	19816	22848
Sedimento	Buffer	4	-1220	4080	-1078	11351	31441	17131	55806	42026	18001	42207	25215	5412	6515	9547
Canal System 2	Buffer	4	-47842	-42543	-47701	-35271	-15182	-29491	9183	-4597	-28622	-4416	-21408	-41210	-40107	-37076

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	936 Silk 2	937 Silk 2	938 Silk 2	939 Silk 2	940 Silk 2	941 Silk 2	942 Silk 2	943 Silk 2	944 Silk 2	945 Silk 2	946 Silk 2	947 Silk 2	948 Silk 2	949 Silk 2
Start (Colonial)			43876	24091	62095	43837	52767	60873	69106	18174	54387	66415	53376	48311	65087	60745
Coyote	SIU	3	43708	23923	61927	43668	52599	60704	68938	18006	54218	66246	53208	48142	64918	60576
Crismon	SIU	3	42289	22504	60508	42249	51180	59285	67519	16587	52799	64827	51789	46723	63499	59157
Scottsdale	SIU	3	41774	21989	59993	41735	50665	58771	67004	16072	52284	64313	51274	46209	62984	58643
Sedimento	SIU	3	38880	19095	57099	38840	47771	55877	64110	13178	49390	61418	48380	43315	60090	55749
Canal System 2	SIU	3	17994	-1790	36213	17955	26885	34991	43224	-7707	28505	40533	27494	22429	39205	34863
Start (Colonial)			43876	24091	62095	43837	52767	60873	69106	18174	54387	66415	53376	48311	65087	60745
Coyote	Buffer	3	43299	23514	61517	43259	52190	60295	68529	17597	53809	65837	52799	47733	64509	60167
Crismon	Buffer	3	38408	18623	56627	38369	47299	55405	63638	12706	48918	60947	47908	42843	59618	55277
Scottsdale	Buffer	3	36633	16848	54851	36593	45524	53629	61863	10931	47143	59171	46133	41067	57843	53501
Sedimento	Buffer	3	26657	6872	44876	26617	35548	43653	51887	955	37167	49195	36157	31091	47867	43525
Canal System 2	Buffer	3	-8310	-28095	9909	-8350	581	8687	16920	-34012	2200	14228	1190	-3875	12900	8559
Start (Colonial)			43876	24091	62095	43837	52767	60873	69106	18174	54387	66415	53376	48311	65087	60745
Coyote	SIU	4	43652	23867	61871	43612	52543	60648	68882	17950	54162	66190	53152	48086	64862	60520
Crismon	SIU	4	41760	21975	59979	41720	50651	58756	66990	16058	52270	64298	51260	46194	62970	58628
Scottsdale	SIU	4	41074	21289	59292	41034	49964	58070	66303	15372	51584	63612	50573	45508	62284	57942
Sedimento	SIU	4	37215	17430	55433	37175	46106	54211	62445	11513	47725	59753	46715	41649	58425	54083
Canal System 2	SIU	4	9367	-10418	27586	9327	18258	26364	34597	-16335	19877	31905	18867	13802	30577	26236
Start (Colonial)			43876	24091	62095	43837	52767	60873	69106	18174	54387	66415	53376	48311	65087	60745
Coyote	Buffer	4	43106	23321	61325	43067	51997	60103	68336	17404	53617	65645	52606	47541	64317	59975
Crismon	Buffer	4	36586	16801	54804	36546	45476	53582	61815	10884	47096	59124	46085	41020	57796	53454
Scottsdale	Buffer	4	34218	14433	52437	34179	43109	51215	59448	8516	44729	56757	43718	38653	55429	51087
Sedimento	Buffer	4	20917	1132	39136	20877	29808	37914	46147	-4785	31427	43455	30417	25352	42127	37786
Canal System 2	Buffer	4	-25705	-45490	-7487	-25745	-16814	-8709	-475	-51407	-15195	-3167	-16205	-21271	-4495	-8837

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	950 Silk 2	951 Silk 2	952 Silk 2	953 Silk 2	954 Silk 2	955 Silk 2	956 Silk 2	957 Silk 2	958 Silk 2	959 Silk 2	960 Silk 2	961 Silk 2	962 Silk 2	963 Silk 2
Start (Colonial)			46647	23169	51558	41975	13709	32179	47309	17610	48637	51360	68356	31491	57877	40223
Coyote	SIU	3	46479	23001	51390	41806	13541	32011	47141	17441	48469	51191	68188	31323	57708	40055
Crismon	SIU	3	45060	21582	49971	40387	12122	30592	45722	16022	47050	49772	66769	29904	56289	38636
Scottsdale	SIU	3	44545	21067	49456	39873	11607	30077	45207	15508	46535	49258	66254	29389	55775	38121
Sedimento	SIU	3	41651	18173	46562	36978	8713	27183	42313	12613	43641	46364	63360	26495	52881	35227
Canal System 2	SIU	3	20765	-2713	25676	16093	-12173	6297	21427	-8272	22755	25478	42474	5609	31995	14341
Start (Colonial)			46647	23169	51558	41975	13709	32179	47309	17610	48637	51360	68356	31491	57877	40223
Coyote	Buffer	3	46070	22592	50981	41397	13132	31602	46732	17032	48060	50782	67779	30913	57299	39645
Crismon	Buffer	3	41179	17701	46090	36507	8241	26711	41841	12142	43169	45892	62888	26023	52409	34755
Scottsdale	Buffer	3	39404	15926	44315	34731	6466	24936	40066	10366	41394	44116	61113	24247	50633	32979
Sedimento	Buffer	3	29428	5950	34339	24755	-3510	14960	30090	390	31418	34140	51137	14272	40657	23004
Canal System 2	Buffer	3	-5539	-29017	-628	-10212	-38477	-20007	-4877	-34577	-3549	-826	16170	-20695	5691	-11963
Start (Colonial)			46647	23169	51558	41975	13709	32179	47309	17610	48637	51360	68356	31491	57877	40223
Coyote	SIU	4	46423	22945	51334	41750	13485	31955	47085	17385	48413	51135	68132	31267	57652	39999
Crismon	SIU	4	44531	21053	49442	39858	11593	30063	45193	15493	46521	49243	66240	29375	55760	38107
Scottsdale	SIU	4	43845	20366	48755	39172	10906	29376	44506	14807	45835	48557	65553	28688	55074	37420
Sedimento	SIU	4	39986	16508	44897	35313	7048	25518	40648	10948	41976	44698	61694	24829	51215	33561
Canal System 2	SIU	4	12138	-11340	17049	7465	-20800	-2330	12800	-16900	14128	16851	33847	-3018	23368	5714
Start (Colonial)			46647	23169	51558	41975	13709	32179	47309	17610	48637	51360	68356	31491	57877	40223
Coyote	Buffer	4	45877	22399	50788	41205	12939	31409	46539	16840	47867	50590	67586	30721	57107	39453
Crismon	Buffer	4	39357	15878	44267	34684	6418	24888	40018	10319	41347	44069	61065	24200	50586	32932
Scottsdale	Buffer	4	36989	13511	41900	32317	4051	22521	37651	7952	38979	41702	58698	21833	48219	30565
Sedimento	Buffer	4	23688	210	28599	19015	-9250	9220	24350	-5350	25678	28401	45397	8532	34918	17264
Canal System 2	Buffer	4	-22934	-46412	-18023	-27607	-55872	-37402	-22272	-51972	-20944	-18222	-1226	-38091	-11705	-29359

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	964 Silk 2	965 Silk 2	966 Silk 2	967 Silk 2	968 Silk 2	969 Silk 2	970 Silk 2	971 Silk 2	972 Silk 2	973 Silk 2	974 Silk 2	975 Silk 2	976 Silk 2	977 Silk 2
Start (Colonial)			37487	64689	41220	29263	24171	41878	40064	34977	28054	72490	31592	17107	43276	53967
Coyote	SIU	3	37319	64521	41052	29094	24003	41709	39896	34808	27885	72322	31424	16938	43108	53799
Crismon	SIU	3	35900	63102	39633	27675	22584	40290	38477	33389	26466	70903	30005	15519	41689	52380
Scottsdale	SIU	3	35385	62587	39118	27161	22069	39775	37962	32875	25952	70388	29490	15005	41174	51865
Sedimento	SIU	3	32491	59693	36224	24266	19175	36881	35068	29980	23058	67494	26596	12110	38280	48971
Canal System 2	SIU	3	11605	38808	15338	3381	-1711	15996	14182	9095	2172	46609	5711	-8775	17394	28086
Start (Colonial)			37487	64689	41220	29263	24171	41878	40064	34977	28054	72490	31592	17107	43276	53967
Coyote	Buffer	3	36910	64112	40643	28685	23593	41300	39487	34399	27476	71913	31015	16529	42699	53390
Crismon	Buffer	3	32019	59221	35752	23795	18703	36409	34596	29509	22586	67022	26124	11639	37808	48499
Scottsdale	Buffer	3	30244	57446	33977	22019	16927	34634	32821	27733	20810	65247	24349	9863	36033	46724
Sedimento	Buffer	3	20268	47470	24001	12043	6951	24658	22845	17757	10834	55271	14373	-113	26057	36748
Canal System 2	Buffer	3	-14699	12503	-10966	-22924	-28015	-10309	-12122	-17210	-24132	20304	-20594	-35080	-8910	1781
Start (Colonial)			37487	64689	41220	29263	24171	41878	40064	34977	28054	72490	31592	17107	43276	53967
Coyote	SIU	4	37263	64465	40996	29038	23946	41653	39840	34752	27829	72266	31368	16882	43052	53743
Crismon	SIU	4	35371	62573	39104	27146	22054	39761	37948	32860	25937	70374	29476	14990	41160	51851
Scottsdale	SIU	4	34685	61887	38417	26460	21368	39075	37261	32174	25251	69688	28790	14304	40474	51165
Sedimento	SIU	4	30826	58028	34559	22601	17509	35216	33403	28315	21392	65829	24931	10445	36615	47306
Canal System 2	SIU	4	2978	30180	6711	-5247	-10338	7368	5555	467	-6455	37981	-2917	-17403	8767	19458
Start (Colonial)			37487	64689	41220	29263	24171	41878	40064	34977	28054	72490	31592	17107	43276	53967
Coyote	Buffer	4	36717	63919	40450	28493	23401	41108	39294	34207	27284	71720	30822	16337	42506	53197
Crismon	Buffer	4	30197	57399	33929	21972	16880	34587	32773	27686	20763	65200	24302	9816	35986	46677
Scottsdale	Buffer	4	27829	55031	31562	19605	14513	32220	30406	25319	18396	62832	21934	7449	33618	44309
Sedimento	Buffer	4	14528	41730	18261	6303	1212	18918	17105	12017	5095	49531	8633	-5853	20317	31008
Canal System 2	Buffer	4	-32094	-4892	-28361	-40319	-45411	-27704	-29517	-34605	-41528	2909	-37989	-52475	-26305	-15614

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	978 Silk 2	979 Silk 2	980 Silk 2	981 Silk 2	982 Silk 2	983 Silk 2	984 Silk 2	985 Silk 2	986 Silk 2	987 Silk 2	988 Silk 2	989 Silk 2	990 Silk 2	991 Silk 2
Start (Colonial)			31791	23412	16935	19860	47600	43065	20350	35272	50830	50023	67319	64310	24290	21788
Coyote	SIU	3	31623	23244	16766	19692	47432	42896	20181	35104	50662	49854	67151	64142	24122	21620
Crismon	SIU	3	30204	21825	15347	18273	46013	41477	18762	33685	49243	48435	65732	62723	22703	20201
Scottsdale	SIU	3	29689	21310	14832	17758	45498	40962	18248	33170	48728	47921	65217	62208	22188	19686
Sedimento	SIU	3	26795	18416	11938	14864	42604	38068	15354	30276	45834	45027	62323	59314	19294	16792
Canal System 2	SIU	3	5909	-2470	-8947	-6022	21719	17183	-5532	9390	24948	24141	41437	38428	-1592	-4094
Start (Colonial)			31791	23412	16935	19860	47600	43065	20350	35272	50830	50023	67319	64310	24290	21788
Coyote	Buffer	3	31213	22834	16357	19282	47023	42487	19772	34695	50253	49445	66742	63732	23712	21211
Crismon	Buffer	3	26323	17944	11466	14392	42132	37596	14882	29804	45362	44555	61851	58842	18822	16320
Scottsdale	Buffer	3	24547	16168	9691	12616	40357	35821	13106	28029	43587	42779	60076	57066	17046	14545
Sedimento	Buffer	3	14572	6193	-285	2641	30381	25845	3130	18053	33611	32803	50100	47091	7071	4569
Canal System 2	Buffer	3	-20395	-28774	-35252	-32326	-4586	-9122	-31836	-16914	-1356	-2163	15133	12124	-27896	-30398
Start (Colonial)			31791	23412	16935	19860	47600	43065	20350	35272	50830	50023	67319	64310	24290	21788
Coyote	SIU	4	31567	23188	16710	19636	47376	42840	20125	35048	50606	49798	67095	64086	24066	21564
Crismon	SIU	4	29675	21296	14818	17744	45484	40948	18233	33156	48714	47906	65203	62194	22174	19672
Scottsdale	SIU	4	28988	20609	14132	17057	44798	40262	17547	32470	48027	47220	64516	61507	21487	18985
Sedimento	SIU	4	25129	16750	10273	13198	40939	36403	13688	28611	44169	43361	60658	57648	17628	15127
Canal System 2	SIU	4	-2718	-11097	-17575	-14649	13091	8555	-14159	763	16321	15514	32810	29801	-10219	-12721
Start (Colonial)			31791	23412	16935	19860	47600	43065	20350	35272	50830	50023	67319	64310	24290	21788
Coyote	Buffer	4	31021	22642	16165	19090	46830	42295	19580	34502	50060	49253	66549	63540	23520	21018
Crismon	Buffer	4	24500	16121	9644	12569	40310	35774	13059	27982	43539	42732	60028	57019	16999	14497
Scottsdale	Buffer	4	22133	13754	7277	10202	37942	33407	10692	25614	41172	40365	57661	54652	14632	12130
Sedimento	Buffer	4	8832	453	-6025	-3099	24641	20105	-2609	12313	27871	27064	44360	41351	1331	-1171
Canal System 2	Buffer	4	-37791	-46170	-52647	-49722	-21981	-26517	-49232	-34309	-18751	-19559	-2262	-5272	-45292	-47793

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	992 Silk 2	993 Silk 2	994 Silk 2	995 Silk 2	996 Silk 2	997 Silk 2	998 Silk 2	999 Silk 2	Total Deficits
Start (Colonial)			52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	SIU	3	52281	19727	44176	38810	39163	33763	39309	32307	0
Crismon	SIU	3	50862	18308	42757	37391	37744	32344	37890	30888	0
Scottsdale	SIU	3	50347	17793	42242	36877	37230	31829	37375	30373	0
Sedimento	SIU	3	47453	14899	39348	33982	34335	28935	34481	27479	0
Canal System 2	SIU	3	26568	-5987	18462	13097	13450	8049	13595	6593	36
Start (Colonial)			52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	Buffer	3	51872	19318	43767	38401	38754	33353	38900	31897	0
Crismon	Buffer	3	46981	14427	38876	33511	33864	28463	34009	27007	0
Scottsdale	Buffer	3	45206	12652	37101	31735	32088	26687	32234	25231	1
Sedimento	Buffer	3	35230	2676	27125	21759	22112	16712	22258	15255	6
Canal System 2	Buffer	3	263	-32291	-7842	-13208	-12855	-18255	-12709	-19711	148
Start (Colonial)			52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	SIU	4	52225	19671	44120	38754	39107	33707	39253	32250	0
Crismon	SIU	4	50333	17779	42228	36862	37215	31815	37361	30358	0
Scottsdale	SIU	4	49647	17092	41541	36176	36529	31128	36674	29672	0
Sedimento	SIU	4	45788	13234	37682	32317	32670	27269	32816	25813	1
Canal System 2	SIU	4	17940	-14614	9835	4469	4822	-578	4968	-2034	70
Start (Colonial)			52450	19895	44344	38979	39332	33931	39477	32475	
Coyote	Buffer	4	51680	19125	43574	38209	38562	33161	38707	31705	0
Crismon	Buffer	4	45159	12604	37053	31688	32041	26640	32186	25184	1
Scottsdale	Buffer	4	42792	10237	34686	29321	29674	24273	29819	22817	1
Sedimento	Buffer	4	29490	-3064	21385	16019	16372	10972	16518	9516	24
Canal System 2	Buffer	4	-17132	-49686	-25238	-30603	-30250	-35651	-30104	-37107	191

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1000 Plant 1	1001 Plant 1	1002 Plant 1	1003 Plant 1	1004 Plant 1	1005 Plant 1	1006 Plant 1	1007 Plant 1	1008 Plant 1	1009 Plant 1	1010 Plant 1	1011 Plant 1	1012 Plant 1	1013 Plant 1
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	SIU	1	149726	83853	148971	132093	192131	56045	223157	168843	125823	87673	190060	173196	128734	110247
Lehi	SIU	1	147176	81302	146420	129542	189580	53494	220606	166293	123272	85123	187509	170645	126183	107696
Crismon	SIU	1	146448	80575	145693	128815	188853	52767	219879	165565	122545	84395	186782	169918	125456	106969
Scottsdale	SIU	1	145509	79636	144753	127876	187913	51828	218940	164626	121606	83456	185842	168978	124517	106030
Riverview	SIU	1	144177	78303	143421	126544	186581	50496	217608	163294	120274	82124	184510	167646	123185	104698
Canal System 2	SIU	1	140824	74951	140068	123191	183228	47143	214255	159941	116921	78771	181157	164294	119832	101345
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	Buffer	1	148896	83022	148140	131263	191300	55215	222327	168013	124993	86843	189229	172365	127904	109417
Lehi	Buffer	1	139395	73522	138640	121762	181800	45714	212826	158512	115492	77342	179728	162865	118403	99916
Crismon	Buffer	1	136044	70170	135288	118410	178448	42362	209474	155161	112140	73991	176377	159513	115051	96564
Scottsdale	Buffer	1	131789	65915	131033	114155	174193	38108	205220	150906	107886	69736	172122	155258	110797	92309
Riverview	Buffer	1	121439	55565	120683	103805	163843	27758	194870	140556	97536	59386	161772	144908	100447	81960
Canal System 2	Buffer	1	110586	44713	109831	92953	152991	16905	184017	129703	86683	48533	150919	134056	89594	71107
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	SIU	2	149387	83513	148631	131753	191791	55705	222817	168504	125483	87334	189720	172856	128394	109907
Lehi	SIU	2	144285	78411	143529	126651	186689	50604	217716	163402	120382	82232	184618	167754	123293	104805
Crismon	SIU	2	142831	76957	142075	125197	185235	49149	216261	161948	118927	80778	183164	166300	121838	103351
Scottsdale	SIU	2	140952	75078	140196	123318	183356	47271	214383	160069	117049	78899	181285	164421	119960	101472
Riverview	SIU	2	138288	72414	137532	120654	180692	44606	211718	157405	114384	76235	178621	161757	117295	98808
Canal System 2	SIU	2	131582	65708	130826	113949	173986	37901	205013	150699	107679	69529	171915	155051	110590	92103
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	Buffer	2	146211	80337	145455	128578	188615	52530	219642	165328	122308	84158	186544	169680	125219	106732
Lehi	Buffer	2	128328	62454	127572	110694	170732	34646	201758	147445	104424	66275	168661	151797	107335	88848
Crismon	Buffer	2	121460	55586	120704	103827	163864	27779	194891	140577	97557	59407	161793	144929	100468	81981
Scottsdale	Buffer	2	111842	45969	111086	94209	154246	18161	185273	130959	87939	49789	152175	135312	90850	72363
Riverview	Buffer	2	91051	25177	90295	73418	133455	-2630	164482	110168	67148	28998	131384	114520	70059	51572
Canal System 2	Buffer	2	71319	5445.4	70563	53686	113723	-22362	144750	90436	47416	9266	111652	94788	50327	31840

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1014 Plant 1	1015 Plant 1	1016 Plant 1	1017 Plant 1	1018 Plant 1	1019 Plant 1	1020 Plant 1	1021 Plant 1	1022 Plant 1	1023 Plant 1	1024 Plant 1	1025 Plant 1	1026 Plant 1	1027 Plant 1
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	SIU	1	66709	211668	105293	209204	87254	87212	191375	104075	109925	74322	181033	96224	133688	137229
Lehi	SIU	1	64158	209117	102742	206654	84703	84661	188824	101525	107374	71772	178482	93673	131138	134678
Crismon	SIU	1	63431	208390	102015	205926	83976	83934	188097	100797	106647	71044	177755	92946	130410	133951
Scottsdale	SIU	1	62492	207450	101076	204987	83036	82994	187158	99858	105708	70105	176816	92007	129471	133012
Riverview	SIU	1	61160	206118	99743	203655	81704	81662	185826	98526	104376	68773	175483	90675	128139	131680
Canal System 2	SIU	1	57807	202765	96391	200302	78351	78309	182473	95173	101023	65420	172131	87322	124786	128327
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	Buffer	1	65879	210837	104462	208374	86423	86381	190545	103245	109095	73492	180202	95394	132858	136399
Lehi	Buffer	1	56378	201336	94962	198873	76922	76880	181044	93744	99594	63991	170702	85893	123357	126898
Crismon	Buffer	1	53026	197985	91610	195522	73571	73529	177692	90393	96242	60640	167350	82541	120006	123546
Scottsdale	Buffer	1	48772	193730	87355	191267	69316	69274	173437	86138	91988	56385	163095	78287	115751	119291
Riverview	Buffer	1	38422	183380	77005	180917	58966	58924	163087	75788	81638	46035	152745	67937	105401	108942
Canal System 2	Buffer	1	27569	172527	66153	170064	48113	48071	152235	64935	70785	35182	141893	57084	94548	98089
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	SIU	2	66369	211328	104953	208865	86914	86872	191035	103736	109585	73983	180693	95884	133349	136889
Lehi	SIU	2	61268	206226	99851	203763	81812	81770	185933	98634	104484	68881	175591	90783	128247	131787
Crismon	SIU	2	59813	204772	98397	202309	80358	80316	184479	97180	103029	67427	174137	89328	126793	130333
Scottsdale	SIU	2	57935	202893	96518	200430	78479	78437	182600	95301	101151	65548	172258	87450	124914	128454
Riverview	SIU	2	55270	200229	93854	197766	75815	75773	179936	92637	98486	62884	169594	84785	122250	125790
Canal System 2	SIU	2	48565	193523	87148	191060	69109	69067	173231	85931	91781	56178	162888	78080	115544	119085
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	Buffer	2	63194	208152	101777	205689	83738	83696	187860	100560	106410	70807	177517	92709	130173	133714
Lehi	Buffer	2	45310	190269	83894	187806	65855	65813	169976	82677	88526	52924	159634	74825	112290	115830
Crismon	Buffer	2	38443	183401	77026	180938	58987	58945	163109	75809	81659	46056	152766	67958	105422	108963
Scottsdale	Buffer	2	28825	173783	67409	171320	49369	49327	153491	66191	72041	36438	143149	58340	95804	99345
Riverview	Buffer	2	8033.8	152992	46617	150529	28578	28536	132700	45400	51250	15647	122357	37549	75013	78554
Canal System 2	Buffer	2	-11698	133260	26885	130797	8846.1	8804.2	112968	25668	31518	-4085	102625	17817	55281	58822

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1028 Plant 1	1029 Plant 1	1030 Plant 1	1031 Plant 1	1032 Plant 1	1033 Plant 1	1034 Plant 1	1035 Plant 1	1036 Plant 1	1037 Plant 1	1038 Plant 1	1039 Plant 1	1040 Plant 1	1041 Plant 1
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	SIU	1	109575	128888	136571	129364	143653	116755	103348	75848	86358	115019	115285	73273	99121	70278
Lehi	SIU	1	107024	126337	134020	126813	141102	114204	100797	73297	83807	112468	112734	70722	96570	67727
Crismon	SIU	1	106297	125610	133293	126086	140375	113477	100070	72570	83080	111741	112007	69995	95843	67000
Scottsdale	SIU	1	105358	124671	132354	125147	139435	112537	99130	71630	82141	110802	111068	69055	94904	66061
Riverview	SIU	1	104026	123339	131022	123815	138103	111205	97798	70298	80808	109470	109736	67723	93572	64728
Canal System 2	SIU	1	100673	119986	127669	120462	134750	107852	94445	66946	77456	106117	106383	64371	90219	61376
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	Buffer	1	108745	128058	135741	128534	142822	115924	102517	75017	85527	114189	114455	72442	98291	69447
Lehi	Buffer	1	99244	118557	126240	119033	133322	106424	93016	65517	76027	104688	104954	62942	88790	59947
Crismon	Buffer	1	95892	115205	122888	115681	129970	103072	89665	62165	72675	101336	101602	59590	85438	56595
Scottsdale	Buffer	1	91638	110951	118634	111426	125715	98817	85410	57910	68420	97082	97348	55335	81184	52340
Riverview	Buffer	1	81288	100601	108284	101076	115365	88467	75060	47560	58070	86732	86998	44985	70834	41990
Canal System 2	Buffer	1	70435	89748	97431	90224	104513	77615	64207	36708	47218	75879	76145	34133	59981	31138
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	SIU	2	109235	128548	136231	129024	143313	116415	103008	75508	86018	114679	114945	72933	98781	69938
Lehi	SIU	2	104134	123447	131130	123922	138211	111313	97906	70406	80916	109578	109844	67831	93680	64836
Crismon	SIU	2	102679	121992	129675	122468	136757	109859	96452	68952	79462	108123	108389	66377	92225	63382
Scottsdale	SIU	2	100801	120114	127797	120589	134878	107980	94573	67073	77583	106245	106511	64498	90347	61503
Riverview	SIU	2	98136	117449	125132	117925	132214	105316	91909	64409	74919	103580	103846	61834	87682	58839
Canal System 2	SIU	2	91431	110744	118427	111220	125508	98610	85203	57703	68213	96875	97141	55128	80977	52133
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	Buffer	2	106060	125373	133056	125849	140137	113239	99832	72332	82842	111504	111770	69757	95606	66762
Lehi	Buffer	2	88176	107489	115172	107965	122254	95356	81949	54449	64959	93620	93886	51874	77722	48879
Crismon	Buffer	2	81309	100622	108305	101098	115386	88488	75081	47581	58091	86753	87019	45006	70855	42011
Scottsdale	Buffer	2	71691	91004	98687	91480	105768	78870	65463	37964	48474	77135	77401	35389	61237	32394
Riverview	Buffer	2	50900	70213	77896	70689	84977	58079	44672	17172	27682	56344	56610	14597	40446	11602
Canal System 2	Buffer	2	31168	50481	58164	50957	65245	38347	24940	-2560	7950.5	36612	36878	-5135	20714	-8130

System	Acreage Method	Acre-feet	1042 Plant 1	1043 Plant 1	1044 Plant 1	1045 Plant 1	1046 Plant 1	1047 Plant 1	1048 Plant 1	1049 Plant 1	1050 Plant 1	1051 Plant 1	1052 Plant 1	1053 Plant 1	1054 Plant 1	1055 Plant 1
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	SIU	1	129308	140294	77275	170047	114376	182404	99485	134024	161006	119358	256815	122465	204838	109463
Lehi	SIU	1	126757	137743	74724	167496	111825	179853	96934	131473	158455	116807	254264	119914	202287	106913
Crismon	SIU	1	126030	137016	73997	166769	111098	179126	96207	130746	157728	116080	253537	119187	201560	106185
Scottsdale	SIU	1	125091	136077	73058	165830	110158	178187	95268	129807	156789	115140	252597	118247	200621	105246
Riverview	SIU	1	123759	134744	71726	164497	108826	176855	93936	128475	155457	113808	251265	116915	199289	103914
Canal System 2	SIU	1	120406	131392	68373	161145	105473	173502	90583	125122	152104	110455	247913	113562	195936	100561
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	Buffer	1	128478	139463	76445	169216	113545	181574	98655	133194	160176	118527	255984	121634	204008	108633
Lehi	Buffer	1	118977	129963	66944	159716	104044	172073	89154	123693	150675	109027	246484	112133	194507	99132
Crismon	Buffer	1	115625	126611	63592	156364	100693	168721	85802	120341	147323	105675	243132	108782	191155	95781
Scottsdale	Buffer	1	111370	122356	59338	152109	96438	164467	81547	116087	143069	101420	238877	104527	186900	91526
Riverview	Buffer	1	101020	112006	48988	141759	86088	154117	71198	105737	132719	91070	228527	94177	176550	81176
Canal System 2	Buffer	1	90168	101154	38135	130907	75235	143264	60345	94884	121866	80218	217675	83324	165698	70323
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	SIU	2	128968	139954	76935	169707	114036	182064	99145	133684	160666	119018	256475	122125	204498	109124
Lehi	SIU	2	123866	134852	71834	164605	108934	176963	94043	128583	155565	113916	251373	117023	199396	104022
Crismon	SIU	2	122412	133398	70379	163151	107480	175508	92589	127128	154110	112462	249919	115569	197942	102568
Scottsdale	SIU	2	120533	131519	68501	161272	105601	173630	90710	125250	152232	110583	248040	113690	196063	100689
Riverview	SIU	2	117869	128855	65836	158608	102937	170965	88046	122585	149567	107919	245376	111026	193399	98025
Canal System 2	SIU	2	111164	122149	59131	151902	96231	164260	81341	115880	142862	101213	238670	104320	186694	91319
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	Buffer	2	125793	136778	73760	166531	110860	178889	95970	130509	157491	115842	253299	118949	201323	105948
Lehi	Buffer	2	107909	118895	55876	148648	92977	161005	78086	112625	139607	97959	235416	101066	183439	88065
Crismon	Buffer	2	101042	112027	49009	141780	86109	154138	71219	105758	132740	91091	228548	94198	176572	81197
Scottsdale	Buffer	2	91424	102410	39391	132163	76491	144520	61601	96140	123122	81473	218931	84580	166954	71579
Riverview	Buffer	2	70633	81618	18600	111371	55700	123729	40810	75349	102331	60682	198139	63789	146163	50788
Canal System 2	Buffer	2	50901	61886	-1132	91639	35968	103997	21078	55617	82599	40950	178407	44057	126431	31056

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1056 Plant 1	1057 Plant 1	1058 Plant 1	1059 Plant 1	1060 Plant 1	1061 Plant 1	1062 Plant 1	1063 Plant 1	1064 Plant 1	1065 Plant 1	1066 Plant 1	1067 Plant 1	1068 Plant 1	1069 Plant 1
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	SIU	1	164645	147473	115565	103432	167640	155674	85168	167780	125445	144730	151742	43114	110569	100689
Lehi	SIU	1	162094	144922	113014	100881	165089	153123	82618	165229	122895	142179	149191	40563	108018	98138
Crismon	SIU	1	161367	144195	112287	100154	164362	152396	81890	164502	122167	141452	148464	39836	107291	97411
Scottsdale	SIU	1	160428	143256	111348	99214	163422	151457	80951	163562	121228	140513	147524	38897	106352	96471
Riverview	SIU	1	159095	141924	110016	97882	162090	150125	79619	162230	119896	139181	146192	37565	105020	95139
Canal System 2	SIU	1	155743	138571	106663	94529	158738	146772	76266	158878	116543	135828	142839	34212	101667	91786
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	Buffer	1	163814	146643	114735	102601	166809	154844	84338	166949	124615	143900	150911	42284	109739	99858
Lehi	Buffer	1	154314	137142	105234	93100	157309	145343	74837	157449	115114	134399	141411	32783	100238	90357
Crismon	Buffer	1	150962	133790	101882	89749	153957	141991	71486	154097	111763	131047	138059	29431	96886	87006
Scottsdale	Buffer	1	146707	129536	97627	85494	149702	137737	67231	149842	107508	126793	133804	25176	92631	82751
Riverview	Buffer	1	136357	119186	87278	75144	139352	127387	56881	139492	97158	116443	123454	14826	82281	72401
Canal System 2	Buffer	1	125505	108333	76425	64291	128500	116534	46028	128640	86305	105590	112602	3973.8	71429	61548
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	SIU	2	164305	147133	115225	103092	167300	155334	84829	167440	125106	144390	151402	42774	110229	100349
Lehi	SIU	2	159203	142032	110123	97990	162198	150233	79727	162338	120004	139289	146300	37672	105127	95247
Crismon	SIU	2	157749	140577	108669	96536	160744	148778	78273	160884	118550	137834	144846	36218	103673	93793
Scottsdale	SIU	2	155870	138699	106790	94657	158865	146900	76394	159005	116671	135956	142967	34339	101794	91914
Riverview	SIU	2	153206	136034	104126	91993	156201	144235	73730	156341	114007	133291	140303	31675	99130	89250
Canal System 2	SIU	2	146500	129329	97421	85287	149495	137530	67024	149635	107301	126586	133597	24970	92425	82544
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	Buffer	2	161129	143958	112050	99916	164124	152159	81653	164264	121930	141215	148226	39599	107054	97173
Lehi	Buffer	2	143246	126074	94166	82033	146241	134275	63770	146381	104047	123331	130343	21715	89170	79290
Crismon	Buffer	2	136378	119207	87299	75165	139373	127408	56902	139513	97179	116464	123475	14848	82303	72422
Scottsdale	Buffer	2	126761	109589	77681	65547	129756	117790	47284	129896	87561	106846	113857	5229.7	72685	62804
Riverview	Buffer	2	105969	88798	56890	44756	108964	96999	26493	109104	66770	86055	93066	-15561	51894	42013
Canal System 2	Buffer	2	86237	69066	37158	25024	89232	77267	6760.9	89372	47038	66323	73334	-35293	32162	22281

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1070 Plant 1	1071 Plant 1	1072 Plant 1	1073 Plant 1	1074 Plant 1	1075 Plant 1	1076 Plant 1	1077 Plant 1	1078 Plant 1	1079 Plant 1	1080 Plant 1	1081 Plant 1	1082 Plant 1	1083 Plant 1
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	SIU	1	106874	143737	122213	95147	117986	121569	169851	163693	127433	226138	187820	84861	217307	133814
Lehi	SIU	1	104323	141186	119662	92596	115435	119018	167300	161142	124882	223587	185269	82310	214757	131263
Crismon	SIU	1	103596	140459	118935	91869	114708	118291	166573	160415	124155	222860	184542	81583	214029	130536
Scottsdale	SIU	1	102657	139519	117995	90929	113769	117352	165634	159476	123215	221921	183603	80643	213090	129597
Riverview	SIU	1	101325	138187	116663	89597	112437	116019	164302	158144	121883	220589	182271	79311	211758	128265
Canal System 2	SIU	1	97972	134834	113310	86244	109084	112667	160949	154791	118530	217236	178918	75958	208405	124912
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	Buffer	1	106044	142906	121382	94316	117156	120738	169021	162863	126602	225308	186990	84030	216477	132984
Lehi	Buffer	1	96543	133406	111881	84816	107655	111238	159520	153362	117102	215807	177489	74529	206976	123483
Crismon	Buffer	1	93191	130054	108530	81464	104303	107886	156168	150010	113750	212455	174137	71178	203625	120131
Scottsdale	Buffer	1	88937	125799	104275	77209	100049	103631	151913	145756	109495	208200	169883	66923	199370	115877
Riverview	Buffer	1	78587	115449	93925	66859	89699	93281	141563	135406	99145	197851	159533	56573	189020	105527
Canal System 2	Buffer	1	67734	104597	83072	56007	78846	82429	130711	124553	88293	186998	148680	45720	178167	94674
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	SIU	2	106534	143397	121873	94807	117646	121229	169511	163353	127093	225798	187480	84521	216968	133474
Lehi	SIU	2	101433	138295	116771	89705	112545	116127	164409	158252	121991	220696	182379	79419	211866	128373
Crismon	SIU	2	99978	136841	115317	88251	111090	114673	162955	156797	120537	219242	180924	77965	210412	126918
Scottsdale	SIU	2	98100	134962	113438	86372	109212	112794	161076	154919	118658	217363	179046	76086	208533	125040
Riverview	SIU	2	95435	132298	110774	83708	106547	110130	158412	152254	115994	214699	176381	73422	205869	122375
Canal System 2	SIU	2	88730	125592	104068	77002	99842	103424	151707	145549	109288	207994	169676	66716	199163	115670
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	Buffer	2	103359	140221	118697	91631	114471	118053	166336	160178	123917	222623	184305	81345	213792	130299
Lehi	Buffer	2	85475	122338	100814	73748	96587	100170	148452	142294	106034	204739	166421	63462	195909	112415
Crismon	Buffer	2	78608	115470	93946	66880	89720	93302	141585	135427	99166	197872	159554	56594	189041	105548
Scottsdale	Buffer	2	68990	105852	84328	57262	80102	83685	131967	125809	89548	188254	149936	46976	179423	95930
Riverview	Buffer	2	48199	85061	63537	36471	59311	62893	111176	105018	68757	167463	129145	26185	158632	75139
Canal System 2	Buffer	2	28467	65329	43805	16739	39579	43161	91444	85286	49025	147731	109413	6453	138900	55407

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1084 Plant 1	1085 Plant 1	1086 Plant 1	1087 Plant 1	1088 Plant 1	1089 Plant 1	1090 Plant 1	1091 Plant 1	1092 Plant 1	1093 Plant 1	1094 Plant 1	1095 Plant 1	1096 Plant 1	1097 Plant 1
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	SIU	1	150538	83251	71943	267591	92460	219267	73567	79529	161510	109072	82649	146284	143135	82761
Lehi	SIU	1	147987	80700	69392	265040	89909	216716	71016	76978	158959	106521	80098	143733	140584	80210
Crismon	SIU	1	147260	79973	68665	264313	89182	215989	70289	76251	158232	105794	79371	143006	139857	79483
Scottsdale	SIU	1	146321	79034	67726	263373	88242	215049	69349	75311	157293	104854	78432	142066	138918	78544
Riverview	SIU	1	144989	77702	66394	262041	86910	213717	68017	73979	155961	103522	77100	140734	137585	77212
Canal System 2	SIU	1	141636	74349	63041	258689	83557	210364	64664	70626	152608	100169	73747	137381	134233	73859
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	Buffer	1	149708	82421	71113	266760	91629	218436	72736	78698	160680	108241	81819	145453	142304	81931
Lehi	Buffer	1	140207	72920	61612	257260	82129	208936	63236	69197	151179	98740	72318	135953	132804	72430
Crismon	Buffer	1	136855	69568	58260	253908	78777	205584	59884	65846	147827	95389	68966	132601	129452	69078
Scottsdale	Buffer	1	132600	65313	54006	249653	74522	201329	55629	61591	143572	91134	64712	128346	125197	64824
Riverview	Buffer	1	122251	54964	43656	239303	64172	190979	45279	51241	133223	80784	54362	117996	114847	54474
Canal System 2	Buffer	1	111398	44111	32803	228451	53320	180127	34427	40388	122370	69931	43509	107144	103995	43621
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	SIU	2	150198	82911	71603	267251	92120	218927	73227	79189	161170	108732	82309	145944	142795	82421
Lehi	SIU	2	145096	77809	66502	262149	87018	213825	68125	74087	156068	103630	77208	140842	137693	77320
Crismon	SIU	2	143642	76355	65047	260695	85564	212371	66671	72633	154614	102176	75753	139388	136239	75865
Scottsdale	SIU	2	141763	74476	63169	258816	83685	210492	64792	70754	152735	100297	73875	137509	134360	73987
Riverview	SIU	2	139099	71812	60504	256152	81021	207828	62128	68090	150071	97633	71210	134845	131696	71322
Canal System 2	SIU	2	132394	65107	53799	249446	74315	201122	55422	61384	143366	90927	64505	128139	124990	64617
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	Buffer	2	147023	79736	68428	264075	88944	215751	70051	76013	157995	105556	79134	142768	139619	79246
Lehi	Buffer	2	129139	61852	50544	246192	71061	197868	52168	58130	140111	87673	61250	124885	121736	61362
Crismon	Buffer	2	122272	54985	43677	239324	64193	191000	45300	51262	133244	80805	54383	118017	114868	54495
Scottsdale	Buffer	2	112654	45367	34059	229707	54575	181382	35682	41644	123626	71187	44765	108399	105251	44877
Riverview	Buffer	2	91863	24576	13268	208915	33784	160591	14891	20853	102835	50396	23974	87608	84459	24086
Canal System 2	Buffer	2	72131	4843.6	-6464	189183	14052	140859	-4841	1121	83103	30664	4241.9	67876	64727	4353.8

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1098 Plant 1	1099 Plant 1	Total Deficits	1000 Silk 1	1001 Silk 1	1002 Silk 1	1003 Silk 1	1004 Silk 1	1005 Silk 1	1006 Silk 1	1007 Silk 1	1008 Silk 1	1009 Silk 1
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	SIU	1	95944	75456	0	149976	83993	149219	132313	192450	56139	223528	169124	126033	87820
Lehi	SIU	1	93394	72905	0	147425	81442	146668	129762	189900	53588	220978	166573	123482	85269
Crismon	SIU	1	92666	72178	0	146698	80715	145941	129035	189172	52861	220250	165846	122755	84542
Scottsdale	SIU	1	91727	71239	0	145758	79775	145001	128096	188233	51921	219311	164907	121815	83602
Riverview	SIU	1	90395	69907	0	144426	78443	143669	126763	186901	50589	217979	163575	120483	82270
Canal System 2	SIU	1	87042	66554	0	141073	75090	140316	123411	183548	47237	214626	160222	117131	78917
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	Buffer	1	95114	74626	0	149145	83162	148388	131482	191620	55308	222698	168294	125202	86989
Lehi	Buffer	1	85613	65125	0	139645	73662	138888	121982	182119	45808	213197	158793	115702	77488
Crismon	Buffer	1	82262	61773	0	136293	70310	135536	118630	178768	42456	209846	155441	112350	74137
Scottsdale	Buffer	1	78007	57518	0	132038	66055	131281	114375	174513	38201	205591	151187	108095	69882
Riverview	Buffer	1	67657	47168	0	121688	55705	120931	104025	164163	27851	195241	140837	97745	59532
Canal System 2	Buffer	1	56804	36316	0	110836	44853	110079	93173	153310	16999	184388	129984	86893	48679
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	SIU	2	95605	75116	0	149636	83653	148879	131973	192111	55799	223189	168784	125693	87480
Lehi	SIU	2	90503	70014	0	144534	78551	143777	126871	187009	50697	218087	163683	120591	82378
Crismon	SIU	2	89049	68560	0	143080	77097	142323	125417	185555	49243	216633	162228	119137	80924
Scottsdale	SIU	2	87170	66681	0	141201	75218	140444	123538	183676	47364	214754	160350	117258	79045
Riverview	SIU	2	84506	64017	0	138537	72554	137780	120874	181012	44700	212090	157685	114594	76381
Canal System 2	SIU	2	77800	57312	0	131831	65848	131074	114168	174306	37994	205384	150980	107888	69675
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	Buffer	2	92429	56795	0	147975	81992	147218	130312	190450	54138	221528	167123	124032	85819
Lehi	Buffer	2	74546	50091	0	128973	62990	128216	111311	171448	35137	202526	148122	105031	66817
Crismon	Buffer	2	67678	41582	0	122270	56287	121513	104607	164745	28433	195823	141419	98327	60114
Scottsdale	Buffer	2	58060	20882	0	113760	47777	113003	96098	156235	19924	187313	132909	89818	51604
Riverview	Buffer	2	37269	-823.5	3	93061	27078	92304	75398	135535	-776.3	166613	112209	69118	30905
Canal System 2	Buffer	2	17537	-20555	11	71355	5372.4	70598	53693	113830	-22481	144908	90504	47413	9199.4

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1010 Silk 1	1011 Silk 1	1012 Silk 1	1013 Silk 1	1014 Silk 1	1015 Silk 1	1016 Silk 1	1017 Silk 1	1018 Silk 1	1019 Silk 1	1020 Silk 1	1021 Silk 1	1022 Silk 1	1023 Silk 1
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	SIU	1	190376	173484	128949	110431	66821	212020	105468	209552	87399	87357	191693	104249	110108	74446
Lehi	SIU	1	187825	170933	126398	107880	64270	209469	102917	207002	84848	84806	189143	101698	107557	71896
Crismon	SIU	1	187098	170206	125671	107153	63543	208742	102190	206274	84121	84079	188415	100971	106830	71168
Scottsdale	SIU	1	186158	169267	124731	106213	62603	207802	101251	205335	83182	83140	187476	100031	105891	70229
Riverview	SIU	1	184826	167934	123399	104881	61271	206470	99919	204003	81850	81808	186144	98699	104559	68897
Canal System 2	SIU	1	181473	164582	120046	101528	57918	203117	96566	200650	78497	78455	182791	95347	101206	65544
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	Buffer	1	189545	172653	128118	109600	65990	211189	104638	208722	86569	86527	190863	103418	109278	73616
Lehi	Buffer	1	180045	163153	118617	100100	56489	201688	95137	199221	77068	77026	181362	93918	99777	64115
Crismon	Buffer	1	176693	159801	115266	96748	53138	198337	91785	195870	73716	73674	178011	90566	96425	60764
Scottsdale	Buffer	1	172438	155546	111011	92493	48883	194082	87531	191615	69461	69419	173756	86311	92171	56509
Riverview	Buffer	1	162088	145196	100661	82143	38533	183732	77181	181265	59112	59069	163406	75961	81821	46159
Canal System 2	Buffer	1	151236	134344	89808	71291	27680	172879	66328	170412	48259	48217	152553	65109	70968	35306
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	SIU	2	190036	173144	128609	110091	66481	211680	105128	209213	87059	87017	191354	103909	109768	74107
Lehi	SIU	2	184934	168042	123507	104989	61379	206578	100027	204111	81957	81915	186252	98807	104667	69005
Crismon	SIU	2	183480	166588	122053	103535	59925	205124	98572	202657	80503	80461	184798	97353	103212	67551
Scottsdale	SIU	2	181601	164709	120174	101656	58046	203245	96694	200778	78624	78582	182919	95474	101334	65672
Riverview	SIU	2	178937	162045	117510	98992	55382	200581	94029	198114	75960	75918	180255	92810	98669	63008
Canal System 2	SIU	2	172231	155339	110804	92286	48676	193875	87324	191408	69255	69213	173549	86104	91964	56302
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	Buffer	2	188375	171483	126948	108430	64820	210019	103467	207552	85398	85356	189693	102248	108107	72446
Lehi	Buffer	2	169373	152482	107946	89428	45818	191017	84466	188550	66397	66355	170691	83247	89106	53444
Crismon	Buffer	2	162670	145778	101243	82725	39115	184314	77763	181847	59693	59651	163988	76543	82403	46741
Scottsdale	Buffer	2	154160	137269	92733	74215	30605	175804	69253	173337	51184	51142	155478	68034	73893	38231
Riverview	Buffer	2	133461	116569	72034	53516	9905.5	155105	48553	152637	30484	30442	134778	47334	53193	17531
Canal System 2	Buffer	2	111755	94864	50328	31810	-11800	133399	26848	130932	8778.8	8736.8	113073	25629	31488	-4174

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1024 Silk 1	1025 Silk 1	1026 Silk 1	1027 Silk 1	1028 Silk 1	1029 Silk 1	1030 Silk 1	1031 Silk 1	1032 Silk 1	1033 Silk 1	1034 Silk 1	1035 Silk 1	1036 Silk 1	1037 Silk 1
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	SIU	1	181334	96385	133911	137458	109758	129103	136799	129579	143892	116949	103520	75974	86502	115211
Lehi	SIU	1	178783	93834	131360	134907	107207	126552	134248	127029	141341	114398	100969	73423	83951	112660
Crismon	SIU	1	178056	93107	130633	134180	106480	125825	133521	126301	140614	113671	100242	72696	83224	111933
Scottsdale	SIU	1	177117	92167	129694	133240	105541	124885	132581	125362	139674	112732	99302	71757	82285	110994
Riverview	SIU	1	175785	90835	128362	131908	104208	123553	131249	124030	138342	111400	97970	70425	80952	109661
Canal System 2	SIU	1	172432	87482	125009	128555	100856	120201	127896	120677	134990	108047	94618	67072	77600	106309
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	Buffer	1	180504	95554	133081	136627	108927	128272	135968	128749	143061	116119	102689	75144	85671	114380
Lehi	Buffer	1	171003	86053	123580	127126	99427	118772	126468	119248	133561	106618	93189	65643	76171	104880
Crismon	Buffer	1	167651	82702	120228	123775	96075	115420	123116	115897	130209	103266	89837	62291	72819	101528
Scottsdale	Buffer	1	163396	78447	115973	119520	91820	111165	118861	111642	125954	99011	85582	58037	68564	97273
Riverview	Buffer	1	153047	68097	105623	109170	81470	100815	108511	101292	115604	88662	75232	47687	58214	86923
Canal System 2	Buffer	1	142194	57244	94771	98317	70618	89963	97659	90439	104752	77809	64380	36834	47362	76071
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	SIU	2	180994	96045	133571	137118	109418	128763	136459	129240	143552	116609	103180	75634	86162	114871
Lehi	SIU	2	175892	90943	128469	132016	104316	123661	131357	124138	138450	111507	98078	70533	81060	109769
Crismon	SIU	2	174438	89489	127015	130562	102862	122207	129903	122684	136996	110053	96624	69078	79606	108315
Scottsdale	SIU	2	172559	87610	125136	128683	100983	120328	128024	120805	135117	108174	94745	67200	77727	106436
Riverview	SIU	2	169895	84946	122472	126019	98319	117664	125360	118141	132453	105510	92081	64535	75063	103772
Canal System 2	SIU	2	163190	78240	115767	119313	91613	110958	118654	111435	125747	98805	85375	57830	68357	97066
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	Buffer	2	179333	94384	131910	135457	107757	127102	134798	127579	141891	114948	101519	73973	84501	113210
Lehi	Buffer	2	160332	75382	112909	116455	88756	108101	115796	108577	122890	95947	82518	54972	65500	94209
Crismon	Buffer	2	153628	68679	106205	109752	82052	101397	109093	101874	116186	89243	75814	48269	58796	87505
Scottsdale	Buffer	2	145119	60169	97696	101242	73543	92888	100583	93364	107677	80734	67305	39759	50287	78996
Riverview	Buffer	2	124419	39470	76996	80542	52843	72188	79884	72664	86977	60034	46605	19059	29587	58296
Canal System 2	Buffer	2	102714	17764	55291	58837	31138	50483	58178	50959	65272	38329	24900	-2646	7881.7	36591

System	Acreage Method	Acre-feet	1038 Silk 1	1039 Silk 1	1040 Silk 1	1041 Silk 1	1042 Silk 1	1043 Silk 1	1044 Silk 1	1045 Silk 1	1046 Silk 1	1047 Silk 1	1048 Silk 1	1049 Silk 1	1050 Silk 1	1051 Silk 1
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	SIU	1	115477	73395	99286	70395	129523	140528	77404	170330	114566	182708	99651	134247	161274	119557
Lehi	SIU	1	112926	70844	96736	67844	126972	137977	74853	167779	112015	180157	97100	131697	158723	117006
Crismon	SIU	1	112199	70117	96008	67117	126245	137250	74126	167052	111288	179430	96373	130969	157996	116279
Scottsdale	SIU	1	111260	69178	95069	66178	125306	136310	73187	166113	110349	178490	95433	130030	157057	115339
Riverview	SIU	1	109928	67846	93737	64846	123974	134978	71855	164780	109017	177158	94101	128698	155725	114007
Canal System 2	SIU	1	106575	64493	90384	61493	120621	131625	68502	161428	105664	173806	90749	125345	152372	110654
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	Buffer	1	114647	72565	98456	69565	128693	139697	76574	169499	113736	181877	98820	133417	160444	118726
Lehi	Buffer	1	105146	63064	88955	60064	119192	130196	67073	159999	104235	172377	89320	123916	150943	109225
Crismon	Buffer	1	101794	59712	85604	56712	115840	126845	63721	156647	100883	169025	85968	120565	147591	105874
Scottsdale	Buffer	1	97540	55457	81349	52458	111586	122590	59467	152392	96628	164770	81713	116310	143337	101619
Riverview	Buffer	1	87190	45107	70999	42108	101236	112240	49117	142042	86279	154420	71363	105960	132987	91269
Canal System 2	Buffer	1	76337	34255	60146	31255	90383	101387	38264	131190	75426	143568	60511	95107	122134	80416
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	SIU	2	115137	73055	98947	70055	129183	140188	77064	169990	114226	182368	99311	133908	160934	119217
Lehi	SIU	2	110036	67953	93845	64954	124082	135086	71963	164888	109124	177266	94209	128806	155833	114115
Crismon	SIU	2	108581	66499	92391	63499	122627	133632	70508	163434	107670	175812	92755	127352	154378	112661
Scottsdale	SIU	2	106703	64620	90512	61621	120749	131753	68630	161555	105791	173933	90876	125473	152500	110782
Riverview	SIU	2	104038	61956	87848	58956	118084	129089	65965	158891	103127	171269	88212	122809	149835	108118
Canal System 2	SIU	2	97333	55251	81142	52251	111379	122383	59260	152185	96422	164563	81506	116103	143130	101412
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	Buffer	2	113476	71394	97286	68394	127522	138527	75403	168329	112565	180707	97650	132247	159273	117556
Lehi	Buffer	2	94475	52393	78284	49393	108521	119525	56402	149328	93564	161706	78649	113245	140272	98554
Crismon	Buffer	2	87772	45689	71581	42690	101818	112822	49699	142624	86860	155002	71945	106542	133569	91851
Scottsdale	Buffer	2	79262	37180	63071	34180	93308	104312	41189	134115	78351	146493	63436	98032	125059	83341
Riverview	Buffer	2	58562	16480	42371	13480	72608	83612	20489	113415	57651	125793	42736	77332	104359	62641
Canal System 2	Buffer	2	36857	-5225	20666	-8225	50903	61907	-1216	91710	35946	104088	21031	55627	82654	40936

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1052 Silk 1	1053 Silk 1	1054 Silk 1	1055 Silk 1	1056 Silk 1	1057 Silk 1	1058 Silk 1	1059 Silk 1	1060 Silk 1	1061 Silk 1	1062 Silk 1	1063 Silk 1	1064 Silk 1	1065 Silk 1
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	SIU	1	257242	122669	205179	109646	164919	147719	115758	103604	167919	155933	85310	168059	125654	144971
Lehi	SIU	1	254691	120118	202628	107095	162368	145168	113207	101053	165368	153382	82760	165508	123103	142420
Crismon	SIU	1	253964	119391	201901	106368	161641	144441	112480	100326	164641	152655	82032	164781	122376	141693
Scottsdale	SIU	1	253024	118451	200961	105428	160702	143501	111540	99387	163701	151716	81093	163842	121437	140754
Riverview	SIU	1	251692	117119	199629	104096	159369	142169	110208	98054	162369	150384	79761	162510	120105	139422
Canal System 2	SIU	1	248340	113766	196277	100743	156017	138817	106855	94702	159017	147031	76408	159157	116752	136069
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	Buffer	1	256411	121838	204348	108815	164088	146888	114927	102773	167088	155103	84480	167229	124824	144141
Lehi	Buffer	1	246911	112337	194848	99315	154588	137388	105426	93273	157588	145602	74979	157728	115323	134640
Crismon	Buffer	1	243559	108986	191496	95963	151236	134036	102075	89921	154236	142250	71628	154376	111971	131288
Scottsdale	Buffer	1	239304	104731	187241	91708	146981	129781	97820	85666	149981	137996	67373	150121	107717	127034
Riverview	Buffer	1	228954	94381	176891	81358	136631	119431	87470	75316	139631	127646	57023	139771	97367	116684
Canal System 2	Buffer	1	218102	83528	166039	70506	125779	108579	76617	64464	128779	116793	46170	128919	86514	105831
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	SIU	2	256902	122329	204839	109306	164579	147379	115418	103264	167579	155593	84971	167719	125314	144631
Lehi	SIU	2	251800	117227	199737	104204	159477	142277	110316	98162	162477	150492	79869	162617	120213	139530
Crismon	SIU	2	250346	115773	198283	102750	158023	140823	108862	96708	161023	149037	78415	161163	118758	138075
Scottsdale	SIU	2	248467	113894	196404	100871	156144	138944	106983	94829	159144	147159	76536	159284	116880	136197
Riverview	SIU	2	245803	111230	193740	98207	153480	136280	104319	92165	156480	144494	73872	156620	114215	133532
Canal System 2	SIU	2	239097	104524	187034	91501	146774	129574	97613	85459	149774	137789	67166	149915	107510	126827
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	Buffer	2	255241	120668	203178	107645	162918	145718	113757	101603	165918	153932	83310	166058	123653	142970
Lehi	Buffer	2	236240	101666	184177	88643	143917	126717	94755	82602	146917	134931	64308	147057	104652	123969
Crismon	Buffer	2	229536	94963	177473	81940	137213	120013	88052	75898	140213	128228	57605	140353	97949	117266
Scottsdale	Buffer	2	221027	86453	168964	73430	128704	111504	79542	67389	131704	119718	49095	131844	89439	108756
Riverview	Buffer	2	200327	65753	148264	52731	108004	90804	58843	46689	111004	99018	28395	111144	68739	88056
Canal System 2	Buffer	2	178622	44048	126559	31025	86299	69099	37137	24984	89299	77313	6690.1	89439	47034	66351

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1066 Silk 1	1067 Silk 1	1068 Silk 1	1069 Silk 1	1070 Silk 1	1071 Silk 1	1072 Silk 1	1073 Silk 1	1074 Silk 1	1075 Silk 1	1076 Silk 1	1077 Silk 1	1078 Silk 1	1079 Silk 1
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	SIU	1	151994	43186	110753	100856	107052	143976	122416	95305	118183	121771	170134	163966	127645	226514
Lehi	SIU	1	149443	40635	108202	98306	104502	141425	119865	92754	115632	119220	167583	161415	125094	223963
Crismon	SIU	1	148716	39908	107475	97578	103774	140698	119138	92027	114905	118493	166856	160688	124367	223236
Scottsdale	SIU	1	147777	38969	106536	96639	102835	139759	118199	91088	113965	117554	165916	159748	123428	222297
Riverview	SIU	1	146445	37637	105204	95307	101503	138426	116867	89756	112633	116222	164584	158416	122095	220965
Canal System 2	SIU	1	143092	34284	101851	91954	98150	135074	113514	86403	109280	112869	161231	155063	118743	217612
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	Buffer	1	151164	42356	109923	100026	106222	143145	121586	94475	117352	120941	169303	163135	126814	225684
Lehi	Buffer	1	141663	32855	100422	90525	96721	133645	112085	84974	107852	111440	159802	153635	117314	216183
Crismon	Buffer	1	138311	29503	97070	87174	93370	130293	108733	81622	104500	108088	156451	150283	113962	212831
Scottsdale	Buffer	1	134057	25248	92815	82919	89115	126038	104479	77368	100245	103834	152196	146028	109707	208577
Riverview	Buffer	1	123707	14899	82466	72569	78765	115688	94129	67018	89895	93484	141846	135678	99357	198227
Canal System 2	Buffer	1	112854	4046	71613	61716	67912	104836	83276	56165	79043	82631	130993	124826	88505	187374
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	SIU	2	151654	42846	110413	100517	106713	143636	122076	94965	117843	121431	169794	163626	127305	226174
Lehi	SIU	2	146553	37744	105311	95415	101611	138534	116975	89864	112741	116330	164692	158524	122203	221073
Crismon	SIU	2	145098	36290	103857	93961	100157	137080	115520	88409	111287	114875	163238	157070	120749	219618
Scottsdale	SIU	2	143220	34411	101978	92082	98278	135201	113642	86531	109408	112997	161359	155191	118870	217740
Riverview	SIU	2	140555	31747	99314	89418	95614	132537	110977	83866	106744	110332	158695	152527	116206	215075
Canal System 2	SIU	2	133850	25042	92609	82712	88908	125831	104272	77161	100038	103627	151989	145821	109500	208370
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	Buffer	2	149993	41185	108752	98856	105052	141975	120415	93304	116182	119770	168133	161965	125644	224513
Lehi	Buffer	2	130992	22184	89751	79854	86050	122974	101414	74303	97180	100769	149131	142963	106643	205512
Crismon	Buffer	2	124289	15480	83047	73151	79347	116270	94711	67600	90477	94066	142428	136260	99939	198809
Scottsdale	Buffer	2	115779	6970.9	74538	64641	70837	107761	86201	59090	81967	85556	133918	127750	91430	190299
Riverview	Buffer	2	95079	-13729	53838	43941	50137	87061	65501	38390	61268	64856	113219	107051	70730	169599
Canal System 2	Buffer	2	73374	-35434	32133	22236	28432	65356	43796	16685	39562	43151	91513	85345	49025	147894

System	Acreage Method	Acre-feet	1080 Silk 1	1081 Silk 1	1082 Silk 1	1083 Silk 1	1084 Silk 1	1085 Silk 1	1086 Silk 1	1087 Silk 1	1088 Silk 1	1089 Silk 1	1090 Silk 1	1091 Silk 1	1092 Silk 1	1093 Silk 1
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	SIU	1	188133	85002	217669	134037	150789	83390	72063	268036	92614	219631	73689	79661	161779	109253
Lehi	SIU	1	185582	82451	215118	131486	148238	80839	69512	265485	90063	217081	71139	77110	159228	106702
Crismon	SIU	1	184855	81724	214391	130759	147511	80112	68785	264758	89336	216353	70411	76383	158501	105975
Scottsdale	SIU	1	183915	80785	213452	129820	146571	79173	67846	263818	88396	215414	69472	75444	157562	105036
Riverview	SIU	1	182583	79453	212119	128488	145239	77840	66514	262486	87064	214082	68140	74112	156229	103704
Canal System 2	SIU	1	179231	76100	208767	125135	141886	74488	63161	259133	83712	210729	64787	70759	152877	100351
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	Buffer	1	187302	84172	216838	133207	149958	82559	71233	267205	91783	218801	72859	78831	160948	108423
Lehi	Buffer	1	177802	74671	207338	123706	140458	73059	61732	257705	82283	209300	63358	69330	151448	98922
Crismon	Buffer	1	174450	71319	203986	120354	137106	69707	58380	254353	78931	205949	60007	65978	148096	95570
Scottsdale	Buffer	1	170195	67064	199731	116099	132851	65452	54126	250098	74676	201694	55752	61723	143841	91316
Riverview	Buffer	1	159845	56714	189381	105750	122501	55102	43776	239748	64326	191344	45402	51374	133491	80966
Canal System 2	Buffer	1	148993	45862	178529	94897	111649	44250	32923	228896	53474	180491	34549	40521	122639	70113
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	SIU	2	187793	84662	217329	133697	150449	83050	71723	267696	92274	219292	73350	79321	161439	108913
Lehi	SIU	2	182691	79560	212227	128595	145347	77948	66622	262594	87172	214190	68248	74219	156337	103812
Crismon	SIU	2	181237	78106	210773	127141	143893	76494	65167	261140	85718	212736	66794	72765	154883	102357
Scottsdale	SIU	2	179358	76227	208894	125262	142014	74615	63289	259261	83839	210857	64915	70886	153004	100479
Riverview	SIU	2	176694	73563	206230	122598	139350	71951	60624	256597	81175	208193	62251	68222	150340	97814
Canal System 2	SIU	2	169988	66858	199524	115893	132644	65245	53919	249891	74469	201487	55545	61517	143634	91109
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	Buffer	2	186132	83001	215668	132036	148788	81389	70062	266035	90613	217631	71689	77660	159778	107252
Lehi	Buffer	2	167131	64000	196667	113035	129786	62388	51061	247033	71612	198629	52687	58659	140777	88251
Crismon	Buffer	2	160427	57296	189963	106331	123083	55684	44358	240330	64908	191926	45984	51955	134073	81548
Scottsdale	Buffer	2	151918	48787	181454	97822	114573	47175	35848	231820	56399	183416	37474	43446	125564	73038
Riverview	Buffer	2	131218	28087	160754	77122	93874	26475	15148	211121	35699	162716	16774	22746	104864	52338
Canal System 2	Buffer	2	109513	6381.7	139049	55417	72168	4769.6	-6557	189415	13994	141011	-4931	1040.8	83159	30633

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1094 Silk 1	1095 Silk 1	1096 Silk 1	1097 Silk 1	1098 Silk 1	1099 Silk 1	Total Deficits	1000 Plant 2	1001 Plant 2	1002 Plant 2	1003 Plant 2	1004 Plant 2	1005 Plant 2
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	SIU	1	82787	146527	143373	82899	96104	75582	0	54951	30680	54672	48454	70574	20435
Lehi	SIU	1	80236	143976	140822	80348	93553	73031	0	52400	28129	52121	45903	68023	17884
Crismon	SIU	1	79509	143249	140095	79621	92826	72304	0	51673	27402	51394	45176	67296	17157
Scottsdale	SIU	1	78570	142310	139156	78682	91887	71364	0	50733	26463	50455	44236	66357	16217
Riverview	SIU	1	77238	140978	137824	77350	90555	70032	0	49401	25131	49123	42904	65025	14885
Canal System 2	SIU	1	73885	137625	134471	73997	87202	66680	0	46048	21778	45770	39551	61672	11532
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	Buffer	1	81957	145697	142543	82069	95274	74751	0	54120	29850	53842	47623	69744	19604
Lehi	Buffer	1	72456	136196	133042	72568	85773	65251	0	44619	20349	44341	38123	60243	10103
Crismon	Buffer	1	69104	132844	129690	69216	82421	61899	0	41268	16997	40989	34771	56891	6751.7
Scottsdale	Buffer	1	64849	128590	125436	64962	78167	57644	0	37013	12742	36734	30516	52636	2496.9
Riverview	Buffer	1	54500	118240	115086	54612	67817	47294	0	26663	2392.5	26385	20166	42286	-7853
Canal System 2	Buffer	1	43647	107387	104233	43759	56964	36442	0	15810	-8460	15532	9313.5	31434	-18706
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	SIU	2	82447	146187	143033	82559	95764	75242	0	54611	30340	54332	48114	70234	20095
Lehi	SIU	2	77345	141086	137932	77458	90663	70140	0	49509	25238	49230	43012	65132	14993
Crismon	SIU	2	75891	139631	136477	76003	89208	68686	0	48055	23784	47776	41558	63678	13539
Scottsdale	SIU	2	74012	137753	134599	74125	87330	66807	0	46176	21905	45897	39679	61799	11660
Riverview	SIU	2	71348	135088	131934	71460	84665	64143	0	43512	19241	43233	37015	59135	8995.7
Canal System 2	SIU	2	64643	128383	125229	64755	77960	57437	0	36806	12536	36528	30309	52430	2290.1
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	Buffer	2	80786	144526	141372	80898	94103	73581	0	52950	28679	52671	46453	68573	18434
Lehi	Buffer	2	61785	125525	122371	61897	75102	54580	0	33948	9677.8	33670	27451	49572	-567.7
Crismon	Buffer	2	55081	118822	115668	55194	68399	47876	0	27245	2974.4	26966	20748	42868	-7271
Scottsdale	Buffer	2	46572	110312	107158	46684	59889	39367	0	18735	-5535	18457	12238	34359	-15781
Riverview	Buffer	2	25872	89612	86458	25984	39189	18667	2	-1964	-26235	-2243	-8461	13659	-36480
Canal System 2	Buffer	2	4166.9	67907	64753	4279	17484	-3038	11	-23670	-47940	-23948	-30167	-8046	-58186

System	Acreage Method	Acre-feet	1006 Plant 2	1007 Plant 2	1008 Plant 2	1009 Plant 2	1010 Plant 2	1011 Plant 2	1012 Plant 2	1013 Plant 2	1014 Plant 2	1015 Plant 2	1016 Plant 2	1017 Plant 2	1018 Plant 2	1019 Plant 2
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273	32258
Coyote	SIU	1	82005	61994	46144	32088	69811	63598	47216	40405	24364	77772	38579	76865	31933	31918
Lehi	SIU	1	79455	59443	43593	29537	67260	61047	44665	37854	21813	75221	36029	74314	29382	29367
Crismon	SIU	1	78727	58716	42866	28810	66533	60320	43938	37127	21086	74494	35301	73587	28655	28640
Scottsdale	SIU	1	77788	57777	41926	27870	65594	59380	42999	36187	20146	73555	34362	72647	27716	27700
Riverview	SIU	1	76456	56445	40594	26538	64261	58048	41667	34855	18814	72223	33030	71315	26384	26368
Canal System 2	SIU	1	73103	53092	37241	23185	60909	54695	38314	31503	15461	68870	29677	67962	23031	23015
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273	32258
Coyote	Buffer	1	81175	61164	45313	31257	68980	62767	46386	39574	23533	76942	37749	76034	31103	31087
Lehi	Buffer	1	71674	51663	35813	21757	59480	53266	36885	30074	14033	67441	28248	66533	21602	21586
Crismon	Buffer	1	68323	48311	32461	18405	56128	49915	33533	26722	10681	64089	24897	63182	18250	18235
Scottsdale	Buffer	1	64068	44056	28206	14150	51873	45660	29279	22467	6426	59834	20642	58927	13995	13980
Riverview	Buffer	1	53718	33706	17856	3800.2	41523	35310	18929	12117	-3924	49485	10292	48577	3645.5	3630
Canal System 2	Buffer	1	42865	22854	7003.5	-7052	30671	24457	8076	1264.6	-14776	38632	-560.7	37724	-7207	-7223
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273	32258
Coyote	SIU	2	81666	61654	45804	31748	69471	63258	46876	40065	24024	77432	38240	76525	31593	31578
Lehi	SIU	2	76564	56552	40702	26646	64369	58156	41775	34963	18922	72330	33138	71423	26491	26476
Crismon	SIU	2	75110	55098	39248	25192	62915	56702	40320	33509	17468	70876	31684	69969	25037	25022
Scottsdale	SIU	2	73231	53219	37369	23313	61036	54823	38442	31630	15589	68997	29805	68090	23158	23143
Riverview	SIU	2	70567	50555	34705	20649	58372	52159	35777	28966	12925	66333	27141	65426	20494	20479
Canal System 2	SIU	2	63861	43850	27999	13943	51666	45453	29072	22260	6219.2	59628	20435	58720	13789	13773
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273	32258
Coyote	Buffer	2	80005	59993	44143	30087	67810	61597	45215	38404	22363	75771	36579	74864	29932	29917
Lehi	Buffer	2	61003	40992	25141	11085	48809	42595	26214	19403	3361.4	56770	17577	55862	10931	10915
Crismon	Buffer	2	54300	34288	18438	4382.1	42105	35892	19511	12699	-3342	50066	10874	49159	4227.4	4211.9
Scottsdale	Buffer	2	45790	25779	9928.4	-4128	33596	27382	11001	4189.5	-11852	41557	2364.2	40649	-4282	-4298
Riverview	Buffer	2	25090	5078.9	-10771	-24827	12896	6682.5	-9699	-16510	-32551	20857	-18336	19950	-24982	-24997
Canal System 2	Buffer	2	3385.2	-16626	-32477	-46533	-8809	-15023	-31404	-38215	-54257	-848.1	-40041	-1756	-46687	-46703

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1020 Plant 2	1021 Plant 2	1022 Plant 2	1023 Plant 2	1024 Plant 2	1025 Plant 2	1026 Plant 2	1027 Plant 2	1028 Plant 2	1029 Plant 2	1030 Plant 2	1031 Plant 2	1032 Plant 2	1033 Plant 2
Start (Sedentary)			70636	38471	40626	27509	66825	35578	49381	50686	40497	47613	50444	47788	53053	43142
Coyote	SIU	1	70296	38131	40286	27169	66485	35238	49042	50346	40157	47273	50104	47448	52713	42802
Lehi	SIU	1	67745	35580	37735	24618	63934	32687	46491	47795	37606	44722	47553	44897	50162	40252
Crismon	SIU	1	67018	34853	37008	23891	63207	31960	45764	47068	36879	43995	46826	44170	49435	39524
Scottsdale	SIU	1	66078	33914	36069	22951	62268	31021	44824	46129	35940	43056	45886	43231	48495	38585
Riverview	SIU	1	64746	32581	34737	21619	60936	29689	43492	44797	34608	41723	44554	41899	47163	37253
Canal System 2	SIU	1	61393	29229	31384	18266	57583	26336	40139	41444	31255	38371	41201	38546	43810	33900
Start (Sedentary)			70636	38471	40626	27509	66825	35578	49381	50686	40497	47613	50444	47788	53053	43142
Coyote	Buffer	1	69465	37300	39456	26338	65655	34408	48211	49516	39327	46442	49273	46618	51882	41972
Lehi	Buffer	1	59964	27800	29955	16838	56154	24907	38710	40015	29826	36942	39773	37117	42382	32471
Crismon	Buffer	1	56613	24448	26603	13486	52802	21555	35359	36663	26474	33590	36421	33765	39030	29120
Scottsdale	Buffer	1	52358	20193	22349	9231	48547	17301	31104	32408	22220	29335	32166	29511	34775	24865
Riverview	Buffer	1	42008	9843.3	11999	-1119	38198	6950.6	20754	22058	11870	18985	21816	19161	24425	14515
Canal System 2	Buffer	1	31155	-1009	1146	-11971	27345	-3902	9901.3	11206	1017.1	8132.7	10964	8308.1	13573	3662.3
Start (Sedentary)			70636	38471	40626	27509	66825	35578	49381	50686	40497	47613	50444	47788	53053	43142
Coyote	SIU	2	69956	37791	39946	26829	66145	34898	48702	50006	39817	46933	49764	47108	52373	42463
Lehi	SIU	2	64854	32689	34845	21727	61043	29797	43600	44904	34716	41831	44662	42007	47271	37361
Crismon	SIU	2	63400	31235	33390	20273	59589	28342	42146	43450	33261	40377	43208	40552	45817	35907
Scottsdale	SIU	2	61521	29356	31512	18394	57710	26464	40267	41571	31383	38498	41329	38674	43938	34028
Riverview	SIU	2	58857	26692	28847	15730	55046	23799	37603	38907	28718	35834	38665	36009	41274	31364
Canal System 2	SIU	2	52151	19986	22142	9024.2	48341	17094	30897	32202	22013	29128	31959	29304	34568	24658
Start (Sedentary)			70636	38471	40626	27509	66825	35578	49381	50686	40497	47613	50444	47788	53053	43142
Coyote	Buffer	2	68295	36130	38285	25168	64484	33237	47041	48345	38156	45272	48103	45447	50712	40802
Lehi	Buffer	2	49293	17129	19284	6166.4	45483	14236	28039	29344	19155	26271	29101	26446	31710	21800
Crismon	Buffer	2	42590	10425	12581	-537	38779	7532.5	21336	22640	12452	19567	22398	19743	25007	15097
Scottsdale	Buffer	2	34080	1915.6	4070.9	-9047	30270	-977.1	12826	14131	3942	11058	13888	11233	16497	6587.2
Riverview	Buffer	2	13381	-18784	-16629	-29746	9570	-21677	-7874	-6569	-16758	-9642	-6811	-9467	-4202	-14113
Canal System 2	Buffer	2	-8325	-40489	-38334	-51452	-12135	-43382	-29579	-28274	-38463	-31347	-28517	-31172	-25908	-35818

System	Acreage Method	Acre-feet	1034 Plant 2	1035 Plant 2	1036 Plant 2	1037 Plant 2	1038 Plant 2	1039 Plant 2	1040 Plant 2	1041 Plant 2	1042 Plant 2	1043 Plant 2	1044 Plant 2	1045 Plant 2	1046 Plant 2	1047 Plant 2
Start (Sedentary)			38203	28071	31943	42503	42601	27122	36645	26018	47768	51815	28597	62777	42266	67330
Coyote	SIU	1	37863	27731	31603	42163	42261	26782	36306	25679	47428	51475	28257	62437	41926	66990
Lehi	SIU	1	35312	25180	29052	39612	39710	24231	33755	23128	44877	48924	25706	59887	39375	64440
Crismon	SIU	1	34585	24453	28325	38885	38983	23504	33028	22401	44150	48197	24979	59159	38648	63712
Scottsdale	SIU	1	33645	23513	27386	37946	38044	22565	32088	21461	43210	47258	24039	58220	37709	62773
Riverview	SIU	1	32313	22181	26054	36614	36712	21232	30756	20129	41878	45926	22707	56888	36376	61441
Canal System 2	SIU	1	28960	18828	22701	33261	33359	17880	27403	16776	38525	42573	19354	53535	33024	58088
Start (Sedentary)			38203	28071	31943	42503	42601	27122	36645	26018	47768	51815	28597	62777	42266	67330
Coyote	Buffer	1	37032	26900	30773	41333	41431	25951	35475	24848	46597	50645	27426	61607	41095	66160
Lehi	Buffer	1	27532	17400	21272	31832	31930	16451	25974	15347	37096	41144	17925	52106	31595	56659
Crismon	Buffer	1	24180	14048	17920	28480	28578	13099	22623	11996	33745	37792	14574	48755	28243	53308
Scottsdale	Buffer	1	19925	9793	13665	24225	24323	8844.3	18368	7740.9	29490	33538	10319	44500	23988	49053
Riverview	Buffer	1	9575.2	-556.9	3315.5	13875	13973	-1506	8018	-2609	19140	23188	-30.92	34150	13638	38703
Canal System 2	Buffer	1	-1277	-11409	-7537	3022.9	3120.9	-12358	-2835	-13462	8287.4	12335	-10884	23297	2785.7	27850
Start (Sedentary)			38203	28071	31943	42503	42601	27122	36645	26018	47768	51815	28597	62777	42266	67330
Coyote	SIU	2	37523	27391	31263	41823	41921	26442	35966	25339	47088	51135	27917	62098	41586	66651
Lehi	SIU	2	32421	22289	26161	36721	36819	21340	30864	20237	41986	46034	22815	56996	36484	61549
Crismon	SIU	2	30967	20835	24707	35267	35365	19886	29410	18783	40532	44579	21361	55542	35030	60095
Scottsdale	SIU	2	29088	18956	22828	33388	33486	18007	27531	16904	38653	42701	19482	53663	33151	58216
Riverview	SIU	2	26424	16292	20164	30724	30822	15343	24867	14240	35989	40036	16818	50999	30487	55552
Canal System 2	SIU	2	19718	9586.2	13459	24019	24117	8637.5	18161	7534.1	29283	33331	10112	44293	23781	48846
Start (Sedentary)			38203	28071	31943	42503	42601	27122	36645	26018	47768	51815	28597	62777	42266	67330
Coyote	Buffer	2	35862	25730	29602	40162	40260	24781	34305	23678	45427	49474	26256	60437	39925	64990
Lehi	Buffer	2	16860	6728.4	10601	21161	21259	5779.7	15303	4676.3	26425	30473	7254.4	41435	20924	45988
Crismon	Buffer	2	10157	25.042	3897.4	14457	14555	-923.7	8599.9	-2027	19722	23770	550.98	34732	14220	39285
Scottsdale	Buffer	2	1647.5	-8485	-4612	5947.8	6045.8	-9433	90.292	-10537	11212	15260	-7959	26222	5710.6	30775
Riverview	Buffer	2	-19052	-29184	-25312	-14752	-14654	-30133	-20610	-31237	-9487	-5440	-28658	5522.4	-14989	10075
Canal System 2	Buffer	2	-40758	-50890	-47017	-36457	-36359	-51838	-42315	-52942	-31193	-27145	-50364	-16183	-36694	-11630

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1048 Plant 2	1049 Plant 2	1050 Plant 2	1051 Plant 2	1052 Plant 2	1053 Plant 2	1054 Plant 2	1055 Plant 2	1056 Plant 2	1057 Plant 2	1058 Plant 2	1059 Plant 2	1060 Plant 2	1061 Plant 2
Start (Sedentary)			36780	49505	59446	44101	94746	45246	75596	40456	60787	54460	42704	38234	61891	57482
Coyote	SIU	1	36440	49165	59107	43762	94406	44906	75256	40116	60447	54120	42364	37894	61551	57142
Lehi	SIU	1	33889	46614	56556	41211	91855	42355	72705	37565	57896	51570	39813	35343	59000	54591
Crismon	SIU	1	33162	45887	55829	40484	91128	41628	71978	36838	57169	50842	39086	34616	58273	53864
Scottsdale	SIU	1	32222	44948	54889	39544	90189	40689	71039	35899	56230	49903	38147	33676	57333	52925
Riverview	SIU	1	30890	43616	53557	38212	88857	39357	69706	34567	54898	48571	36815	32344	56001	51593
Canal System 2	SIU	1	27537	40263	50204	34859	85504	36004	66354	31214	51545	45218	33462	28991	52648	48240
Start (Sedentary)			36780	49505	59446	44101	94746	45246	75596	40456	60787	54460	42704	38234	61891	57482
Coyote	Buffer	1	35609	48335	58276	42931	93576	44076	74425	39286	59617	53290	41534	37063	60720	56312
Lehi	Buffer	1	26108	38834	48775	33430	84075	34575	64925	29785	50116	43789	32033	27563	51219	46811
Crismon	Buffer	1	22757	35482	45424	30079	80723	31223	61573	26433	46764	40438	28681	24211	47868	43459
Scottsdale	Buffer	1	18502	31228	41169	25824	76469	26969	57318	22178	42509	36183	24426	19956	43613	39204
Riverview	Buffer	1	8152.1	20878	30819	15474	66119	16619	46968	11828	32160	25833	14077	9606.1	33263	28854
Canal System 2	Buffer	1	-2701	10025	19966	4621.3	55266	5766	36116	975.86	21307	14980	3224	-1246	22410	18002
Start (Sedentary)			36780	49505	59446	44101	94746	45246	75596	40456	60787	54460	42704	38234	61891	57482
Coyote	SIU	2	36100	48825	58767	43422	94066	44566	74916	39776	60107	53781	42024	37554	61211	56802
Lehi	SIU	2	30998	43724	53665	38320	88965	39465	69814	34674	55005	48679	36922	32452	56109	51700
Crismon	SIU	2	29544	42269	52211	36866	87510	38010	68360	33220	53551	47225	35468	30998	54655	50246
Scottsdale	SIU	2	27665	40391	50332	34987	85632	36132	66481	31341	51672	45346	33589	29119	52776	48367
Riverview	SIU	2	25001	37726	47668	32323	82967	33467	63817	28677	49008	42682	30925	26455	50112	45703
Canal System 2	SIU	2	18295	31021	40962	25617	76262	26762	57111	21972	42303	35976	24220	19749	43406	38998
Start (Sedentary)			36780	49505	59446	44101	94746	45246	75596	40456	60787	54460	42704	38234	61891	57482
Coyote	Buffer	2	34439	47164	57106	41761	92405	42905	73255	38115	58446	52120	40363	35893	59550	55141
Lehi	Buffer	2	15437	28163	38104	22759	73404	23904	54254	19114	39445	33118	21362	16891	40548	36140
Crismon	Buffer	2	8734	21460	31401	16056	66701	17201	47550	12410	32741	26415	14658	10188	33845	29436
Scottsdale	Buffer	2	224.35	12950	22891	7546.2	58191	8690.9	39041	3900.8	24232	17905	6148.9	1678.4	25335	20927
Riverview	Buffer	2	-20475	-7750	2191.4	-13154	37491	-12009	18341	-16799	3532.1	-2795	-14551	-19021	4635.5	226.91
Canal System 2	Buffer	2	-42181	-29455	-19514	-34859	15786	-33714	-3364	-38504	-18173	-24500	-36256	-40727	-17070	-21478

System	Acreage Method	Acre-feet	1062 Plant 2	1063 Plant 2	1064 Plant 2	1065 Plant 2	1066 Plant 2	1067 Plant 2	1068 Plant 2	1069 Plant 2	1070 Plant 2	1071 Plant 2	1072 Plant 2	1073 Plant 2	1074 Plant 2	1075 Plant 2
Start (Sedentary)			31505	61942	46344	53450	56033	16010	40863	37223	39502	53084	45153	35181	43596	44916
Coyote	SIU	1	31165	61602	46005	53110	55693	15670	40523	36883	39162	52744	44813	34841	43256	44576
Lehi	SIU	1	28614	59051	43454	50559	53142	13119	37973	34332	36611	50193	42263	32290	40705	42025
Crismon	SIU	1	27887	58324	42727	49832	52415	12392	37245	33605	35884	49466	41535	31563	39978	41298
Scottsdale	SIU	1	26947	57385	41787	48892	51476	11453	36306	32666	34945	48526	40596	30624	39039	40359
Riverview	SIU	1	25615	56053	40455	47560	50144	10121	34974	31334	33613	47194	39264	29292	37707	39027
Canal System 2	SIU	1	22263	52700	37102	44208	46791	6768	31621	27981	30260	43841	35911	25939	34354	35674
Start (Sedentary)			31505	61942	46344	53450	56033	16010	40863	37223	39502	53084	45153	35181	43596	44916
Coyote	Buffer	1	30334	60772	45174	52279	54863	14840	39693	36053	38332	51913	43983	34011	42426	43746
Lehi	Buffer	1	20834	51271	35673	42779	45362	5339.1	30192	26552	28831	42413	34482	24510	32925	34245
Crismon	Buffer	1	17482	47919	32322	39427	42010	1987.4	26841	23200	25479	39061	31131	21158	29573	30893
Scottsdale	Buffer	1	13227	43664	28067	35172	37755	-2267	22586	18945	21224	34806	26876	16904	25319	26639
Riverview	Buffer	1	2877.2	33315	17717	24822	27406	-12617	12236	8595.5	10875	24456	16526	6553.6	14969	16289
Canal System 2	Buffer	1	-7975	22462	6864.3	13970	16553	-23470	1383.2	-2257	21.956	13604	5673.2	-4299	4116	5436
Start (Sedentary)			31505	61942	46344	53450	56033	16010	40863	37223	39502	53084	45153	35181	43596	44916
Coyote	SIU	2	30825	61262	45665	52770	55353	15330	40184	36543	38822	52404	44474	34501	42916	44236
Lehi	SIU	2	25723	56160	40563	47668	50251	10229	35082	31441	33720	47302	39372	29400	37815	39135
Crismon	SIU	2	24269	54706	39109	46214	48797	8774.4	33628	29987	32266	45848	37918	27945	36360	37680
Scottsdale	SIU	2	22390	52827	37230	44335	46918	6895.6	31749	28108	30387	43969	36039	26067	34482	35802
Riverview	SIU	2	19726	50163	34566	41671	44254	4231.4	29085	25444	27723	41305	33375	23402	31817	33137
Canal System 2	SIU	2	13020	43458	27860	34965	37549	-2474	22379	18739	21018	34599	26669	16697	25112	26432
Start (Sedentary)			31505	61942	46344	53450	56033	16010	40863	37223	39502	53084	45153	35181	43596	44916
Coyote	Buffer	2	29164	59601	44004	51109	53692	13669	38523	34882	37161	50743	42813	32840	41255	42575
Lehi	Buffer	2	10163	40600	25002	32108	34691	-5332	19521	15881	18160	31741	23811	13839	22254	23574
Crismon	Buffer	2	3459.1	33896	18299	25404	27987	-12035	12818	9177.4	11456	25038	17108	7135.5	15551	16871
Scottsdale	Buffer	2	-5050	25387	9789.2	16895	19478	-20545	4308.1	667.79	2946.9	16528	8598.1	-1374	7040.9	8360.9
Riverview	Buffer	2	-25750	4687.1	-10911	-3805	-1222	-41245	-16392	-20032	-17753	-4171	-12102	-22074	-13659	-12339
Canal System 2	Buffer	2	-47455	-17018	-32616	-25510	-22927	-62950	-38097	-41737	-39458	-25877	-33807	-43779	-35364	-34044

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1076 Plant 2	1077 Plant 2	1078 Plant 2	1079 Plant 2	1080 Plant 2	1081 Plant 2	1082 Plant 2	1083 Plant 2	1084 Plant 2	1085 Plant 2	1086 Plant 2	1087 Plant 2	1088 Plant 2	1089 Plant 2
Start (Sedentary)			62705	60436	47077	83444	69326	31391	80190	49428	55590	30798	26632	98716	34191	80912
Coyote	SIU	1	62365	60097	46737	83104	68986	31051	79850	49088	55250	30458	26292	98377	33851	80572
Lehi	SIU	1	59814	57546	44186	80553	66435	28500	77299	46537	52699	27908	23741	95826	31300	78021
Crismon	SIU	1	59087	56819	43459	79826	65708	27773	76572	45810	51972	27180	23014	95099	30573	77294
Scottsdale	SIU	1	58148	55879	42519	78886	64769	26834	75633	44871	51032	26241	22075	94159	29634	76355
Riverview	SIU	1	56816	54547	41187	77554	63436	25502	74301	43538	49700	24909	20743	92827	28302	75023
Canal System 2	SIU	1	53463	51194	37834	74201	60084	22149	70948	40186	46347	21556	17390	89474	24949	71670
Start (Sedentary)			62705	60436	47077	83444	69326	31391	80190	49428	55590	30798	26632	98716	34191	80912
Coyote	Buffer	1	61535	59266	45906	82273	68155	30221	79020	48257	54419	29628	25462	97546	33021	79742
Lehi	Buffer	1	52034	49765	36405	72773	58655	20720	69519	38757	44918	20127	15961	88045	23520	70241
Crismon	Buffer	1	48682	46414	33054	69421	55303	17368	66167	35405	41567	16776	12609	84694	20168	66889
Scottsdale	Buffer	1	44428	42159	28799	65166	51048	13114	61912	31150	37312	12521	8354.4	80439	15914	62634
Riverview	Buffer	1	34078	31809	18449	54816	40698	2763.8	51563	20800	26962	2170.8	-1995	70089	5563.6	52284
Canal System 2	Buffer	1	23225	20956	7596.5	43964	29846	-8089	40710	9947.7	16109	-8682	-12848	59236	-5289	41432
Start (Sedentary)			62705	60436	47077	83444	69326	31391	80190	49428	55590	30798	26632	98716	34191	80912
Coyote	SIU	2	62025	59757	46397	82764	68646	30711	79510	48748	54910	30119	25952	98037	33511	80232
Lehi	SIU	2	56924	54655	41295	77662	63544	25610	74408	43646	49808	25017	20850	92935	28410	75130
Crismon	SIU	2	55469	53201	39841	76208	62090	24155	72954	42192	48354	23563	19396	91481	26955	73676
Scottsdale	SIU	2	53591	51322	37962	74329	60211	22277	71075	40313	46475	21684	17517	89602	25077	71797
Riverview	SIU	2	50926	48658	35298	71665	57547	19612	68411	37649	43811	19020	14853	86938	22412	69133
Canal System 2	SIU	2	44221	41952	28592	64959	50841	12907	61706	30943	37105	12314	8147.6	80232	15707	62428
Start (Sedentary)			62705	60436	47077	83444	69326	31391	80190	49428	55590	30798	26632	98716	34191	80912
Coyote	Buffer	2	60364	58096	44736	81103	66985	29050	77849	47087	53249	28458	24291	96376	31850	78571
Lehi	Buffer	2	41363	39094	25734	62101	47984	10049	58848	28086	34247	9456.1	5289.8	77374	12849	59570
Crismon	Buffer	2	34660	32391	19031	55398	41280	3345.7	52144	21382	27544	2752.7	-1414	70671	6145.5	52866
Scottsdale	Buffer	2	26150	23881	10521	46888	32771	-5164	43635	12873	19034	-5757	-9923	62161	-2364	44357
Riverview	Buffer	2	5450.2	3181.4	-10178	26189	12071	-25864	22935	-7827	-1665	-26457	-30623	41461	-23064	23657
Canal System 2	Buffer	2	-16255	-18524	-31884	4483.4	-9634	-47569	1229.8	-29532	-23371	-48162	-52328	19756	-44769	1951.7

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1090 Plant 2	1091 Plant 2	1092 Plant 2	1093 Plant 2	1094 Plant 2	1095 Plant 2	1096 Plant 2	1097 Plant 2	1098 Plant 2	1099 Plant 2	Total Deficits	1000 Silk 2	1001 Silk 2
Start (Sedentary)			27230	29427	59632	40312	30577	54022	52862	30618	35475	27926		47314	26545
Coyote	SIU	1	26890	29087	59292	39972	30237	53682	52522	30278	35135	27586	0	46974	26205
Lehi	SIU	1	24339	26536	56741	37421	27686	51131	49971	27727	32584	25035	0	44423	23654
Crismon	SIU	1	23612	25809	56014	36694	26959	50404	49244	27000	31857	24308	0	43696	22927
Scottsdale	SIU	1	22673	24869	55075	35754	26019	49465	48305	26061	30918	23369	0	42756	21987
Riverview	SIU	1	21341	23537	53743	34422	24687	48133	46973	24728	29586	22037	0	41424	20655
Canal System 2	SIU	1	17988	20185	50390	31069	21334	44780	43620	21376	26233	18684	0	38071	17302
Start (Sedentary)			27230	29427	59632	40312	30577	54022	52862	30618	35475	27926		47314	26545
Coyote	Buffer	1	26060	28256	58462	39141	29406	52852	51692	29447	34305	26756	0	46143	25374
Lehi	Buffer	1	16559	18756	48961	29640	19905	43351	42191	19947	24804	17255	0	36643	15874
Crismon	Buffer	1	13207	15404	45609	26289	16554	39999	38839	16595	21452	13903	0	33291	12522
Scottsdale	Buffer	1	8952.6	11149	41354	22034	12299	35744	34584	12340	17197	9648.7	1	29036	8267.1
Riverview	Buffer	1	-1397	799.24	31005	11684	1949.1	25395	24234	1990.3	6847.5	-701.2	11	18686	-2083
Canal System 2	Buffer	1	-12250	-10053	20152	831.49	-8904	14542	13382	-8862	-4005	-11554	33	7833.5	-12935
Start (Sedentary)			27230	29427	59632	40312	30577	54022	52862	30618	35475	27926		47314	26545
Coyote	SIU	2	26550	28747	58952	39632	29897	53342	52182	29938	34795	27246	0	46634	25865
Lehi	SIU	2	21449	23645	53850	34530	24795	48240	47080	24836	29693	22145	0	41532	20763
Crismon	SIU	2	19994	22191	52396	33076	23341	46786	45626	23382	28239	20690	0	40078	19309
Scottsdale	SIU	2	18116	20312	50517	31197	21462	44907	43747	21503	26360	18812	0	38199	17430
Riverview	SIU	2	15451	17648	47853	28533	18798	42243	41083	18839	23696	16147	0	35535	14766
Canal System 2	SIU	2	8745.8	10942	41148	21827	12092	35538	34378	12133	16991	9441.9	1	28829	8060.3
Start (Sedentary)			27230	29427	59632	40312	30577	54022	52862	30618	35475	27926		47314	26545
Coyote	Buffer	2	24889	27086	57291	37971	28236	51681	50521	28277	33134	25585	0	44973	24204
Lehi	Buffer	2	5888	8084.5	38290	18969	9234.4	32680	31520	9275.6	14133	6584.1	2	25971	5202.5
Crismon	Buffer	2	-815.4	1381.1	31586	12266	2531	25976	24816	2572.2	7429.4	-119.3	9	19268	-1501
Scottsdale	Buffer	2	-9325	-7128	23077	3756.4	-5979	17467	16307	-5937	-1080	-8629	26	10758	-10011
Riverview	Buffer	2	-30025	-27828	2377.1	-16943	-26678	-3233	-4393	-26637	-21780	-29329	74	-9941	-30710
Canal System 2	Buffer	2	-51730	-49533	-19328	-38649	-48384	-24938	-26098	-48342	-43485	-51034	94	-31647	-52416

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1002 Silk 2	1003 Silk 2	1004 Silk 2	1005 Silk 2	1006 Silk 2	1007 Silk 2	1008 Silk 2	1009 Silk 2	1010 Silk 2	1011 Silk 2	1012 Silk 2	1013 Silk 2	1014 Silk 2	1015 Silk 2
Start (Sedentary)			47075	41754	60683	17777	70465	53341	39777	27749	60030	54713	40695	34866	21140	66843
Coyote	SIU	1	46735	41414	60343	17437	70125	53001	39437	27409	59690	54373	40355	34526	20800	66503
Lehi	SIU	1	44185	38863	57792	14887	67574	50450	36887	24858	57139	51822	37804	31976	18249	63952
Crismon	SIU	1	43457	38136	57065	14159	66847	49723	36159	24131	56412	51095	37077	31248	17522	63225
Scottsdale	SIU	1	42518	37197	56126	13220	65908	48784	35220	23192	55473	50156	36138	30309	16582	62285
Riverview	SIU	1	41186	35865	54794	11888	64576	47451	33888	21860	54141	48824	34806	28977	15250	60953
Canal System 2	SIU	1	37833	32512	51441	8535.1	61223	44099	30535	18507	50788	45471	31453	25624	11897	57600
Start (Sedentary)			47075	41754	60683	17777	70465	53341	39777	27749	60030	54713	40695	34866	21140	66843
Coyote	Buffer	1	45905	40584	59513	16607	69295	52170	38607	26579	58860	53543	39525	33696	19969	65672
Lehi	Buffer	1	36404	31083	50012	7106.2	59794	42670	29106	17078	49359	44042	30024	24195	10468	56172
Crismon	Buffer	1	33053	27731	46660	3754.5	56442	39318	25755	13726	46007	40690	26672	20844	7116.8	52820
Scottsdale	Buffer	1	28798	23476	42405	-500.3	52188	35063	21500	9471.7	41752	36436	22417	16589	2862	48565
Riverview	Buffer	1	18448	13127	32056	-10850	41838	24713	11150	-878.2	31402	26086	12068	6238.9	-7488	38215
Canal System 2	Buffer	1	7595.2	2273.9	21203	-21703	30985	13861	297.21	-11731	20550	15233	1215	-4614	-18341	27363
Start (Sedentary)			47075	41754	60683	17777	70465	53341	39777	27749	60030	54713	40695	34866	21140	66843
Coyote	SIU	2	46396	41074	60003	17098	69785	52661	39098	27069	59350	54033	40015	34187	20460	66163
Lehi	SIU	2	41294	35972	54901	11996	64684	47559	33996	21968	54248	48932	34913	29085	15358	61061
Crismon	SIU	2	39840	34518	53447	10542	63229	46105	32542	20513	52794	47477	33459	27631	13904	59607
Scottsdale	SIU	2	37961	32639	51568	8662.7	61351	44226	30663	18635	50915	45599	31580	25752	12025	57728
Riverview	SIU	2	35297	29975	48904	5998.5	58686	41562	27999	15970	48251	42934	28916	23088	9360.8	55064
Canal System 2	SIU	2	28591	23270	42199	-707.1	51981	34856	21293	9264.9	41546	36229	22211	16382	2655.2	48358
Start (Sedentary)			47075	41754	60683	17777	70465	53341	39777	27749	60030	54713	40695	34866	21140	66843
Coyote	Buffer	2	44735	39413	58342	15437	68124	51000	37437	25408	57689	52372	38354	32526	18799	64502
Lehi	Buffer	2	25733	20412	39341	-3565	49123	31999	18435	6407.1	38688	33371	19353	13524	-202.6	45500
Crismon	Buffer	2	19030	13708	32637	-10268	42420	25295	11732	-296.3	31984	26668	12649	6820.8	-6906	38797
Scottsdale	Buffer	2	10520	5198.8	24128	-18778	33910	16786	3222.1	-8806	23475	18158	4139.9	-1689	-15416	30287
Riverview	Buffer	2	-10180	-15501	3428	-39478	13210	-3914	-17478	-29506	2775	-2542	-16560	-22389	-36115	9587.7
Canal System 2	Buffer	2	-31885	-37206	-18277	-61183	-8495	-25619	-39183	-51211	-18930	-24247	-38265	-44094	-57821	-12118

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1016 Silk 2	1017 Silk 2	1018 Silk 2	1019 Silk 2	1020 Silk 2	1021 Silk 2	1022 Silk 2	1023 Silk 2	1024 Silk 2	1025 Silk 2	1026 Silk 2	1027 Silk 2	1028 Silk 2	1029 Silk 2
Start (Sedentary)			33304	66066	27617	27604	60445	32921	34765	23540	57184	30445	42257	43373	34655	40744
Coyote	SIU	1	32965	65726	27277	27264	60105	32581	34425	23200	56844	30105	41917	43033	34315	40404
Lehi	SIU	1	30414	63175	24726	24713	57554	30030	31874	20649	54293	27554	39366	40483	31764	37853
Crismon	SIU	1	29687	62448	23999	23986	56827	29303	31147	19922	53566	26827	38639	39755	31037	37126
Scottsdale	SIU	1	28747	61509	23060	23046	55887	28363	30208	18983	52627	25888	37700	38816	30097	36186
Riverview	SIU	1	27415	60177	21727	21714	54555	27031	28875	17650	51295	24556	36368	37484	28765	34854
Canal System 2	SIU	1	24062	56824	18375	18361	51203	23678	25523	14298	47942	21203	33015	34131	25412	31501
Start (Sedentary)			33304	66066	27617	27604	60445	32921	34765	23540	57184	30445	42257	43373	34655	40744
Coyote	Buffer	1	32134	64896	26446	26433	59274	31750	33594	22369	56014	29275	41087	42203	33484	39573
Lehi	Buffer	1	22633	55395	16946	16933	49774	22249	24094	12869	46513	19774	31586	32702	23983	30073
Crismon	Buffer	1	19282	52043	13594	13581	46422	18898	20742	9517.1	43161	16422	28234	29351	20632	26721
Scottsdale	Buffer	1	15027	47788	9339.3	9326	42167	14643	16487	5262.3	38906	12168	23979	25096	16377	22466
Riverview	Buffer	1	4676.9	37439	-1011	-1024	31817	4293	6137.4	-5088	28557	1817.7	13630	14746	6027.1	12116
Canal System 2	Buffer	1	-6176	26586	-11863	-11876	20965	-6560	-4715	-15940	17704	-9035	2777	3893.3	-4826	1263.5
Start (Sedentary)			33304	66066	27617	27604	60445	32921	34765	23540	57184	30445	42257	43373	34655	40744
Coyote	SIU	2	32625	65386	26937	26924	59765	32241	34085	22860	56504	29765	41577	42694	33975	40064
Lehi	SIU	2	27523	60284	21835	21822	54663	27139	28983	17758	51402	24664	36475	37592	28873	34962
Crismon	SIU	2	26069	58830	20381	20368	53209	25685	27529	16304	49948	23209	35021	36138	27419	33508
Scottsdale	SIU	2	24190	56951	18502	18489	51330	23806	25650	14425	48069	21331	33142	34259	25540	31629
Riverview	SIU	2	21526	54287	15838	15825	48666	21142	22986	11761	45405	18666	30478	31595	22876	28965
Canal System 2	SIU	2	14820	47582	9132.5	9119.2	41960	14436	16280	5055.5	38700	11961	23773	24889	16170	22259
Start (Sedentary)			33304	66066	27617	27604	60445	32921	34765	23540	57184	30445	42257	43373	34655	40744
Coyote	Buffer	2	30964	63725	25276	25263	58104	30580	32424	21199	54843	28104	39916	41033	32314	38403
Lehi	Buffer	2	11962	44724	6274.7	6261.4	39103	11578	13423	2197.7	35842	9103	20915	22031	13312	19401
Crismon	Buffer	2	5258.8	38020	-428.7	-442	32399	4874.9	6719.3	-4506	29138	2399.6	14211	15328	6609	12698
Scottsdale	Buffer	2	-3251	29511	-8938	-8952	23890	-3635	-1790	-13015	20629	-6110	5701.9	6818.2	-1901	4188.4
Riverview	Buffer	2	-23951	8811.1	-29638	-29651	3189.8	-24334	-22490	-33715	-70.97	-26810	-14998	-13882	-22600	-16511
Canal System 2	Buffer	2	-45656	-12894	-51343	-51357	-18515	-46040	-44195	-55420	-21776	-48515	-36703	-35587	-44306	-38217

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1030 Silk 2	1031 Silk 2	1032 Silk 2	1033 Silk 2	1034 Silk 2	1035 Silk 2	1036 Silk 2	1037 Silk 2	1038 Silk 2	1039 Silk 2	1040 Silk 2	1041 Silk 2	1042 Silk 2	1043 Silk 2
Start (Sedentary)			43166	40894	45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340
Coyote	SIU	1	42826	40554	45059	36578	32351	23681	26995	36031	36115	22869	31019	21925	40536	44000
Lehi	SIU	1	40275	38003	42508	34027	29800	21130	24444	33480	33564	20318	28468	19374	37985	41449
Crismon	SIU	1	39548	37276	41781	33300	29073	20403	23717	32753	32837	19591	27741	18647	37258	40722
Scottsdale	SIU	1	38609	36336	40841	32361	28134	19464	22777	31814	31898	18652	26801	17707	36319	39782
Riverview	SIU	1	37277	35004	39509	31029	26802	18131	21445	30482	30565	17320	25469	16375	34987	38450
Canal System 2	SIU	1	33924	31651	36156	27676	23449	14779	18092	27129	27213	13967	22116	13023	31634	35097
Start (Sedentary)			43166	40894	45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340
Coyote	Buffer	1	41996	39723	44228	35748	31521	22850	26164	35201	35284	22039	30188	21094	39706	43169
Lehi	Buffer	1	32495	30223	34728	26247	22020	13350	16663	25700	25784	12538	20687	11594	30205	33669
Crismon	Buffer	1	29143	26871	31376	22895	18668	9998	13312	22348	22432	9186.1	17336	8241.9	26853	30317
Scottsdale	Buffer	1	24888	22616	27121	18641	14413	5743.2	9056.9	18093	18177	4931.3	13081	3987.1	22598	26062
Riverview	Buffer	1	14538	12266	16771	8290.6	4063.6	-4607	-1293	7743.5	7827.3	-5419	2731.1	-6363	12248	15712
Canal System 2	Buffer	1	3685.9	1413.5	5918.5	-2562	-6789	-15459	-12146	-3109	-3025	-16271	-8122	-17215	1395.9	4859.6
Start (Sedentary)			43166	40894	45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340
Coyote	SIU	2	42486	40214	44719	36238	32011	23341	26655	35691	35775	22529	30679	21585	40196	43660
Lehi	SIU	2	37384	35112	39617	31137	26909	18239	21553	30589	30673	17427	25577	16483	35094	38558
Crismon	SIU	2	35930	33658	38163	29682	25455	16785	20099	29135	29219	15973	24123	15029	33640	37104
Scottsdale	SIU	2	34051	31779	36284	27804	23576	14906	18220	27256	27340	14094	22244	13150	31761	35225
Riverview	SIU	2	31387	29115	33620	25139	20912	12242	15556	24592	24676	11430	19580	10486	29097	32561
Canal System 2	SIU	2	24682	22409	26914	18434	14207	5536.4	8850.1	17887	17970	4724.5	12874	3780.3	22392	25855
Start (Sedentary)			43166	40894	45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340
Coyote	Buffer	2	40825	38553	43058	34577	30350	21680	24994	34030	34114	20868	29018	19924	38535	41999
Lehi	Buffer	2	21824	19551	24056	15576	11349	2678.6	5992.3	15029	15113	1866.7	10016	922.51	19534	22997
Crismon	Buffer	2	15120	12848	17353	8872.5	4645.5	-4025	-711.1	8325.4	8409.2	-4837	3313	-5781	12830	16294
Scottsdale	Buffer	2	6610.8	4338.4	8843.4	362.91	-3864	-12534	-9221	-184.2	-100.4	-13346	-5197	-14290	4320.8	7784.5
Riverview	Buffer	2	-14089	-16361	-11856	-20337	-24564	-33234	-29921	-20884	-20800	-34046	-25896	-34990	-16379	-12915
Canal System 2	Buffer	2	-35794	-38067	-33562	-42042	-46269	-54939	-51626	-42589	-42505	-55751	-47602	-56695	-38084	-34621

System	Acreage Method	Acre-feet	1044 Silk 2	1045 Silk 2	1046 Silk 2	1047 Silk 2	1048 Silk 2	1049 Silk 2	1050 Silk 2	1051 Silk 2	1052 Silk 2	1053 Silk 2	1054 Silk 2	1055 Silk 2	1056 Silk 2	1057 Silk 2
Start (Sedentary)			24471	53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017	46603
Coyote	SIU	1	24131	53380	35828	57277	31133	42023	50530	37399	80737	38378	64350	34279	51677	46263
Lehi	SIU	1	21580	50830	33277	54726	28582	39472	47979	34848	78186	35828	61799	31728	49126	43712
Crismon	SIU	1	20853	50102	32550	53999	27855	38745	47252	34121	77459	35100	61072	31001	48399	42985
Scottsdale	SIU	1	19914	49163	31611	53059	26916	37806	46313	33182	76520	34161	60132	30062	47460	42046
Riverview	SIU	1	18581	47831	30279	51727	25584	36474	44981	31849	75187	32829	58800	28730	46128	40714
Canal System 2	SIU	1	15229	44478	26926	48374	22231	33121	41628	28497	71835	29476	55447	25377	42775	37361
Start (Sedentary)			24471	53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017	46603
Coyote	Buffer	1	23300	52550	34998	56446	30303	41193	49700	36568	79906	37548	63519	33449	50847	45433
Lehi	Buffer	1	13800	43049	25497	46945	20802	31692	40199	27068	70406	28047	54018	23948	41346	35932
Crismon	Buffer	1	10448	39698	22145	43594	17450	28340	36847	23716	67054	24696	50667	20596	37994	32580
Scottsdale	Buffer	1	6193.3	35443	17890	39339	13196	24085	32592	19461	62799	20441	46412	16342	33740	28326
Riverview	Buffer	1	-4157	25093	7540.5	28989	2845.8	13735	22242	9111.3	52449	10091	36062	5991.8	23390	17976
Canal System 2	Buffer	1	-15009	14240	-3312	18136	-8007	2882.8	11390	-1741	41597	-761.7	25209	-4861	12537	7123.1
Start (Sedentary)			24471	53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017	46603
Coyote	SIU	2	23791	53041	35488	56937	30793	41683	50190	37059	80397	38039	64010	33939	51337	45923
Lehi	SIU	2	18689	47939	30386	51835	25692	36581	45088	31957	75295	32937	58908	28838	46236	40822
Crismon	SIU	2	17235	46485	28932	50381	24237	35127	43634	30503	73841	31483	57454	27383	44781	39367
Scottsdale	SIU	2	15356	44606	27053	48502	22359	33248	41755	28624	71962	29604	55575	25505	42903	37489
Riverview	SIU	2	12692	41942	24389	45838	19694	30584	39091	25960	69298	26940	52911	22840	40238	34824
Canal System 2	SIU	2	5986.5	35236	17684	39132	12989	23879	32386	19254	62592	20234	46205	16135	33533	28119
Start (Sedentary)			24471	53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017	46603
Coyote	Buffer	2	22130	51380	33827	55276	29132	40022	48529	35398	78736	36378	62349	32278	49676	44262
Lehi	Buffer	2	3128.7	32378	14826	36274	10131	21021	29528	16397	59735	17376	43347	13277	30675	25261
Crismon	Buffer	2	-3575	25675	8122.4	29571	3427.7	14317	22824	9693.2	53031	10673	36644	6573.7	23972	18558
Scottsdale	Buffer	2	-12084	17165	-387.2	21061	-5082	5807.7	14315	1183.6	44522	2163.2	28134	-1936	15462	10048
Riverview	Buffer	2	-32784	-3535	-21087	361.44	-25782	-14892	-6385	-19516	23822	-18537	7434.4	-22636	-5238	-10652
Canal System 2	Buffer	2	-54489	-25240	-42792	-21344	-47487	-36597	-28090	-41221	2116.7	-40242	-14271	-44341	-26943	-32357

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1058 Silk 2	1059 Silk 2	1060 Silk 2	1061 Silk 2	1062 Silk 2	1063 Silk 2	1064 Silk 2	1065 Silk 2	1066 Silk 2	1067 Silk 2	1068 Silk 2	1069 Silk 2	1070 Silk 2	1071 Silk 2
Start (Sedentary)			36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853	33803	45425
Coyote	SIU	1	36203	32378	52622	48849	26620	52666	39318	45398	47609	13360	34628	31513	33463	45085
Lehi	SIU	1	33652	29827	50071	46298	24069	50115	36767	42848	45058	10810	32077	28962	30912	42534
Crismon	SIU	1	32925	29100	49344	45571	23342	49388	36040	42120	44331	10082	31350	28235	30185	41807
Scottsdale	SIU	1	31986	28160	48404	44632	22402	48448	35101	41181	43392	9143	30411	27295	29246	40868
Riverview	SIU	1	30654	26828	47072	43299	21070	47116	33769	39849	42060	7810.9	29078	25963	27914	39536
Canal System 2	SIU	1	27301	23475	43719	39947	17717	43763	30416	36496	38707	4458.1	25726	22611	24561	36183
Start (Sedentary)			36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853	33803	45425
Coyote	Buffer	1	35373	31547	51791	48018	25789	51835	38488	44568	46779	12530	33797	30682	32633	44255
Lehi	Buffer	1	25872	22046	42290	38518	16288	42334	28987	35067	37278	3029.2	24297	21182	23132	34754
Crismon	Buffer	1	22520	18695	38939	35166	12937	38983	25635	31716	33926	-322.5	20945	17830	19780	31402
Scottsdale	Buffer	1	18265	14440	34684	30911	8681.8	34728	21381	27461	29671	-4577	16690	13575	15525	27148
Riverview	Buffer	1	7915.6	4090.1	24334	20561	-1668	24378	11031	17111	19321	-14927	6340.4	3225.2	5175.5	16798
Canal System 2	Buffer	1	-2937	-6763	13481	9708.8	-12521	13525	178.08	6258.3	8468.9	-25780	-4512	-7627	-5677	5945
Start (Sedentary)			36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853	33803	45425
Coyote	SIU	2	35863	32038	52282	48509	26280	52326	38978	45059	47269	13021	34288	31173	33123	44745
Lehi	SIU	2	30761	26936	47180	43407	21178	47224	33877	39957	42167	7918.7	29186	26071	28021	39644
Crismon	SIU	2	29307	25482	45726	41953	19724	45770	32422	38503	40713	6464.5	27732	24617	26567	38189
Scottsdale	SIU	2	27428	23603	43847	40074	17845	43891	30544	36624	38834	4585.7	25853	22738	24688	36311
Riverview	SIU	2	24764	20939	41183	37410	15181	41227	27879	33960	36170	1921.5	23189	20074	22024	33646
Canal System 2	SIU	2	18059	14233	34477	30704	8475	34521	21174	27254	29465	-4784	16483	13368	15319	26941
Start (Sedentary)			36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853	33803	45425
Coyote	Buffer	2	34202	30377	50621	46848	24619	50665	37317	43398	45608	11360	32627	29512	31462	43084
Lehi	Buffer	2	15201	11375	31619	27847	5617.2	31663	18316	24396	26607	-7642	13626	10511	12461	24083
Crismon	Buffer	2	8497.5	4672	24916	21143	-1086	24960	11613	17693	19903	-14345	6922.3	3807.1	5757.4	17380
Scottsdale	Buffer	2	-12.14	-3838	16406	12634	-9596	16450	3103	9183.2	11394	-22855	-1587	-4702	-2752	8869.9
Riverview	Buffer	2	-20712	-24537	-4294	-8066	-30296	-4249	-17597	-11517	-9306	-43555	-22287	-25402	-23452	-11830
Canal System 2	Buffer	2	-42417	-46243	-25999	-29771	-52001	-25955	-39302	-33222	-31011	-65260	-43992	-47107	-45157	-33535

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1072 Silk 2	1073 Silk 2	1074 Silk 2	1075 Silk 2	1076 Silk 2	1077 Silk 2	1078 Silk 2	1079 Silk 2	1080 Silk 2	1081 Silk 2	1082 Silk 2	1083 Silk 2	1084 Silk 2	1085 Silk 2
Start (Sedentary)			38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621	42297	47570	26355
Coyote	SIU	1	38299	29766	36966	38096	53319	51377	39945	71065	58984	26522	68281	41957	47230	26015
Lehi	SIU	1	35748	27215	34416	35545	50768	48826	37394	68514	56433	23972	65730	39406	44679	23464
Crismon	SIU	1	35021	26488	33688	34818	50041	48099	36667	67787	55706	23244	65003	38679	43952	22737
Scottsdale	SIU	1	34082	25548	32749	33879	49101	47160	35727	66848	54767	22305	64064	37739	43012	21798
Riverview	SIU	1	32750	24216	31417	32547	47769	45828	34395	65516	53435	20973	62731	36407	41680	20466
Canal System 2	SIU	1	29397	20863	28064	29194	44416	42475	31043	62163	50082	17620	59379	33055	38327	17113
Start (Sedentary)			38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621	42297	47570	26355
Coyote	Buffer	1	37469	28935	36136	37266	52488	50547	39114	70235	58154	25692	67450	41126	46399	25185
Lehi	Buffer	1	27968	19434	26635	27765	42987	41046	29614	60734	48653	16191	57950	31626	36898	15684
Crismon	Buffer	1	24616	16083	23284	24413	39636	37694	26262	57382	45301	12840	54598	28274	33547	12332
Scottsdale	Buffer	1	20361	11828	19029	20158	35381	33440	22007	53127	41046	8584.8	50343	24019	29292	8077.4
Riverview	Buffer	1	10011	1477.9	8678.9	9808.5	25031	23090	11657	42778	30697	-1765	39993	13669	18942	-2273
Canal System 2	Buffer	1	-841.2	-9375	-2174	-1044	14178	12237	804.63	31925	19844	-12618	29141	2816.7	8089.4	-13125
Start (Sedentary)			38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621	42297	47570	26355
Coyote	SIU	2	37959	29426	36627	37756	52979	51037	39605	70725	58644	26183	67941	41617	46890	25675
Lehi	SIU	2	32857	24324	31525	32654	47877	45936	34503	65623	53542	21081	62839	36515	41788	20573
Crismon	SIU	2	31403	22870	30071	31200	46423	44481	33049	64169	52088	19627	61385	35061	40334	19119
Scottsdale	SIU	2	29524	20991	28192	29321	44544	42603	31170	62290	50209	17748	59506	33182	38455	17240
Riverview	SIU	2	26860	18327	25528	26657	41880	39938	28506	59626	47545	15084	56842	30518	35791	14576
Canal System 2	SIU	2	20155	11621	18822	19952	35174	33233	21800	52921	40840	8378	50136	23812	29085	7870.6
Start (Sedentary)			38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621	42297	47570	26355
Coyote	Buffer	2	36298	27765	34966	36095	51318	49376	37944	69064	56983	24522	66280	39956	45229	24014
Lehi	Buffer	2	17297	8763.2	15964	17094	32316	30375	18943	50063	37982	5520.2	47279	20955	26227	5012.8
Crismon	Buffer	2	10593	2059.8	9260.8	10390	25613	23672	12239	43359	31278	-1183	40575	14251	19524	-1691
Scottsdale	Buffer	2	2083.7	-6450	751.2	1880.8	17103	15162	3729.5	34850	22769	-9693	32066	5741.6	11014	-10200
Riverview	Buffer	2	-18616	-27150	-19949	-18819	-3596	-5538	-16970	14150	2069	-30393	11366	-14958	-9685	-30900
Canal System 2	Buffer	2	-40321	-48855	-41654	-40524	-25302	-27243	-38675	-7555	-19636	-52098	-10339	-36663	-31391	-52605

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1086 Silk 2	1087 Silk 2	1088 Silk 2	1089 Silk 2	1090 Silk 2	1091 Silk 2	1092 Silk 2	1093 Silk 2	1094 Silk 2	1095 Silk 2	1096 Silk 2	1097 Silk 2	1098 Silk 2	1099 Silk 2
Start (Sedentary)			22790	84474	29258	69239	23302	25181	51029	34496	26165	46228	45235	26201	30357	23897
Coyote	SIU	1	22450	84134	28918	68899	22962	24841	50689	34156	25825	45888	44895	25861	30017	23557
Lehi	SIU	1	19899	81584	26367	66348	20411	22290	48138	31605	23274	43337	42345	23310	27466	21006
Crismon	SIU	1	19172	80856	25640	65621	19684	21563	47411	30878	22547	42610	41617	22583	26739	20279
Scottsdale	SIU	1	18232	79917	24701	64681	18744	20624	46472	29938	21608	41671	40678	21643	25800	19340
Riverview	SIU	1	16900	78585	23369	63349	17412	19292	45139	28606	20276	40339	39346	20311	24468	18008
Canal System 2	SIU	1	13548	75232	20016	59996	14059	15939	41787	25254	16923	36986	35993	16958	21115	14655
Start (Sedentary)			22790	84474	29258	69239	23302	25181	51029	34496	26165	46228	45235	26201	30357	23897
Coyote	Buffer	1	21619	83304	28088	68068	22131	24011	49858	33325	24995	45058	44065	25030	29187	22727
Lehi	Buffer	1	12119	73803	18587	58567	12631	14510	40358	23825	15494	35557	34564	15529	19686	13226
Crismon	Buffer	1	8767	70452	15235	55216	9278.8	11158	37006	20473	12142	32205	31213	12178	16334	9874.5
Scottsdale	Buffer	1	4512.2	66197	10981	50961	5024	6903.7	32751	16218	7887.6	27951	26958	7922.9	12079	5619.7
Riverview	Buffer	1	-5838	55847	630.78	40611	-5326	-3446	22401	5868.2	-2462	17601	16608	-2427	1729.5	-4730
Canal System 2	Buffer	1	-16690	44994	-10222	29758	-16178	-14299	11549	-4984	-13315	6748.1	5755.3	-13280	-9123	-15583
Start (Sedentary)			22790	84474	29258	69239	23302	25181	51029	34496	26165	46228	45235	26201	30357	23897
Coyote	SIU	2	22110	83795	28578	68559	22622	24501	50349	33816	25485	45548	44556	25521	29677	23217
Lehi	SIU	2	17008	78693	23477	63457	17520	19400	45247	28714	20384	40447	39454	20419	24575	18116
Crismon	SIU	2	15554	77239	22022	62003	16066	17945	43793	27260	18929	38992	38000	18965	23121	16661
Scottsdale	SIU	2	13675	75360	20144	60124	14187	16067	41914	25381	17051	37114	36121	17086	21242	14783
Riverview	SIU	2	11011	72696	17479	57460	11523	13402	39250	22717	14386	34449	33457	14422	18578	12118
Canal System 2	SIU	2	4305.4	65990	10774	50754	4817.2	6696.9	32544	16011	7680.8	27744	26751	7716.1	11873	5412.9
Start (Sedentary)			22790	84474	29258	69239	23302	25181	51029	34496	26165	46228	45235	26201	30357	23897
Coyote	Buffer	2	20449	82134	26917	66898	20961	22840	48688	32155	23824	43887	42895	23860	28016	21556
Lehi	Buffer	2	1447.6	63132	7916.1	47896	1959.4	3839.1	29687	13154	4823	24886	23893	4858.3	9014.8	2555.1
Crismon	Buffer	2	-5256	56429	1212.7	41193	-4744	-2864	22983	6450.1	-1880	18183	17190	-1845	2311.4	-4148
Scottsdale	Buffer	2	-13765	47919	-7297	32683	-13254	-11374	14474	-2059	-10390	9673	8680.2	-10355	-6198	-12658
Riverview	Buffer	2	-34465	27219	-27997	11984	-33953	-32074	-6226	-22759	-31090	-11027	-12020	-31054	-26898	-33358
Canal System 2	Buffer	2	-56170	5514.2	-49702	-9722	-55659	-53779	-27931	-44464	-52795	-32732	-33725	-52760	-48603	-55063

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	Total Deficits
Start (Sedentary)			
Coyote	SIU	1	0
Lehi	SIU	1	0
Crismon	SIU	1	0
Scottsdale	SIU	1	0
Riverview	SIU	1	0
Canal System 2	SIU	1	0
Start (Sedentary)			
Coyote	Buffer	1	0
Lehi	Buffer	1	0
Crismon	Buffer	1	1
Scottsdale	Buffer	1	2
Riverview	Buffer	1	22
Canal System 2	Buffer	1	50
Start (Sedentary)			
Coyote	SIU	2	0
Lehi	SIU	2	0
Crismon	SIU	2	0
Scottsdale	SIU	2	0
Riverview	SIU	2	0
Canal System 2	SIU	2	2
Start (Sedentary)			
Coyote	Buffer	2	0
Lehi	Buffer	2	3
Crismon	Buffer	2	22
Scottsdale	Buffer	2	44
Riverview	Buffer	2	86
Canal System 2	Buffer	2	98

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1000 Plant 1	1001 Plant 1	1002 Plant 1	1003 Plant 1	1004 Plant 1	1005 Plant 1	1006 Plant 1	1007 Plant 1	1008 Plant 1	1009 Plant 1	1010 Plant 1	1011 Plant 1	1012 Plant 1	1013 Plant 1
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	SIU	3	149047	83173	148291	131413	191451	55365	222477	168164	125144	86994	189380	172516	128054	109567
Lehi	SIU	3	141394	75520	140638	123761	183798	47713	214825	160511	117491	79341	181727	164863	120402	101915
Crismon	SIU	3	139213	73339	138457	121579	181617	45531	212643	158330	115310	77160	179546	162682	118220	99733
Scottsdale	SIU	3	136394	70521	135639	118761	178799	42713	209825	155511	112491	74341	176728	159864	115402	96915
Riverview	SIU	3	132398	66525	131642	114765	174802	38717	205829	151515	108495	70345	172731	155868	111406	92919
Canal System 2	SIU	3	122340	56466	121584	104706	164744	28659	195771	141457	98437	60287	162673	145809	101348	82860
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	Buffer	3	146555	80682	145799	128922	188959	52874	219986	165672	122652	84502	186888	170025	125563	107076
Lehi	Buffer	3	118053	52180	117297	100420	160457	24372	191484	137170	94150	56000	158386	141522	97061	78574
Crismon	Buffer	3	107998	42124	107242	90365	150402	14317	181429	127115	84095	45945	148331	131467	87006	68519
Scottsdale	Buffer	3	95234	29360	94478	77600	137638	1552.3	168664	114351	71330	33181	135567	118703	74241	55754
Riverview	Buffer	3	64184	-1690	63428	46550	106588	-29497	137615	83301	40281	2130.9	104517	87653	43192	24705
Canal System 2	Buffer	3	31626	-34247	30870	13993	74030	-62055	105057	50743	7723	-30427	71959	55095	10634	-7853
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	SIU	4	148707	82833	147951	131073	191111	55026	222138	167824	124804	86654	189040	172176	127715	109227
Lehi	SIU	4	138503	72630	137747	120870	180907	44822	211934	157620	114600	76450	178836	161973	117511	99024
Crismon	SIU	4	135595	69721	134839	117961	177999	41914	209026	154712	111692	73542	175928	159064	114603	96115
Scottsdale	SIU	4	131837	65964	131081	114204	174241	38156	205268	150954	107934	69784	172170	155307	110845	92358
Riverview	SIU	4	126509	60635	125753	108875	168913	32828	199940	145626	102606	64456	166842	149978	105517	87029
Canal System 2	SIU	4	113098	47224	112342	95464	155502	19416	186528	132215	89194	51045	153431	136567	92105	73618
Start (Sedentary)			150066	84193	149311	132433	192471	56385	223497	169183	126163	88013	190399	173536	129074	110587
Coyote	Buffer	4	145385	79511	144629	127751	187789	51704	218816	164502	121482	83332	185718	168854	124393	105905
Lehi	Buffer	4	107382	41508	106626	89749	149786	13701	180813	126499	83479	45329	147715	130851	86390	67903
Crismon	Buffer	4	93975	28102	93219	76342	136379	293.91	167406	113092	70072	31922	134308	117445	72983	54496
Scottsdale	Buffer	4	76956	11082	76200	59323	119360	-16725	150387	96073	53053	14903	117289	100425	55964	37477
Riverview	Buffer	4	35556	-30317	34801	17923	77961	-58125	108987	54673	11653	-26497	75889	59026	14564	-3923
Canal System 2	Buffer	4	-7854	-73728	-8610	-25487	34550	-101535	65577	11263	-31757	-69907	32479	15615	-28846	-47333

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1014 Plant 1	1015 Plant 1	1016 Plant 1	1017 Plant 1	1018 Plant 1	1019 Plant 1	1020 Plant 1	1021 Plant 1	1022 Plant 1	1023 Plant 1	1024 Plant 1	1025 Plant 1	1026 Plant 1	1027 Plant 1
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	SIU	3	66029	210988	104613	208525	86574	86532	190695	103396	109245	73643	180353	95545	133009	136549
Lehi	SIU	3	58377	203335	96960	200872	78921	78879	183043	95743	101593	65990	172700	87892	125356	128897
Crismon	SIU	3	56195	201154	94779	198691	76740	76698	180861	93562	99411	63809	170519	85711	123175	126715
Scottsdale	SIU	3	53377	198336	91961	195872	73922	73880	178043	90743	96593	60990	167701	82892	120356	123897
Riverview	SIU	3	49381	194339	87965	191876	69925	69883	174047	86747	92597	56994	163705	78896	116360	119901
Canal System 2	SIU	3	39323	184281	77906	181818	59867	59825	163988	76689	82539	46936	153646	68838	106302	109842
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	Buffer	3	63538	208496	102122	206033	84082	84040	188204	100904	106754	71151	177862	93053	130517	134058
Lehi	Buffer	3	35036	179994	73620	177531	55580	55538	159702	72402	78252	42649	149360	64551	102015	105556
Crismon	Buffer	3	24981	169939	63564	167476	45525	45483	149647	62347	68197	32594	139304	54496	91960	95501
Scottsdale	Buffer	3	12216	157175	50800	154712	32761	32719	136882	49583	55432	19830	126540	41731	79196	82736
Riverview	Buffer	3	-18833	126125	19750	123662	1711	1669.1	105832	18533	24383	-11220	95490	10682	48146	51687
Canal System 2	Buffer	3	-51391	93567	-12807	91104	-30847	-30889	73275	-14025	-8175	-43778	62933	-21876	15588	19129
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	SIU	4	65690	210648	104273	208185	86234	86192	190355	103056	108906	73303	180013	95205	132669	136209
Lehi	SIU	4	55486	200444	94070	197981	76030	75988	180152	92852	98702	63099	169810	85001	122465	126006
Crismon	SIU	4	52578	197536	91161	195073	73122	73080	177243	89944	95794	60191	166901	82093	119557	123097
Scottsdale	SIU	4	48820	193778	87404	191315	69364	69322	173486	86186	92036	56433	163144	78335	115799	119340
Riverview	SIU	4	43492	188450	82075	185987	64036	63994	168157	80858	86708	51105	157815	73007	110471	114011
Canal System 2	SIU	4	30080	175039	68664	172576	50625	50583	154746	67447	73296	37694	144404	59595	97060	100600
Start (Sedentary)			67049	212007	105633	209544	87594	87552	191715	104415	110265	74662	181373	96564	134028	137569
Coyote	Buffer	4	62368	207326	100951	204863	82912	82870	187033	99734	105584	69981	176691	91883	129347	132887
Lehi	Buffer	4	24365	169323	62948	166860	44909	44867	149031	61731	67581	31978	138688	53880	91344	94885
Crismon	Buffer	4	10958	155916	49542	153453	31502	31460	135624	48324	54174	18571	125282	40473	77937	81478
Scottsdale	Buffer	4	-6061	138897	32522	136434	14483	14441	118605	31305	37155	1551.9	108262	23454	60918	64459
Riverview	Buffer	4	-47461	97497	-8877	95034	-26916	-26958	77205	-10095	-4245	-39848	66863	-17946	19518	23059
Canal System 2	Buffer	4	-90871	54087	-52288	51624	-70327	-70369	33795	-53505	-47655	-83258	23452	-61356	-23892	-20351

System	Acreage Method	Acre-feet	1028 Plant 1	1029 Plant 1	1030 Plant 1	1031 Plant 1	1032 Plant 1	1033 Plant 1	1034 Plant 1	1035 Plant 1	1036 Plant 1	1037 Plant 1	1038 Plant 1	1039 Plant 1	1040 Plant 1	1041 Plant 1
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	SIU	3	108896	128208	135892	128684	142973	116075	102668	75168	85678	114340	114605	72593	98441	69598
Lehi	SIU	3	101243	120556	128239	121032	135320	108422	95015	67515	78025	106687	106953	64940	90789	61945
Crismon	SIU	3	99062	118374	126058	118850	133139	106241	92834	65334	75844	104506	104771	62759	88607	59764
Scottsdale	SIU	3	96243	115556	123239	116032	130321	103423	90016	62516	73026	101687	101953	59941	85789	56946
Riverview	SIU	3	92247	111560	119243	112036	126324	99426	86019	58520	69030	97691	97957	55945	81793	52950
Canal System 2	SIU	3	82189	101502	109185	101977	116266	89368	75961	48461	58971	87633	87899	45886	71735	42891
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	Buffer	3	106404	125717	133400	126193	140481	113583	100176	72677	83187	111848	112114	70102	95950	67107
Lehi	Buffer	3	77902	97215	104898	97691	111979	85081	71674	44174	54685	83346	83612	41599	67448	38605
Crismon	Buffer	3	67847	87160	94843	87636	101924	75026	61619	34119	44629	73291	73557	31544	57393	28549
Scottsdale	Buffer	3	55082	74395	82078	74871	89160	62262	48855	21355	31865	60526	60792	18780	44628	15785
Riverview	Buffer	3	24033	43346	51029	43821	58110	31212	17805	-9695	815.38	29477	29743	-12270	13579	-15265
Canal System 2	Buffer	3	-8525	10788	18471	11264	25552	-1346	-14753	-42253	-31742	-3081	-2815	-44828	-18979	-47822
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	SIU	4	108556	127869	135552	128344	142633	115735	102328	74828	85338	114000	114266	72253	98102	69258
Lehi	SIU	4	98352	117665	125348	118141	132429	105531	92124	64625	75135	103796	104062	62050	87898	59055
Crismon	SIU	4	95444	114757	122440	115232	129521	102623	89216	61716	72226	100888	101154	59141	84990	56146
Scottsdale	SIU	4	91686	110999	118682	111475	125763	98865	85458	57959	68469	97130	97396	55384	81232	52389
Riverview	SIU	4	86358	105671	113354	106146	120435	93537	80130	52630	63140	91802	92068	50055	75904	47060
Canal System 2	SIU	4	72946	92259	99942	92735	107024	80126	66719	39219	49729	78390	78656	36644	62492	33649
Start (Sedentary)			109915	129228	136911	129704	143993	117095	103688	76188	86698	115359	115625	73613	99461	70618
Coyote	Buffer	4	105234	124547	132230	125022	139311	112413	99006	71506	82016	110678	110944	68931	94780	65936
Lehi	Buffer	4	67231	86544	94227	87020	101308	74410	61003	33503	44013	72675	72941	30928	56777	27933
Crismon	Buffer	4	53824	73137	80820	73613	87901	61003	47596	20097	30607	59268	59534	17522	43370	14527
Scottsdale	Buffer	4	36805	56118	63801	56594	70882	43984	30577	3077.4	13587	42249	42515	502.33	26351	-2493
Riverview	Buffer	4	-4595	14718	22401	15194	29483	2584.6	-10822	-38322	-27812	849.26	1115.2	-40897	-15049	-43892
Canal System 2	Buffer	4	-48005	-28692	-21009	-28216	-13928	-40826	-54233	-81733	-71223	-42561	-42295	-84308	-58459	-87303

System	Acreage Method	Acre-feet	1042 Plant 1	1043 Plant 1	1044 Plant 1	1045 Plant 1	1046 Plant 1	1047 Plant 1	1048 Plant 1	1049 Plant 1	1050 Plant 1	1051 Plant 1	1052 Plant 1	1053 Plant 1	1054 Plant 1	1055 Plant 1
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	SIU	3	128628	139614	76596	169367	113696	181725	98805	133345	160327	118678	256135	121785	204158	108784
Lehi	SIU	3	120976	131961	68943	161714	106043	174072	91153	125692	152674	111025	248482	114132	196506	101131
Crismon	SIU	3	118794	129780	66762	159533	103862	171891	88971	123511	150493	108844	246301	111951	194324	98950
Scottsdale	SIU	3	115976	126962	63943	156715	101044	169072	86153	120692	147674	106026	243483	109133	191506	96131
Riverview	SIU	3	111980	122966	59947	152719	97047	165076	82157	116696	143678	102029	239487	105136	187510	92135
Canal System 2	SIU	3	101921	112907	49889	142660	86989	155018	72098	106638	133620	91971	229428	95078	177451	82077
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	Buffer	3	126137	137123	74104	166876	111204	179233	96314	130853	157835	116186	253644	119293	201667	106292
Lehi	Buffer	3	97635	108621	45602	138374	82702	150731	67812	102351	129333	87684	225141	90791	173165	77790
Crismon	Buffer	3	87580	98565	35547	128318	72647	140676	57757	92296	119278	77629	215086	80736	163110	67735
Scottsdale	Buffer	3	74815	85801	22782	115554	59883	127911	44992	79531	106513	64865	202322	67972	150345	54971
Riverview	Buffer	3	43765	54751	-8267	84504	28833	96862	13943	48482	75464	33815	171272	36922	119295	23921
Canal System 2	Buffer	3	11208	22194	-40825	51947	-3725	64304	-18615	15924	42906	1257.4	138714	4364.2	86738	-8637
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	SIU	4	128288	139274	76256	169027	113356	181385	98465	133005	159987	118338	255795	121445	203818	108444
Lehi	SIU	4	118085	129071	66052	158824	103152	171181	88262	122801	149783	108134	245592	111241	193615	98240
Crismon	SIU	4	115176	126162	63144	155915	100244	168273	85353	119893	146875	105226	242683	108333	190706	95332
Scottsdale	SIU	4	111419	122405	59386	152158	96486	164515	81596	116135	143117	101468	238926	104575	186949	91574
Riverview	SIU	4	106090	117076	54058	146829	91158	159187	76267	110807	137789	96140	233597	99247	181620	86246
Canal System 2	SIU	4	92679	103665	40646	133418	77747	145775	62856	97395	124377	82729	220186	85836	168209	72835
Start (Sedentary)			129648	140634	77615	170387	114715	182744	99825	134364	161346	119698	257155	122805	205178	109803
Coyote	Buffer	4	124966	135952	72934	165705	110034	178063	95143	129683	156665	115016	252473	118123	200496	105122
Lehi	Buffer	4	86964	97949	34931	127702	72031	140060	57141	91680	118662	77013	214470	80120	162494	67119
Crismon	Buffer	4	73557	84543	21524	114296	58624	126653	43734	78273	105255	63606	201064	66713	149087	53712
Scottsdale	Buffer	4	56538	67523	4504.8	97276	41605	109634	26715	61254	88236	46587	184044	49694	132068	36693
Riverview	Buffer	4	15138	26124	-36895	55877	205.5	68234	-14685	19854	46836	5187.7	142645	8294.5	90668	-4707
Canal System 2	Buffer	4	-28272	-17287	-80305	12466	-43205	24824	-58095	-23556	3425.8	-38223	99234	-35116	47258	-48117

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1056 Plant 1	1057 Plant 1	1058 Plant 1	1059 Plant 1	1060 Plant 1	1061 Plant 1	1062 Plant 1	1063 Plant 1	1064 Plant 1	1065 Plant 1	1066 Plant 1	1067 Plant 1	1068 Plant 1	1069 Plant 1
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	SIU	3	163965	146794	114885	102752	166960	154994	84489	167100	124766	144051	151062	42434	109889	100009
Lehi	SIU	3	156312	139141	107233	95099	159307	147342	76836	159447	117113	136398	143409	34782	102237	92356
Crismon	SIU	3	154131	136960	105051	92918	157126	145160	74655	157266	114932	134217	141228	32600	100055	90175
Scottsdale	SIU	3	151313	134141	102233	90100	154308	142342	71836	154448	112113	131398	138410	29782	97237	87357
Riverview	SIU	3	147317	130145	98237	86103	150312	138346	67840	150452	108117	127402	134413	25786	93241	83360
Canal System 2	SIU	3	137258	120087	88178	76045	140253	128288	57782	140393	98059	117344	124355	15727	83182	73302
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	Buffer	3	161474	144302	112394	100260	164469	152503	81997	164609	122274	141559	148570	39943	107398	97517
Lehi	Buffer	3	132972	115800	83892	71758	135966	124001	53495	136106	93772	113057	120068	11441	78896	69015
Crismon	Buffer	3	122916	105745	73837	61703	125911	113946	43440	126051	83717	103002	110013	1385.5	68841	58960
Scottsdale	Buffer	3	110152	92980	61072	48939	113147	101181	30676	113287	70953	90237	97249	-11379	56076	46196
Riverview	Buffer	3	79102	61931	30023	17889	82097	70132	-374.2	82237	39903	59188	66199	-42429	25026	15146
Canal System 2	Buffer	3	46545	29373	-2535	-14669	49539	37574	-32932	49679	7345.1	26630	33641	-74986	-7531	-17412
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	SIU	4	163625	146454	114545	102412	166620	154655	84149	166760	124426	143711	150722	42094	109549	99669
Lehi	SIU	4	153422	136250	104342	92208	156417	144451	73945	156557	114222	133507	140518	31891	99346	89465
Crismon	SIU	4	150513	133342	101433	89300	153508	141543	71037	153648	111314	130599	137610	28982	96437	86557
Scottsdale	SIU	4	146756	129584	97676	85542	149751	137785	67279	149891	107556	126841	133852	25225	92680	82799
Riverview	SIU	4	141427	124256	92347	80214	144422	132457	61951	144562	102228	121513	128524	19896	87351	77471
Canal System 2	SIU	4	128016	110844	78936	66803	131011	119045	48540	131151	88817	108101	115113	6485.1	73940	64060
Start (Sedentary)			164985	147813	115905	103772	167980	156014	85508	168120	125785	145070	152082	43454	110909	101029
Coyote	Buffer	4	160303	143132	111223	99090	163298	151333	80827	163438	121104	140389	147400	38772	106227	96347
Lehi	Buffer	4	122300	105129	73221	61087	125295	113330	42824	125435	83101	102386	109397	769.5	68225	58344
Crismon	Buffer	4	108894	91722	59814	47680	111889	99923	29417	112029	69694	88979	95990	-12637	54818	44937
Scottsdale	Buffer	4	91874	74703	42795	30661	94869	82904	12398	95009	52675	71960	78971	-29656	37799	27918
Riverview	Buffer	4	50475	33303	1395.1	-10738	53470	41504	-29002	53610	11275	30560	37572	-71056	-3601	-13481
Canal System 2	Buffer	4	7064.5	-10107	-42015	-54149	10059	-1906	-72412	10199	-32135	-12850	-5839	-1E+05	-47011	-56892

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1070 Plant 1	1071 Plant 1	1072 Plant 1	1073 Plant 1	1074 Plant 1	1075 Plant 1	1076 Plant 1	1077 Plant 1	1078 Plant 1	1079 Plant 1	1080 Plant 1	1081 Plant 1	1082 Plant 1	1083 Plant 1
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	SIU	3	106195	143057	121533	94467	117306	120889	169171	163014	126753	225458	187141	84181	216628	133135
Lehi	SIU	3	98542	135404	113880	86814	109654	113236	161519	155361	119100	217806	179488	76528	208975	125482
Crismon	SIU	3	96361	133223	111699	84633	107472	111055	159337	153180	116919	215624	177307	74347	206794	123301
Scottsdale	SIU	3	93542	130405	108881	81815	104654	108237	156519	150361	114101	212806	174488	71529	203975	120482
Riverview	SIU	3	89546	126408	104884	77818	100658	104241	152523	146365	110104	208810	170492	67532	199979	116486
Canal System 2	SIU	3	79488	116350	94826	67760	90600	94182	142464	136307	100046	198751	160434	57474	189921	106428
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	Buffer	3	103703	140565	119041	91975	114815	118398	166680	160522	124261	222967	184649	81689	214136	130643
Lehi	Buffer	3	75201	112063	90539	63473	86313	89896	138178	132020	95759	194465	156147	53187	185634	102141
Crismon	Buffer	3	65146	102008	80484	53418	76258	79840	128123	121965	85704	184410	146092	43132	175579	92086
Scottsdale	Buffer	3	52381	89244	67720	40654	63493	67076	115358	109200	72940	171645	133327	30368	162815	79321
Riverview	Buffer	3	21332	58194	36670	9604.1	32444	36026	84308	78151	41890	140596	102278	-682.1	131765	48272
Canal System 2	Buffer	3	-11226	25636	4112.3	-22954	-114.1	3468.5	51751	45593	9332.4	108038	69720	-33240	99207	15714
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	SIU	4	105855	142717	121193	94127	116967	120549	168831	162674	126413	225118	186801	83841	216288	132795
Lehi	SIU	4	95651	132513	110989	83923	106763	110346	158628	152470	116209	214915	176597	73637	206084	122591
Crismon	SIU	4	92743	129605	108081	81015	103855	107437	155719	149562	113301	212006	173689	70729	203176	119683
Scottsdale	SIU	4	88985	125847	104323	77257	100097	103680	151962	145804	109543	208249	169931	66971	199418	115925
Riverview	SIU	4	83657	120519	98995	71929	94769	98351	146633	140476	104215	202920	164603	61643	194090	110597
Canal System 2	SIU	4	70245	107108	85584	58518	81357	84940	133222	127064	90804	189509	151191	48232	180679	97185
Start (Sedentary)			107214	144077	122553	95487	118326	121909	170191	164033	127773	226478	188160	85200	217647	134154
Coyote	Buffer	4	102533	139395	117871	90805	113645	117227	165509	159352	123091	221796	183479	80519	212966	129473
Lehi	Buffer	4	64530	101392	79868	52802	75642	79224	127507	121349	85088	183794	145476	42516	174963	91470
Crismon	Buffer	4	51123	87985	66461	39395	62235	65818	114100	107942	71681	170387	132069	29109	161556	78063
Scottsdale	Buffer	4	34104	70966	49442	22376	45216	48798	97081	90923	54662	153368	115050	12090	144537	61044
Riverview	Buffer	4	-7296	29567	8042.6	-19023	3816.2	7398.8	55681	49523	13263	111968	73650	-29310	103137	19644
Canal System 2	Buffer	4	-50706	-13844	-35368	-62434	-39594	-36012	12271	6112.8	-30148	68558	30240	-72720	59727	-23766

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1084 Plant 1	1085 Plant 1	1086 Plant 1	1087 Plant 1	1088 Plant 1	1089 Plant 1	1090 Plant 1	1091 Plant 1	1092 Plant 1	1093 Plant 1	1094 Plant 1	1095 Plant 1	1096 Plant 1	1097 Plant 1
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	SIU	3	149858	82571	71264	266911	91780	218587	72887	78849	160830	108392	81970	145604	142455	82082
Lehi	SIU	3	142206	74919	63611	259258	84127	210934	65234	71196	153178	100739	74317	137951	134802	74429
Crismon	SIU	3	140024	72737	61430	257077	81946	208753	63053	69015	150996	98558	72136	135770	132621	72248
Scottsdale	SIU	3	137206	69919	58611	254259	79128	205935	60235	66197	148178	95740	69317	132952	129803	69429
Riverview	SIU	3	133210	65923	54615	250263	75131	201938	56238	62200	144182	91743	65321	128955	125807	65433
Canal System 2	SIU	3	123151	55864	44557	240204	65073	191880	46180	52142	134123	81685	55263	118897	115748	55375
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	Buffer	3	147367	80080	68772	264420	89288	216095	70395	76357	158339	105900	79478	143112	139964	79590
Lehi	Buffer	3	118865	51578	40270	235917	60786	187593	41893	47855	129837	77398	50976	114610	111462	51088
Crismon	Buffer	3	108810	41523	30215	225862	50731	177538	31838	37800	119782	67343	40921	104555	101406	41033
Scottsdale	Buffer	3	96045	28758	17450	213098	37967	164774	19074	25036	107017	54579	28156	91791	88642	28268
Riverview	Buffer	3	64996	-2291	-13599	182048	6917.1	133724	-11976	-6014	75968	23529	-2893	60741	57592	-2781
Canal System 2	Buffer	3	32438	-34849	-46157	149490	-25641	101166	-44534	-38572	43410	-9029	-35451	28183	25035	-35339
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	SIU	4	149518	82231	70924	266571	91440	218247	72547	78509	160490	108052	81630	145264	142115	81742
Lehi	SIU	4	139315	72028	60720	256368	81236	208043	62343	68305	150287	97848	71426	135060	131912	71538
Crismon	SIU	4	136406	69119	57812	253459	78328	205135	59435	65397	147378	94940	68518	132152	129003	68630
Scottsdale	SIU	4	132649	65362	54054	249702	74570	201377	55677	61639	143621	91182	64760	128394	125246	64872
Riverview	SIU	4	127320	60033	48726	244373	69242	196049	50349	56311	138292	85854	59432	123066	119917	59544
Canal System 2	SIU	4	113909	46622	35314	230962	55831	182638	36938	42900	124881	72443	46020	109655	106506	46132
Start (Sedentary)			150878	83591	72283	267931	92800	219607	73907	79868	161850	109411	82989	146624	143475	83101
Coyote	Buffer	4	146196	78909	67602	263249	88118	214925	69225	75187	157168	104730	78308	141942	138793	78420
Lehi	Buffer	4	108194	40907	29599	225246	50115	176922	31222	37184	119166	66727	40305	103939	100790	40417
Crismon	Buffer	4	94787	27500	16192	211840	36708	163515	17815	23777	105759	53320	26898	90532	87384	27010
Scottsdale	Buffer	4	77768	10481	-827.2	194820	19689	146496	796.22	6758	88740	36301	9878.9	73513	70364	9990.8
Riverview	Buffer	4	36368	-30919	-42227	153421	-21710	105097	-40603	-34642	47340	-5099	-31521	32114	28965	-31409
Canal System 2	Buffer	4	-7042	-74329	-85637	110010	-65121	61686	-84014	-78052	3929.6	-48509	-74931	-11297	-14446	-74819

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1098 Plant 1	1099 Plant 1	Total Deficits	1000 Silk 1	1001 Silk 1	1002 Silk 1	1003 Silk 1	1004 Silk 1	1005 Silk 1	1006 Silk 1	1007 Silk 1	1008 Silk 1	1009 Silk 1
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	SIU	3	95265	74776	0	149296	83313	148539	131633	191771	55459	222849	168445	125353	87140
Lehi	SIU	3	87612	67124	0	141643	75660	140886	123980	184118	47806	215196	160792	117700	79487
Crismon	SIU	3	85431	64942	0	139462	73479	138705	121799	181937	45625	213015	158611	115519	77306
Scottsdale	SIU	3	82612	62124	0	136644	70661	135887	118981	179118	42807	210196	155792	112701	74488
Riverview	SIU	3	78616	58128	0	132647	66664	131890	114985	175122	38811	206200	151796	108705	70491
Canal System 2	SIU	3	68558	48069	0	122589	56606	121832	104926	165064	28752	196142	141738	98646	60433
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	Buffer	3	92773	72285	0	146804	80821	146047	129142	189279	52968	220357	165953	122862	84648
Lehi	Buffer	3	64271	43783	0	118302	52319	117545	100640	160777	24465	191855	137451	94359	56146
Crismon	Buffer	3	54216	33728	0	108247	42264	107490	90584	150722	14410	181800	127396	84304	46091
Scottsdale	Buffer	3	41452	20963	1	95483	29500	94726	77820	137958	1645.9	169036	114631	71540	33327
Riverview	Buffer	3	10402	-10087	18	64433	-1550	63676	46770	106908	-29404	137986	83582	40490	2277.1
Canal System 2	Buffer	3	-22156	-42644	46	31875	-34108	31118	14213	74350	-61962	105428	51024	7932.5	-30281
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	SIU	4	94925	74436	0	148956	82973	148199	131293	191431	55119	222509	168105	125013	86800
Lehi	SIU	4	84721	64233	0	138752	72769	137995	121090	181227	44916	212305	157901	114810	76596
Crismon	SIU	4	81813	61324	0	135844	69861	135087	118181	178319	42007	209397	154993	111901	73688
Scottsdale	SIU	4	78055	57567	0	132086	66103	131329	114424	174561	38250	205639	151235	108144	69930
Riverview	SIU	4	72727	52238	0	126758	60775	126001	109095	169233	32921	200311	145907	102815	64602
Canal System 2	SIU	4	59316	38827	0	113347	47364	112590	95684	155822	19510	186900	132495	89404	51191
Start (Sedentary)			96284	75796		150316	84333	149559	132653	192790	56479	223868	169464	126373	88160
Coyote	Buffer	4	91603	71114	0	145634	79651	144877	127971	188109	51797	219187	164783	121691	83478
Lehi	Buffer	4	53600	33112	0	107631	41648	106874	89968	150106	13794	181184	126780	83688	45475
Crismon	Buffer	4	40193	19705	1	94224	28241	93467	76562	136699	387.55	167777	113373	70282	32068
Scottsdale	Buffer	4	23174	2685.5	5	77205	11222	76448	59542	119680	-16632	150758	96354	53262	15049
Riverview	Buffer	4	-18226	-38714	40	35806	-30177	35049	18143	78280	-58031	109358	54954	11863	-26350
Canal System 2	Buffer	4	-61636	-82124	75	-7605	-73588	-8362	-25268	34870	-1E+05	65948	11544	-31548	-69761

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1010 Silk 1	1011 Silk 1	1012 Silk 1	1013 Silk 1	1014 Silk 1	1015 Silk 1	1016 Silk 1	1017 Silk 1	1018 Silk 1	1019 Silk 1	1020 Silk 1	1021 Silk 1	1022 Silk 1	1023 Silk 1
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	SIU	3	189696	172804	128269	109751	66141	211340	104789	208873	86719	86677	191014	103569	109429	73767
Lehi	SIU	3	182043	165151	120616	102098	58488	203687	97136	201220	79067	79025	183361	95916	101776	66114
Crismon	SIU	3	179862	162970	118435	99917	56307	201506	94955	199039	76885	76843	181180	93735	99595	63933
Scottsdale	SIU	3	177044	160152	115617	97099	53489	198688	92136	196220	74067	74025	178361	90917	96776	61114
Riverview	SIU	3	173047	156156	111620	93102	49492	194691	88140	192224	70071	70029	174365	86921	92780	57118
Canal System 2	SIU	3	162989	146097	101562	83044	39434	184633	78082	182166	60012	59970	164307	76862	82722	47060
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	Buffer	3	187204	170313	125777	107259	63649	208848	102297	206381	84228	84186	188522	101078	106937	71275
Lehi	Buffer	3	158702	141811	97275	78757	35147	180346	73795	177879	55726	55684	160020	72575	78435	42773
Crismon	Buffer	3	148647	131755	87220	68702	25092	170291	63740	167824	45671	45629	149965	62520	68380	32718
Scottsdale	Buffer	3	135883	118991	74456	55938	12328	157527	50975	155060	32906	32864	137201	49756	55615	19954
Riverview	Buffer	3	104833	87941	43406	24888	-18722	126477	19926	124010	1856.5	1814.5	106151	18706	24566	-11096
Canal System 2	Buffer	3	72275	55384	10848	-7670	-51280	93919	-12632	91452	-30701	-30743	73593	-13852	-7992	-43654
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	SIU	4	189356	172464	127929	109411	65801	211000	104449	208533	86379	86337	190674	103229	109089	73427
Lehi	SIU	4	179152	162261	117725	99207	55597	200796	94245	198329	76176	76134	180470	93026	98885	63223
Crismon	SIU	4	176244	159352	114817	96299	52689	197888	91337	195421	73267	73225	177562	90117	95977	60315
Scottsdale	SIU	4	172486	155595	111059	92541	48931	194130	87579	191663	69510	69468	173804	86360	92219	56557
Riverview	SIU	4	167158	150266	105731	87213	43603	188802	82251	186335	64181	64139	168476	81031	86891	51229
Canal System 2	SIU	4	153747	136855	92320	73802	30192	175391	68839	172924	50770	50728	155065	67620	73479	37818
Start (Sedentary)			190716	173824	129289	110771	67161	212360	105808	209892	87739	87697	192033	104589	110448	74786
Coyote	Buffer	4	186034	169142	124607	106089	62479	207678	101127	205211	83057	83015	187352	99907	105767	70105
Lehi	Buffer	4	148031	131139	86604	68086	24476	169675	63124	167208	45055	45013	149349	61904	67764	32102
Crismon	Buffer	4	134624	117733	73197	54679	11069	156268	49717	153801	31648	31606	135942	48498	54357	18695
Scottsdale	Buffer	4	117605	100713	56178	37660	-5950	139249	32698	136782	14629	14587	118923	31478	37338	1675.9
Riverview	Buffer	4	76206	59314	14779	-3739	-47349	97850	-8702	95382	-26771	-26813	77523	-9921	-4062	-39724
Canal System 2	Buffer	4	32795	15903	-28632	-47150	-90760	54439	-52112	51972	-70181	-70223	34113	-53332	-47472	-83134

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1024 Silk 1	1025 Silk 1	1026 Silk 1	1027 Silk 1	1028 Silk 1	1029 Silk 1	1030 Silk 1	1031 Silk 1	1032 Silk 1	1033 Silk 1	1034 Silk 1	1035 Silk 1	1036 Silk 1	1037 Silk 1
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	SIU	3	180654	95705	133231	136778	109078	128423	136119	128900	143212	116269	102840	75295	85822	114531
Lehi	SIU	3	173002	88052	125579	129125	101425	120770	128466	121247	135559	108617	95187	67642	78169	106878
Crismon	SIU	3	170820	85871	123397	126944	99244	118589	126285	119066	133378	106435	93006	65461	75988	104697
Scottsdale	SIU	3	168002	83053	120579	124126	96426	115771	123467	116247	130560	103617	90188	62642	73170	101879
Riverview	SIU	3	164006	79056	116583	120129	92430	111775	119470	112251	126564	99621	86192	58646	69174	97883
Canal System 2	SIU	3	153947	68998	106524	110071	82371	101716	109412	102193	116505	89562	76133	48588	59115	87824
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	Buffer	3	178163	93213	130740	134286	106587	125932	133627	126408	140721	113778	100349	72803	83331	112040
Lehi	Buffer	3	149661	64711	102238	105784	78085	97429	105125	97906	112218	85276	71846	44301	54829	83538
Crismon	Buffer	3	139606	54656	92183	95729	68029	87374	95070	87851	102163	75221	61791	34246	44773	73482
Scottsdale	Buffer	3	126841	41892	79418	82965	55265	74610	82306	75087	89399	62456	49027	21481	32009	60718
Riverview	Buffer	3	95792	10842	48368	51915	24215	43560	51256	44037	58349	31407	17977	-9568	959.36	29668
Canal System 2	Buffer	3	63234	-21716	15811	19357	-8342	11002	18698	11479	25791	-1151	-14581	-42126	-31598	-2889
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	SIU	4	180314	95365	132891	136438	108738	128083	135779	128560	142872	115929	102500	74955	85482	114191
Lehi	SIU	4	170111	85161	122688	126234	98535	117880	125575	118356	132669	105726	92297	64751	75279	103988
Crismon	SIU	4	167202	82253	119779	123326	95626	114971	122667	115448	129760	102817	89388	61843	72370	101079
Scottsdale	SIU	4	163445	78495	116022	119568	91869	111214	118909	111690	126003	99060	85631	58085	68613	97322
Riverview	SIU	4	158116	73167	110693	114240	86540	105885	113581	106362	120674	93731	80302	52757	63284	91993
Canal System 2	SIU	4	144705	59756	97282	100829	73129	92474	100170	92951	107263	80320	66891	39345	49873	78582
Start (Sedentary)			181674	96725	134251	137797	110098	129443	137139	129919	144232	117289	103860	76314	86842	115551
Coyote	Buffer	4	176992	92043	129569	133116	105416	124761	132457	125238	139550	112607	99178	71633	82160	110869
Lehi	Buffer	4	138990	54040	91567	95113	67413	86758	94454	87235	101547	74605	61175	33630	44157	72866
Crismon	Buffer	4	125583	40633	78160	81706	54007	73352	81047	73828	88141	61198	47769	20223	30751	59460
Scottsdale	Buffer	4	108564	23614	61141	64687	36987	56332	64028	56809	71121	44179	30749	3203.9	13731	42440
Riverview	Buffer	4	67164	-17785	19741	23287	-4412	14933	22629	15409	29722	2779.1	-10650	-38196	-27668	1040.8
Canal System 2	Buffer	4	23754	-61196	-23669	-20123	-47823	-28478	-20782	-28001	-13689	-40631	-54061	-81606	-71079	-42370

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1038 Silk 1	1039 Silk 1	1040 Silk 1	1041 Silk 1	1042 Silk 1	1043 Silk 1	1044 Silk 1	1045 Silk 1	1046 Silk 1	1047 Silk 1	1048 Silk 1	1049 Silk 1	1050 Silk 1	1051 Silk 1
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	SIU	3	114797	72715	98607	69715	128844	139848	76724	169650	113886	182028	98971	133568	160594	118877
Lehi	SIU	3	107145	65063	90954	62063	121191	132195	69072	161997	106234	174375	91318	125915	152942	111224
Crismon	SIU	3	104963	62881	88773	59881	119010	130014	66890	159816	104052	172194	89137	123734	150760	109043
Scottsdale	SIU	3	102145	60063	85954	57063	116191	127196	64072	156998	101234	169376	86319	120915	147942	106225
Riverview	SIU	3	98149	56067	81958	53067	112195	123199	60076	153002	97238	165380	82323	116919	143946	102228
Canal System 2	SIU	3	88091	46008	71900	43009	102137	113141	50018	142943	87179	155321	72264	106861	133888	92170
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	Buffer	3	112306	70224	96115	67224	126352	137356	74233	167159	111395	179537	96480	131076	158103	116385
Lehi	Buffer	3	83804	41722	67613	38722	97850	108854	45731	138657	82893	151034	67977	102574	129601	87883
Crismon	Buffer	3	73749	31667	57558	28667	87795	98799	35676	128601	72838	140979	57922	92519	119546	77828
Scottsdale	Buffer	3	60984	18902	44794	15902	75030	86035	22911	115837	60073	128215	45158	79755	106781	65064
Riverview	Buffer	3	29935	-12148	13744	-15147	43981	54985	-8138	84787	29024	97165	14108	48705	75732	34014
Canal System 2	Buffer	3	-2623	-44705	-18814	-47705	11423	22427	-40696	52230	-3534	64607	-18450	16147	43174	1456.1
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	SIU	4	114458	72375	98267	69376	128504	139508	76385	169310	113546	181688	98631	133228	160255	118537
Lehi	SIU	4	104254	62172	88063	59172	118300	129304	66181	159107	103343	171485	88428	123024	150051	108333
Crismon	SIU	4	101346	59263	85155	56264	115392	126396	63273	156198	100434	168576	85519	120116	147143	105425
Scottsdale	SIU	4	97588	55506	81397	52506	111634	122638	59515	152441	96677	164819	81762	116358	143385	101667
Riverview	SIU	4	92260	50177	76069	47178	106306	117310	54187	147112	91348	159490	76433	111030	138057	96339
Canal System 2	SIU	4	78848	36766	62658	33766	92894	103899	40775	133701	77937	146079	63022	97619	124645	82928
Start (Sedentary)			115817	73735	99626	70735	129863	140867	77744	170670	114906	183048	99991	134587	161614	119896
Coyote	Buffer	4	111136	69053	94945	66054	125182	136186	73063	165988	110224	178366	95309	129906	156933	115215
Lehi	Buffer	4	73133	31051	56942	28051	87179	98183	35060	127985	72222	140363	57306	91903	118930	77212
Crismon	Buffer	4	59726	17644	43535	14644	73772	84776	21653	114579	58815	126957	43900	78496	105523	63805
Scottsdale	Buffer	4	42707	624.58	26516	-2375	56753	67757	4633.7	97559	41796	109937	26880	61477	88504	46786
Riverview	Buffer	4	1307.2	-40775	-14884	-43775	15353	26357	-36766	56160	396.01	68538	-14519	20077	47104	5386.4
Canal System 2	Buffer	4	-42103	-84185	-58294	-87185	-28057	-17053	-80176	12749	-43014	25127	-57930	-23333	3693.8	-38024

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1052 Silk 1	1053 Silk 1	1054 Silk 1	1055 Silk 1	1056 Silk 1	1057 Silk 1	1058 Silk 1	1059 Silk 1	1060 Silk 1	1061 Silk 1	1062 Silk 1	1063 Silk 1	1064 Silk 1	1065 Silk 1
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	SIU	3	256562	121989	204499	108966	164239	147039	115078	102924	167239	155254	84631	167379	124975	144291
Lehi	SIU	3	248909	114336	196846	101313	156586	139386	107425	95271	159586	147601	76978	159727	117322	136639
Crismon	SIU	3	246728	112155	194665	99132	154405	137205	105244	93090	157405	145420	74797	157545	115141	134457
Scottsdale	SIU	3	243910	109337	191847	96314	151587	134387	102426	90272	154587	142601	71978	154727	112322	131639
Riverview	SIU	3	239914	105340	187851	92317	147591	130391	98429	86276	150591	138605	67982	150731	108326	127643
Canal System 2	SIU	3	229855	95282	177792	82259	137532	120332	88371	76217	140532	128547	57924	140672	98268	117585
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	Buffer	3	254071	119497	202008	106474	161748	144548	112586	100433	164748	152762	82139	164888	122483	141800
Lehi	Buffer	3	225568	90995	173505	77972	133246	116045	84084	71931	136245	124260	53637	136386	93981	113298
Crismon	Buffer	3	215513	80940	163450	67917	123190	105990	74029	61875	126190	114205	43582	126331	83926	103243
Scottsdale	Buffer	3	202749	68176	150686	55153	110426	93226	61265	49111	113426	101440	30818	113566	71161	90478
Riverview	Buffer	3	171699	37126	119636	24103	79376	62176	30215	18061	82376	70391	-232.2	82516	40112	59429
Canal System 2	Buffer	3	139141	4568.1	87078	-8455	46819	29618	-2343	-14496	49818	37833	-32790	49959	7554	26871
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	SIU	4	256222	121649	204159	108626	163899	146699	114738	102584	166899	154914	84291	167039	124635	143952
Lehi	SIU	4	246019	111445	193956	98422	153696	136496	104534	92381	156696	144710	74087	156836	114431	133748
Crismon	SIU	4	243110	108537	191047	95514	150787	133587	101626	89472	153787	141802	71179	153927	111523	130840
Scottsdale	SIU	4	239353	104779	187290	91756	147030	129830	97868	85715	150030	138044	67421	150170	107765	127082
Riverview	SIU	4	234024	99451	181961	86428	141701	124501	92540	80386	144701	132716	62093	144841	102437	121754
Canal System 2	SIU	4	220613	86040	168550	73017	128290	111090	79129	66975	131290	119304	48682	131430	89025	108342
Start (Sedentary)			257582	123008	205519	109986	165259	148059	116098	103944	168259	156273	85650	168399	125994	145311
Coyote	Buffer	4	252900	118327	200837	105304	160577	143377	111416	99262	163577	151592	80969	163717	121313	140630
Lehi	Buffer	4	214897	80324	162834	67301	122574	105374	73413	61259	125574	113589	42966	125715	83310	102627
Crismon	Buffer	4	201491	66917	149428	53894	109168	91968	60006	47853	112168	100182	29559	112308	69903	89220
Scottsdale	Buffer	4	184471	49898	132408	36875	92148	74948	42987	30833	95148	83163	12540	95289	52884	72201
Riverview	Buffer	4	143072	8498.4	91009	-4524	50749	33549	1587.5	-10566	53749	41763	-28860	53889	11484	30801
Canal System 2	Buffer	4	99661	-34912	47598	-47935	7338.5	-9862	-41823	-53977	10338	-1647	-72270	10479	-31926	-12609

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1066 Silk 1	1067 Silk 1	1068 Silk 1	1069 Silk 1	1070 Silk 1	1071 Silk 1	1072 Silk 1	1073 Silk 1	1074 Silk 1	1075 Silk 1	1076 Silk 1	1077 Silk 1	1078 Silk 1	1079 Silk 1
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	SIU	3	151315	42506	110073	100177	106373	143296	121736	94625	117503	121092	169454	163286	126965	225835
Lehi	SIU	3	143662	34854	102421	92524	98720	135643	114084	86973	109850	113439	161801	155633	119312	218182
Crismon	SIU	3	141481	32672	100239	90343	96539	133462	111902	84791	107669	111258	159620	153452	117131	216001
Scottsdale	SIU	3	138662	29854	97421	87524	93720	130644	109084	81973	104851	108439	156802	150634	114313	213182
Riverview	SIU	3	134666	25858	93425	83528	89724	126648	105088	77977	100854	104443	152805	146637	110317	209186
Canal System 2	SIU	3	124608	15799	83366	73470	79666	116589	95030	67919	90796	94385	142747	136579	100258	199128
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	Buffer	3	148823	40015	107582	97685	103881	140805	119245	92134	115011	118600	166962	160794	124474	223343
Lehi	Buffer	3	120321	11513	79080	69183	75379	112303	90743	63632	86509	90098	138460	132292	95972	194841
Crismon	Buffer	3	110266	1457.7	69025	59128	65324	102247	80688	53577	76454	80043	128405	122237	85916	184786
Scottsdale	Buffer	3	97501	-11307	56260	46364	52560	89483	67923	40812	63690	67278	115641	109473	73152	172021
Riverview	Buffer	3	66452	-42356	25211	15314	21510	58433	36874	9762.7	32640	36229	84591	78423	42102	140972
Canal System 2	Buffer	3	33894	-74914	-7347	-17244	-11048	25876	4315.8	-22795	82.364	3671	52033	45865	9544.6	108414
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	SIU	4	150975	42166	109733	99837	106033	142956	121397	94286	117163	120752	169114	162946	126625	225495
Lehi	SIU	4	140771	31963	99530	89633	95829	132753	111193	84082	106959	110548	158910	152742	116422	215291
Crismon	SIU	4	137863	29054	96621	86725	92921	129844	108285	81174	104051	107640	156002	149834	113513	212383
Scottsdale	SIU	4	134105	25297	92864	82967	89163	126087	104527	77416	100293	103882	152244	146076	109756	208625
Riverview	SIU	4	128777	19968	87535	77639	83835	120758	99199	72088	94965	98554	146916	140748	104427	203297
Canal System 2	SIU	4	115365	6557.3	74124	64228	70424	107347	85787	58676	81554	85142	133505	127337	91016	189885
Start (Sedentary)			152334	43526	111093	101196	107392	144316	122756	95645	118523	122111	170474	164306	127985	226854
Coyote	Buffer	4	147653	38844	106411	96515	102711	139634	118075	90964	113841	117430	165792	159624	123303	222173
Lehi	Buffer	4	109650	841.66	68409	58512	64708	101631	80072	52961	75838	79427	127789	121621	85300	184170
Crismon	Buffer	4	96243	-12565	55002	45105	51301	88225	66665	39554	62431	66020	114382	108214	71894	170763
Scottsdale	Buffer	4	79224	-29584	37983	28086	34282	71205	49646	22535	45412	49001	97363	91195	54874	153744
Riverview	Buffer	4	37824	-70984	-3417	-13314	-7118	29806	8246.1	-18865	4012.7	7601.3	55964	49796	13475	112344
Canal System 2	Buffer	4	-5586	-1E+05	-46827	-56724	-50528	-13605	-35164	-62275	-39398	-35809	12553	6385.2	-29936	68934

System	Acreage Method	Acre-feet	1080 Silk 1	1081 Silk 1	1082 Silk 1	1083 Silk 1	1084 Silk 1	1085 Silk 1	1086 Silk 1	1087 Silk 1	1088 Silk 1	1089 Silk 1	1090 Silk 1	1091 Silk 1	1092 Silk 1	1093 Silk 1
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	SIU	3	187453	84322	216989	133357	150109	82710	71384	267356	91934	218952	73010	78981	161099	108573
Lehi	SIU	3	179800	76670	209336	125705	142456	75057	63731	259703	84281	211299	65357	71329	153446	100921
Crismon	SIU	3	177619	74488	207155	123523	140275	72876	61550	257522	82100	209118	63176	69147	151265	98739
Scottsdale	SIU	3	174801	71670	204337	120705	137457	70058	58731	254704	79282	206299	60357	66329	148447	95921
Riverview	SIU	3	170805	67674	200341	116709	133460	66062	54735	250707	75286	202303	56361	62333	144451	91925
Canal System 2	SIU	3	160746	57615	190282	106650	123402	56003	44677	240649	65227	192245	46303	52274	134392	81867
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	Buffer	3	184962	81831	214498	130866	147617	80219	68892	264864	89443	216460	70518	76490	158608	106082
Lehi	Buffer	3	156459	53329	185996	102364	119115	51717	40390	236362	60940	187958	42016	47988	130106	77580
Crismon	Buffer	3	146404	43274	175940	92309	109060	41661	30335	226307	50885	177903	31961	37933	120050	67525
Scottsdale	Buffer	3	133640	30509	163176	79544	96296	28897	17570	213543	38121	165139	19197	25168	107286	54760
Riverview	Buffer	3	102590	-540.6	132126	48495	65246	-2153	-13479	182493	7071.2	134089	-11853	-5881	76236	23711
Canal System 2	Buffer	3	70032	-33098	99569	15937	32688	-34710	-46037	149935	-25487	101531	-44411	-38439	43679	-8847
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	SIU	4	187113	83982	216649	133017	149769	82370	71044	267016	91594	218612	72670	78641	160759	108234
Lehi	SIU	4	176910	73779	206446	122814	139565	72167	60840	256812	81391	208408	62466	68438	150556	98030
Crismon	SIU	4	174001	70870	203537	119905	136657	69258	57932	253904	78482	205500	59558	65529	147647	95122
Scottsdale	SIU	4	170244	67113	199780	116148	132899	65501	54174	250146	74725	201742	55800	61772	143890	91364
Riverview	SIU	4	164915	61784	194451	110819	127571	60172	48846	244818	69396	196414	50472	56443	138561	86036
Canal System 2	SIU	4	151504	48373	181040	97408	114160	46761	35434	231407	55985	183003	37061	43032	125150	72624
Start (Sedentary)			188473	85342	218009	134377	151129	83730	72403	268376	92954	219971	74029	80001	162119	109593
Coyote	Buffer	4	183791	80660	213327	129695	146447	79048	67722	263694	88272	215290	69348	75319	157437	104912
Lehi	Buffer	4	145788	42658	175324	91693	108444	41045	29719	225691	50269	177287	31345	37317	119434	66909
Crismon	Buffer	4	132382	29251	161918	78286	95037	27639	16312	212284	36863	163880	17938	23910	106028	53502
Scottsdale	Buffer	4	115362	12232	144898	61267	78018	10619	-707.1	195265	19843	146861	918.95	6890.6	89008	36483
Riverview	Buffer	4	73963	-29168	103499	19867	36619	-30780	-42107	153866	-21556	105461	-40481	-34509	47609	-4917
Canal System 2	Buffer	4	30552	-72578	60088	-23543	-6792	-74191	-85517	110455	-64967	62051	-83891	-77919	4198.4	-48327

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1094 Silk 1	1095 Silk 1	1096 Silk 1	1097 Silk 1	1098 Silk 1	1099 Silk 1	Total Deficits	1000 Plant 2	1001 Plant 2	1002 Plant 2	1003 Plant 2	1004 Plant 2	1005 Plant 2
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	SIU	3	82107	145847	142693	82220	95425	74902	0	54271	30000	53992	47774	69894	19755
Lehi	SIU	3	74455	138195	135041	74567	87772	67249	0	46618	22348	46340	40121	62242	12102
Crismon	SIU	3	72273	136013	132859	72386	85591	65068	0	44437	20166	44158	37940	60060	9920.8
Scottsdale	SIU	3	69455	133195	130041	69567	82772	62250	0	41619	17348	41340	35122	57242	7102.6
Riverview	SIU	3	65459	129199	126045	65571	78776	58254	0	37622	13352	37344	31125	53246	3106.3
Canal System 2	SIU	3	55400	119141	115987	55513	68718	48195	0	27564	3293.4	27285	21067	43187	-6952
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	Buffer	3	79616	143356	140202	79728	92933	72411	0	51779	27509	51501	45282	67403	17263
Lehi	Buffer	3	51114	114854	111700	51226	64431	43908	0	23277	-993.3	22999	16780	38901	-11239
Crismon	Buffer	3	41059	104799	101645	41171	54376	33853	0	13222	-11048	12944	6725.2	28846	-21294
Scottsdale	Buffer	3	28294	92034	88880	28406	41611	21089	1	457.7	-23813	179.27	-6039	16081	-34058
Riverview	Buffer	3	-2755	60985	57831	-2643	10562	-9961	18	-30592	-54862	-30870	-37089	-14969	-65108
Canal System 2	Buffer	3	-35313	28427	25273	-35201	-21996	-42519	45	-63150	-87420	-63428	-69647	-47526	-97666
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	SIU	4	81767	145508	142354	81880	95085	74562	0	53931	29660	53652	47434	69554	19415
Lehi	SIU	4	71564	135304	132150	71676	84881	64359	0	43727	19457	43449	37230	59351	9211.3
Crismon	SIU	4	68655	132396	129242	68768	81973	61450	0	40819	16548	40540	34322	56442	6302.9
Scottsdale	SIU	4	64898	128638	125484	65010	78215	57693	0	37061	12791	36783	30564	52685	2545.3
Riverview	SIU	4	59569	123310	120156	59682	72887	52364	0	31733	7462.4	31454	25236	47356	-2783
Canal System 2	SIU	4	46158	109898	106744	46270	59475	38953	0	18322	-5949	18043	11825	33945	-16194
Start (Sedentary)			83127	146867	143713	83239	96444	75922		55291	31020	55012	48794	70914	20775
Coyote	Buffer	4	78445	142186	139032	78558	91763	71240	0	50609	26338	50330	44112	66232	16093
Lehi	Buffer	4	40443	104183	101029	40555	53760	33237	0	12606	-11664	12328	6109.2	28230	-21910
Crismon	Buffer	4	27036	90776	87622	27148	40353	19831	1	-800.7	-25071	-1079	-7298	14823	-35317
Scottsdale	Buffer	4	10017	73757	70603	10129	23334	2811.4	5	-17820	-42090	-18098	-24317	-2196	-52336
Riverview	Buffer	4	-31383	32357	29203	-31271	-18066	-38588	40	-59219	-83490	-59498	-65716	-43596	-93735
Canal System 2	Buffer	4	-74793	-11053	-14207	-74681	-61476	-81999	75	-1E+05	-1E+05	-1E+05	-1E+05	-87006	-1E+05

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1006 Plant 2	1007 Plant 2	1008 Plant 2	1009 Plant 2	1010 Plant 2	1011 Plant 2	1012 Plant 2	1013 Plant 2	1014 Plant 2	1015 Plant 2	1016 Plant 2	1017 Plant 2	1018 Plant 2
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273
Coyote	SIU	3	81326	61314	45464	31408	69131	62918	46536	39725	23684	77092	37900	76185	31253
Lehi	SIU	3	73673	53662	37811	23755	61478	55265	38884	32072	16031	69440	30247	68532	23601
Crismon	SIU	3	71492	51480	35630	21574	59297	53084	36702	29891	13850	67258	28066	66351	21419
Scottsdale	SIU	3	68673	48662	32812	18756	56479	50266	33884	27073	11032	64440	25247	63533	18601
Riverview	SIU	3	64677	44666	28815	14759	52483	46269	29888	23077	7035	60444	21251	59536	14605
Canal System 2	SIU	3	54619	34607	18757	4701	42424	36211	19830	13018	-3023	50385	11193	49478	4546
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273
Coyote	Buffer	3	78834	58823	42972	28916	66640	60426	44045	37234	21192	74601	35408	73693	28762
Lehi	Buffer	3	50332	30321	14470	414	38138	31924	15543	8731	-7310	46099	6906	45191	260
Crismon	Buffer	3	40277	20266	4415	-9641	28082	21869	5488	-1324	-17365	36044	-3149	35136	-9795
Scottsdale	Buffer	3	27513	7501	-8349	-22405	15318	9105	-7277	-14088	-30129	23279	-15913	22372	-22560
Riverview	Buffer	3	-3537	-23549	-39399	-53455	-15732	-21945	-38326	-45138	-61179	-7770	-46963	-8678	-53610
Canal System 2	Buffer	3	-36095	-56106	-71957	-86013	-48289	-54503	-70884	-77696	-93737	-40328	-79521	-41236	-86167
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273
Coyote	SIU	4	80986	60974	45124	31068	68791	62578	46197	39385	23344	76752	37560	75845	30913
Lehi	SIU	4	70782	50771	34920	20864	58588	52374	35993	29182	13140	66549	27356	65641	20710
Crismon	SIU	4	67874	47862	32012	17956	55679	49466	33085	26273	10232	63640	24448	62733	17801
Scottsdale	SIU	4	64116	44105	28254	14198	51922	45708	29327	22516	6474	59883	20690	58975	14044
Riverview	SIU	4	58788	38776	22926	8870	46593	40380	23999	17187	1146	54554	15362	53647	8715
Canal System 2	SIU	4	45377	25365	9515	-4541	33182	26969	10587	3776	-12265	41143	1951	40236	-4696
Start (Sedentary)			82345	62334	46484	32428	70151	63938	47556	40745	24704	78112	38919	77205	32273
Coyote	Buffer	4	77664	57652	41802	27746	65469	59256	42875	36063	20022	73430	34238	72523	27591
Lehi	Buffer	4	39661	19650	3799	-10257	27466	21253	4872	-1940	-17981	35428	-3765	34520	-10411
Crismon	Buffer	4	26254	6243	-9608	-23664	14060	7846	-8535	-15346	-31388	22021	-17172	21113	-23818
Scottsdale	Buffer	4	9235	-10776	-26627	-40683	-2960	-9173	-25554	-32366	-48407	5002	-34191	4094	-40837
Riverview	Buffer	4	-32165	-52176	-68026	-82082	-44359	-50572	-66954	-73765	-89806	-36398	-75591	-37305	-82237
Canal System 2	Buffer	4	-75575	-95586	-111437	-125493	-87770	-93983	-110364	-117176	-133217	-79808	-119001	-80716	-125647

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1019 Plant 2	1020 Plant 2	1021 Plant 2	1022 Plant 2	1023 Plant 2	1024 Plant 2	1025 Plant 2	1026 Plant 2	1027 Plant 2	1028 Plant 2	1029 Plant 2	1030 Plant 2	1031 Plant 2
Start (Sedentary)			32258	70636	38470.8	40626.1	27508.6	66825	35578.1	49381.4	50686	40497.2	47612.8	50443.6	47788.2
Coyote	SIU	3	31238	69616	37451.1	39606.4	26488.9	65805	34558.4	48361.7	49666.3	39477.5	46593.1	49423.9	46768.5
Lehi	SIU	3	23585	61963	29798.4	31953.7	18836.2	58153	26905.7	40709	42013.6	31824.8	38940.4	41771.2	39115.8
Crismon	SIU	3	21404	59782	27617.1	29772.4	16654.9	55971	24724.4	38527.7	39832.3	29643.5	36759.1	39589.9	36934.5
Scottsdale	SIU	3	18586	56964	24798.9	26954.2	13836.7	53153	21906.2	35709.5	37014.1	26825.3	33940.9	36771.7	34116.3
Riverview	SIU	3	14589	52967	20802.6	22957.9	9840.41	49157	17909.9	31713.2	33017.8	22829	29944.6	32775.4	30120
Canal System 2	SIU	3	4531	42909	10744.2	12899.5	-217.99	39098	7851.55	21654.8	22959.4	12770.6	19886.2	22717	20061.6
Start (Sedentary)			32258	70636	38470.8	40626.1	27508.6	66825	35578.1	49381.4	50686	40497.2	47612.8	50443.6	47788.2
Coyote	Buffer	3	28746	67124	34959.6	37114.9	23997.4	63314	32066.9	45870.2	47174.8	36986	44101.6	46932.4	44277
Lehi	Buffer	3	244	38622	6457.51	8612.82	-4504.7	34812	3564.85	17368.1	18672.7	8483.91	15599.5	18430.3	15774.9
Crismon	Buffer	3	-9811	28567	-3597.6	-1442.3	-14560	24757	-6490.3	7313.04	8617.57	-1571.2	5544.44	8375.23	5719.75
Scottsdale	Buffer	3	-22575	15803	-16362	-14207	-27324	11992	-19255	-5451.4	-4146.8	-14336	-7220	-4389.2	-7044.65
Riverview	Buffer	3	-53625	-15247	-47412	-45256	-58374	-19057	-50304	-36501	-35197	-45385	-38270	-35439	-38094.3
Canal System 2	Buffer	3	-86183	-47805	-79969	-77814	-90932	-51615	-82862	-69059	-67754	-77943	-70827	-67997	-70652.1
Start (Sedentary)			32258	70636	38470.8	40626.1	27508.6	66825	35578.1	49381.4	50686	40497.2	47612.8	50443.6	47788.2
Coyote	SIU	4	30898	69276	37111.2	39266.5	26149	65465	34218.5	48021.8	49326.4	39137.6	46253.2	49084	46428.6
Lehi	SIU	4	20694	59072	26907.6	29062.9	15945.4	55262	24014.9	37818.2	39122.8	28934	36049.6	38880.4	36225
Crismon	SIU	4	17786	56164	23999.2	26154.5	13037	52353	21106.5	34909.8	36214.4	26025.6	33141.2	35972	33316.6
Scottsdale	SIU	4	14028	52406	20241.6	22396.9	9279.41	48596	17348.9	31152.2	32456.8	22268	29383.6	32214.4	29559
Riverview	SIU	4	8700	47078	14913.2	17068.5	3951.01	43267	12020.5	25823.8	27128.4	16939.6	24055.2	26886	24230.6
Canal System 2	SIU	4	-4711	33667	1502.01	3657.32	-9460.2	29856	-1390.7	12412.6	13717.2	3528.41	10644	13474.8	10819.4
Start (Sedentary)			32258	70636	38470.8	40626.1	27508.6	66825	35578.1	49381.4	50686	40497.2	47612.8	50443.6	47788.2
Coyote	Buffer	4	27576	65954	33789.2	35944.5	22827	62143	30896.5	44699.8	46004.4	35815.6	42931.2	45762	43106.6
Lehi	Buffer	4	-10427	27951	-4213.6	-2058.3	-15176	24141	-7106.3	6697.04	8001.57	-2187.2	4928.44	7759.23	5103.75
Crismon	Buffer	4	-23834	14544	-17620	-15465	-28583	10734	-20513	-6709.8	-5405.2	-15594	-8478.4	-5647.6	-8303.05
Scottsdale	Buffer	4	-40853	-2475	-34640	-32484	-45602	-6285	-37532	-23729	-22424	-32613	-25498	-22667	-25322.2
Riverview	Buffer	4	-82252	-43874	-76039	-73884	-87001	-47685	-78932	-65129	-63824	-74013	-66897	-64066	-66721.8
Canal System 2	Buffer	4	-125663	-87285	-119450	-117294	-130412	-91095	-122342	-108539	-107234	-117423	-110308	-107477	-110132

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1032 Plant 2	1033 Plant 2	1034 Plant 2	1035 Plant 2	1036 Plant 2	1037 Plant 2	1038 Plant 2	1039 Plant 2	1040 Plant 2	1041 Plant 2	1042 Plant 2	1043 Plant 2
Start (Sedentary)			53052.7	43142.4	38202.7	28070.6	31943	42503	42601	27121.9	36645.5	26018.5	47767.5	51815.2
Coyote	SIU	3	52033	42122.7	37183	27050.9	30923.3	41483.3	41581.3	26102.2	35625.8	24998.8	46747.8	50795.5
Lehi	SIU	3	44380.3	34470	29530.3	19398.2	23270.6	33830.6	33928.6	18449.5	27973.1	17346.1	39095.1	43142.8
Crismon	SIU	3	42199	32288.7	27349	17216.9	21089.3	31649.3	31747.3	16268.2	25791.8	15164.8	36913.8	40961.5
Scottsdale	SIU	3	39380.8	29470.5	24530.8	14398.7	18271.1	28831.1	28929.1	13450	22973.6	12346.6	34095.6	38143.3
Riverview	SIU	3	35384.5	25474.2	20534.5	10402.4	14274.8	24834.8	24932.8	9453.69	18977.3	8350.25	30099.3	34147
Canal System 2	SIU	3	25326.1	15415.8	10476.1	344.042	4216.39	14776.4	14874.4	-604.71	8918.89	-1708.1	20040.9	24088.6
Start (Sedentary)			53052.7	43142.4	38202.7	28070.6	31943	42503	42601	27121.9	36645.5	26018.5	47767.5	51815.2
Coyote	Buffer	3	49541.5	39631.2	34691.5	24559.4	28431.8	38991.8	39089.8	23610.7	33134.3	22507.3	44256.3	48304
Lehi	Buffer	3	21039.4	11129.1	6189.38	-3942.7	-70.311	10489.7	10587.7	-4891.4	4632.19	-5994.8	15754.2	19801.9
Crismon	Buffer	3	10984.3	1073.97	-3865.7	-13998	-10125	434.595	532.564	-14947	-5422.9	-16050	5699.13	9746.79
Scottsdale	Buffer	3	-1780.11	-11690	-16630	-26762	-22890	-12330	-12232	-27711	-18187	-28814	-7065.3	-3017.6
Riverview	Buffer	3	-32829.8	-42740	-47680	-57812	-53940	-43380	-43282	-58761	-49237	-59864	-38115	-34067
Canal System 2	Buffer	3	-65387.6	-75298	-80238	-90370	-86497	-75937	-75839	-91318	-81795	-92422	-70673	-66625
Start (Sedentary)			53052.7	43142.4	38202.7	28070.6	31943	42503	42601	27121.9	36645.5	26018.5	47767.5	51815.2
Coyote	SIU	4	51693.1	41782.8	36843.1	26711	30583.4	41143.4	41241.4	25762.3	35285.9	24658.9	46407.9	50455.6
Lehi	SIU	4	41489.5	31579.2	26639.5	16507.4	20379.8	30939.8	31037.8	15558.7	25082.3	14455.3	36204.3	40252
Crismon	SIU	4	38581.1	28670.8	23731.1	13599	17471.4	28031.4	28129.4	12650.3	22173.9	11546.9	33295.9	37343.6
Scottsdale	SIU	4	34823.5	24913.2	19973.5	9841.44	13713.8	24273.8	24371.8	8892.69	18416.3	7789.25	29538.3	33586
Riverview	SIU	4	29495.1	19584.8	14645.1	4513.04	8385.39	18945.4	19043.4	3564.29	13087.9	2460.85	24209.9	28257.6
Canal System 2	SIU	4	16083.9	6173.57	1233.88	-8898.2	-5025.8	5534.2	5632.16	-9846.9	-323.31	-10950	10798.7	14846.4
Start (Sedentary)			53052.7	43142.4	38202.7	28070.6	31943	42503	42601	27121.9	36645.5	26018.5	47767.5	51815.2
Coyote	Buffer	4	48371.1	38460.8	33521.1	23389	27261.4	37821.4	37919.4	22440.3	31963.9	21336.9	43085.9	47133.6
Lehi	Buffer	4	10368.3	457.971	-4481.7	-14614	-10741	-181.4	-83.436	-15563	-6038.9	-16666	5083.13	9130.79
Crismon	Buffer	4	-3038.51	-12949	-17889	-28021	-24148	-13588	-13490	-28969	-19446	-30073	-8323.7	-4276
Scottsdale	Buffer	4	-20057.7	-29968	-34908	-45040	-41167	-30607	-30509	-45989	-36465	-47092	-25343	-21295
Riverview	Buffer	4	-61457.3	-71368	-76307	-86439	-82567	-72007	-71909	-87388	-77865	-88492	-66742	-62695
Canal System 2	Buffer	4	-104868	-114778	-119718	-129850	-125977	-115417	-115319	-130799	-121275	-131902	-110153	-106105

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1044 Plant 2	1045 Plant 2	1046 Plant 2	1047 Plant 2	1048 Plant 2	1049 Plant 2	1050 Plant 2	1051 Plant 2	1052 Plant 2	1053 Plant 2	1054 Plant 2	1055 Plant 2	1056 Plant 2
Start (Sedentary)			28596.6	62777	42266	67330	36779.6	49505.2	59446	44101.4	94746	45246.1	75596	40456	60787
Coyote	SIU	3	27576.9	61758	41246	66311	35759.9	48485.5	58427	43081.7	93726	44226.4	74576	39436.3	59767
Lehi	SIU	3	19924.2	54105	33593	58658	28107.2	40832.8	50774	35429	86074	36573.7	66923	31783.6	52115
Crismon	SIU	3	17742.9	51924	31412	56477	25925.9	38651.5	48593	33247.7	83892	34392.4	64742	29602.3	49933
Scottsdale	SIU	3	14924.7	49105	28594	53658	23107.7	35833.3	45775	30429.5	81074	31574.2	61924	26784.1	47115
Riverview	SIU	3	10928.4	45109	24598	49662	19111.4	31837	41778	26433.2	77078	27577.9	57928	22787.8	43119
Canal System 2	SIU	3	869.98	35051	14539	39604	9052.95	21778.6	31720	16374.8	67020	17519.5	47869	12729.4	33060
Start (Sedentary)			28596.6	62777	42266	67330	36779.6	49505.2	59446	44101.4	94746	45246.1	75596	40456	60787
Coyote	Buffer	3	25085.4	59266	38755	63819	33268.4	45994	55935	40590.2	91235	41734.9	72085	36944.8	57276
Lehi	Buffer	3	-3416.7	30764	10253	35317	4766.25	17491.9	27433	12088.1	62733	13232.8	43583	8442.66	28774
Crismon	Buffer	3	-13472	20709	197.41	25262	-5288.8	7436.79	17378	2033.03	52678	3177.72	33527	-1612.4	18719
Scottsdale	Buffer	3	-26236	7944.6	-12567	12498	-18053	-5327.6	4613.6	-10731	39913	-9586.7	20763	-14377	5954.3
Riverview	Buffer	3	-57286	-23105	-43617	-18552	-49103	-36377	-26436	-41781	8863.7	-40636	-10287	-45427	-25095
Canal System 2	Buffer	3	-89844	-55663	-76174	-51110	-81661	-68935	-58994	-74339	-23694	-73194	-42844	-77984	-57653
Start (Sedentary)			28596.6	62777	42266	67330	36779.6	49505.2	59446	44101.4	94746	45246.1	75596	40456	60787
Coyote	SIU	4	27237	61418	40906	65971	35420	48145.6	58087	42741.8	93387	43886.5	74236	39096.4	59427
Lehi	SIU	4	17033.4	51214	30703	55767	25216.4	37942	47883	32538.2	83183	33682.9	64033	28892.8	49224
Crismon	SIU	4	14125	48306	27794	52859	22308	35033.6	44975	29629.8	80275	30774.5	61124	25984.4	46315
Scottsdale	SIU	4	10367.4	44548	24037	49101	18550.4	31276	41217	25872.2	76517	27016.9	57367	22226.8	42558
Riverview	SIU	4	5038.98	39220	18708	43773	13222	25947.6	35889	20543.8	71189	21688.5	52038	16898.4	37229
Canal System 2	SIU	4	-8372.2	25809	5297	30362	-189.25	12536.4	22478	7132.63	57777	8277.32	38627	3487.16	23818
Start (Sedentary)			28596.6	62777	42266	67330	36779.6	49505.2	59446	44101.4	94746	45246.1	75596	40456	60787
Coyote	Buffer	4	23915	58096	37584	62649	32098	44823.6	54765	39419.8	90065	40564.5	70914	35774.4	56105
Lehi	Buffer	4	-14088	20093	-418.6	24646	-5904.8	6820.79	16762	1417.03	52062	2561.72	32911	-2228.4	18103
Crismon	Buffer	4	-27495	6686.2	-13825	11239	-19312	-6586	3355.2	-11990	38655	-10845	19505	-15635	4695.9
Scottsdale	Buffer	4	-44514	-10333	-30845	-5780	-36331	-23605	-13664	-29009	21636	-27864	2485.4	-32654	-12323
Riverview	Buffer	4	-85913	-51733	-72244	-47180	-77730	-65005	-55064	-70409	-19764	-69264	-38914	-74054	-53723
Canal System 2	Buffer	4	-129324	-95143	-1E+05	-90590	-121141	-108415	-98474	-113819	-63174	-112674	-82325	-117464	-97133

System	Acreage Method	Acre-feet	1070 Plant 2	1071 Plant 2	1072 Plant 2	1073 Plant 2	1074 Plant 2	1075 Plant 2	1076 Plant 2	1077 Plant 2	1078 Plant 2	1079 Plant 2	1080 Plant 2	1081 Plant 2	1082 Plant 2
Start (Sedentary)			39502.1	53083.6	45153.3	35181.1	43596.1	44916.1	62705	60436	47077	83444	69326	31391.3	80190
Coyote	SIU	3	38482.4	52063.9	44133.6	34161.4	42576.4	43896.4	61685	59417	46057	82424	68306	30371.6	79170
Lehi	SIU	3	30829.7	44411.2	36480.9	26508.7	34923.7	36243.7	54033	51764	38404	74771	60653	22718.9	71518
Crismon	SIU	3	28648.4	42229.9	34299.6	24327.4	32742.4	34062.4	51851	49583	36223	72590	58472	20537.6	69336
Scottsdale	SIU	3	25830.2	39411.7	31481.4	21509.2	29924.2	31244.2	49033	46765	33405	69772	55654	17719.4	66518
Riverview	SIU	3	21833.9	35415.4	27485.1	17512.9	25927.9	27247.9	45037	42768	29408	65775	51658	13723.1	62522
Canal System 2	SIU	3	11775.5	25357	17426.7	7454.52	15869.5	17189.5	34979	32710	19350	55717	41599	3664.67	52463
Start (Sedentary)			39502.1	53083.6	45153.3	35181.1	43596.1	44916.1	62705	60436	47077	83444	69326	31391.3	80190
Coyote	Buffer	3	35990.9	49572.4	41642.1	31669.9	40084.9	41404.9	59194	56925	43565	79932	65815	27880.1	76679
Lehi	Buffer	3	7488.76	21070.3	13140	3167.82	11582.8	12902.8	30692	28423	15063	51430	37313	-622.03	48177
Crismon	Buffer	3	-2566.3	11015.2	3084.91	-6887.28	1527.72	2847.72	20637	18368	5008.2	41375	27257	-10677	38122
Scottsdale	Buffer	3	-15331	-1749.2	-9679.5	-19651.7	-11236.7	-9916.7	7872.4	5603.6	-7756	28611	14493	-23442	25357
Riverview	Buffer	3	-46380	-32799	-40729	-50701.4	-42286.4	-40966	-23177	-25446	-38806	-2439	-16557	-54491	-5692
Canal System 2	Buffer	3	-78938	-65357	-73287	-83259.2	-74844.2	-73524	-55735	-58004	-71364	-34997	-49114	-87049	-38250
Start (Sedentary)			39502.1	53083.6	45153.3	35181.1	43596.1	44916.1	62705	60436	47077	83444	69326	31391.3	80190
Coyote	SIU	4	38142.5	51724	43793.7	33821.5	42236.5	43556.5	61346	59077	45717	82084	67966	30031.7	78830
Lehi	SIU	4	27938.9	41520.4	33590.1	23617.9	32032.9	33352.9	51142	48873	35513	71880	57763	19828.1	68627
Crismon	SIU	4	25030.5	38612	30681.7	20709.5	29124.5	30444.5	48234	45965	32605	68972	54854	16919.7	65718
Scottsdale	SIU	4	21272.9	34854.4	26924.1	16951.9	25366.9	26686.9	44476	42207	28847	65214	51097	13162.1	61961
Riverview	SIU	4	15944.5	29526	21595.7	11623.5	20038.5	21358.5	39148	36879	23519	59886	45768	7833.67	56632
Canal System 2	SIU	4	2533.26	16114.8	8184.51	-1787.68	6627.32	7947.32	25736	23468	10108	46475	32357	-5577.5	43221
Start (Sedentary)			39502.1	53083.6	45153.3	35181.1	43596.1	44916.1	62705	60436	47077	83444	69326	31391.3	80190
Coyote	Buffer	4	34820.5	48402	40471.7	30499.5	38914.5	40234.5	58024	55755	42395	78762	64644	26709.7	75508
Lehi	Buffer	4	-3182.3	10399.2	2468.91	-7503.28	911.721	2231.72	20021	17752	4392.2	40759	26641	-11293	37506
Crismon	Buffer	4	-16589	-3007.6	-10938	-20910.1	-12495.1	-11175	6614	4345.2	-9015	27352	13235	-24700	24099
Scottsdale	Buffer	4	-33608	-20027	-27957	-37929.3	-29514.3	-28194	-10405	-12674	-26034	10333	-3785	-41719	7079.6
Riverview	Buffer	4	-75008	-61426	-69357	-79328.9	-70913.9	-69594	-51805	-54074	-67433	-31066	-45184	-83119	-34320
Canal System 2	Buffer	4	-118418	-104837	-112767	-122739	-114324	-113004	-95215	-97484	-1E+05	-74477	-88595	-126529	-77730

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1083 Plant 2	1084 Plant 2	1085 Plant 2	1086 Plant 2	1087 Plant 2	1088 Plant 2	1089 Plant 2	1090 Plant 2	1091 Plant 2	1092 Plant 2	1093 Plant 2	1094 Plant 2	1095 Plant 2
Start (Sedentary)			49428	55589.6	30798.3	26632	98716	34191.1	80912	27230.2	29426.7	59632	40311.6	30576.6	54022.1
Coyote	SIU	3	48408	54569.9	29778.6	25612.3	97697	33171.4	79892	26210.5	28407	58612	39291.9	29556.9	53002.4
Lehi	SIU	3	40755	46917.2	22125.9	17959.6	90044	25518.7	72240	18557.8	20754.3	50960	31639.2	21904.2	45349.7
Crismon	SIU	3	38574	44735.9	19944.6	15778.3	87863	23337.4	70058	16376.5	18573	48778	29457.9	19722.9	43168.4
Scottsdale	SIU	3	35756	41917.7	17126.4	12960.1	85045	20519.2	67240	13558.3	15754.8	45960	26639.7	16904.7	40350.2
Riverview	SIU	3	31760	37921.4	13130.1	8963.85	81048	16522.9	63244	9561.97	11758.5	41964	22643.4	12908.4	36353.9
Canal System 2	SIU	3	21701	27863	3071.7	-1094.6	70990	6464.52	53185	-496.43	1700.14	31905	12585	2849.98	26295.5
Start (Sedentary)			49428	55589.6	30798.3	26632	98716	34191.1	80912	27230.2	29426.7	59632	40311.6	30576.6	54022.1
Coyote	Buffer	3	45917	52078.4	27287.1	23120.8	95205	30679.9	77401	23719	25915.5	56121	36800.4	27065.4	50510.9
Lehi	Buffer	3	17415	23576.3	-1215	-5381.3	66703	2177.82	48899	-4783.1	-2586.6	27619	8298.29	-1436.7	22008.8
Crismon	Buffer	3	7359.4	13521.2	-11270	-15436	56648	-7877.3	38844	-14838	-12642	17564	-1756.8	-11492	11953.7
Scottsdale	Buffer	3	-5405	756.766	-24034	-28201	43884	-20642	26079	-27603	-25406	4799.3	-14521	-24256	-810.74
Riverview	Buffer	3	-36455	-30293	-55084	-59250	12834	-51691	-4971	-58652	-56456	-26250	-45571	-55306	-31860
Canal System 2	Buffer	3	-69012	-62851	-87642	-91808	-19724	-84249	-37528	-91210	-89014	-58808	-78129	-87864	-64418
Start (Sedentary)			49428	55589.6	30798.3	26632	98716	34191.1	80912	27230.2	29426.7	59632	40311.6	30576.6	54022.1
Coyote	SIU	4	48068	54230	29438.7	25272.4	97357	32831.5	79552	25870.6	28067.1	58272	38952	29217	52662.5
Lehi	SIU	4	37865	44026.4	19235.1	15068.8	87153	22627.9	69349	15667	17863.5	48069	28748.4	19013.4	42458.9
Crismon	SIU	4	34956	41118	16326.7	12160.4	84245	19719.5	66440	12758.6	14955.1	45160	25840	16105	39550.5
Scottsdale	SIU	4	31199	37360.4	12569.1	8402.85	80487	15961.9	62683	9000.97	11197.5	41403	22082.4	12347.4	35792.9
Riverview	SIU	4	25870	32032	7240.7	3074.45	75159	10633.5	57354	3672.57	5869.14	36074	16754	7018.98	30464.5
Canal System 2	SIU	4	12459	18620.8	-6170.5	-10337	61748	-2777.7	43943	-9738.6	-7542.1	22663	3342.79	-6392.2	17053.3
Start (Sedentary)			49428	55589.6	30798.3	26632	98716	34191.1	80912	27230.2	29426.7	59632	40311.6	30576.6	54022.1
Coyote	Buffer	4	44746	50908	26116.7	21950.4	94035	29509.5	76230	22548.6	24745.1	54950	35630	25895	49340.5
Lehi	Buffer	4	6743.4	12905.2	-11886	-16052	56032	-8493.3	38228	-15454	-13258	16948	-2372.8	-12108	11337.7
Crismon	Buffer	4	-6663.4	-501.63	-25293	-29459	42625	-21900	24821	-28861	-26664	3540.9	-15780	-25515	-2069.1
Scottsdale	Buffer	4	-23683	-17521	-42312	-46478	25606	-38919	7801.5	-45880	-43684	-13478	-32799	-42534	-19088
Riverview	Buffer	4	-65082	-58920	-83712	-87878	-15794	-80319	-33598	-87280	-85083	-54878	-74198	-83933	-60488
Canal System 2	Buffer	4	-108493	-102331	-127122	-131288	-59204	-123729	-77008	-130690	-128494	-98288	-117609	-127344	-103898

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1096 Plant 2	1097 Plant 2	1098 Plant 2	1099 Plant 2	Total Deficits	1000 Silk 2	1001 Silk 2	1002 Silk 2	1003 Silk 2	1004 Silk 2	1005 Silk 2	1006 Silk 2
Start (Sedentary)			52861.9	30617.8	35475	27926.3		47313.6	26544.7	47075.3	41754	60683	17777.3	70465
Coyote	SIU	3	51842.2	29598.1	34455.3	26906.6	0	46293.9	25525	46055.6	40734.3	59663	16757.6	69445
Lehi	SIU	3	44189.5	21945.4	26802.6	19253.9	0	38641.2	17872.3	38402.9	33081.6	52011	9104.95	61793
Crismon	SIU	3	42008.2	19764.1	24621.3	17072.6	0	36459.9	15691	36221.6	30900.3	49829	6923.65	59611
Scottsdale	SIU	3	39190	16945.9	21803.1	14254.4	0	33641.7	12872.8	33403.4	28082.1	47011	4105.45	56793
Riverview	SIU	3	35193.7	12949.6	17806.8	10258.1	1	29645.4	8876.48	29407.1	24085.8	43015	109.149	52797
Canal System 2	SIU	3	25135.3	2891.23	7748.42	199.667	8	19587	-1181.9	19348.7	14027.4	32956	-9949.3	42739
Start (Sedentary)			52861.9	30617.8	35475	27926.3		47313.6	26544.7	47075.3	41754	60683	17777.3	70465
Coyote	Buffer	3	49350.7	27106.6	31963.8	24415.1	0	43802.4	23033.5	43564.1	38242.8	57172	14266.1	66954
Lehi	Buffer	3	20848.6	-1395.5	3461.72	-4087	19	15300.3	-5468.6	15062	9740.75	28670	-14236	38452
Crismon	Buffer	3	10793.5	-11451	-6593.4	-14142	40	5245.2	-15524	5006.94	-314.35	18615	-24291	28397
Scottsdale	Buffer	3	-1970.9	-24215	-19358	-26907	70	-7519.2	-28288	-7757.5	-13079	5850.2	-37055	15632
Riverview	Buffer	3	-33021	-55265	-50407	-57956	98	-38569	-59338	-38807	-44128	-25199	-68105	-15417
Canal System 2	Buffer	3	-65578	-87822	-82965	-90514	100	-71127	-91896	-71365	-76686	-57757	-100663	-47975
Start (Sedentary)			52861.9	30617.8	35475	27926.3		47313.6	26544.7	47075.3	41754	60683	17777.3	70465
Coyote	SIU	4	51502.3	29258.2	34115.4	26566.7	0	45954	25185.1	45715.7	40394.4	59323	16417.7	69106
Lehi	SIU	4	41298.7	19054.6	23911.8	16363.1	0	35750.4	14981.5	35512.1	30190.8	49120	6214.15	58902
Crismon	SIU	4	38390.3	16146.2	21003.4	13454.7	0	32842	12073.1	32603.7	27282.4	46211	3305.75	55994
Scottsdale	SIU	4	34632.7	12388.6	17245.8	9697.07	1	29084.4	8315.48	28846.1	23524.8	42454	-451.85	52236
Riverview	SIU	4	29304.3	7060.23	11917.4	4368.67	2	23756	2987.08	23517.7	18196.4	37125	-5780.3	46908
Canal System 2	SIU	4	15893.1	-6351	-1493.8	-9042.5	28	10344.8	-10424	10106.5	4785.25	23714	-19191	33496
Start (Sedentary)			52861.9	30617.8	35475	27926.3		47313.6	26544.7	47075.3	41754	60683	17777.3	70465
Coyote	Buffer	4	48180.3	25936.2	30793.4	23244.7	0	42632	21863.1	42393.7	37072.4	56001	13095.7	65784
Lehi	Buffer	4	10177.5	-12067	-7209.4	-14758	43	4629.2	-16140	4390.94	-930.35	17999	-24907	27781
Crismon	Buffer	4	-3229.3	-25473	-20616	-28165	74	-8777.6	-29547	-9015.9	-14337	4591.8	-38314	14374
Scottsdale	Buffer	4	-20248	-42493	-37635	-45184	91	-25797	-46566	-26035	-31356	-12427	-55333	-2645
Riverview	Buffer	4	-61648	-83892	-79035	-86584	100	-67196	-87965	-67435	-72756	-53827	-96733	-44045
Canal System 2	Buffer	4	-105058	-127303	-122445	-129994	100	-110607	-131376	-110845	-116166	-97237	-140143	-87455

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1007 Silk 2	1008 Silk 2	1009 Silk 2	1010 Silk 2	1011 Silk 2	1012 Silk 2	1013 Silk 2	1014 Silk 2	1015 Silk 2	1016 Silk 2	1017 Silk 2	1018 Silk 2	1019 Silk 2
Start (Sedentary)			53340.9	39777.3	27749.3	60030	54713.1	40695.1	34866.4	21139.6	66843	33304.4	66066	27616.9	27603.6
Coyote	SIU	3	52321.2	38757.6	26729.6	59010.3	53693.4	39675.4	33846.7	20119.9	65823	32284.7	65046	26597.2	26583.9
Lehi	SIU	3	44668.5	31104.9	19076.9	51357.6	46040.7	32022.7	26194	12467.2	58170	24632	57394	18944.5	18931.2
Crismon	SIU	3	42487.2	28923.6	16895.6	49176.3	43859.4	29841.4	24012.7	10285.9	55989	22450.7	55212	16763.2	16749.9
Scottsdale	SIU	3	39669	26105.4	14077.4	46358.1	41041.2	27023.2	21194.5	7467.66	53171	19632.5	52394	13945	13931.7
Riverview	SIU	3	35672.7	22109.1	10081.1	42361.8	37044.9	23026.9	17198.2	3471.36	49174	15636.2	48398	9948.68	9935.45
Canal System 2	SIU	3	25614.3	12050.7	22.6544	32303.4	26986.5	12968.5	7139.77	-6587	39116	5577.8	38339	-109.72	-122.95
Start (Sedentary)			53340.9	39777.3	27749.3	60030	54713.1	40695.1	34866.4	21139.6	66843	33304.4	66066	27616.9	27603.6
Coyote	Buffer	3	49829.7	36266.1	24238.1	56518.8	51201.9	37183.9	31355.2	17628.4	63331	29793.2	62555	24105.7	24092.4
Lehi	Buffer	3	21327.6	7764.01	-4264	28016.7	22699.8	8681.78	2853.07	-10874	34829	1291.1	34053	-4396.4	-4409.7
Crismon	Buffer	3	11272.5	-2291.1	-14319	17961.6	12644.7	-1373.3	-7202	-20929	24774	-8764	23998	-14452	-14465
Scottsdale	Buffer	3	-1491.9	-15055	-27084	5197.19	-119.69	-14138	-19966	-33693	12010	-21528	11233	-27216	-27229
Riverview	Buffer	3	-32542	-46105	-58133	-25853	-31169	-45187	-51016	-64743	-19040	-52578	-19816	-58266	-58279
Canal System 2	Buffer	3	-65099	-78663	-90691	-58410	-63727	-77745	-83574	-97301	-51598	-85136	-52374	-90823	-90837
Start (Sedentary)			53340.9	39777.3	27749.3	60030	54713.1	40695.1	34866.4	21139.6	66843	33304.4	66066	27616.9	27603.6
Coyote	SIU	4	51981.3	38417.7	26389.7	58670.4	53353.5	39335.5	33506.8	19780	65483	31944.8	64706	26257.3	26244
Lehi	SIU	4	41777.7	28214.1	16186.1	48466.8	43149.9	29131.9	23303.2	9576.36	55279	21741.2	54503	16053.7	16040.4
Crismon	SIU	4	38869.3	25305.7	13277.7	45558.4	40241.5	26223.5	20394.8	6667.96	52371	18832.8	51594	13145.3	13132
Scottsdale	SIU	4	35111.7	21548.1	9520.05	41800.8	36483.9	22465.9	16637.2	2910.36	48613	15075.2	47837	9387.68	9374.45
Riverview	SIU	4	29783.3	16219.7	4191.65	36472.4	31155.5	17137.5	11308.8	-2418	43285	9746.8	42508	4059.28	4046.05
Canal System 2	SIU	4	16372.1	2808.51	-9219.5	23061.2	17744.3	3726.28	-2102.4	-15829	29874	-3664.4	29097	-9351.9	-9365.2
Start (Sedentary)			53340.9	39777.3	27749.3	60030	54713.1	40695.1	34866.4	21139.6	66843	33304.4	66066	27616.9	27603.6
Coyote	Buffer	4	48659.3	35095.7	23067.7	55348.4	50031.5	36013.5	30184.8	16458	62161	28622.8	61384	22935.3	22922
Lehi	Buffer	4	10656.5	-2907.1	-14935	17345.6	12028.7	-1989.3	-7818	-21545	24158	-9380	23382	-15068	-15081
Crismon	Buffer	4	-2750.3	-16314	-28342	3938.79	-1378.1	-15396	-21225	-34952	10751	-22787	9974.9	-28474	-28488
Scottsdale	Buffer	4	-19770	-33333	-45361	-13080	-18397	-32415	-38244	-51971	-6268	-39806	-7044	-45494	-45507
Riverview	Buffer	4	-61169	-74733	-86761	-54480	-59797	-73815	-79644	-93370	-47667	-81206	-48444	-86893	-86906
Canal System 2	Buffer	4	-104580	-118143	-130171	-97890	-103207	-117225	-123054	-136781	-91078	-124616	-91854	-130304	-130317

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1020 Silk 2	1021 Silk 2	1022 Silk 2	1023 Silk 2	1024 Silk 2	1025 Silk 2	1026 Silk 2	1027 Silk 2	1028 Silk 2	1029 Silk 2	1030 Silk 2	1031 Silk 2
Start (Sedentary)			60445	32921	34765	23540	57184	30445	42257	43373	34655	40744	43166	40894
Coyote	SIU	3	59425	31901	33745	22520	56164	29425	41237	42354	33635	39724	42146	39874
Lehi	SIU	3	51772	24248	26092	14867	48512	21773	33585	34701	25982	32071	34494	32221
Crismon	SIU	3	49591	22067	23911	12686	46330	19591	31403	32520	23801	29890	32312	30040
Scottsdale	SIU	3	46773	19249	21093	9868	43512	16773	28585	29701	20983	27072	29494	27222
Riverview	SIU	3	42777	15252	17097	5872	39516	12777	24589	25705	16986	23075	25498	23225
Canal System 2	SIU	3	32718	5194	7038	-4187	29457	2719	14530	15647	6928	13017	15439	13167
Start (Sedentary)			60445	32921	34765	23540	57184	30445	42257	43373	34655	40744	43166	40894
Coyote	Buffer	3	56934	29409	31254	20029	53673	26934	38746	39862	31143	37232	39655	37382
Lehi	Buffer	3	28431	907	2752	-8473	25171	-1568	10244	11360	2641	8730	11153	8880
Crismon	Buffer	3	18376	-9148	-7304	-18529	15116	-11623	189	1305	-7414	-1325	1098	-1175
Scottsdale	Buffer	3	5612	-21912	-20068	-31293	2351	-24388	-12576	-11459	-20178	-14089	-11667	-13939
Riverview	Buffer	3	-25438	-52962	-51118	-62343	-28698	-55437	-43625	-42509	-51228	-45139	-42717	-44989
Canal System 2	Buffer	3	-57996	-85520	-83675	-94900	-61256	-87995	-76183	-75067	-83786	-77697	-75274	-77547
Start (Sedentary)			60445	32921	34765	23540	57184	30445	42257	43373	34655	40744	43166	40894
Coyote	SIU	4	59085	31561	33405	22180	55824	29086	40897	42014	33295	39384	41806	39534
Lehi	SIU	4	48882	21357	23202	11977	45621	18882	30694	31810	23091	29180	31603	29330
Crismon	SIU	4	45973	18449	20293	9068	42712	15974	27785	28902	20183	26272	28694	26422
Scottsdale	SIU	4	42216	14691	16536	5311	38955	12216	24028	25144	16425	22514	24937	22664
Riverview	SIU	4	36887	9363	11207	-18	33626	6888	18699	19816	11097	17186	19608	17336
Canal System 2	SIU	4	23476	-4048	-2204	-13429	20215	-6524	5288	6405	-2314	3775	6197	3925
Start (Sedentary)			60445	32921	34765	23540	57184	30445	42257	43373	34655	40744	43166	40894
Coyote	Buffer	4	55763	28239	30083	18858	52502	25764	37575	38692	29973	36062	38484	36212
Lehi	Buffer	4	17760	-9764	-7920	-19145	14500	-12239	-427	689	-8030	-1941	482	-1791
Crismon	Buffer	4	4354	-23171	-21326	-32551	1093	-25646	-13834	-12718	-21437	-15348	-12925	-15198
Scottsdale	Buffer	4	-12666	-40190	-38346	-49571	-15926	-42665	-30853	-29737	-38456	-32367	-29944	-32217
Riverview	Buffer	4	-54065	-81589	-79745	-90970	-57326	-84065	-72253	-71137	-79855	-73766	-71344	-73616
Canal System 2	Buffer	4	-97476	-125000	-123156	-134381	-100736	-127475	-115663	-114547	-123266	-117177	-114754	-117027

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1032 Silk 2	1033 Silk 2	1034 Silk 2	1035 Silk 2	1036 Silk 2	1037 Silk 2	1038 Silk 2	1039 Silk 2	1040 Silk 2	1041 Silk 2	1042 Silk 2	1043 Silk 2	1044 Silk 2
Start (Sedentary)			45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340	24471
Coyote	SIU	3	44379	35898	31671	23001	26315	35351	35435	22189	30339	21245	39856	43320	23451
Lehi	SIU	3	36726	28246	24019	15348	18662	27699	27782	14537	22686	13592	32204	35667	15798
Crismon	SIU	3	34545	26064	21837	13167	16481	25517	25601	12355	20505	11411	30022	33486	13617
Scottsdale	SIU	3	31727	23246	19019	10349	13663	22699	22783	9537	17687	8593	27204	30668	10799
Riverview	SIU	3	27730	19250	15023	6353	9666	18703	18787	5541	13690	4597	23208	26671	6803
Canal System 2	SIU	3	17672	9192	4964	-3706	-392	8644	8728	-4518	3632	-5462	13149	16613	-3256
Start (Sedentary)			45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340	24471
Coyote	Buffer	3	41887	33407	29180	20510	23823	32860	32944	19698	27847	18754	37365	40828	20960
Lehi	Buffer	3	13385	4905	678	-7992	-4679	4358	4442	-8804	-655	-9749	8863	12326	-7542
Crismon	Buffer	3	3330	-5150	-9377	-18048	-14734	-5697	-5614	-18859	-10710	-19804	-1192	2271	-17598
Scottsdale	Buffer	3	-9434	-17915	-22142	-30812	-27498	-18462	-18378	-31624	-23474	-32568	-13957	-10493	-30362
Riverview	Buffer	3	-40484	-48964	-53191	-61862	-58548	-49512	-49428	-62674	-54524	-63618	-45007	-41543	-61412
Canal System 2	Buffer	3	-73042	-81522	-85749	-94419	-91106	-82069	-81985	-95231	-87082	-96176	-77564	-74101	-93969
Start (Sedentary)			45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340	24471
Coyote	SIU	4	44039	35559	31331	22661	25975	35011	35095	21849	29999	20905	39516	42980	23111
Lehi	SIU	4	33835	25355	21128	12458	15771	24808	24892	11646	19795	10702	29313	32776	12908
Crismon	SIU	4	30927	22447	18219	9549	12863	21899	21983	8737	16887	7793	26404	29868	9999
Scottsdale	SIU	4	27169	18689	14462	5792	9105	18142	18226	4980	13129	4036	22647	26110	6242
Riverview	SIU	4	21841	13361	9133	463	3777	12813	12897	-349	7801	-1293	17318	20782	913
Canal System 2	SIU	4	8430	-51	-4278	-12948	-9634	-598	-514	-13760	-5610	-14704	3907	7371	-12498
Start (Sedentary)			45399	36918	32691	24021	27334	36371	36455	23209	31359	22265	40876	44340	24471
Coyote	Buffer	4	40717	32237	28009	19339	22653	31689	31773	18527	26677	17583	36194	39658	19789
Lehi	Buffer	4	2714	-5766	-9993	-18664	-15350	-6313	-6230	-19475	-11326	-20420	-1808	1655	-18214
Crismon	Buffer	4	-10693	-19173	-23400	-32070	-28757	-19720	-19636	-32882	-24733	-33826	-15215	-11752	-31620
Scottsdale	Buffer	4	-27712	-36192	-40419	-49090	-45776	-36739	-36656	-49901	-41752	-50846	-32234	-28771	-48640
Riverview	Buffer	4	-69111	-77592	-81819	-90489	-87176	-78139	-78055	-91301	-83151	-92245	-73634	-70170	-90039
Canal System 2	Buffer	4	-112522	-121002	-125229	-133900	-130586	-121549	-121466	-134711	-126562	-135656	-117044	-113581	-133450

System	Acreage Method	Acre-feet	1045 Silk 2	1046 Silk 2	1047 Silk 2	1048 Silk 2	1049 Silk 2	1050 Silk 2	1051 Silk 2	1052 Silk 2	1053 Silk 2	1054 Silk 2	1055 Silk 2	1056 Silk 2
Start (Sedentary)			53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017
Coyote	SIU	3	52701	35148	56597	30454	41343	49850	36719	80057	37699	63670	33600	50997
Lehi	SIU	3	45048	27496	48944	22801	33691	42198	29066	72404	30046	56017	25947	43345
Crismon	SIU	3	42867	25314	46763	20620	31509	40016	26885	70223	27865	53836	23766	41163
Scottsdale	SIU	3	40048	22496	43945	17801	28691	37198	24067	67405	25046	51018	20947	38345
Riverview	SIU	3	36052	18500	39948	13805	24695	33202	20071	63409	21050	47021	16951	34349
Canal System 2	SIU	3	25994	8441	29890	3747	14636	23143	10012	53350	10992	36963	6893	24291
Start (Sedentary)			53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017
Coyote	Buffer	3	50209	32657	54105	27962	38852	47359	34228	77566	35207	61178	31108	48506
Lehi	Buffer	3	21707	4155	25603	-540	10350	18857	5726	49064	6705	32676	2606	20004
Crismon	Buffer	3	11652	-5900	15548	-10595	295	8802	-4330	39008	-3350	22621	-7449	9949
Scottsdale	Buffer	3	-1112	-18665	2784	-23360	-12470	-3963	-17094	26244	-16114	9857	-20214	-2816
Riverview	Buffer	3	-32162	-49714	-28266	-54409	-43520	-35013	-48144	-4806	-47164	-21193	-51263	-33865
Canal System 2	Buffer	3	-64720	-82272	-60824	-86967	-76077	-67570	-80701	-37363	-79722	-53751	-83821	-66423
Start (Sedentary)			53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017
Coyote	SIU	4	52361	34808	56257	30114	41003	49510	36379	79717	37359	63330	33260	50658
Lehi	SIU	4	42157	24605	46053	19910	30800	39307	26176	69514	27155	53126	23056	40454
Crismon	SIU	4	39249	21696	43145	17002	27891	36398	23267	66605	24247	50218	20148	37546
Scottsdale	SIU	4	35491	17939	39387	13244	24134	32641	19510	62848	20489	46460	16390	33788
Riverview	SIU	4	30163	12610	34059	7916	18805	27312	14181	57519	15161	41132	11062	28460
Canal System 2	SIU	4	16752	-801	20648	-5496	5394	13901	770	44108	1750	27721	-2350	15048
Start (Sedentary)			53720	36168	57616	31473	42363	50870	37739	81077	38718	64689	34619	52017
Coyote	Buffer	4	49039	31486	52935	26792	37681	46188	33057	76395	34037	60008	29938	47336
Lehi	Buffer	4	11036	-6516	14932	-11211	-321	8186	-4946	38392	-3966	22005	-8065	9333
Crismon	Buffer	4	-2371	-19923	1525	-24618	-13728	-5221	-18352	24986	-17373	8598	-21472	-4074
Scottsdale	Buffer	4	-19390	-36942	-15494	-41637	-30747	-22240	-35372	7966	-34392	-8421	-38491	-21093
Riverview	Buffer	4	-60790	-78342	-56894	-83037	-72147	-63640	-76771	-33433	-75792	-49821	-79891	-62493
Canal System 2	Buffer	4	-104200	-121752	-100304	-126447	-115557	-107050	-120182	-76844	-119202	-93231	-123301	-105903

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1057 Silk 2	1058 Silk 2	1059 Silk 2	1060 Silk 2	1061 Silk 2	1062 Silk 2	1063 Silk 2	1064 Silk 2	1065 Silk 2	1066 Silk 2	1067 Silk 2	1068 Silk 2	1069 Silk 2
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	SIU	3	45584	35523	31698	51942	48169	25940	51986	38638	44719	46929	12681	33948	30833
Lehi	SIU	3	37931	27871	24045	44289	40516	18287	44333	30986	37066	39277	5028	26295	23180
Crismon	SIU	3	35750	25689	21864	42108	38335	16106	42152	28804	34885	37095	2847	24114	20999
Scottsdale	SIU	3	32931	22871	19046	39290	35517	13288	39334	25986	32066	34277	28	21296	18181
Riverview	SIU	3	28935	18875	15049	35293	31521	9291	35337	21990	28070	30281	-3968	17300	14185
Canal System 2	SIU	3	18877	8816	4991	25235	21462	-767	25279	11932	18012	20222	-14026	7241	4126
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	Buffer	3	43092	33032	29206	49450	45678	23448	49494	36147	42227	44438	10189	31457	28342
Lehi	Buffer	3	14590	4530	704	20948	17176	-5054	20992	7645	13725	15936	-18313	2955	-161
Crismon	Buffer	3	4535	-5525	-9351	10893	7120	-15109	10937	-2410	3670	5881	-28368	-7101	-10216
Scottsdale	Buffer	3	-8230	-18290	-22115	-1871	-5644	-27873	-1827	-15175	-9094	-6884	-41132	-19865	-22980
Riverview	Buffer	3	-39279	-49339	-53165	-32921	-36694	-58923	-32877	-46224	-40144	-37934	-72182	-50915	-54030
Canal System 2	Buffer	3	-71837	-81897	-85723	-65479	-69251	-91481	-65435	-78782	-72702	-70491	-104740	-83472	-86588
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	SIU	4	45244	35183	31358	51602	47829	25600	51646	38299	44379	46589	12341	33608	30493
Lehi	SIU	4	35040	24980	21154	41398	37626	15396	41442	28095	34175	36386	2137	23405	20290
Crismon	SIU	4	32132	22071	18246	38490	34717	12488	38534	25187	31267	33477	-771	20496	17381
Scottsdale	SIU	4	28374	18314	14488	34732	30960	8730	34776	21429	27509	29720	-4529	16739	13624
Riverview	SIU	4	23046	12985	9160	29404	25631	3402	29448	16101	22181	24391	-9857	11410	8295
Canal System 2	SIU	4	9634	-426	-4251	15993	12220	-10009	16037	2689	8770	10980	-23268	-2001	-5116
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	Buffer	4	41922	31861	28036	48280	44507	22278	48324	34977	41057	43267	9019	30286	27171
Lehi	Buffer	4	3919	-6141	-9967	10277	6504	-15725	10321	-3026	3054	5265	-28984	-7717	-10832
Crismon	Buffer	4	-9488	-19548	-23374	-3130	-6902	-29132	-3086	-16433	-10353	-8142	-42391	-21123	-24238
Scottsdale	Buffer	4	-26507	-36567	-40393	-20149	-23922	-46151	-20105	-33452	-27372	-25161	-59410	-38143	-41258
Riverview	Buffer	4	-67907	-77967	-81792	-61549	-65321	-87551	-61504	-74852	-68772	-66561	-100810	-79542	-82657
Canal System 2	Buffer	4	-111317	-121377	-125203	-104959	-108732	-130961	-104915	-118262	-112182	-109971	-144220	-122953	-126068

System	Acreage Method	Acre-feet	1057 Silk 2	1058 Silk 2	1059 Silk 2	1060 Silk 2	1061 Silk 2	1062 Silk 2	1063 Silk 2	1064 Silk 2	1065 Silk 2	1066 Silk 2	1067 Silk 2	1068 Silk 2	1069 Silk 2
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	SIU	3	45584	35523	31698	51942	48169	25940	51986	38638	44719	46929	12681	33948	30833
Lehi	SIU	3	37931	27871	24045	44289	40516	18287	44333	30986	37066	39277	5028	26295	23180
Crismon	SIU	3	35750	25689	21864	42108	38335	16106	42152	28804	34885	37095	2847	24114	20999
Scottsdale	SIU	3	32931	22871	19046	39290	35517	13288	39334	25986	32066	34277	28	21296	18181
Riverview	SIU	3	28935	18875	15049	35293	31521	9291	35337	21990	28070	30281	-3968	17300	14185
Canal System 2	SIU	3	18877	8816	4991	25235	21462	-767	25279	11932	18012	20222	-14026	7241	4126
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	Buffer	3	43092	33032	29206	49450	45678	23448	49494	36147	42227	44438	10189	31457	28342
Lehi	Buffer	3	14590	4530	704	20948	17176	-5054	20992	7645	13725	15936	-18313	2955	-161
Crismon	Buffer	3	4535	-5525	-9351	10893	7120	-15109	10937	-2410	3670	5881	-28368	-7101	-10216
Scottsdale	Buffer	3	-8230	-18290	-22115	-1871	-5644	-27873	-1827	-15175	-9094	-6884	-41132	-19865	-22980
Riverview	Buffer	3	-39279	-49339	-53165	-32921	-36694	-58923	-32877	-46224	-40144	-37934	-72182	-50915	-54030
Canal System 2	Buffer	3	-71837	-81897	-85723	-65479	-69251	-91481	-65435	-78782	-72702	-70491	-104740	-83472	-86588
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	SIU	4	45244	35183	31358	51602	47829	25600	51646	38299	44379	46589	12341	33608	30493
Lehi	SIU	4	35040	24980	21154	41398	37626	15396	41442	28095	34175	36386	2137	23405	20290
Crismon	SIU	4	32132	22071	18246	38490	34717	12488	38534	25187	31267	33477	-771	20496	17381
Scottsdale	SIU	4	28374	18314	14488	34732	30960	8730	34776	21429	27509	29720	-4529	16739	13624
Riverview	SIU	4	23046	12985	9160	29404	25631	3402	29448	16101	22181	24391	-9857	11410	8295
Canal System 2	SIU	4	9634	-426	-4251	15993	12220	-10009	16037	2689	8770	10980	-23268	-2001	-5116
Start (Sedentary)			46603	36543	32718	52961	49189	26959	53006	39658	45738	47949	13700	34968	31853
Coyote	Buffer	4	41922	31861	28036	48280	44507	22278	48324	34977	41057	43267	9019	30286	27171
Lehi	Buffer	4	3919	-6141	-9967	10277	6504	-15725	10321	-3026	3054	5265	-28984	-7717	-10832
Crismon	Buffer	4	-9488	-19548	-23374	-3130	-6902	-29132	-3086	-16433	-10353	-8142	-42391	-21123	-24238
Scottsdale	Buffer	4	-26507	-36567	-40393	-20149	-23922	-46151	-20105	-33452	-27372	-25161	-59410	-38143	-41258
Riverview	Buffer	4	-67907	-77967	-81792	-61549	-65321	-87551	-61504	-74852	-68772	-66561	-100810	-79542	-82657
Canal System 2	Buffer	4	-111317	-121377	-125203	-104959	-108732	-130961	-104915	-118262	-112182	-109971	-144220	-122953	-126068

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1070 Silk 2	1071 Silk 2	1072 Silk 2	1073 Silk 2	1074 Silk 2	1075 Silk 2	1076 Silk 2	1077 Silk 2	1078 Silk 2	1079 Silk 2	1080 Silk 2	1081 Silk 2	1082 Silk 2
Start (Sedentary)			33803	45425	38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621
Coyote	SIU	3	32783	44405	37619	29086	36287	37416	52639	50697	39265	70385	58304	25843	67601
Lehi	SIU	3	25131	36753	29967	21433	28634	29764	44986	43045	31612	62733	50652	18190	59948
Crismon	SIU	3	22949	34571	27785	19252	26453	27582	42805	40863	29431	60551	48470	16009	57767
Scottsdale	SIU	3	20131	31753	24967	16434	23634	24764	39987	38045	26613	57733	45652	13190	54949
Riverview	SIU	3	16135	27757	20971	12437	19638	20768	35990	34049	22617	53737	41656	9194	50953
Canal System 2	SIU	3	6076	17699	10912	2379	9580	10709	25932	23991	12558	43678	31597	-864	40894
Start (Sedentary)			33803	45425	38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621
Coyote	Buffer	3	30292	41914	35128	26594	33795	34925	50147	48206	36774	67894	55813	23351	65110
Lehi	Buffer	3	1790	13412	6626	-1908	5293	6423	21645	19704	8271	39392	27311	-5151	36608
Crismon	Buffer	3	-8265	3357	-3429	-11963	-4762	-3632	11590	9649	-1784	29337	17256	-15206	26552
Scottsdale	Buffer	3	-21030	-9408	-16194	-24727	-17526	-16397	-1174	-3116	-14548	16572	4491	-27970	13788
Riverview	Buffer	3	-52080	-40457	-47244	-55777	-48576	-47447	-32224	-34165	-45598	-14477	-26558	-59020	-17262
Canal System 2	Buffer	3	-84637	-73015	-79801	-88335	-81134	-80004	-64782	-66723	-78156	-47035	-59116	-91578	-49819
Start (Sedentary)			33803	45425	38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621
Coyote	SIU	4	32443	44066	37279	28746	35947	37076	52299	50358	38925	70045	57964	25503	67261
Lehi	SIU	4	22240	33862	27076	18542	25743	26873	42095	40154	28722	59842	47761	15299	57058
Crismon	SIU	4	19331	30954	24167	15634	22835	23964	39187	37246	25813	56933	44852	12391	54149
Scottsdale	SIU	4	15574	27196	20410	11876	19077	20207	35429	33488	22056	53176	41095	8633	50392
Riverview	SIU	4	10245	21868	15081	6548	13749	14878	30101	28160	16727	47847	35766	3305	45063
Canal System 2	SIU	4	-3166	8456	1670	-6863	338	1467	16690	14748	3316	34436	22355	-10106	31652
Start (Sedentary)			33803	45425	38639	30105	37306	38436	53659	51717	40285	71405	59324	26862	68621
Coyote	Buffer	4	29121	40744	33957	25424	32625	33754	48977	47036	35603	66723	54642	22181	63939
Lehi	Buffer	4	-8881	2741	-4045	-12579	-5378	-4248	10974	9033	-2400	28721	16640	-15822	25936
Crismon	Buffer	4	-22288	-10666	-17452	-25986	-18785	-17655	-2433	-4374	-15806	15314	3233	-29229	12530
Scottsdale	Buffer	4	-39307	-27685	-34471	-43005	-35804	-34674	-19452	-21393	-32826	-1705	-13786	-46248	-4490
Riverview	Buffer	4	-80707	-69085	-75871	-84405	-77204	-76074	-60851	-62793	-74225	-43105	-55186	-87648	-45889
Canal System 2	Buffer	4	-124117	-112495	-119281	-127815	-120614	-119484	-104262	-106203	-117636	-86515	-98596	-131058	-89300

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1083 Silk 2	1084 Silk 2	1085 Silk 2	1086 Silk 2	1087 Silk 2	1088 Silk 2	1089 Silk 2	1090 Silk 2	1091 Silk 2	1092 Silk 2	1093 Silk 2	1094 Silk 2	1095 Silk 2
Start (Sedentary)			42297	47570	26355	22790	84474	29258	69239	23302	25181	51029	34496	26165	46228
Coyote	SIU	3	41277	46550	25335	21770	83455	28239	68219	22282	24162	50009	33476	25146	45208
Lehi	SIU	3	33624	38897	17683	14117	75802	20586	60566	14629	16509	42356	25823	17493	37556
Crismon	SIU	3	31443	36716	15501	11936	73621	18405	58385	12448	14328	40175	23642	15312	35374
Scottsdale	SIU	3	28625	33898	12683	9118	70802	15586	55567	9630	11509	37357	20824	12493	32556
Riverview	SIU	3	24629	29901	8687	5122	66806	11590	51570	5633	7513	33361	16828	8497	28560
Canal System 2	SIU	3	14570	19843	-1372	-4937	56748	1532	41512	-4425	-2545	23302	6769	-1561	18502
Start (Sedentary)			42297	47570	26355	22790	84474	29258	69239	23302	25181	51029	34496	26165	46228
Coyote	Buffer	3	38786	44058	22844	19279	80963	25747	65727	19790	21670	47518	30985	22654	42717
Lehi	Buffer	3	10283	15556	-5658	-9224	52461	-2755	37225	-8712	-6832	19016	2482	-5848	14215
Crismon	Buffer	3	228	5501	-15713	-19279	42406	-12810	27170	-18767	-16887	8960	-7573	-15903	4160
Scottsdale	Buffer	3	-12536	-7263	-28478	-32043	29642	-25575	14406	-31531	-29652	-3804	-20337	-28668	-8605
Riverview	Buffer	3	-43586	-38313	-59528	-63093	-1408	-56624	-16644	-62581	-60701	-34854	-51387	-59717	-39654
Canal System 2	Buffer	3	-76144	-70871	-92085	-95651	-33966	-89182	-49202	-95139	-93259	-67411	-83945	-92275	-72212
Start (Sedentary)			42297	47570	26355	22790	84474	29258	69239	23302	25181	51029	34496	26165	46228
Coyote	SIU	4	40937	46210	24995	21430	83115	27899	67879	21942	23822	49669	33136	24806	44869
Lehi	SIU	4	30734	36006	14792	11227	72911	17695	57675	11738	13618	39466	22933	14602	34665
Crismon	SIU	4	27825	33098	11883	8318	70003	14787	54767	8830	10710	36557	20024	11694	31757
Scottsdale	SIU	4	24068	29340	8126	4561	66245	11029	51009	5072	6952	32800	16267	7936	27999
Riverview	SIU	4	18739	24012	2797	-768	60917	5701	45681	-256	1624	27471	10938	2608	22671
Canal System 2	SIU	4	5328	10601	-10614	-14179	47506	-7711	32270	-13667	-11788	14060	-2473	-10804	9259
Start (Sedentary)			42297	47570	26355	22790	84474	29258	69239	23302	25181	51029	34496	26165	46228
Coyote	Buffer	4	37615	42888	21673	18108	79793	24577	64557	18620	20500	46347	29814	21484	41547
Lehi	Buffer	4	-388	4885	-16329	-19895	41790	-13426	26554	-19383	-17503	8344	-8189	-16519	3544
Crismon	Buffer	4	-13794	-8522	-29736	-33301	28383	-26833	13147	-32790	-30910	-5062	-21595	-29926	-9863
Scottsdale	Buffer	4	-30814	-25541	-46755	-50321	11364	-43852	-3872	-49809	-47929	-22082	-38615	-46945	-26882
Riverview	Buffer	4	-72213	-66940	-88155	-91720	-30036	-85252	-45271	-91208	-89329	-63481	-80014	-88345	-68282
Canal System 2	Buffer	4	-115624	-110351	-131565	-135131	-73446	-128662	-88682	-134619	-132739	-106892	-123425	-131755	-111692

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1096 Silk 2	1097 Silk 2	1098 Silk 2	1099 Silk 2	Total Deficits
Start (Sedentary)			45235	26201	30357	23897	
Coyote	SIU	3	44216	25181	29337	22878	0
Lehi	SIU	3	36563	17528	21685	15225	0
Crismon	SIU	3	34382	15347	19503	13044	0
Scottsdale	SIU	3	31563	12529	16685	10225	0
Riverview	SIU	3	27567	8532	12689	6229	1
Canal System 2	SIU	3	17509	-1526	2630	-3829	21
Start (Sedentary)			45235	26201	30357	23897	
Coyote	Buffer	3	41724	22689	26846	20386	0
Lehi	Buffer	3	13222	-5813	-1656	-8116	29
Crismon	Buffer	3	3167	-15868	-11711	-18171	58
Scottsdale	Buffer	3	-9597	-28632	-24476	-30936	85
Riverview	Buffer	3	-40647	-59682	-55526	-61985	100
Canal System 2	Buffer	3	-73205	-92240	-88083	-94543	100
Start (Sedentary)			45235	26201	30357	23897	
Coyote	SIU	4	43876	24841	28997	22538	0
Lehi	SIU	4	33672	14637	18794	12334	0
Crismon	SIU	4	30764	11729	15885	9426	1
Scottsdale	SIU	4	27006	7971	12128	5668	2
Riverview	SIU	4	21678	2643	6799	340	8
Canal System 2	SIU	4	8267	-10768	-6612	-13072	45
Start (Sedentary)			45235	26201	30357	23897	
Coyote	Buffer	4	40554	21519	25675	19216	0
Lehi	Buffer	4	2551	-16484	-12327	-18787	61
Crismon	Buffer	4	-10856	-29891	-25734	-32194	85
Scottsdale	Buffer	4	-27875	-46910	-42753	-49213	98
Riverview	Buffer	4	-69275	-88309	-84153	-90613	100
Canal System 2	Buffer	4	-112685	-131720	-127563	-134023	100

System	Acreage Method	Acre-feet	1100 Plant 1	1101 Plant 1	1102 Plant 1	1103 Plant 1	1104 Plant 1	1105 Plant 1	1106 Plant 1	1107 Plant 1	1108 Plant 1	1109 Plant 1	1110 Plant 1	1111 Plant 1	1112 Plant 1	1113 Plant 1
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433	90980
Coyote	SIU	1	158860	79215	117155	156467	96275	228862	109332	75773	105946	158314	120150	120262	143004	90551
Lehi	SIU	1	156309	76665	114605	153916	93724	226311	106781	73222	103395	155763	117599	117711	140453	88000
Los Muertos	SIU	1	147770	68125	106065	145377	85185	217772	98242	64683	94855	147224	109060	109172	131914	79461
Crismon	SIU	1	146648	67003	104943	144255	84063	216650	97120	63561	93733	146102	107938	108050	130792	78339
Scottsdale	SIU	1	145708	66064	104004	143315	83124	215710	96181	62621	92794	145163	106999	107111	129852	77400
Riverview	SIU	1	140796	61151	99091	138403	78211	210798	91268	57709	87881	140250	102086	102198	124940	72487
Canal System 2	SIU	1	134240	54595	92535	131847	71655	204242	84712	51153	81325	133694	95530	95642	118384	65931
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433	90980
Coyote	Buffer	1	158119	78474	116414	155725	95534	228121	108591	75031	105204	157573	119409	119521	142262	89810
Lehi	Buffer	1	148618	68973	106913	146225	86033	218620	99090	65531	95703	148072	109908	110020	132762	80309
Los Muertos	Buffer	1	131045	51401	89341	128652	68461	201047	81518	47958	78131	130500	92336	92448	115189	62737
Crismon	Buffer	1	127249	47605	85545	124856	64664	197251	77722	44162	74335	126703	88540	88652	111393	58941
Scottsdale	Buffer	1	122994	43350	81290	120601	60410	192997	73467	39907	70080	122449	84285	84397	107138	54686
Riverview	Buffer	1	107350	27706	65646	104957	44765	177352	57823	24263	54436	106804	68641	68753	91494	39042
Canal System 2	Buffer	1	88413	8768	46708	86020	25828	158415	38885	5325	35498	87867	49703	49815	72557	20104
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433	90980
Coyote	SIU	2	158431	78786	116726	156038	95846	228433	108903	75344	105517	157885	119721	119833	142575	90122
Lehi	SIU	2	153329	73685	111625	150936	90744	223331	103802	70242	100415	152783	114620	114731	137473	85020
Los Muertos	SIU	2	136251	56606	94546	133857	73666	206253	86723	53163	83336	135705	97541	97653	120394	67942
Crismon	SIU	2	134007	54362	92302	131613	71422	204009	84479	50919	81092	133461	95297	95409	118150	65698
Scottsdale	SIU	2	132128	52483	90423	129735	69543	202130	82600	49041	79213	131582	93418	93530	116272	63819
Riverview	SIU	2	122303	42658	80598	119909	59718	192305	72775	39215	69388	121757	83593	83705	106446	53994
Canal System 2	SIU	2	109191	29546	67486	106797	46606	179193	59663	26103	56276	108645	70481	70593	93334	40882
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433	90980
Coyote	Buffer	2	156948	77304	115244	154555	94363	226950	107421	73861	104034	156402	118239	118350	141092	88639
Lehi	Buffer	2	137947	58302	96242	135554	75362	207949	88419	54860	85032	137401	99237	99349	122091	69638
Los Muertos	Buffer	2	102802	23157	61097	100409	40217	172804	53274	19715	49887	102256	64092	64204	86946	34493
Crismon	Buffer	2	95210	15565	53505	92816	32625	165212	45682	12122	42295	94664	56500	56612	79353	26901
Scottsdale	Buffer	2	86700	7055	44995	84307	24115	156702	37172	3613	33786	86154	47990	48102	70844	18391
Riverview	Buffer	2	55412	-24233	13707	53018	-7173	125414	5884	-27676	2497	54866	16702	16814	39555	-12897
Canal System 2	Buffer	2	17536	-62108	-24168	15143	-45048	87538	-31991	-65551	-35378	16991	-21173	-21061	1680	-50772

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1114 Plant 1	1115 Plant 1	1116 Plant 1	1117 Plant 1	1118 Plant 1	1119 Plant 1	1120 Plant 1	1121 Plant 1	1122 Plant 1	1123 Plant 1	1124 Plant 1	1125 Plant 1	1126 Plant 1	1127 Plant 1
Start (E. Classic)			206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833	121643	197495
Coyote	SIU	1	206372	148980	138903	162079	118009	162918	76291	81861	212922	108871	154438	111404	121214	197066
Lehi	SIU	1	203821	146429	136352	159528	115458	160368	73740	79310	210371	106320	151887	108853	118663	194515
Los Muertos	SIU	1	195282	137889	127813	150989	106919	151828	65200	70770	201832	97780	143347	100313	110124	185976
Crismon	SIU	1	194160	136767	126691	149867	105797	150706	64078	69648	200710	96658	142225	99191	109002	184854
Scottsdale	SIU	1	193221	135828	125752	148927	104858	149767	63139	68709	199770	95719	141286	98252	108062	183914
Riverview	SIU	1	188308	130915	120839	144015	99945	144854	58226	63796	194858	90806	136373	93339	103150	179002
Canal System 2	SIU	1	181752	124359	114283	137459	93389	138298	51670	57240	188302	84250	129817	86783	96594	172446
Start (E. Classic)			206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833	121643	197495
Coyote	Buffer	1	205631	148238	138162	161337	117268	162177	75549	81119	212181	108129	153696	110662	120473	196324
Lehi	Buffer	1	196130	138738	128661	151837	107767	152676	66048	71618	202680	98628	144196	101161	110972	186824
Los Muertos	Buffer	1	178558	121165	111089	134264	90195	135104	48476	54046	185107	81056	126623	83589	93399	169251
Crismon	Buffer	1	174762	117369	107293	130468	86398	131308	44680	50250	181311	77260	122827	79793	89603	165455
Scottsdale	Buffer	1	170507	113114	103038	126213	82144	127053	40425	45995	177056	73005	118572	75538	85348	161200
Riverview	Buffer	1	154863	97470	87394	110569	66499	111409	24781	30351	161412	57361	102928	59894	69704	145556
Canal System 2	Buffer	1	135925	78532	68456	91631	47562	92471	5843	11413	142475	38423	83990	40956	50767	126619
Start (E. Classic)			206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833	121643	197495
Coyote	SIU	2	205943	148551	138474	161650	117580	162489	75862	81432	212493	108442	154009	110975	120785	196637
Lehi	SIU	2	200842	143449	133373	156548	112478	157388	70760	76330	207391	103340	148907	105873	115683	191535
Los Muertos	SIU	2	183763	126370	116294	139469	95400	140309	53681	59251	190313	86261	131828	88794	98605	174456
Crismon	SIU	2	181519	124126	114050	137225	93156	138065	51437	57007	188069	84017	129584	86550	96361	172212
Scottsdale	SIU	2	179640	122247	112171	135347	91277	136186	49558	55128	186190	82138	127705	84671	94482	170334
Riverview	SIU	2	169815	112422	102346	125521	81452	126361	39733	45303	176365	72313	117880	74846	84657	160508
Canal System 2	SIU	2	156703	99310	89234	112409	68340	113249	26621	32191	163253	59201	104768	61734	71545	147396
Start (E. Classic)			206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833	121643	197495
Coyote	Buffer	2	204461	147068	136992	160167	116097	161007	74379	79949	211010	106959	152526	109492	119302	195154
Lehi	Buffer	2	185459	128066	117990	141166	97096	142005	55377	60947	192009	87957	133524	90490	100301	176153
Los Muertos	Buffer	2	150314	92921	82845	106021	61951	106860	20232	25802	156864	52812	98379	55345	65156	141008
Crismon	Buffer	2	142722	85329	75253	98428	54359	99268	12640	18210	149272	45220	90787	47753	57564	133415
Scottsdale	Buffer	2	134212	76820	66743	89919	45849	90758	4131	9701	140762	36711	82278	39244	49054	124906
Riverview	Buffer	2	102924	45531	35455	58630	14561	59470	-27158	-21588	109474	5422	50989	7955	17766	93617
Canal System 2	Buffer	2	65049	7656	-2420	20755	-23314	21595	-65033	-59463	71598	-32453	13114	-29920	-20110	55742

System	Acreage Method	Acre-feet	1128 Plant 1	1129 Plant 1	1130 Plant 1	1131 Plant 1	1132 Plant 1	1133 Plant 1	1134 Plant 1	1135 Plant 1	1136 Plant 1	1137 Plant 1	1138 Plant 1	1139 Plant 1	1140 Plant 1	1141 Plant 1
Start (E. Classic)			150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675	150976	89749	163361
Coyote	SIU	1	150421	270427	144165	74667	94456	65710	104630	114524	123817	85989	138246	150547	89320	162932
Lehi	SIU	1	147870	267876	141615	72116	91905	63160	102079	111974	121266	83438	135695	147996	86769	160382
Los Muertos	SIU	1	139331	259336	133075	63577	83366	54620	93540	103434	112727	74899	127155	139457	78230	151842
Crismon	SIU	1	138209	258214	131953	62455	82244	53498	92418	102312	111605	73777	126033	138335	77108	150720
Scottsdale	SIU	1	137270	257275	131014	61516	81304	52559	91478	101373	110665	72837	125094	137395	76168	149781
Riverview	SIU	1	132357	252362	126101	56603	76392	47646	86566	96460	105753	67925	120181	132483	71256	144868
Canal System 2	SIU	1	125801	245806	119545	50047	69836	41090	80010	89904	99197	61369	113625	125927	64700	138312
Start (E. Classic)			150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675	150976	89749	163361
Coyote	Buffer	1	149680	269685	143424	73926	93714	64969	103889	113783	123076	85248	137504	149806	88578	162191
Lehi	Buffer	1	140179	260185	133923	64425	84214	55468	94388	104282	113575	75747	128004	140305	79078	152690
Los Muertos	Buffer	1	122607	242612	116351	46853	66641	37896	76815	86710	96002	58174	110431	122732	61505	135118
Crismon	Buffer	1	118810	238816	112555	43056	62845	34100	73019	82914	92206	54378	106635	118936	57709	131322
Scottsdale	Buffer	1	114556	234561	108300	38802	58590	29845	68765	78659	87951	50123	102380	114682	53454	127067
Riverview	Buffer	1	98911	218917	92656	23157	42946	14201	53120	63015	72307	34479	86736	99037	37810	111423
Canal System 2	Buffer	1	79974	199979	73718	4220	24009	-4737	34183	44077	53370	15542	67798	80100	18872	92485
Start (E. Classic)			150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675	150976	89749	163361
Coyote	SIU	2	149992	269998	143736	74238	94027	65281	104201	114095	123388	85560	137817	150118	88891	162503
Lehi	SIU	2	144890	264896	138635	69136	88925	60180	99099	108994	118286	80458	132715	145016	83789	157402
Los Muertos	SIU	2	127812	247817	121556	52058	71846	43101	82021	91915	101208	63380	115636	127938	66710	140323
Crismon	SIU	2	125568	245573	119312	49814	69602	40857	79777	89671	98964	61136	113392	125694	64466	138079
Scottsdale	SIU	2	123689	243694	117433	47935	67724	38978	77898	87792	97085	59257	111513	123815	62588	136200
Riverview	SIU	2	113864	233869	107608	38110	57898	29153	68073	77967	87260	49432	101688	113990	52762	126375
Canal System 2	SIU	2	100752	220757	94496	24998	44786	16041	54961	64855	74148	36320	88576	100878	39650	113263
Start (E. Classic)			150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675	150976	89749	163361
Coyote	Buffer	2	148509	268515	142254	72755	92544	63799	102718	112613	121905	84077	136334	148635	87408	161021
Lehi	Buffer	2	129508	249513	123252	53754	73543	44797	83717	93611	102904	65076	117332	129634	68407	142019
Los Muertos	Buffer	2	94363	214368	88107	18609	38398	9652	48572	58466	67759	29931	82187	94489	33262	106874
Crismon	Buffer	2	86771	206776	80515	11017	30805	2060	40980	50874	60167	22339	74595	86897	25669	99282
Scottsdale	Buffer	2	78261	198267	72005	2507	22296	-6450	32470	42364	51657	13829	66086	78387	17160	90772
Riverview	Buffer	2	46973	166978	40717	-28781	-8993	-37738	1182	11076	20369	-17459	34797	47099	-14129	59484
Canal System 2	Buffer	2	9098	129103	2842	-66656	-46868	-75613	-36694	-26799	-17507	-55335	-3078	9223	-52004	21609

System	Acreage Method	Acre-feet	1142 Plant 1	1143 Plant 1	1144 Plant 1	1145 Plant 1	1146 Plant 1	1147 Plant 1	1148 Plant 1	1149 Plant 1	1150 Plant 1	1151 Plant 1	1152 Plant 1	1153 Plant 1	1154 Plant 1	1155 Plant 1
Start (E. Classic)			88013	108642	150962	148751	54888	227892	132839	166160	50185	108082	164271	157750	171730	170933
Coyote	SIU	1	87584	108213	150533	148322	54459	227463	132410	165731	49756	107653	163842	157321	171301	170504
Lehi	SIU	1	85033	105662	147982	145771	51908	224912	129859	163181	47206	105102	161291	154770	168750	167953
Los Muertos	SIU	1	76494	97123	139443	137232	43368	216372	121320	154641	38666	96563	152752	146230	160211	159413
Crismon	SIU	1	75372	96001	138321	136110	42246	215250	120198	153519	37544	95441	151630	145108	159089	158291
Scottsdale	SIU	1	74433	95061	137381	135170	41307	214311	119258	152580	36605	94501	150691	144169	158150	157352
Riverview	SIU	1	69520	90149	132469	130258	36394	209398	114346	147667	31692	89589	145778	139256	153237	152439
Canal System 2	SIU	1	62964	83593	125913	123702	29838	202842	107790	141111	25136	83033	139222	132700	146681	145883
Start (E. Classic)			88013	108642	150962	148751	54888	227892	132839	166160	50185	108082	164271	157750	171730	170933
Coyote	Buffer	1	86843	107471	149792	147580	53717	226721	131668	164990	49015	106912	163101	156579	170560	169762
Lehi	Buffer	1	77342	97971	140291	138080	44217	217220	122168	155489	39514	97411	153600	147078	161059	160262
Los Muertos	Buffer	1	59770	80398	122718	120507	26644	199648	104595	137917	21942	79838	136028	129506	143487	142689
Crismon	Buffer	1	55974	76602	118922	116711	22848	195852	100799	134121	18146	76042	132231	125710	139691	138893
Scottsdale	Buffer	1	51719	72347	114668	112456	18593	191597	96544	129866	13891	71787	127977	121455	135436	134638
Riverview	Buffer	1	36075	56703	99023	96812	2949	175953	80900	114222	-1753	56143	112332	105811	119792	118994
Canal System 2	Buffer	1	17137	37765	80086	77875	-15989	157015	61962	95284	-20691	37206	93395	86873	100854	100056
Start (E. Classic)			88013	108642	150962	148751	54888	227892	132839	166160	50185	108082	164271	157750	171730	170933
Coyote	SIU	2	87155	107784	150104	147893	54030	227034	131981	165302	49327	107224	163413	156892	170872	170075
Lehi	SIU	2	82054	102682	145002	142791	48928	221932	126879	160201	44226	102122	158311	151790	165771	164973
Los Muertos	SIU	2	64975	85603	127924	125712	31849	204853	109800	143122	27147	85044	141233	134711	148692	147894
Crismon	SIU	2	62731	83359	125680	123468	29605	202609	107556	140878	24903	82800	138989	132467	146448	145650
Scottsdale	SIU	2	60852	81481	123801	121590	27726	200730	105678	138999	23024	80921	137110	130588	144569	143771
Riverview	SIU	2	51027	71655	113976	111764	17901	190905	95852	129174	13199	71096	127285	120763	134744	133946
Canal System 2	SIU	2	37915	58543	100864	98652	4789	177793	82740	116062	87	57984	114173	107651	121632	120834
Start (E. Classic)			88013	108642	150962	148751	54888	227892	132839	166160	50185	108082	164271	157750	171730	170933
Coyote	Buffer	2	85673	106301	148621	146410	52547	225551	130498	163820	47845	105741	161930	155409	169390	168592
Lehi	Buffer	2	66671	87300	129620	127409	33545	206549	111497	144818	28843	86740	142929	136407	150388	149590
Los Muertos	Buffer	2	31526	52155	94475	92264	-1600	171404	76352	109673	-6302	51595	107784	101262	115243	114445
Crismon	Buffer	2	23934	44562	86883	84671	-9192	163812	68759	102081	-13894	44003	100192	93670	107651	106853
Scottsdale	Buffer	2	15424	36053	78373	76162	-17701	155303	60250	93571	-22404	35493	91682	85161	99141	98344
Riverview	Buffer	2	-15864	4764	47085	44873	-48990	124014	28961	62283	-53692	4205	60394	53872	67853	67055
Canal System 2	Buffer	2	-53739	-33111	9209	6998	-86865	86139	-8914	24408	-91567	-33671	22519	15997	29978	29180

System	Acreage Method	Acre-feet	1156 Plant 1	1157 Plant 1	1158 Plant 1	1159 Plant 1	1160 Plant 1	1161 Plant 1	1162 Plant 1	1163 Plant 1	1164 Plant 1	1165 Plant 1	1166 Plant 1	1167 Plant 1	1168 Plant 1	1169 Plant 1
Start (E. Classic)			59744	154615	59982	150094	153131	80512	210678	173396	103744	183094	110769	181219	48828	74606
Coyote	SIU	1	59315	154186	59553	149665	152702	80083	210249	172967	103315	182665	110340	180790	48399	74177
Lehi	SIU	1	56764	151635	57002	147114	150151	77532	207698	170416	100764	180114	107789	178239	45848	71626
Los Muertos	SIU	1	48225	143096	48463	138575	141612	68993	199159	161877	92224	171575	99250	169700	37309	63087
Crismon	SIU	1	47103	141974	47341	137453	140490	67871	198037	160755	91102	170453	98128	168578	36187	61965
Scottsdale	SIU	1	46163	141034	46401	136514	139551	66932	197097	159815	90163	169514	97188	167638	35247	61026
Riverview	SIU	1	41251	136122	41489	131601	134638	62019	192185	154903	85250	164601	92276	162726	30335	56113
Canal System 2	SIU	1	34695	129566	34933	125045	128082	55463	185629	148347	78694	158045	85720	156170	23779	49557
Start (E. Classic)			59744	154615	59982	150094	153131	80512	210678	173396	103744	183094	110769	181219	48828	74606
Coyote	Buffer	1	58573	153444	58811	148924	151961	79342	209508	172225	102573	181924	109599	180048	47658	73436
Lehi	Buffer	1	49073	143944	49311	139423	142460	69841	200007	162725	93072	172423	100098	170548	38157	63935
Los Muertos	Buffer	1	31500	126371	31738	121851	124888	52269	182434	145152	75500	154851	82525	152975	20584	46363
Crismon	Buffer	1	27704	122575	27942	118055	121092	48472	178638	141356	71704	151054	78729	149179	16788	42567
Scottsdale	Buffer	1	23449	118320	23687	113800	116837	44218	174383	137101	67449	146800	74474	144924	12533	38312
Riverview	Buffer	1	7805	102676	8043	98156	101193	28573	158739	121457	51805	131155	58830	129280	-3111	22668
Canal System 2	Buffer	1	-11132	83738	-10895	79218	82255	9636	139802	102519	32867	112218	39893	110343	-22048	3730
Start (E. Classic)			59744	154615	59982	150094	153131	80512	210678	173396	103744	183094	110769	181219	48828	74606
Coyote	SIU	2	58886	153757	59124	149236	152273	79654	209820	172538	102886	182236	109911	180361	47970	73748
Lehi	SIU	2	53784	148655	54022	144135	147171	74552	204718	167436	97784	177134	104809	175259	42868	68647
Los Muertos	SIU	2	36705	131576	36943	127056	130093	57474	187640	150357	80705	160056	87731	158180	25790	51568
Crismon	SIU	2	34461	129332	34699	124812	127849	55230	185396	148113	78461	157812	85487	155936	23546	49324
Scottsdale	SIU	2	32583	127454	32821	122933	125970	53351	183517	146235	76582	155933	83608	154058	21667	47445
Riverview	SIU	2	22757	117628	22995	113108	116145	43526	173692	136409	66757	146108	73783	144232	11842	37620
Canal System 2	SIU	2	9645	104516	9883	99996	103033	30414	160580	123297	53645	132996	60671	131120	-1270	24508
Start (E. Classic)			59744	154615	59982	150094	153131	80512	210678	173396	103744	183094	110769	181219	48828	74606
Coyote	Buffer	2	57403	152274	57641	147754	150790	78171	208337	171055	101403	180753	108428	178878	46487	72266
Lehi	Buffer	2	38402	133273	38640	128752	131789	59170	189336	152054	82401	161752	89427	159877	27486	53264
Los Muertos	Buffer	2	3257	98128	3495	93607	96644	24025	154191	116909	47256	126607	54282	124732	-7659	18119
Crismon	Buffer	2	-4336	90535	-4098	86015	89052	16433	146599	109316	39664	119015	46690	117139	-15251	10527
Scottsdale	Buffer	2	-12845	82026	-12607	77505	80542	7923	138089	100807	31155	110505	38180	108630	-23761	2017
Riverview	Buffer	2	-44134	50737	-43896	46217	49254	-23365	106801	69518	-134	79217	6892	77341	-55049	-29271
Canal System 2	Buffer	2	-82009	12862	-81771	8342	11379	-61240	68925	31643	-38009	41342	-30984	39466	-92925	-67146

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1170 Plant 1	1171 Plant 1	1172 Plant 1	1173 Plant 1	1174 Plant 1	1175 Plant 1	1176 Plant 1	1177 Plant 1	1178 Plant 1	1179 Plant 1	1180 Plant 1	1181 Plant 1	1182 Plant 1	1183 Plant 1
Start (E. Classic)			111973	165349	176783	212329	103856	54860	101392	69260	170933	94297	157736	177608	59814	159177
Coyote	SIU	1	111544	164920	176354	211900	103427	54431	100963	68831	170504	93868	157307	177179	59385	158748
Lehi	SIU	1	108993	162369	173803	209349	100876	51880	98413	66280	167953	91317	154756	174628	56834	156197
Los Muertos	SIU	1	100453	153830	165263	200810	92336	43340	89873	57741	159413	82778	146216	166089	48295	147658
Crismon	SIU	1	99331	152708	164141	199688	91214	42218	88751	56619	158291	81656	145094	164967	47173	146536
Scottsdale	SIU	1	98392	151768	163202	198749	90275	41279	87812	55680	157352	80716	144155	164028	46233	145596
Riverview	SIU	1	93479	146856	158289	193836	85362	36366	82899	50767	152439	75804	139242	159115	41321	140684
Canal System 2	SIU	1	86923	140300	151733	187280	78806	29810	76343	44211	145883	69248	132686	152559	34765	134128
Start (E. Classic)			111973	165349	176783	212329	103856	54860	101392	69260	170933	94297	157736	177608	59814	159177
Coyote	Buffer	1	110802	164178	175612	211159	102685	53689	100222	68090	169762	93127	156565	176438	58643	158007
Lehi	Buffer	1	101301	154678	166111	201658	93184	44189	90721	58589	160262	83626	147064	166937	49143	148506
Los Muertos	Buffer	1	83729	137105	148539	184086	75612	26616	73149	41017	142689	66053	129492	149365	31570	130933
Crismon	Buffer	1	79933	133309	144743	180290	71816	22820	69353	37221	138893	62257	125696	145568	27774	127137
Scottsdale	Buffer	1	75678	129054	140488	176035	67561	18565	65098	32966	134638	58003	121441	141314	23519	122883
Riverview	Buffer	1	60034	113410	124844	160391	51917	2921	49454	17322	118994	42358	105797	125669	7875	107238
Canal System 2	Buffer	1	41096	94472	105906	141453	32979	-16017	30516	-1616	100056	23421	86859	106732	-11062	88301
Start (E. Classic)			111973	165349	176783	212329	103856	54860	101392	69260	170933	94297	157736	177608	59814	159177
Coyote	SIU	2	111115	164491	175925	211471	102998	54002	100534	68402	170075	93439	156878	176750	58956	158319
Lehi	SIU	2	106013	159389	170823	206370	97896	48900	95433	63301	164973	88337	151776	171648	53854	153217
Los Muertos	SIU	2	88934	142310	153744	189291	80817	31821	78354	46222	147894	71259	134697	154570	36775	136139
Crismon	SIU	2	86690	140066	151500	187047	78573	29577	76110	43978	145650	69015	132453	152326	34531	133895
Scottsdale	SIU	2	84811	138188	149621	185168	76694	27698	74231	42099	143771	67136	130574	150447	32653	132016
Riverview	SIU	2	74986	128362	139796	175343	66869	17873	64406	32274	133946	57311	120749	140622	22827	122191
Canal System 2	SIU	2	61874	115250	126684	162231	53757	4761	51294	19162	120834	44199	107637	127510	9715	109079
Start (E. Classic)			111973	165349	176783	212329	103856	54860	101392	69260	170933	94297	157736	177608	59814	159177
Coyote	Buffer	2	109632	163008	174442	209989	101515	52519	99052	66920	168592	91956	155395	175267	57473	156836
Lehi	Buffer	2	90630	144007	155440	190987	82513	33517	80050	47918	149590	72955	136393	156266	38472	137835
Los Muertos	Buffer	2	55485	108862	120295	155842	47368	-1628	44905	12773	114445	37810	101248	121121	3327	102690
Crismon	Buffer	2	47893	101269	112703	148250	39776	-9220	37313	5181	106853	30218	93656	113529	-4266	95098
Scottsdale	Buffer	2	39384	92760	104194	139740	31267	-17729	28803	-3329	98344	21708	85147	105019	-12775	86588
Riverview	Buffer	2	8095	61471	72905	108452	-22	-49018	-2485	-34617	67055	-9580	53858	73731	-44064	55300
Canal System 2	Buffer	2	-29780	23596	35030	70577	-37897	-86893	-40360	-72492	29180	-47456	15983	35856	-81939	17424

System	Acreage Method	Acre-feet	1184 Plant 1	1185 Plant 1	1186 Plant 1	1187 Plant 1	1188 Plant 1	1189 Plant 1	1190 Plant 1	1191 Plant 1	1192 Plant 1	1193 Plant 1	1194 Plant 1	1195 Plant 1	1196 Plant 1	1197 Plant 1
Start (E. Classic)			217633	115359	85172	172542	119768	106710	187153	112588	86698	88181	114646	177496	146078	235197
Coyote	SIU	1	217204	114930	84743	172113	119339	106281	186724	112159	86269	87752	114217	177067	145649	234768
Lehi	SIU	1	214653	112379	82193	169562	116788	103731	184173	109608	83718	85201	111666	174516	143098	232217
Los Muertos	SIU	1	206114	103840	73653	161023	108248	95191	175633	101069	75179	76662	103126	165977	134559	223678
Crismon	SIU	1	204992	102718	72531	159901	107126	94069	174511	99947	74057	75540	102004	164855	133437	222556
Scottsdale	SIU	1	204053	101779	71592	158961	106187	93130	173572	99008	73117	74601	101065	163916	132497	221616
Riverview	SIU	1	199140	96866	66679	154049	101274	88217	168659	94095	68205	69688	96152	159003	127585	216704
Canal System 2	SIU	1	192584	90310	60123	147493	94718	81661	162103	87539	61649	63132	89596	152447	121029	210148
Start (E. Classic)			217633	115359	85172	172542	119768	106710	187153	112588	86698	88181	114646	177496	146078	235197
Coyote	Buffer	1	216463	114189	84002	171372	118597	105540	185982	111418	85527	87011	113475	176326	144907	234026
Lehi	Buffer	1	206962	104688	74501	161871	109097	96039	176482	101917	76027	77510	103974	166825	135407	224526
Los Muertos	Buffer	1	189390	87116	56929	144298	91524	78467	158909	84345	58454	59938	86402	149253	117834	206953
Crismon	Buffer	1	185594	83320	53133	140502	87728	74671	155113	80549	54658	56142	82606	145457	114038	203157
Scottsdale	Buffer	1	181339	79065	48878	136248	83473	70416	150858	76294	50403	51887	78351	141202	109783	198902
Riverview	Buffer	1	165695	63421	33234	120603	67829	54772	135214	60650	34759	36243	62707	125558	94139	183258
Canal System 2	Buffer	1	146757	44483	14296	101666	48891	35834	116276	41712	15822	17305	43769	106620	75202	164321
Start (E. Classic)			217633	115359	85172	172542	119768	106710	187153	112588	86698	88181	114646	177496	146078	235197
Coyote	SIU	2	216775	114501	84314	171684	118910	105852	186295	111730	85840	87323	113788	176638	145220	234339
Lehi	SIU	2	211674	109399	79213	166582	113808	100751	181193	106628	80738	82222	108686	171536	140118	229237
Los Muertos	SIU	2	194595	92321	62134	149504	96729	83672	164114	89550	63659	65143	91607	154458	123039	212158
Crismon	SIU	2	192351	90077	59890	147260	94485	81428	161870	87306	61415	62899	89363	152214	120795	209914
Scottsdale	SIU	2	190472	88198	58011	145381	92606	79549	159991	85427	59537	61020	87484	150335	118917	208036
Riverview	SIU	2	180647	78373	48186	135556	82781	69724	150166	75602	49711	51195	77659	140510	109091	198210
Canal System 2	SIU	2	167535	65261	35074	122444	69669	56612	137054	62490	36599	38083	64547	127398	95979	185098
Start (E. Classic)			217633	115359	85172	172542	119768	106710	187153	112588	86698	88181	114646	177496	146078	235197
Coyote	Buffer	2	215293	113018	82832	170201	117427	104370	184812	110247	84357	85841	112305	175155	143737	232856
Lehi	Buffer	2	196291	94017	63830	151200	98425	85368	165810	91246	65356	66839	93303	156154	124736	213855
Los Muertos	Buffer	2	161146	58872	28685	116055	63280	50223	130665	56101	30211	31694	58158	121009	89591	178710
Crismon	Buffer	2	153554	51280	21093	108463	55688	42631	123073	48509	22618	24102	50566	113417	81998	171117
Scottsdale	Buffer	2	145044	42770	12583	99953	47179	34121	114564	39999	14109	15592	42057	104907	73489	162608
Riverview	Buffer	2	113756	11482	-18705	68665	15890	2833	83275	8711	-17180	-15696	10768	73619	42200	131319
Canal System 2	Buffer	2	75881	-26393	-56580	30789	-21985	-35042	45400	-29164	-55055	-53571	-27107	35744	4325	93444

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1198 Plant 1	1199 Plant 1	1200 Plant 1	1201 Plant 1	1202 Plant 1	1203 Plant 1	1204 Plant 1	1205 Plant 1	1206 Plant 1	1207 Plant 1	1208 Plant 1	1209 Plant 1	1210 Plant 1	1211 Plant 1
Start (E. Classic)			105241	92135	304952	252247	210145	141595	139979	91152	98669	142811	108703	199539	166659	161066
Coyote	SIU	1	104812	91706	304523	251818	209716	141166	139550	90723	98240	142382	108274	199110	166230	160637
Lehi	SIU	1	102261	89156	301972	249268	207165	138615	136999	88172	95689	139832	105723	196559	163679	158087
Los Muertos	SIU	1	93722	80616	293433	240728	198626	130076	128459	79633	87150	131292	97184	188020	155140	149547
Crismon	SIU	1	92600	79494	292311	239606	197504	128954	127337	78511	86028	130170	96062	186898	154018	148425
Scottsdale	SIU	1	91660	78555	291371	238667	196564	128015	126398	77571	85088	129231	95122	185958	153079	147486
Riverview	SIU	1	86748	73642	286459	233754	191652	123102	121485	72659	80176	124318	90210	181046	148166	142573
Canal System 2	SIU	1	80192	67086	279903	227198	185096	116546	114929	66103	73620	117762	83654	174490	141610	136017
Start (E. Classic)			105241	92135	304952	252247	210145	141595	139979	91152	98669	142811	108703	199539	166659	161066
Coyote	Buffer	1	104071	90965	303781	251077	208974	140425	138808	89982	97499	141641	107532	198369	165489	159896
Lehi	Buffer	1	94570	81464	294281	241576	199474	130924	129307	80481	87998	132140	98032	188868	155988	150395
Los Muertos	Buffer	1	76997	63892	276708	224004	181901	113352	111735	62908	70425	114568	80459	171295	138416	132823
Crismon	Buffer	1	73201	60096	272912	220208	178105	109556	107939	59112	66629	110772	76663	167499	134619	129027
Scottsdale	Buffer	1	68947	55841	268657	215953	173850	105301	103684	54857	62374	106517	72408	163244	130365	124772
Riverview	Buffer	1	53302	40197	253013	200309	158206	89657	88040	39213	46730	90873	56764	147600	114720	109128
Canal System 2	Buffer	1	34365	21259	234075	181371	139269	70719	69102	20276	27793	71935	37826	128663	95783	90190
Start (E. Classic)			105241	92135	304952	252247	210145	141595	139979	91152	98669	142811	108703	199539	166659	161066
Coyote	SIU	2	104383	91277	304094	251389	209287	140737	139121	90294	97811	141953	107845	198681	165801	160208
Lehi	SIU	2	99281	86176	298992	246288	204185	135636	134019	85192	92709	136852	102743	193579	160699	155107
Los Muertos	SIU	2	82203	69097	281913	229209	187106	118557	116940	68114	75631	119773	85664	176501	143621	138028
Crismon	SIU	2	79959	66853	279669	226965	184862	116313	114696	65870	73387	117529	83420	174257	141377	135784
Scottsdale	SIU	2	78080	64974	277791	225086	182984	114434	112817	63991	71508	115650	81542	172378	139498	133905
Riverview	SIU	2	68255	55149	267965	215261	173158	104609	102992	54166	61683	105825	71716	162553	129673	124080
Canal System 2	SIU	2	55143	42037	254853	202149	160046	91497	89880	41054	48571	92713	58604	149441	116561	110968
Start (E. Classic)			105241	92135	304952	252247	210145	141595	139979	91152	98669	142811	108703	199539	166659	161066
Coyote	Buffer	2	102900	89795	302611	249907	207804	139255	137638	88811	96328	140471	106362	197198	164318	158726
Lehi	Buffer	2	83899	70793	283610	230905	188803	120253	118636	69810	77327	121469	87361	178197	145317	139724
Los Muertos	Buffer	2	48754	35648	248465	195760	153658	85108	83491	34665	42182	86324	52216	143052	110172	104579
Crismon	Buffer	2	41162	28056	240872	188168	146065	77516	75899	27073	34590	78732	44623	135460	102580	96987
Scottsdale	Buffer	2	32652	19546	232363	179658	137556	69006	67390	18563	26080	70222	36114	126950	94070	88477
Riverview	Buffer	2	1364	-11742	201074	148370	106267	37718	36101	-12725	-5208	38934	4825	95662	62782	57189
Canal System 2	Buffer	2	-36512	-49617	163199	110495	68392	-157	-1774	-50601	-43084	1059	-33050	57786	24907	19314

System	Acreage Method	Acre-feet	1212 Plant 1	1213 Plant 1	1214 Plant 1	1215 Plant 1	1216 Plant 1	1217 Plant 1	1218 Plant 1	1219 Plant 1	1220 Plant 1	1221 Plant 1	1222 Plant 1	1223 Plant 1	1224 Plant 1	1225 Plant 1
Start (E. Classic)			162820	112509	74247	63479	66689	52183	118806	185714	105861	85211	104924	142057	124731	129866
Coyote	SIU	1	162391	112080	73818	63050	66260	51754	118377	185285	105432	84782	104495	141628	124302	129437
Lehi	SIU	1	159840	109529	71267	60499	63709	49203	115826	182735	102881	82231	101944	139077	121752	126887
Los Muertos	SIU	1	151301	100989	62728	51959	55170	40664	107287	174195	94342	73692	93405	130538	113212	118347
Crismon	SIU	1	150179	99867	61606	50837	54048	39542	106165	173073	93220	72570	92283	129416	112090	117225
Scottsdale	SIU	1	149240	98928	60666	49898	53109	38602	105225	172134	92280	71631	91344	128477	111151	116286
Riverview	SIU	1	144327	94015	55754	44985	48196	33690	100313	167221	87368	66718	86431	123564	106238	111373
Canal System 2	SIU	1	137771	87459	49198	38429	41640	27134	93757	160665	80812	60162	79875	117008	99682	104817
Start (E. Classic)			162820	112509	74247	63479	66689	52183	118806	185714	105861	85211	104924	142057	124731	129866
Coyote	Buffer	1	161650	111338	73076	62308	65519	51012	117636	184544	104691	84041	103754	140887	123561	128696
Lehi	Buffer	1	152149	101838	63576	52807	56018	41512	108135	175043	95190	74540	94253	131386	114060	119195
Los Muertos	Buffer	1	134577	84265	46003	35235	38446	23939	90562	157471	77617	56968	76681	113814	96488	101623
Crismon	Buffer	1	130780	80469	42207	31439	34650	20143	86766	153675	73821	53171	72885	110018	92692	97827
Scottsdale	Buffer	1	126526	76214	37952	27184	30395	15888	82511	149420	69566	48917	68630	105763	88437	93572
Riverview	Buffer	1	110881	60570	22308	11540	14751	244	66867	133776	53922	33272	52986	90119	72793	77928
Canal System 2	Buffer	1	91944	41632	3370	-7398	-4187	-18693	47930	114838	34985	14335	34048	71181	53855	58990
Start (E. Classic)			162820	112509	74247	63479	66689	52183	118806	185714	105861	85211	104924	142057	124731	129866
Coyote	SIU	2	161962	111651	73389	62621	65831	51325	117948	184856	105003	84353	104066	141199	123873	129008
Lehi	SIU	2	156860	106549	68287	57519	60729	46223	112846	179755	99901	79251	98964	136098	118772	123907
Los Muertos	SIU	2	139782	89470	51208	40440	43651	29144	95768	162676	82823	62173	81886	119019	101693	106828
Crismon	SIU	2	137538	87226	48964	38196	41407	26900	93524	160432	80579	59929	79642	116775	99449	104584
Scottsdale	SIU	2	135659	85347	47086	36317	39528	25022	91645	158553	78700	58050	77763	114896	97570	102705
Riverview	SIU	2	125834	75522	37260	26492	29703	15196	81820	148728	68875	48225	67938	105071	87745	92880
Canal System 2	SIU	2	112722	62410	24148	13380	16591	2084	68708	135616	55763	35113	54826	91959	74633	79768
Start (E. Classic)			162820	112509	74247	63479	66689	52183	118806	185714	105861	85211	104924	142057	124731	129866
Coyote	Buffer	2	160479	110168	71906	61138	64348	49842	116465	183374	103520	82870	102583	139717	122391	127526
Lehi	Buffer	2	141478	91166	52905	42136	45347	30841	97464	164372	84519	63869	83582	120715	103389	108524
Los Muertos	Buffer	2	106333	56021	17760	6991	10202	-4304	62319	129227	49374	28724	48437	85570	68244	73379
Crismon	Buffer	2	98741	48429	10167	-601	2610	-11897	54727	121635	41782	21132	40845	77978	60652	65787
Scottsdale	Buffer	2	90231	39920	1658	-9110	-5900	-20406	46217	113125	33272	12622	32335	69468	52142	57277
Riverview	Buffer	2	58943	8631	-29631	-40399	-37188	-51695	14929	81837	1984	-18666	1047	38180	20854	25989
Canal System 2	Buffer	2	21068	-29244	-67506	-78274	-75063	-89570	-22947	43962	-35892	-56541	-36828	305	-17021	-11886

System	Acreage Method	Acre-feet	1226 Plant 1	1227 Plant 1	1228 Plant 1	1229 Plant 1	1230 Plant 1	1231 Plant 1	1232 Plant 1	1233 Plant 1	1234 Plant 1	1235 Plant 1	1236 Plant 1	1237 Plant 1	1238 Plant 1	1239 Plant 1
Start (E. Classic)			141742	40850	278319	213733	167883	127204	225863	84856	94689	185115	93976	151737	210604	152246
Coyote	SIU	1	141313	40421	277890	213304	167454	126775	225434	84427	94260	184686	93547	151308	210175	151817
Lehi	SIU	1	138762	37870	275340	210753	164903	124225	222883	81876	91709	182135	90996	148757	207624	149266
Los Muertos	SIU	1	130223	29330	266800	202214	156364	115685	214344	73337	83170	173595	82456	140217	199084	140727
Crismon	SIU	1	129101	28208	265678	201092	155242	114563	213222	72215	82048	172473	81334	139095	197962	139605
Scottsdale	SIU	1	128162	27269	264739	200153	154303	113624	212283	71276	81108	171534	80395	138156	197023	138665
Riverview	SIU	1	123249	22356	259826	195240	149390	108711	207370	66363	76196	166621	75482	133243	192110	133753
Canal System 2	SIU	1	116693	15800	253270	188684	142834	102155	200814	59807	69640	160065	68926	126687	185554	127197
Start (E. Classic)			141742	40850	278319	213733	167883	127204	225863	84856	94689	185115	93976	151737	210604	152246
Coyote	Buffer	1	140572	39679	277149	212563	166713	126034	224693	83686	93519	183944	92805	150566	209433	151075
Lehi	Buffer	1	131071	30179	267648	203062	157212	116533	215192	74185	84018	174443	83305	141065	199933	141575
Los Muertos	Buffer	1	113499	12606	250076	185490	139640	98961	197620	56613	66445	156871	65732	123493	182360	124002
Crismon	Buffer	1	109703	8810	246280	181694	135844	95165	193823	52817	62649	153075	61936	119697	178564	120206
Scottsdale	Buffer	1	105448	4555	242025	177439	131589	90910	189569	48562	58395	148820	57681	115442	174309	115951
Riverview	Buffer	1	89804	-11089	226381	161795	115945	75266	173924	32918	42750	133176	42037	99798	158665	100307
Canal System 2	Buffer	1	70866	-30027	207443	142857	97007	56328	154987	13980	23813	114238	23099	80860	139727	81370
Start (E. Classic)			141742	40850	278319	213733	167883	127204	225863	84856	94689	185115	93976	151737	210604	152246
Coyote	SIU	2	140884	39992	277461	212875	167025	126346	225005	83998	93831	184257	93118	150879	209746	151388
Lehi	SIU	2	135783	34890	272360	207774	161924	121245	219903	78897	88729	179155	88016	145777	204644	146286
Los Muertos	SIU	2	118704	17811	255281	190695	144845	104166	202825	61818	71651	162076	70937	128698	187565	129207
Crismon	SIU	2	116460	15567	253037	188451	142601	101922	200581	59574	69407	159832	68693	126454	185321	126963
Scottsdale	SIU	2	114581	13688	251158	186572	140722	100043	198702	57695	67528	157953	66814	124575	183442	125085
Riverview	SIU	2	104756	3863	241333	176747	130897	90218	188877	47870	57703	148128	56989	114750	173617	115259
Canal System 2	SIU	2	91644	-9249	228221	163635	117785	77106	175765	34758	44591	135016	43877	101638	160505	102147
Start (E. Classic)			141742	40850	278319	213733	167883	127204	225863	84856	94689	185115	93976	151737	210604	152246
Coyote	Buffer	2	139402	38509	275979	211393	165543	124864	223522	82516	92348	182774	91635	149396	208263	149905
Lehi	Buffer	2	120400	19507	256977	192391	146541	105862	204521	63514	73347	163772	72633	130394	189261	130904
Los Muertos	Buffer	2	85255	-15638	221832	157246	111396	70717	169376	28369	38202	128627	37488	95249	154116	95759
Crismon	Buffer	2	77663	-23230	214240	149654	103804	63125	161784	20777	30610	121035	29896	87657	146524	88166
Scottsdale	Buffer	2	69153	-31739	205730	141144	95294	54615	153274	12267	22100	112526	21387	79148	138015	79657
Riverview	Buffer	2	37865	-63028	174442	109856	64006	23327	121986	-19021	-9188	81237	-9902	47859	106726	48368
Canal System 2	Buffer	2	-10	######	136567	71981	26131	-14548	84111	-56896	-47064	43362	-47777	9984	68851	10493

System	Acreage Method	Acre-feet	1240 Plant 1	1241 Plant 1	1242 Plant 1	1243 Plant 1	1244 Plant 1	1245 Plant 1	1246 Plant 1	1247 Plant 1	1248 Plant 1	1249 Plant 1	1250 Plant 1	1251 Plant 1	1252 Plant 1	1253 Plant 1
Start (E. Classic)			93611	226402	152647	145498	141582	123674	72882	107522	211766	224298	97463	44406	119032	158164
Coyote	SIU	1	93182	225973	152218	145069	141153	123245	72453	107093	211337	223869	97034	43977	118603	157735
Lehi	SIU	1	90631	223422	149668	142518	138602	120694	69902	104542	208786	221318	94483	41426	116052	155185
Los Muertos	SIU	1	82092	214882	141128	133979	130062	112155	61363	96002	200247	212778	85943	32886	107512	146645
Crismon	SIU	1	80970	213760	140006	132857	128940	111033	60241	94880	199125	211656	84821	31764	106390	145523
Scottsdale	SIU	1	80031	212821	139067	131917	128001	110094	59301	93941	198186	210717	83882	30825	105451	144584
Riverview	SIU	1	75118	207908	134154	127005	123088	105181	54389	89028	193273	205804	78969	25912	100538	139671
Canal System 2	SIU	1	68562	201352	127598	120449	116532	98625	47833	82472	186717	199248	72413	19356	93982	133115
Start (E. Classic)			93611	226402	152647	145498	141582	123674	72882	107522	211766	224298	97463	44406	119032	158164
Coyote	Buffer	1	92441	225231	151477	144327	140411	122504	71711	106351	210596	223127	96292	43235	117861	156994
Lehi	Buffer	1	82940	215730	141976	134827	130911	113003	62211	96850	201095	213627	86791	33735	108361	147493
Los Muertos	Buffer	1	65368	198158	124404	117254	113338	95431	44638	79278	183523	196054	69219	16162	90788	129921
Crismon	Buffer	1	61572	194362	120608	113458	109542	91635	40842	75482	179727	192258	65423	12366	86992	126125
Scottsdale	Buffer	1	57317	190107	116353	109203	105287	87380	36587	71227	175472	188003	61168	8111	82737	121870
Riverview	Buffer	1	41673	174463	100709	93559	89643	71736	20943	55583	159828	172359	45524	-7533	67093	106226
Canal System 2	Buffer	1	22735	155525	81771	74621	70705	52798	2006	36645	140890	153421	26586	-26471	48155	87288
Start (E. Classic)			93611	226402	152647	145498	141582	123674	72882	107522	211766	224298	97463	44406	119032	158164
Coyote	SIU	2	92753	225544	151789	144640	140724	122816	72024	106664	210908	223440	96605	43548	118174	157306
Lehi	SIU	2	87651	220442	146688	139538	135622	117714	66922	101562	205806	218338	91503	38446	113072	152205
Los Muertos	SIU	2	70573	203363	129609	122459	118543	100636	49843	84483	188728	201259	74424	21367	95993	135126
Crismon	SIU	2	68329	201119	127365	120215	116299	98392	47599	82239	186484	199015	72180	19123	93749	132882
Scottsdale	SIU	2	66450	199240	125486	118337	114420	96513	45721	80360	184605	197136	70301	17244	91870	131003
Riverview	SIU	2	56625	189415	115661	108511	104595	86688	35895	70535	174780	187311	60476	7419	82045	121178
Canal System 2	SIU	2	43513	176303	102549	95399	91483	73576	22783	57423	161668	174199	47364	-5693	68933	108066
Start (E. Classic)			93611	226402	152647	145498	141582	123674	72882	107522	211766	224298	97463	44406	119032	158164
Coyote	Buffer	2	91270	224061	150307	143157	139241	121333	70541	105181	209425	221957	95122	42065	116691	155824
Lehi	Buffer	2	72269	205059	131305	124156	120239	102332	51540	86179	190424	202955	76120	23063	97689	136822
Los Muertos	Buffer	2	37124	169914	96160	89011	85094	67187	16395	51034	155279	167810	40975	-12082	62544	101677
Crismon	Buffer	2	29532	162322	88568	81418	77502	59595	8802	43442	147687	160218	33383	-19674	54952	94085
Scottsdale	Buffer	2	21022	153813	80058	72909	68993	51085	293	34933	139177	151709	24874	-28183	46443	85575
Riverview	Buffer	2	-10266	122524	48770	41620	37704	19797	-30996	3644	107889	120420	-6415	-59472	15154	54287
Canal System 2	Buffer	2	-48141	84649	10895	3745	-171	-18078	-68871	-34231	70014	82545	-44290	-97347	-22721	16412

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1254 Plant 1	1255 Plant 1	1256 Plant 1	1257 Plant 1	1258 Plant 1	1259 Plant 1	1260 Plant 1	1261 Plant 1	1262 Plant 1	1263 Plant 1	1264 Plant 1	1265 Plant 1	1266 Plant 1	1267 Plant 1
Start (E. Classic)			33810	225224	159377	130449	53623	458133	127408	148043	159763	57555	93371	132392	136433	171373
Coyote	SIU	1	33381	224795	158948	130020	53194	457704	126979	147614	159334	57126	92942	131963	136004	170944
Lehi	SIU	1	30830	222244	156397	127469	50644	455153	124428	145063	156783	54575	90391	129412	133453	168393
Los Muertos	SIU	1	22290	213705	147857	118930	42104	446613	115889	136524	148244	46036	81852	120872	124913	159854
Crismon	SIU	1	21168	212583	146735	117808	40982	445491	114767	135402	147122	44914	80730	119750	123791	158732
Scottsdale	SIU	1	20229	211643	145796	116868	40043	444552	113828	134462	146183	43974	79791	118811	122852	157792
Riverview	SIU	1	15316	206731	140883	111956	35130	439639	108915	129550	141270	39062	74878	113898	117939	152880
Canal System 2	SIU	1	8760	200175	134327	105400	28574	433083	102359	122994	134714	32506	68322	107342	111383	146324
Start (E. Classic)			33810	225224	159377	130449	53623	458133	127408	148043	159763	57555	93371	132392	136433	171373
Coyote	Buffer	1	32639	224053	158206	129279	52453	456962	126238	146873	158593	56385	92201	131221	135262	170203
Lehi	Buffer	1	23139	214553	148705	119778	42952	447462	116737	137372	149092	46884	82700	121720	125762	160702
Los Muertos	Buffer	1	5566	196980	131133	102205	25380	429889	99165	119799	131520	29311	65128	104148	108189	143129
Crismon	Buffer	1	1770	193184	127337	98409	21584	426093	95368	116003	127724	25515	61332	100352	104393	139333
Scottsdale	Buffer	1	-2485	188929	123082	94155	17329	421838	91114	111749	123469	21261	57077	96097	100138	135079
Riverview	Buffer	1	-18129	173285	107438	78510	1685	406194	75469	96104	107825	5616	41433	80453	84494	119434
Canal System 2	Buffer	1	-37067	154348	88500	59573	-17253	387256	56532	77167	88887	-13321	22495	61515	65556	100497
Start (E. Classic)			33810	225224	159377	130449	53623	458133	127408	148043	159763	57555	93371	132392	136433	171373
Coyote	SIU	2	32952	224366	158519	129591	52765	457275	126550	147185	158905	56697	92513	131534	135575	170515
Lehi	SIU	2	27850	219264	153417	124489	47664	452173	121448	142083	153803	51595	87411	126432	130473	165413
Los Muertos	SIU	2	10771	202185	136338	107411	30585	435094	104370	125005	136725	34517	70333	109353	113394	148335
Crismon	SIU	2	8527	199941	134094	105167	28341	432850	102126	122761	134481	32273	68089	107109	111150	146091
Scottsdale	SIU	2	6648	198063	132215	103288	26462	430971	100247	120882	132602	30394	66210	105230	109271	144212
Riverview	SIU	2	-3177	188237	122390	93463	16637	421146	90422	111057	122777	20569	56385	95405	99446	134387
Canal System 2	SIU	2	-16289	175125	109278	80351	3525	408034	77310	97945	109665	7457	43273	82293	86334	121275
Start (E. Classic)			33810	225224	159377	130449	53623	458133	127408	148043	159763	57555	93371	132392	136433	171373
Coyote	Buffer	2	31469	222883	157036	128108	51283	455792	125067	145702	157422	55214	91030	130051	134092	169032
Lehi	Buffer	2	12467	203882	138034	109107	32281	436790	106066	126701	138421	36213	72029	111049	115090	150031
Los Muertos	Buffer	2	-22678	168737	102889	73962	-2864	401645	70921	91556	103276	1068	36884	75904	79945	114886
Crismon	Buffer	2	-30270	161144	95297	66370	-10456	394053	63329	83964	95684	-6524	29292	68312	72353	107294
Scottsdale	Buffer	2	-38779	152635	86788	57860	-18966	385544	54819	75454	87174	-15034	20782	59803	63844	98784
Riverview	Buffer	2	-70068	121346	55499	26572	-50254	354255	23531	44166	55886	-46322	-10506	28514	32555	67496
Canal System 2	Buffer	2	######	83471	17624	-11304	-88129	316380	-14344	6290	18011	-84198	-48381	-9361	-5320	29620

System	Acreage Method	Acre-feet	1268 Plant 1	1269 Plant 1	1270 Plant 1	1271 Plant 1	1272 Plant 1	1273 Plant 1	1274 Plant 1	1275 Plant 1	1276 Plant 1	1277 Plant 1	1278 Plant 1	1279 Plant 1	1280 Plant 1	1281 Plant 1
Start (E. Classic)			215105	140218	86418	178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209
Coyote	SIU	1	214676	139789	85989	177731	127555	81278	130252	538101	53005	133773	82143	282310	63754	153780
Lehi	SIU	1	212126	137238	83439	175180	125004	78727	127701	535550	50454	131222	79592	279759	61203	151229
Los Muertos	SIU	1	203586	128699	74899	166641	116464	70188	119162	527010	41914	122682	71053	271220	52664	142690
Crismon	SIU	1	202464	127577	73777	165519	115342	69066	118040	525888	40792	121560	69931	270098	51542	141568
Scottsdale	SIU	1	201525	126637	72838	164579	114403	68126	117101	524949	39853	120621	68991	269158	50602	140629
Riverview	SIU	1	196612	121725	67925	159667	109490	63214	112188	520036	34940	115708	64079	264246	45690	135716
Canal System 2	SIU	1	190056	115169	61369	153111	102934	56658	105632	513480	28384	109152	57523	257690	39134	129160
Start (E. Classic)			215105	140218	86418	178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209
Coyote	Buffer	1	213935	139048	85248	176990	126813	80537	129511	537359	52263	133031	81402	281568	63013	153039
Lehi	Buffer	1	204434	129547	75747	167489	117313	71036	120010	527859	42762	123531	71901	272068	53512	143538
Los Muertos	Buffer	1	186862	111974	58175	149916	99740	53463	102438	510286	25190	105958	54328	254495	35939	125966
Crismon	Buffer	1	183066	108178	54379	146120	95944	49667	98642	506490	21394	102162	50532	250699	32143	122170
Scottsdale	Buffer	1	178811	103923	50124	141865	91689	45413	94387	502235	17139	97907	46278	246444	27888	117915
Riverview	Buffer	1	163167	88279	34480	126221	76045	29768	78743	486591	1495	82263	30633	230800	12244	102271
Canal System 2	Buffer	1	144229	69342	15542	107284	57107	10831	59805	467653	-17443	63325	11696	211863	-6693	83333
Start (E. Classic)			215105	140218	86418	178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209
Coyote	SIU	2	214247	139360	85560	177302	127126	80849	129823	537672	52576	133344	81714	281881	63325	153351
Lehi	SIU	2	209146	134258	80459	172200	122024	75747	124722	532570	47474	128242	76612	276779	58223	148249
Los Muertos	SIU	2	192067	117180	63380	155122	104945	58669	107643	515491	30395	111163	59534	259700	41145	131171
Crismon	SIU	2	189823	114936	61136	152878	102701	56425	105399	513247	28151	108919	57290	257456	38901	128927
Scottsdale	SIU	2	187944	113057	59257	150999	100822	54546	103520	511368	26272	107040	55411	255578	37022	127048
Riverview	SIU	2	178119	103232	49432	141174	90997	44721	93695	501543	16447	97215	45586	245752	27197	117223
Canal System 2	SIU	2	165007	90120	36320	128062	77885	31609	80583	488431	3335	84103	32474	232640	14085	104111
Start (E. Classic)			215105	140218	86418	178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209
Coyote	Buffer	2	212765	137877	84078	175819	125643	79366	128341	536189	51093	131861	80231	280398	61842	151868
Lehi	Buffer	2	193763	118876	65076	156818	106641	60365	109339	517187	32091	112859	61230	261397	42841	132867
Los Muertos	Buffer	2	158618	83731	29931	121673	71496	25220	74194	482042	-3054	77714	26085	226252	7696	97722
Crismon	Buffer	2	151026	76139	22339	114081	63904	17628	66602	474450	-10646	70122	18493	218659	104	90130
Scottsdale	Buffer	2	142516	67629	13829	105571	55395	9118	58092	465941	-19155	61613	9983	210150	-8406	81620
Riverview	Buffer	2	111228	36341	-17459	74283	24106	-22170	26804	434652	-50444	30324	-21305	178861	-39694	50332
Canal System 2	Buffer	2	73353	-1535	-55334	36407	-13769	-60046	-11071	396777	-88319	-7551	-59181	140986	-77570	12457

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1282 Plant 1	1283 Plant 1	1284 Plant 1	1285 Plant 1	1286 Plant 1	1287 Plant 1	1288 Plant 1	1289 Plant 1	1290 Plant 1	1291 Plant 1	1292 Plant 1	1293 Plant 1	1294 Plant 1	1295 Plant 1
Start (E. Classic)			129906	71478	139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234
Coyote	SIU	1	129477	71049	138932	111071	50649	119101	37953	122433	213145	108415	88496	192648	108493	50805
Lehi	SIU	1	126927	68498	136382	108520	48099	116550	35402	119883	210595	105865	85945	190097	105942	48254
Los Muertos	SIU	1	118387	59959	127842	99980	39559	108011	26863	111343	202055	97325	77406	181558	97402	39715
Crismon	SIU	1	117265	58837	126720	98858	38437	106889	25741	110221	200933	96203	76284	180436	96280	38593
Scottsdale	SIU	1	116326	57898	125781	97919	37498	105949	24802	109282	199994	95264	75344	179497	95341	37654
Riverview	SIU	1	111413	52985	120868	93006	32585	101037	19889	104369	195081	90351	70432	174584	90428	32741
Canal System 2	SIU	1	104857	46429	114312	86450	26029	94481	13333	97813	188525	83795	63876	168028	83872	26185
Start (E. Classic)			129906	71478	139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234
Coyote	Buffer	1	128736	70308	138191	110329	49908	118360	37212	121692	212404	107674	87754	191907	107751	50064
Lehi	Buffer	1	119235	60807	128690	100829	40407	108859	27711	112191	202903	98173	78254	182406	98250	40563
Los Muertos	Buffer	1	101663	43235	111118	83256	22835	91286	10139	94619	185331	80601	60681	164834	80678	22991
Crismon	Buffer	1	97867	39439	107322	79460	19039	87490	6343	90823	181535	76805	56885	161038	76882	19194
Scottsdale	Buffer	1	93612	35184	103067	75205	14784	83235	2088	86568	177280	72550	52630	156783	72627	14940
Riverview	Buffer	1	77968	19540	87423	59561	-860	67591	-13556	70924	161636	56906	36986	141139	56983	-705
Canal System 2	Buffer	1	59030	602	68485	40623	-19798	48654	-32494	51986	142698	37968	18048	122201	38045	-19642
Start (E. Classic)			129906	71478	139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234
Coyote	SIU	2	129048	70620	138503	110642	50220	118672	37524	122004	212716	107986	88067	192219	108064	50376
Lehi	SIU	2	123947	65518	133402	105540	45119	113570	32423	116903	207615	102885	82965	187118	102962	45274
Los Muertos	SIU	2	106868	48440	116323	88461	28040	96492	15344	99824	190536	85806	65886	170039	85883	28196
Crismon	SIU	2	104624	46196	114079	86217	25796	94248	13100	97580	188292	83562	63642	167795	83639	25952
Scottsdale	SIU	2	102745	44317	112200	84338	23917	92369	11221	95701	186413	81683	61764	165916	81760	24073
Riverview	SIU	2	92920	34492	102375	74513	14092	82544	1396	85876	176588	71858	51938	156091	71935	14248
Canal System 2	SIU	2	79808	21380	89263	61401	980	69432	-11716	72764	163476	58746	38826	142979	58823	1136
Start (E. Classic)			129906	71478	139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234
Coyote	Buffer	2	127566	69137	137021	109159	48738	117189	36042	120522	211234	106504	86584	190737	106581	48893
Lehi	Buffer	2	108564	50136	118019	90157	29736	98188	17040	101520	192232	87502	67583	171735	87579	29892
Los Muertos	Buffer	2	73419	14991	82874	55012	-5409	63043	-18105	66375	157087	52357	32438	136590	52434	-5253
Crismon	Buffer	2	65827	7399	75282	47420	-13001	55451	-25697	58783	149495	44765	24845	128998	44842	-12845
Scottsdale	Buffer	2	57317	-1111	66772	38911	-21511	46941	-34207	50273	140985	36255	16336	120488	36333	-21355
Riverview	Buffer	2	26029	-32399	35484	7622	-52799	15653	-65495	18985	109697	4967	-14953	89200	5044	-52643
Canal System 2	Buffer	2	-11846	-70274	-2391	-30253	-90674	-22223	-103370	-18890	71822	-32908	-52828	51325	-32831	-90518

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1296 Plant 1	1297 Plant 1	1298 Plant 1	1299 Plant 1	Total Deficits	1100 Silk 1	1101 Silk 1	1102 Silk 1	1103 Silk 1	1104 Silk 1	1105 Silk 1	1106 Silk 1	1107 Silk 1
Start (E. Classic)			211216	107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328
Coyote	SIU	1	210787	107293	330917	48337	0	159125	79348	117351	156727	96436	229243	109515	75899
Lehi	SIU	1	208236	104742	328366	45786	0	156574	76797	114800	154177	93885	226692	106964	73348
Los Muertos	SIU	1	199697	96203	319827	37247	0	148034	68258	106261	145637	85346	218153	98424	64809
Crismon	SIU	1	198575	95081	318705	36125	0	146912	67136	105139	144515	84224	217031	97302	63687
Scottsdale	SIU	1	197635	94141	317766	35186	0	145973	66196	104199	143576	83284	216091	96363	62748
Riverview	SIU	1	192723	89229	312853	30273	0	141060	61284	99287	138663	78372	211179	91450	57835
Canal System 2	SIU	1	186167	82673	306297	23717	0	134504	54728	92731	132107	71816	204623	84894	51279
Start (E. Classic)			211216	107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328
Coyote	Buffer	1	210045	106551	330176	47596	0	158383	78606	116609	155986	95694	228501	108773	75158
Lehi	Buffer	1	200545	97051	320675	38095	0	148882	69106	107109	146485	86194	219001	99273	65657
Los Muertos	Buffer	1	182972	79478	303103	20523	0	131310	51533	89536	128913	68621	201428	81700	48085
Crismon	Buffer	1	179176	75682	299307	16726	0	127514	47737	85740	125117	64825	197632	77904	44289
Scottsdale	Buffer	1	174921	71427	295052	12472	1	123259	43482	81485	120862	60570	193377	73649	40034
Riverview	Buffer	1	159277	55783	279408	-3173	9	107615	27838	65841	105218	44926	177733	58005	24390
Canal System 2	Buffer	1	140340	36845	260470	-22110	23	88677	8900	46903	86280	25988	158796	39067	5452
Start (E. Classic)			211216	107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328
Coyote	SIU	2	210358	106864	330488	47908	0	158696	78919	116922	156298	96007	228814	109086	75470
Lehi	SIU	2	205256	101762	325387	42806	0	153594	73817	111820	151197	90905	223712	103984	70369
Los Muertos	SIU	2	188177	84683	308308	25728	0	136515	56738	94741	134118	73826	206633	86905	53290
Crismon	SIU	2	185933	82439	306064	23484	0	134271	54494	92497	131874	71582	204389	84661	51046
Scottsdale	SIU	2	184055	80561	304185	21605	0	132392	52616	90619	129995	69704	202511	82782	49167
Riverview	SIU	2	174229	70735	294360	11780	1	122567	42790	80793	120170	59878	192685	72957	39342
Canal System 2	SIU	2	161117	57623	281248	-1332	6	109455	29678	67681	107058	46766	179573	59845	26230
Start (E. Classic)			211216	107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328
Coyote	Buffer	2	208875	105381	329006	46425	0	157213	77436	115439	154816	94524	227331	107603	73988
Lehi	Buffer	2	189874	86380	310004	27424	0	138211	58435	96438	135814	75523	208330	88601	54986
Los Muertos	Buffer	2	154729	51235	274859	-7721	14	103066	23290	61293	100669	40378	173185	53456	19841
Crismon	Buffer	2	147136	43642	267267	-15313	19	95474	15697	53700	93077	32785	165592	45864	12249
Scottsdale	Buffer	2	138627	35133	258757	-23823	24	86965	7188	45191	84567	24276	157083	37355	3739
Riverview	Buffer	2	107338	3844	227469	-55111	60	55676	-24101	13902	53279	-7013	125794	6066	-27549
Canal System 2	Buffer	2	69463	-34031	189594	-92986	116	17801	-61976	-23973	15404	-44888	87919	-31809	-65424

System	Acreage Method	Acre-feet	1108 Silk 1	1109 Silk 1	1110 Silk 1	1111 Silk 1	1112 Silk 1	1113 Silk 1	1114 Silk 1	1115 Silk 1	1116 Silk 1	1117 Silk 1	1118 Silk 1	1119 Silk 1	1120 Silk 1	1121 Silk 1
Start (E. Classic)			106551	159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	SIU	1	106122	158578	120351	120463	143242	90702	206716	149228	139135	162349	118206	163190	76418	81997
Lehi	SIU	1	103571	156027	117800	117912	140691	88151	204165	146677	136584	159798	115655	160639	73867	79446
Los Muertos	SIU	1	95032	147488	109260	109373	132152	79612	195626	138138	128045	151258	107116	152100	65328	70907
Crismon	SIU	1	93910	146366	108138	108251	131030	78490	194504	137016	126923	150136	105994	150978	64206	69785
Scottsdale	SIU	1	92971	145426	107199	107311	130090	77551	193564	136076	125983	149197	105054	150038	63266	68846
Riverview	SIU	1	88058	140514	102286	102399	125178	72638	188652	131164	121071	144284	100142	145126	58354	63933
Canal System 2	SIU	1	81502	133958	95730	95843	118622	66082	182096	124608	114515	137728	93586	138570	51798	57377
Start (E. Classic)			106551	159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	Buffer	1	105381	157836	119609	119721	142501	89961	205974	148486	138393	161607	117464	162448	75677	81256
Lehi	Buffer	1	95880	148336	110108	110221	133000	80460	196474	138986	128893	152107	107964	152948	66176	71755
Los Muertos	Buffer	1	78308	130763	92536	92648	115427	62888	178901	121413	111320	134534	90391	135375	48603	54183
Crismon	Buffer	1	74512	126967	88740	88852	111631	59092	175105	117617	107524	130738	86595	131579	44807	50386
Scottsdale	Buffer	1	70257	122712	84485	84597	107377	54837	170850	113362	103269	126483	82340	127324	40552	46132
Riverview	Buffer	1	54613	107068	68841	68953	91732	39193	155206	97718	87625	110839	66696	111680	24908	30487
Canal System 2	Buffer	1	35675	88131	49903	50015	72795	20255	136269	78780	68687	91901	47759	92742	5971	11550
Start (E. Classic)			106551	159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	SIU	2	105693	158149	119922	120034	142813	90273	206287	148799	138706	161920	117777	162761	75989	81568
Lehi	SIU	2	100591	153047	114820	114932	137711	85172	201185	143697	133604	156818	112675	157659	70887	76466
Los Muertos	SIU	2	83513	135968	97741	97853	120633	68093	184106	126618	116525	139739	95596	140580	53809	59388
Crismon	SIU	2	81269	133724	95497	95609	118389	65849	181862	124374	114281	137495	93352	138336	51565	57144
Scottsdale	SIU	2	79390	131846	93618	93731	116510	63970	179984	122496	112403	135616	91474	136458	49686	55265
Riverview	SIU	2	69565	122020	83793	83905	106685	54145	170158	112670	102577	125791	81648	126632	39861	45440
Canal System 2	SIU	2	56453	108908	70681	70793	93573	41033	157046	99558	89465	112679	68536	113520	26749	32328
Start (E. Classic)			106551	159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	Buffer	2	104210	156666	118439	118551	141330	88791	204804	147316	137223	160437	116294	161278	74506	80085
Lehi	Buffer	2	85209	137665	99437	99550	122329	69789	185803	128315	118222	141435	97293	142277	55505	61084
Los Muertos	Buffer	2	50064	102520	64292	64405	87184	34644	150658	93170	83077	106290	62148	107132	20360	25939
Crismon	Buffer	2	42472	94927	56700	56812	79592	27052	143065	85577	75484	98698	54555	99539	12768	18347
Scottsdale	Buffer	2	33962	86418	48191	48303	71082	18542	134556	77068	66975	90189	46046	91030	4258	9837
Riverview	Buffer	2	2674	55129	16902	17014	39794	-12746	103267	45779	35686	58900	14757	59741	-27030	-21451
Canal System 2	Buffer	2	-35201	17254	-20973	-20861	1918	-50621	65392	7904	-2189	21025	-23118	21866	-64906	-59326

System	Acreage Method	Acre-feet	1122 Silk 1	1123 Silk 1	1124 Silk 1	1125 Silk 1	1126 Silk 1	1127 Silk 1	1128 Silk 1	1129 Silk 1	1130 Silk 1	1131 Silk 1	1132 Silk 1	1133 Silk 1	1134 Silk 1	1135 Silk 1
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234	115144
Coyote	SIU	1	213276	109052	154695	111589	121416	197394	150672	270876	144406	74792	94613	65820	104805	114715
Lehi	SIU	1	210725	106501	152144	109038	118865	194843	148121	268326	141855	72241	92063	63269	102254	112164
Los Muertos	SIU	1	202186	97962	143605	100499	110326	186304	139581	259786	133315	63702	83523	54730	93714	103625
Crismon	SIU	1	201064	96840	142483	99377	109204	185182	138459	258664	132193	62580	82401	53608	92592	102503
Scottsdale	SIU	1	200125	95900	141543	98438	108264	184242	137520	257725	131254	61640	81462	52669	91653	101564
Riverview	SIU	1	195212	90988	136631	93525	103352	179330	132607	252812	126341	56728	76549	47756	86740	96651
Canal System 2	SIU	1	188656	84432	130075	86969	96796	172774	126051	246256	119785	50172	69993	41200	80184	90095
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234	115144
Coyote	Buffer	1	212535	108311	153953	110848	120675	196652	149930	270135	143664	74050	93872	65079	104063	113974
Lehi	Buffer	1	203034	98810	144453	101347	111174	187152	140430	260634	134163	64550	84371	55578	94562	104473
Los Muertos	Buffer	1	185462	81237	126880	83775	93601	169579	122857	243062	116591	46977	66799	38006	76990	86901
Crismon	Buffer	1	181666	77441	123084	79979	89805	165783	119061	239266	112795	43181	63003	34210	73194	83105
Scottsdale	Buffer	1	177411	73187	118829	75724	85550	161528	114806	235011	108540	38926	58748	29955	68939	78850
Riverview	Buffer	1	161767	57542	103185	60080	69906	145884	99162	219367	92896	23282	43104	14311	53295	63206
Canal System 2	Buffer	1	142829	38605	84248	41142	50969	126947	80224	200429	73958	4345	24166	-4627	34357	44268
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234	115144
Coyote	SIU	2	212847	108623	154266	111160	120987	196965	150243	270447	143977	74363	94184	65391	104376	114286
Lehi	SIU	2	207745	103521	149164	106058	115885	191863	145141	265346	138875	69261	89083	60290	99274	109185
Los Muertos	SIU	2	190667	86443	132085	88980	98807	174784	128062	248267	121796	52182	72004	43211	82195	92106
Crismon	SIU	2	188423	84199	129841	86736	96563	172540	125818	246023	119552	49938	69760	40967	79951	89862
Scottsdale	SIU	2	186544	82320	127963	84857	94684	170662	123939	244144	117673	48060	67881	39088	78072	87983
Riverview	SIU	2	176719	72495	118137	75032	84859	160836	114114	234319	107848	38234	58056	29263	68247	78158
Canal System 2	SIU	2	163607	59383	105025	61920	71747	147724	101002	221207	94736	25122	44944	16151	55135	65046
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234	115144
Coyote	Buffer	2	211364	107140	152783	109677	119504	195482	148760	268965	142494	72880	92702	63909	102893	112804
Lehi	Buffer	2	192363	88139	133782	90676	100503	176481	129758	249963	123492	53879	73700	44907	83891	93802
Los Muertos	Buffer	2	157218	52994	98637	55531	65358	141336	94613	214818	88347	18734	38555	9762	48746	58657
Crismon	Buffer	2	149626	45402	91044	47939	57766	133743	87021	207226	80755	11141	30963	2170	41154	51065
Scottsdale	Buffer	2	141116	36892	82535	39429	49256	125234	78512	198716	72246	2632	22453	-6340	32645	42555
Riverview	Buffer	2	109828	5604	51246	8141	17968	93945	47223	167428	40957	-28657	-8835	-37628	1356	11267
Canal System 2	Buffer	2	71953	-32272	13371	-29734	-19908	56070	9348	129553	3082	-66532	-46710	-75503	-36519	-26608

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1136 Silk 1	1137 Silk 1	1138 Silk 1	1139 Silk 1	1140 Silk 1	1141 Silk 1	1142 Silk 1	1143 Silk 1	1144 Silk 1	1145 Silk 1	1146 Silk 1	1147 Silk 1	1148 Silk 1	1149 Silk 1
Start (E. Classic)			124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270	133059	166436
Coyote	SIU	1	124023	86132	138476	150798	89469	163204	87731	108393	150784	148569	54550	227841	132630	166007
Lehi	SIU	1	121472	83582	135925	148247	86918	160653	85180	105842	148233	146018	51999	225290	130079	163456
Los Muertos	SIU	1	112933	75042	127386	139708	78379	152114	76640	97303	139694	137479	43460	216751	121540	154917
Crismon	SIU	1	111811	73920	126264	138586	77257	150992	75518	96181	138572	136357	42338	215629	120418	153795
Scottsdale	SIU	1	110872	72981	125324	137646	76317	150052	74579	95242	137632	135417	41398	214689	119479	152856
Riverview	SIU	1	105959	68068	120412	132734	71405	145140	69666	90329	132720	130505	36486	209777	114566	147943
Canal System 2	SIU	1	99403	61512	113856	126178	64849	138584	63110	83773	126164	123949	29930	203221	108010	141387
Start (E. Classic)			124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270	133059	166436
Coyote	Buffer	1	123282	85391	137735	150056	88727	162462	86989	107652	150042	147828	53808	227100	131889	165266
Lehi	Buffer	1	113781	75890	128234	140556	79227	152962	77488	98151	140542	138327	44308	217599	122388	155765
Los Muertos	Buffer	1	96209	58318	110661	122983	61654	135389	59916	80579	122969	120754	26735	200026	104816	138193
Crismon	Buffer	1	92413	54522	106865	119187	57858	131593	56120	76782	119173	116958	22939	196230	101020	134397
Scottsdale	Buffer	1	88158	50267	102610	114932	53603	127338	51865	72528	114918	112703	18684	191976	96765	130142
Riverview	Buffer	1	72514	34623	86966	99288	37959	111694	36221	56883	99274	97059	3040	176331	81121	114498
Canal System 2	Buffer	1	53576	15685	68029	80350	19021	92756	17283	37946	80336	78122	-15897	157394	62183	95560
Start (E. Classic)			124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270	133059	166436
Coyote	SIU	2	123594	85703	138047	150369	89040	162775	87302	107964	150355	148140	54121	227412	132201	165578
Lehi	SIU	2	118493	80602	132945	145267	83938	157673	82200	102862	145253	143038	49019	222310	127100	160477
Los Muertos	SIU	2	101414	63523	115867	128188	66859	140594	65121	85784	128174	125960	31940	205232	110021	143398
Crismon	SIU	2	99170	61279	113623	125944	64615	138350	62877	83540	125930	123716	29696	202988	107777	141154
Scottsdale	SIU	2	97291	59400	111744	124066	62737	136472	60998	81661	124052	121837	27818	201109	105898	139275
Riverview	SIU	2	87466	49575	101919	114240	52911	126646	51173	71836	114226	112012	17992	191284	96073	129450
Canal System 2	SIU	2	74354	36463	88807	101128	39799	113534	38061	58724	101114	98900	4880	178172	82961	116338
Start (E. Classic)			124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270	133059	166436
Coyote	Buffer	2	122112	84221	136564	148886	87557	161292	85819	106481	148872	146657	52638	225929	130719	164096
Lehi	Buffer	2	103110	65219	117563	129885	68556	142291	66817	87480	129871	127656	33637	206928	111717	145094
Los Muertos	Buffer	2	67965	30074	82418	94740	33411	107146	31672	52335	94726	92511	-1508	171783	76572	109949
Crismon	Buffer	2	60373	22482	74826	87147	25818	99553	24080	44743	87133	84919	-9101	164191	68980	102357
Scottsdale	Buffer	2	51863	13972	66316	78638	17309	91044	15571	36233	78624	76409	-17610	155681	60470	93847
Riverview	Buffer	2	20575	-17316	35028	47349	-13980	59755	-15718	4945	47335	45121	-48899	124393	29182	62559
Canal System 2	Buffer	2	-17300	-55191	-2848	9474	-51855	21880	-53593	-32930	9460	7245	-86774	86517	-8693	24684

System	Acreage Method	Acre-feet	1150 Silk 1	1151 Silk 1	1152 Silk 1	1153 Silk 1	1154 Silk 1	1155 Silk 1	1156 Silk 1	1157 Silk 1	1158 Silk 1	1159 Silk 1	1160 Silk 1	1161 Silk 1	1162 Silk 1	1163 Silk 1
Start (E. Classic)			50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386	80646	211028	173684
Coyote	SIU	1	49840	107832	164115	157583	171587	170788	59414	154442	59652	149915	152957	80217	210599	173255
Lehi	SIU	1	47289	105282	161564	155032	169036	168237	56863	151892	57101	147364	150406	77666	208048	170704
Los Muertos	SIU	1	38750	96742	153025	146492	160496	159697	48324	143352	48562	138824	141866	69127	199509	162165
Crismon	SIU	1	37628	95620	151903	145370	159374	158575	47202	142230	47440	137702	140744	68005	198387	161043
Scottsdale	SIU	1	36688	94681	150963	144431	158435	157636	46262	141291	46501	136763	139805	67065	197447	160103
Riverview	SIU	1	31776	89768	146051	139518	153522	152723	41350	136378	41588	131850	134892	62153	192535	155191
Canal System 2	SIU	1	25220	83212	139495	132962	146966	146167	34794	129822	35032	125294	128336	55597	185979	148635
Start (E. Classic)			50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386	80646	211028	173684
Coyote	Buffer	1	49098	107091	163374	156841	170845	170046	58673	153701	58911	149173	152215	79475	209857	172513
Lehi	Buffer	1	39598	97590	153873	147340	161344	160545	49172	144200	49410	139673	142714	69975	200357	163013
Los Muertos	Buffer	1	22025	80018	136300	129768	143772	142973	31599	126628	31838	122100	125142	52402	182784	145440
Crismon	Buffer	1	18229	76222	132504	125972	139976	139177	27803	122832	28042	118304	121346	48606	178988	141644
Scottsdale	Buffer	1	13974	71967	128249	121717	135721	134922	23549	118577	23787	114049	117091	44351	174733	137389
Riverview	Buffer	1	-1670	56323	112605	106073	120077	119278	7904	102933	8143	98405	101447	28707	159089	121745
Canal System 2	Buffer	1	-20608	37385	93668	87135	101139	100340	-11033	83995	-10795	79467	82509	9770	140152	102807
Start (E. Classic)			50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386	80646	211028	173684
Coyote	SIU	2	49411	107403	163686	157154	171158	170359	58985	154013	59223	149486	152528	79788	210170	172826
Lehi	SIU	2	44309	102302	158584	152052	166056	165257	53883	148912	54122	144384	147426	74686	205068	167724
Los Muertos	SIU	2	27230	85223	141506	134973	148977	148178	36805	131833	37043	127305	130347	57607	187989	150645
Crismon	SIU	2	24986	82979	139262	132729	146733	145934	34561	129589	34799	125061	128103	55363	185745	148401
Scottsdale	SIU	2	23108	81100	137383	130850	144854	144055	32682	127710	32920	123182	126224	53485	183867	146523
Riverview	SIU	2	13282	71275	127558	121025	135029	134230	22857	117885	23095	113357	116399	43659	174041	136697
Canal System 2	SIU	2	170	58163	114446	107913	121917	121118	9745	104773	9983	100245	103287	30547	160929	123585
Start (E. Classic)			50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386	80646	211028	173684
Coyote	Buffer	2	47928	105921	162203	155671	169675	168876	57502	152531	57741	148003	151045	78305	208687	171343
Lehi	Buffer	2	28927	86919	143202	136669	150673	149874	38501	133529	38739	129001	132043	59304	189686	152342
Los Muertos	Buffer	2	-6218	51774	108057	101524	115528	114729	3356	98384	3594	93856	96898	24159	154541	117197
Crismon	Buffer	2	-13811	44182	100465	93932	107936	107137	-4236	90792	-3998	86264	89306	16566	146948	109604
Scottsdale	Buffer	2	-22320	35672	91955	85423	99427	98628	-12746	82282	-12508	77755	80797	8057	138439	101095
Riverview	Buffer	2	-53609	4384	60667	54134	68138	67339	-44034	50994	-43796	46466	49508	-23232	107150	69806
Canal System 2	Buffer	2	-91484	-33491	22791	16259	30263	29464	-81910	13119	-81671	8591	11633	-61107	69275	31931

System	Acreage Method	Acre-feet	1164 Silk 1	1165 Silk 1	1166 Silk 1	1167 Silk 1	1168 Silk 1	1169 Silk 1	1170 Silk 1	1171 Silk 1	1172 Silk 1	1173 Silk 1	1174 Silk 1	1175 Silk 1	1176 Silk 1	1177 Silk 1
Start (E. Classic)			103916	183398	110953	181520	48909	74730	112158	165623	177076	212682	104028	54951	101561	69375
Coyote	SIU	1	103487	182969	110524	181091	48480	74301	111729	165194	176647	212253	103599	54522	101132	68946
Lehi	SIU	1	100936	180418	107973	178540	45929	71750	109179	162643	174096	209702	101048	51971	98581	66395
Los Muertos	SIU	1	92397	171879	99434	170001	37390	63211	100639	154104	165557	201163	92509	43432	90042	57856
Crismon	SIU	1	91275	170757	98312	168879	36268	62089	99517	152982	164435	200041	91387	42310	88920	56734
Scottsdale	SIU	1	90335	169818	97372	167939	35328	61150	98578	152043	163495	199101	90447	41370	87980	55795
Riverview	SIU	1	85423	164905	92460	163027	30416	56237	93665	147130	158583	194189	85535	36458	83068	50882
Canal System 2	SIU	1	78867	158349	85904	156471	23860	49681	87109	140574	152027	187633	78979	29902	76512	44326
Start (E. Classic)			103916	183398	110953	181520	48909	74730	112158	165623	177076	212682	104028	54951	101561	69375
Coyote	Buffer	1	102745	182228	109783	180349	47739	73560	110988	164453	175906	211512	102858	53780	100390	68205
Lehi	Buffer	1	93245	172727	100282	170849	38238	64059	101487	154952	166405	202011	93357	44280	90890	58704
Los Muertos	Buffer	1	75672	155155	82709	153276	20665	46487	83915	137380	148832	184438	75784	26707	73317	41132
Crismon	Buffer	1	71876	151359	78913	149480	16869	42691	80119	133584	145036	180642	71988	22911	69521	37336
Scottsdale	Buffer	1	67621	147104	74658	145225	12614	38436	75864	129329	140782	176387	67733	18656	65266	33081
Riverview	Buffer	1	51977	131460	59014	129581	-3030	22792	60220	113685	125137	160743	52089	3012	49622	17437
Canal System 2	Buffer	1	33040	112522	40077	110644	-21967	3854	41282	94747	106200	141806	33152	-15926	30685	-1501
Start (E. Classic)			103916	183398	110953	181520	48909	74730	112158	165623	177076	212682	104028	54951	101561	69375
Coyote	SIU	2	103058	182540	110095	180662	48051	73872	111300	164765	176218	211824	103170	54093	100703	68517
Lehi	SIU	2	97956	177438	104993	175560	42949	68770	106199	159664	171116	206722	98068	48991	95601	63416
Los Muertos	SIU	2	80877	160360	87915	158481	25871	51692	89120	142585	154038	189644	80990	31912	78522	46337
Crismon	SIU	2	78633	158116	85671	156237	23627	49448	86876	140341	151794	187400	78746	29668	76278	44093
Scottsdale	SIU	2	76755	156237	83792	154359	21748	47569	84997	138462	149915	185521	76867	27790	74400	42214
Riverview	SIU	2	66929	146412	73967	144533	11923	37744	75172	128637	140090	175696	67042	17964	64574	32389
Canal System 2	SIU	2	53817	133300	60855	131421	-1189	24632	62060	115525	126978	162584	53930	4852	51462	19277
Start (E. Classic)			103916	183398	110953	181520	48909	74730	112158	165623	177076	212682	104028	54951	101561	69375
Coyote	Buffer	2	101575	181057	108612	179179	46568	72389	109818	163283	174735	210341	101687	52610	99220	67035
Lehi	Buffer	2	82574	162056	89611	160178	27567	53388	90816	144281	155734	191340	82686	33609	80219	48033
Los Muertos	Buffer	2	47429	126911	54466	125033	-7578	18243	55671	109136	120589	156195	47541	-1536	45074	12888
Crismon	Buffer	2	39836	119319	46874	117440	-15170	10651	48079	101544	112997	148603	39949	-9129	37481	5296
Scottsdale	Buffer	2	31327	110809	38364	108931	-23680	2141	39569	93034	104487	140093	31439	-17638	28972	-3214
Riverview	Buffer	2	38	79521	7076	77642	-54968	-29147	8281	61746	73199	108805	151	-48927	-2317	-34502
Canal System 2	Buffer	2	-37837	41646	-30800	39767	-92844	-67022	-29594	23871	35323	70929	-37725	-86802	-40192	-72377

System	Acreage Method	Acre-feet	1178 Silk 1	1179 Silk 1	1180 Silk 1	1181 Silk 1	1182 Silk 1	1183 Silk 1	1184 Silk 1	1185 Silk 1	1186 Silk 1	1187 Silk 1	1188 Silk 1	1189 Silk 1	1190 Silk 1	1191 Silk 1
Start (E. Classic)			171217	94454	157998	177903	59913	159441	217995	115551	85314	172829	119967	106888	187463	112775
Coyote	SIU	1	170788	94025	157569	177474	59484	159012	217566	115122	84885	172400	119538	106459	187034	112346
Lehi	SIU	1	168237	91474	155018	174923	56933	156461	215015	112571	82334	169849	116987	103908	184484	109795
Los Muertos	SIU	1	159697	82934	146478	166384	48394	147922	206476	104032	73795	161309	108447	95368	175944	101256
Crismon	SIU	1	158575	81812	145356	165262	47272	146800	205354	102910	72673	160187	107325	94246	174822	100134
Scottsdale	SIU	1	157636	80873	144417	164323	46333	145861	204414	101970	71733	159248	106386	93307	173883	99195
Riverview	SIU	1	152723	75960	139504	159410	41420	140948	199502	97058	66821	154335	101473	88394	168970	94282
Canal System 2	SIU	1	146167	69404	132948	152854	34864	134392	192946	90502	60265	147779	94917	81838	162414	87726
Start (E. Classic)			171217	94454	157998	177903	59913	159441	217995	115551	85314	172829	119967	106888	187463	112775
Coyote	Buffer	1	170046	93283	156827	176733	58743	158271	216824	114380	84143	171658	118796	105717	186293	111605
Lehi	Buffer	1	160545	83783	147326	167232	49242	148770	207324	104880	74643	162158	109295	96217	176792	102104
Los Muertos	Buffer	1	142973	66210	129754	149660	31670	131198	189751	87307	57070	144585	91723	78644	159220	84532
Crismon	Buffer	1	139177	62414	125958	145863	27873	127402	185955	83511	53274	140789	87927	74848	155424	80736
Scottsdale	Buffer	1	134922	58159	121703	141609	23619	123147	181700	79256	49019	136534	83672	70593	151169	76481
Riverview	Buffer	1	119278	42515	106059	125964	7974	107503	166056	63612	33375	120890	68028	54949	135525	60837
Canal System 2	Buffer	1	100340	23577	87121	107027	-10963	88565	147118	44675	14438	101952	49090	36011	116587	41899
Start (E. Classic)			171217	94454	157998	177903	59913	159441	217995	115551	85314	172829	119967	106888	187463	112775
Coyote	SIU	2	170359	93596	157140	177045	59055	158583	217137	114693	84456	171971	119109	106030	186605	111917
Lehi	SIU	2	165257	88494	152038	171943	53953	153482	212035	109591	79354	166869	114007	100928	181504	106815
Los Muertos	SIU	2	148178	71415	134959	154865	36875	136403	194956	92512	62275	149790	96928	83849	164425	89737
Crismon	SIU	2	145934	69171	132715	152621	34631	134159	192712	90268	60031	147546	94684	81605	162181	87493
Scottsdale	SIU	2	144055	67292	130836	150742	32752	132280	190834	88390	58153	145667	92805	79726	160302	85614
Riverview	SIU	2	134230	57467	121011	140917	22927	122455	181008	78564	48327	135842	82980	69901	150477	75789
Canal System 2	SIU	2	121118	44355	107899	127805	9815	109343	167896	65452	35215	122730	69868	56789	137365	62677
Start (E. Classic)			171217	94454	157998	177903	59913	159441	217995	115551	85314	172829	119967	106888	187463	112775
Coyote	Buffer	2	168876	92113	155657	175562	57572	157101	215654	113210	82973	170488	117626	104547	185123	110434
Lehi	Buffer	2	149874	73111	136655	156561	38571	138099	196653	94209	63972	151486	98624	85545	166121	91433
Los Muertos	Buffer	2	114729	37966	101510	121416	3426	102954	161508	59064	28827	116341	63479	50400	130976	56288
Crismon	Buffer	2	107137	30374	93918	113824	-4166	95362	153915	51471	21234	108749	55887	42808	123384	48696
Scottsdale	Buffer	2	98628	21865	85409	105314	-12676	86852	145406	42962	12725	100240	47378	34299	114874	40186
Riverview	Buffer	2	67339	-9424	54120	74026	-43964	55564	114117	11673	-18564	68951	16089	3010	83586	8898
Canal System 2	Buffer	2	29464	-47299	16245	36151	-81839	17689	76242	-26202	-56439	31076	-21786	-34865	45711	-28977

System	Acreage Method	Acre-feet	1192 Silk 1	1193 Silk 1	1194 Silk 1	1195 Silk 1	1196 Silk 1	1197 Silk 1	1198 Silk 1	1199 Silk 1	1200 Silk 1	1201 Silk 1	1202 Silk 1	1203 Silk 1	1204 Silk 1	1205 Silk 1
Start (E. Classic)			86842	88328	114836	177791	146320	235587	105416	92288	305458	252666	210494	141831	140211	91303
Coyote	SIU	1	86413	87899	114407	177362	145891	235158	104987	91859	305029	252237	210065	141402	139782	90874
Lehi	SIU	1	83862	85348	111856	174811	143341	232608	102436	89309	302478	249686	207514	138851	137231	88323
Los Muertos	SIU	1	75323	76809	103317	166272	134801	224068	93897	80769	293939	241147	198975	130311	128692	79784
Crismon	SIU	1	74201	75687	102195	165150	133679	222946	92775	79647	292817	240025	197853	129189	127570	78662
Scottsdale	SIU	1	73261	74747	101255	164210	132740	222007	91835	78708	291878	239086	196913	128250	126630	77723
Riverview	SIU	1	68349	69835	96343	159298	127827	217094	86923	73795	286965	234173	192001	123337	121718	72810
Canal System 2	SIU	1	61793	63279	89787	152742	121271	210538	80367	67239	280409	227617	185445	116781	115162	66254
Start (E. Classic)			86842	88328	114836	177791	146320	235587	105416	92288	305458	252666	210494	141831	140211	91303
Coyote	Buffer	1	85671	87157	113666	176621	145150	234417	104245	91118	304288	251496	209323	140660	139041	90133
Lehi	Buffer	1	76171	77657	104165	167120	135649	224916	94745	81617	294787	241995	199823	131159	129540	80632
Los Muertos	Buffer	1	58598	60084	86592	149547	118077	207344	77172	64045	277215	224423	182250	113587	111967	63060
Crismon	Buffer	1	54802	56288	82796	145751	114281	203548	73376	60249	273418	220627	178454	109791	108171	59264
Scottsdale	Buffer	1	50547	52033	78541	141497	110026	199293	69121	55994	269164	216372	174199	105536	103917	55009
Riverview	Buffer	1	34903	36389	62897	125852	94382	183649	53477	40350	253519	200728	158555	89892	88272	39365
Canal System 2	Buffer	1	15966	17451	43960	106915	75444	164711	34539	21412	234582	181790	139618	70954	69335	20427
Start (E. Classic)			86842	88328	114836	177791	146320	235587	105416	92288	305458	252666	210494	141831	140211	91303
Coyote	SIU	2	85984	87470	113978	176933	145462	234729	104558	91430	304600	251808	209636	140973	139353	90445
Lehi	SIU	2	80882	82368	108876	171831	140361	229628	99456	86329	299498	246707	204534	135871	134251	85344
Los Muertos	SIU	2	63803	65289	91798	154753	123282	212549	82377	69250	282420	229628	187455	118792	117173	68265
Crismon	SIU	2	61559	63045	89554	152509	121038	210305	80133	67006	280176	227384	185211	116548	114929	66021
Scottsdale	SIU	2	59681	61167	87675	150630	119159	208426	78255	65127	278297	225505	183333	114669	113050	64142
Riverview	SIU	2	49855	51341	77850	140805	109334	198601	68429	55302	268472	215680	173507	104844	103225	54317
Canal System 2	SIU	2	36743	38229	64738	127693	96222	185489	55317	42190	255360	202568	160395	91732	90113	41205
Start (E. Classic)			86842	88328	114836	177791	146320	235587	105416	92288	305458	252666	210494	141831	140211	91303
Coyote	Buffer	2	84501	85987	112495	175450	143980	233247	103075	89948	303117	250326	208153	139490	137870	88963
Lehi	Buffer	2	65500	66986	93494	156449	124978	214245	84074	70946	284116	231324	189152	120488	118869	69961
Los Muertos	Buffer	2	30355	31841	58349	121304	89833	179100	48929	35801	248971	196179	154007	85343	83724	34816
Crismon	Buffer	2	22762	24248	50757	113712	82241	171508	41336	28209	241379	188587	146414	77751	76132	27224
Scottsdale	Buffer	2	14253	15739	42247	105202	73731	162998	32827	19699	232869	180077	137905	69242	67622	18714
Riverview	Buffer	2	-17036	-15550	10959	73914	42443	131710	1538	-11589	201581	148789	106616	37953	36334	-12574
Canal System 2	Buffer	2	-54911	-53425	-26917	36038	4568	93835	-36337	-49464	163706	110914	68741	78	-1542	-50449

System	Acreage Method	Acre-feet	1206 Silk 1	1207 Silk 1	1208 Silk 1	1209 Silk 1	1210 Silk 1	1211 Silk 1	1212 Silk 1	1213 Silk 1	1214 Silk 1	1215 Silk 1	1216 Silk 1	1217 Silk 1	1218 Silk 1	1219 Silk 1
Start (E. Classic)			98833	143049	108883	199870	166936	161334	163091	112695	74370	63584	66800	52270	119003	186023
Coyote	SIU	1	98404	142620	108454	199441	166507	160905	162662	112266	73941	63155	66371	51841	118574	185594
Lehi	SIU	1	95853	140069	105903	196890	163956	158354	160111	109716	71390	60604	63820	49290	116023	183043
Los Muertos	SIU	1	87314	131529	97364	188351	155417	149815	151571	101176	62851	52065	55281	40750	107484	174504
Crismon	SIU	1	86192	130407	96242	187229	154295	148693	150449	100054	61729	50943	54159	39628	106362	173382
Scottsdale	SIU	1	85252	129468	95303	186290	153355	147753	149510	99115	60789	50003	53219	38689	105423	172442
Riverview	SIU	1	80340	124555	90390	181377	148443	142841	144597	94202	55877	45091	48307	33776	100510	167530
Canal System 2	SIU	1	73784	117999	83834	174821	141887	136285	138041	87646	49321	38535	41751	27220	93954	160974
Start (E. Classic)			98833	143049	108883	199870	166936	161334	163091	112695	74370	63584	66800	52270	119003	186023
Coyote	Buffer	1	97662	141878	107713	198700	165766	160164	161920	111525	73200	62414	65630	51099	117833	184852
Lehi	Buffer	1	88162	132378	98212	189199	156265	150663	152419	102024	63699	52913	56129	41598	108332	175352
Los Muertos	Buffer	1	70589	114805	80640	171627	138692	133090	134847	84452	46126	35340	38556	24026	90760	157779
Crismon	Buffer	1	66793	111009	76844	167831	134896	129294	131051	80656	42330	31544	34760	20230	86964	153983
Scottsdale	Buffer	1	62538	106754	72589	163576	130641	125039	126796	76401	38076	27289	30506	15975	82709	149728
Riverview	Buffer	1	46894	91110	56945	147932	114997	109395	111152	60757	22431	11645	14861	331	67065	134084
Canal System 2	Buffer	1	27957	72172	38007	128994	96060	90458	92214	41819	3494	-7292	-4076	-18607	48127	115147
Start (E. Classic)			98833	143049	108883	199870	166936	161334	163091	112695	74370	63584	66800	52270	119003	186023
Coyote	SIU	2	97975	142191	108025	199012	166078	160476	162233	111837	73512	62726	65942	51412	118145	185165
Lehi	SIU	2	92873	137089	102923	193911	160976	155374	157131	106736	68410	57624	60840	46310	113043	180063
Los Muertos	SIU	2	75794	120010	85845	176832	143898	138296	140052	89657	51332	40546	43762	29231	95965	162984
Crismon	SIU	2	73550	117766	83601	174588	141654	136052	137808	87413	49088	38302	41518	26987	93721	160740
Scottsdale	SIU	2	71672	115887	81722	172709	139775	134173	135929	85534	47209	36423	39639	25108	91842	158862
Riverview	SIU	2	61846	106062	71897	162884	129950	124348	126104	75709	37384	26598	29814	15283	82017	149036
Canal System 2	SIU	2	48734	92950	58785	149772	116838	111236	112992	62597	24272	13486	16702	2171	68905	135924
Start (E. Classic)			98833	143049	108883	199870	166936	161334	163091	112695	74370	63584	66800	52270	119003	186023
Coyote	Buffer	2	96492	140708	106542	197530	164595	158993	160750	110355	72029	61243	64459	49929	116662	183682
Lehi	Buffer	2	77491	121706	87541	178528	145594	139992	141748	91353	53028	42242	45458	30927	97661	164681
Los Muertos	Buffer	2	42346	86561	52396	143383	110449	104847	106603	56208	17883	7097	10313	-4218	62516	129536
Crismon	Buffer	2	34753	78969	44804	135791	102857	97255	99011	48616	10291	-495	2721	-11810	54924	121943
Scottsdale	Buffer	2	26244	70460	36294	127281	94347	88745	90502	40106	1781	-9005	-5789	-20319	46414	113434
Riverview	Buffer	2	-5045	39171	5006	95993	63059	57457	59213	8818	-29507	-40293	-37077	-51608	15126	82145
Canal System 2	Buffer	2	-42920	1296	-32869	58118	25183	19581	21338	-29057	-67383	-78169	-74953	-89483	-22749	44270

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1220 Silk 1	1221 Silk 1	1222 Silk 1	1223 Silk 1	1224 Silk 1	1225 Silk 1	1226 Silk 1	1227 Silk 1	1228 Silk 1	1229 Silk 1	1230 Silk 1	1231 Silk 1	1232 Silk 1	1233 Silk 1
Start (E. Classic)			106037	85353	105098	142293	124939	130082	141978	40917	278782	214088	168162	127416	226238	84997
Coyote	SIU	1	105608	84924	104669	141864	124510	129653	141549	40488	278353	213659	167733	126987	225809	84568
Lehi	SIU	1	103057	82373	102119	139313	121959	127102	138998	37938	275802	211108	165182	124436	223258	82017
Los Muertos	SIU	1	94518	73833	93579	130774	113419	118563	130459	29398	267262	202569	156643	115896	214719	73478
Crismon	SIU	1	93396	72711	92457	129652	112297	117441	129337	28276	266140	201447	155521	114774	213597	72356
Scottsdale	SIU	1	92456	71772	91518	128713	111358	116501	128397	27337	265201	200508	154582	113835	212658	71417
Riverview	SIU	1	87544	66859	86605	123800	106445	111589	123485	22424	260288	195595	149669	108922	207745	66504
Canal System 2	SIU	1	80988	60303	80049	117244	99889	105033	116929	15868	253732	189039	143113	102366	201189	59948
Start (E. Classic)			106037	85353	105098	142293	124939	130082	141978	40917	278782	214088	168162	127416	226238	84997
Coyote	Buffer	1	104866	84182	103928	141123	123768	128912	140807	39747	277611	212918	166992	126245	225068	83827
Lehi	Buffer	1	95366	74682	94427	131622	114268	119411	131307	30246	268111	203417	157491	116745	215567	74326
Los Muertos	Buffer	1	77793	57109	76855	114050	96695	101838	113734	12674	250538	185845	139919	99172	197995	56754
Crismon	Buffer	1	73997	53313	73059	110254	92899	98042	109938	8878	246742	182049	136122	95376	194199	52958
Scottsdale	Buffer	1	69742	49058	68804	105999	88644	93788	105683	4623	242487	177794	131868	91121	189944	48703
Riverview	Buffer	1	54098	33414	53160	90355	73000	78143	90039	-11021	226843	162150	116223	75477	174300	33059
Canal System 2	Buffer	1	35160	14476	34222	71417	54062	59206	71101	-29959	207905	143212	97286	56539	155362	14121
Start (E. Classic)			106037	85353	105098	142293	124939	130082	141978	40917	278782	214088	168162	127416	226238	84997
Coyote	SIU	2	105179	84495	104240	141435	124081	129224	141120	40059	277924	213230	167304	126558	225380	84139
Lehi	SIU	2	100077	79393	99139	136333	118979	124122	136018	34958	272822	208129	162202	121456	220278	79037
Los Muertos	SIU	2	82998	62314	82060	119255	101900	107044	118939	17879	255743	191050	145124	104377	203200	61959
Crismon	SIU	2	80754	60070	79816	117011	99656	104800	116695	15635	253499	188806	142880	102133	200956	59715
Scottsdale	SIU	2	78876	58191	77937	115132	97777	102921	114817	13756	251620	186927	141001	100254	199077	57836
Riverview	SIU	2	69050	48366	68112	105307	87952	93096	104991	3931	241795	177102	131176	90429	189252	48011
Canal System 2	SIU	2	55938	35254	55000	92195	74840	79984	91879	-9181	228683	163990	118064	77317	176140	34899
Start (E. Classic)			106037	85353	105098	142293	124939	130082	141978	40917	278782	214088	168162	127416	226238	84997
Coyote	Buffer	2	103696	83012	102758	139952	122598	127741	139637	38577	276441	211748	165821	125075	223897	82656
Lehi	Buffer	2	84695	64010	83756	120951	103596	108740	120636	19575	257439	192746	146820	106073	204896	63655
Los Muertos	Buffer	2	49550	28865	48611	85806	68451	73595	85491	-15570	222294	157601	111675	70928	169751	28510
Crismon	Buffer	2	41957	21273	41019	78214	60859	66003	77898	-23162	214702	150009	104083	63336	162159	20918
Scottsdale	Buffer	2	33448	12764	32509	69704	52350	57493	69389	-31672	206193	141499	95573	54827	153649	12408
Riverview	Buffer	2	2159	-18525	1221	38416	21061	26205	38100	-62960	174904	110211	64285	23538	122361	-18880
Canal System 2	Buffer	2	-35716	-56400	-36654	541	-16814	-11671	225	######	137029	72336	26410	-14337	84486	-56755

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1234 Silk 1	1235 Silk 1	1236 Silk 1	1237 Silk 1	1238 Silk 1	1239 Silk 1	1240 Silk 1	1241 Silk 1	1242 Silk 1	1243 Silk 1	1244 Silk 1	1245 Silk 1	1246 Silk 1	1247 Silk 1
Start (E. Classic)			94846	185422	94132	151989	210953	152499	93767	226778	152901	145739	141817	123880	73003	107700
Coyote	SIU	1	94417	184993	93703	151560	210524	152070	93338	226349	152472	145310	141388	123451	72574	107271
Lehi	SIU	1	91866	182442	91152	149009	207973	149519	90787	223798	149921	142760	138837	120900	70023	104720
Los Muertos	SIU	1	83327	173903	82612	140469	199434	140979	82247	215258	141382	134220	130298	112360	61484	96181
Crismon	SIU	1	82205	172781	81490	139347	198312	139857	81125	214136	140260	133098	129176	111238	60362	95059
Scottsdale	SIU	1	81266	171841	80551	138408	197373	138918	80186	213197	139320	132159	128236	110299	59422	94119
Riverview	SIU	1	76353	166929	75638	133495	192460	134005	75273	208284	134408	127246	123324	105386	54510	89207
Canal System 2	SIU	1	69797	160373	69082	126939	185904	127449	68717	201728	127852	120690	116768	98830	47954	82651
Start (E. Classic)			94846	185422	94132	151989	210953	152499	93767	226778	152901	145739	141817	123880	73003	107700
Coyote	Buffer	1	93676	184252	92961	150818	209783	151328	92596	225607	151731	144569	140646	122709	71832	106530
Lehi	Buffer	1	84175	174751	83461	141317	200282	141828	83096	216106	142230	135068	131146	113209	62332	97029
Los Muertos	Buffer	1	66603	157178	65888	123745	182710	124255	65523	198534	124657	117496	113573	95636	44759	79456
Crismon	Buffer	1	62807	153382	62092	119949	178914	120459	61727	194738	120861	113700	109777	91840	40963	75660
Scottsdale	Buffer	1	58552	149127	57837	115694	174659	116204	57472	190483	116606	109445	105522	87585	36708	71406
Riverview	Buffer	1	42908	133483	42193	100050	159015	100560	41828	174839	100962	93801	89878	71941	21064	55761
Canal System 2	Buffer	1	23970	114546	23255	81112	140077	81622	22890	155901	82025	74863	70940	53003	2127	36824
Start (E. Classic)			94846	185422	94132	151989	210953	152499	93767	226778	152901	145739	141817	123880	73003	107700
Coyote	SIU	2	93988	184564	93274	151131	210095	151641	92909	225920	152043	144881	140959	123022	72145	106842
Lehi	SIU	2	88887	179462	88172	146029	204994	146539	87807	220818	146941	139780	135857	117920	67043	101740
Los Muertos	SIU	2	71808	162384	71093	128950	187915	129460	70728	203739	129863	122701	118778	100841	49964	84662
Crismon	SIU	2	69564	160140	68849	126706	185671	127216	68484	201495	127619	120457	116534	98597	47720	82418
Scottsdale	SIU	2	67685	158261	66970	124827	183792	125337	66605	199616	125740	118578	114656	96718	45842	80539
Riverview	SIU	2	57860	148436	57145	115002	173967	115512	56780	189791	115915	108753	104830	86893	36016	70714
Canal System 2	SIU	2	44748	135324	44033	101890	160855	102400	43668	176679	102803	95641	91718	73781	22904	57602
Start (E. Classic)			94846	185422	94132	151989	210953	152499	93767	226778	152901	145739	141817	123880	73003	107700
Coyote	Buffer	2	92506	183081	91791	149648	208613	150158	91426	224437	150560	143399	139476	121539	70662	105359
Lehi	Buffer	2	73504	164080	72789	130646	189611	131156	72424	205435	131559	124397	120475	102537	51661	86358
Los Muertos	Buffer	2	38359	128935	37644	95501	154466	96011	37279	170290	96414	89252	85330	67392	16516	51213
Crismon	Buffer	2	30767	121343	30052	87909	146874	88419	29687	162698	88822	81660	77737	59800	8923	43621
Scottsdale	Buffer	2	22257	112833	21543	79400	138364	79910	21178	154189	80312	73150	69228	51291	414	35111
Riverview	Buffer	2	-9031	81545	-9746	48111	107076	48621	-10111	122900	49024	41862	37939	20002	-30875	3823
Canal System 2	Buffer	2	-46906	43669	-47621	10236	69201	10746	-47986	85025	11148	3987	64	-17873	-68750	-34053

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1248 Silk 1	1249 Silk 1	1250 Silk 1	1251 Silk 1	1252 Silk 1	1253 Silk 1	1254 Silk 1	1255 Silk 1	1256 Silk 1	1257 Silk 1	1258 Silk 1	1259 Silk 1	1260 Silk 1	1261 Silk 1
Start (E. Classic)			212118	224670	97624	44479	119229	158427	33866	225598	159641	130666	53713	458894	127620	148289
Coyote	SIU	1	211689	224241	97195	44050	118800	157998	33437	225169	159212	130237	53284	458465	127191	147860
Lehi	SIU	1	209138	221690	94645	41499	116249	155447	30886	222618	156661	127686	50733	455914	124640	145309
Los Muertos	SIU	1	200599	213151	86105	32960	107710	146908	22347	214079	148122	119146	42193	447374	116101	136770
Crismon	SIU	1	199477	212029	84983	31838	106588	145786	21225	212957	147000	118024	41071	446252	114979	135648
Scottsdale	SIU	1	198537	211090	84044	30899	105649	144846	20285	212017	146061	117085	40132	445313	114039	134708
Riverview	SIU	1	193625	206177	79131	25986	100736	139934	15373	207105	141148	112172	35219	440400	109127	129796
Canal System 2	SIU	1	187069	199621	72575	19430	94180	133378	8817	200549	134592	105616	28663	433844	102571	123240
Start (E. Classic)			212118	224670	97624	44479	119229	158427	33866	225598	159641	130666	53713	458894	127620	148289
Coyote	Buffer	1	210948	223500	96454	43309	118059	157257	32695	224427	158471	129495	52542	457723	126449	147118
Lehi	Buffer	1	201447	213999	86953	33808	108558	147756	23195	214927	148970	119995	43041	448222	116949	137618
Los Muertos	Buffer	1	183874	196427	69381	16236	90986	130183	5622	197354	131398	102422	25469	430650	99376	120045
Crismon	Buffer	1	180078	192630	65585	12440	87190	126387	1826	193558	127602	98626	21673	426854	95580	116249
Scottsdale	Buffer	1	175823	188376	61330	8185	82935	122133	-2429	189303	123347	94371	17418	422599	91325	111994
Riverview	Buffer	1	160179	172731	45686	-7459	67291	106488	-18073	173659	107703	78727	1774	406955	75681	96350
Canal System 2	Buffer	1	141242	153794	26748	-26397	48353	87551	-37011	154722	88765	59789	-17164	388017	56743	77413
Start (E. Classic)			212118	224670	97624	44479	119229	158427	33866	225598	159641	130666	53713	458894	127620	148289
Coyote	SIU	2	211260	223812	96766	43621	118371	157569	33008	224740	158783	129808	52855	458036	126762	147431
Lehi	SIU	2	206158	218710	91665	38520	113270	152467	27906	219638	153681	124706	47753	452934	121660	142329
Los Muertos	SIU	2	189080	201632	74586	21441	96191	135389	10827	202559	136603	107627	30674	435855	104581	125250
Crismon	SIU	2	186836	199388	72342	19197	93947	133145	8583	200315	134359	105383	28430	433611	102337	123006
Scottsdale	SIU	2	184957	197509	70463	17318	92068	131266	6705	198437	132480	103504	26551	431732	100459	121128
Riverview	SIU	2	175132	187684	60638	7493	82243	121441	-3121	188611	122655	93679	16726	421907	90633	111302
Canal System 2	SIU	2	162020	174572	47526	-5619	69131	108329	-16233	175499	109543	80567	3614	408795	77521	98190
Start (E. Classic)			212118	224670	97624	44479	119229	158427	33866	225598	159641	130666	53713	458894	127620	148289
Coyote	Buffer	2	209777	222329	95284	42139	116889	156086	31525	223257	157300	128325	51372	456553	125279	145948
Lehi	Buffer	2	190776	203328	76282	23137	97887	137085	12524	204256	138299	109323	32370	437551	106278	126947
Los Muertos	Buffer	2	155631	168183	41137	-12008	62742	101940	-22621	169111	103154	74178	-2775	402406	71133	91802
Crismon	Buffer	2	148039	160591	33545	-19600	55150	94348	-30214	161518	95562	66586	-10367	394814	63540	84209
Scottsdale	Buffer	2	139529	152081	25035	-28110	46640	85838	-38723	153009	87052	58077	-18876	386305	55031	75700
Riverview	Buffer	2	108241	120793	-6253	-59398	15352	54550	-70012	121720	55764	26788	-50165	355016	23742	44411
Canal System 2	Buffer	2	70365	82918	-44128	-97273	-22523	16674	-107887	83845	17889	-11087	-88040	317141	-14133	6536

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1262 Silk 1	1263 Silk 1	1264 Silk 1	1265 Silk 1	1266 Silk 1	1267 Silk 1	1268 Silk 1	1269 Silk 1	1270 Silk 1	1271 Silk 1	1272 Silk 1	1273 Silk 1	1274 Silk 1	1275 Silk 1
Start (E. Classic)			160029	57651	93526	132611	136659	171658	215463	140451	86562	178456	128196	81843	130898	539424
Coyote	SIU	1	159600	57222	93097	132182	136230	171229	215034	140022	86133	178027	127767	81414	130469	538995
Lehi	SIU	1	157049	54671	90546	129631	133679	168678	212483	137471	83582	175476	125216	78863	127919	536444
Los Muertos	SIU	1	148509	46131	82007	121092	125140	160138	203943	128932	75043	166937	116677	70324	119379	527905
Crismon	SIU	1	147387	45009	80885	119970	124018	159016	202821	127810	73921	165815	115555	69202	118257	526783
Scottsdale	SIU	1	146448	44070	79946	119031	123079	158077	201882	126870	72981	164875	114616	68262	117318	525843
Riverview	SIU	1	141535	39157	75033	114118	118166	153164	196969	121958	68069	159963	109703	63350	112405	520931
Canal System 2	SIU	1	134979	32601	68477	107562	111610	146608	190413	115402	61513	153407	103147	56794	105849	514375
Start (E. Classic)			160029	57651	93526	132611	136659	171658	215463	140451	86562	178456	128196	81843	130898	539424
Coyote	Buffer	1	158858	56480	92356	131441	135489	170487	214292	139280	85392	177285	127026	80672	129728	538254
Lehi	Buffer	1	149357	46980	82855	121940	125988	160987	204792	129780	75891	167785	117525	71172	120227	528753
Los Muertos	Buffer	1	131785	29407	65283	104368	108416	143414	187219	112207	58318	150212	99953	53599	102655	511180
Crismon	Buffer	1	127989	25611	61487	100572	104620	139618	183423	108411	54522	146416	96157	49803	98859	507384
Scottsdale	Buffer	1	123734	21356	57232	96317	100365	135363	179168	104156	50267	142161	91902	45548	94604	503130
Riverview	Buffer	1	108090	5712	41588	80673	84721	119719	163524	88512	34623	126517	76258	29904	78960	487485
Canal System 2	Buffer	1	89152	-13226	22650	61735	65783	100781	144586	69575	15686	107579	57320	10966	60022	468548
Start (E. Classic)			160029	57651	93526	132611	136659	171658	215463	140451	86562	178456	128196	81843	130898	539424
Coyote	SIU	2	159171	56793	92668	131753	135801	170800	214605	139593	85704	177598	127338	80985	130040	538566
Lehi	SIU	2	154069	51691	87567	126652	130699	165698	209503	134491	80602	172496	122236	75883	124939	533464
Los Muertos	SIU	2	136990	34612	70488	109573	113621	148619	192424	117412	63524	155417	105158	58804	107860	516386
Crismon	SIU	2	134746	32368	68244	107329	111377	146375	190180	115168	61280	153173	102914	56560	105616	514142
Scottsdale	SIU	2	132867	30489	66365	105450	109498	144496	188301	113290	59401	151295	101035	54682	103737	512263
Riverview	SIU	2	123042	20664	56540	95625	99673	134671	178476	103464	49576	141469	91210	44856	93912	502438
Canal System 2	SIU	2	109930	7552	43428	82513	86561	121559	165364	90352	36464	128357	78098	31744	80800	489326
Start (E. Classic)			160029	57651	93526	132611	136659	171658	215463	140451	86562	178456	128196	81843	130898	539424
Coyote	Buffer	2	157688	55310	91186	130271	134318	169317	213122	138110	84221	176115	125855	79502	128558	537083
Lehi	Buffer	2	138686	36308	72184	111269	115317	150315	194120	119109	65220	157114	106854	60501	109556	518082
Los Muertos	Buffer	2	103541	1163	37039	76124	80172	115170	158975	83964	30075	121969	71709	25356	74411	482937
Crismon	Buffer	2	95949	-6429	29447	68532	72580	107578	151383	76371	22483	114376	64117	17763	66819	475345
Scottsdale	Buffer	2	87440	-14938	20937	60022	64070	99069	142874	67862	13973	105867	55607	9254	58309	466835
Riverview	Buffer	2	56151	-46227	-10351	28734	32782	67780	111585	36573	-17315	74578	24319	-22035	27021	435547
Canal System 2	Buffer	2	18276	-84102	-48226	-9141	-5093	29905	73710	-1302	-55191	36703	-13556	-59910	-10854	397671

System	Acreage Method	Acre-feet	1276 Silk 1	1277 Silk 1	1278 Silk 1	1279 Silk 1	1280 Silk 1	1281 Silk 1	1282 Silk 1	1283 Silk 1	1284 Silk 1	1285 Silk 1	1286 Silk 1	1287 Silk 1	1288 Silk 1	1289 Silk 1
Start (E. Classic)			53522	134425	82709	283208	64290	154465	130122	71597	139593	111685	51163	119728	38446	123066
Coyote	SIU	1	53093	133996	82280	282779	63861	154036	129693	71168	139164	111256	50734	119299	38017	122637
Lehi	SIU	1	50542	131445	79729	280229	61310	151485	127142	68617	136613	108705	48183	116749	35466	120087
Los Muertos	SIU	1	42003	122905	71190	271689	52770	142946	118603	60078	128074	100166	39644	108209	26927	111547
Crismon	SIU	1	40881	121783	70068	270567	51648	141824	117481	58956	126952	99044	38522	107087	25805	110425
Scottsdale	SIU	1	39942	120844	69129	269628	50709	140885	116542	58016	126012	98104	37583	106148	24865	109486
Riverview	SIU	1	35029	115931	64216	264715	45796	135972	111629	53104	121100	93192	32670	101235	19953	104573
Canal System 2	SIU	1	28473	109375	57660	258159	39240	129416	105073	46548	114544	86636	26114	94679	13397	98017
Start (E. Classic)			53522	134425	82709	283208	64290	154465	130122	71597	139593	111685	51163	119728	38446	123066
Coyote	Buffer	1	52352	133254	81539	282038	63119	153295	128952	70427	138422	110514	49993	118558	37276	121896
Lehi	Buffer	1	42851	123753	72038	272537	53618	143794	119451	60926	128922	101014	40492	109057	27775	112395
Los Muertos	Buffer	1	25279	106181	54466	254965	36046	126222	101879	43353	111349	83441	22920	91485	10202	94823
Crismon	Buffer	1	21483	102385	50669	251169	32250	122426	98083	39557	107553	79645	19124	87689	6406	91027
Scottsdale	Buffer	1	17228	98130	46415	246914	27995	118171	93828	35303	103298	75390	14869	83434	2152	86772
Riverview	Buffer	1	1584	82486	30770	231270	12351	102527	78184	19658	87654	59746	-775	67790	-13493	71128
Canal System 2	Buffer	1	-17354	63548	11833	212332	-6587	83589	59246	721	68717	40809	-19713	48852	-32430	52190
Start (E. Classic)			53522	134425	82709	283208	64290	154465	130122	71597	139593	111685	51163	119728	38446	123066
Coyote	SIU	2	52664	133567	81851	282350	63432	153607	129264	70739	138735	110827	50305	118870	37588	122208
Lehi	SIU	2	47563	128465	76749	277249	58330	148506	124162	65637	133633	105725	45203	113769	32486	117107
Los Muertos	SIU	2	30484	111386	59671	260170	41251	131427	107084	48559	116554	88646	28125	96690	15408	100028
Crismon	SIU	2	28240	109142	57427	257926	39007	129183	104840	46315	114310	86402	25881	94446	13164	97784
Scottsdale	SIU	2	26361	107263	55548	256047	37128	127304	102961	44436	112432	84524	24002	92567	11285	95905
Riverview	SIU	2	16536	97438	45723	246222	27303	117479	93136	34611	102606	74698	14177	82742	1460	86080
Canal System 2	SIU	2	3424	84326	32611	233110	14191	104367	80024	21499	89494	61586	1065	69630	-11652	72968
Start (E. Classic)			53522	134425	82709	283208	64290	154465	130122	71597	139593	111685	51163	119728	38446	123066
Coyote	Buffer	2	51182	132084	80368	280868	61949	152125	127781	69256	137252	109344	48822	117388	36105	120726
Lehi	Buffer	2	32180	113082	61367	261866	42947	133123	108780	50255	118251	90343	29821	98386	17104	101724
Los Muertos	Buffer	2	-2965	77937	26222	226721	7802	97978	73635	15110	83106	55198	-5324	63241	-18041	66579
Crismon	Buffer	2	-10557	70345	18630	219129	210	90386	66043	7518	75513	47605	-12916	55649	-25633	58987
Scottsdale	Buffer	2	-19067	61836	10120	210619	-8299	81876	57533	-992	67004	39096	-21426	47139	-34143	50477
Riverview	Buffer	2	-50355	30547	-21168	179331	-39588	50588	26245	-32280	35715	7807	-52714	15851	-65431	19189
Canal System 2	Buffer	2	-88230	-7328	-59043	141456	-77463	12713	-11630	-70156	-2160	-30068	-90589	-22024	-103307	-18686

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1290 Silk 1	1291 Silk 1	1292 Silk 1	1293 Silk 1	1294 Silk 1	1295 Silk 1	1296 Silk 1	1297 Silk 1	1298 Silk 1	1299 Silk 1	Total Deficits	1100 Plant 2	1101 Plant 2
Start (E. Classic)			213929	109025	89072	193398	109102	51319	211567	107901	331897	48847		58688	29344
Coyote	SIU	1	213500	108596	88643	192969	108673	50890	211138	107472	331468	48418	0	58259	28915
Lehi	SIU	1	210949	106045	86093	190418	106123	48339	208587	104921	328917	45867	0	55709	26364
Los Muertos	SIU	1	202410	97506	77553	181879	97583	39800	200047	96381	320377	37328	0	47169	17825
Crismon	SIU	1	201288	96384	76431	180757	96461	38678	198925	95259	319255	36206	0	46047	16703
Scottsdale	SIU	1	200349	95445	75492	179817	95522	37739	197986	94320	318316	35266	0	45108	15764
Riverview	SIU	1	195436	90532	70579	174905	90609	32826	193073	89407	313403	30354	0	40195	10851
Canal System 2	SIU	1	188880	83976	64023	168349	84053	26270	186517	82851	306847	23798	0	33639	4295
Start (E. Classic)			213929	109025	89072	193398	109102	51319	211567	107901	331897	48847		58688	29344
Coyote	Buffer	1	212759	107855	87902	192228	107932	50149	210396	106730	330726	47677	0	57518	28174
Lehi	Buffer	1	203258	98354	78401	182727	98431	40648	200896	97230	321226	38176	0	48017	18673
Los Muertos	Buffer	1	185686	80782	60829	165154	80859	23076	183323	79657	303653	20603	0	30445	1101
Crismon	Buffer	1	181889	76986	57033	161358	77063	19280	179527	75861	299857	16807	0	26649	-2695
Scottsdale	Buffer	1	177635	72731	52778	157103	72808	15025	175272	71606	295602	12553	1	22394	-6950
Riverview	Buffer	1	161990	57087	37134	141459	57164	-619	159628	55962	279958	-3092	9	6750	-22594
Canal System 2	Buffer	1	143053	38149	18196	122522	38226	-19557	140690	37024	261020	-22029	23	-12188	-41532
Start (E. Classic)			213929	109025	89072	193398	109102	51319	211567	107901	331897	48847		58688	29344
Coyote	SIU	2	213071	108167	88214	192540	108244	50461	210709	107043	331039	47989	0	57830	28486
Lehi	SIU	2	207969	103065	83113	187438	103143	45359	205607	101941	325937	42887	0	52729	23384
Los Muertos	SIU	2	190891	85987	66034	170360	86064	28281	188528	84862	308858	25809	0	35650	6306
Crismon	SIU	2	188647	83743	63790	168116	83820	26037	186284	82618	306614	23565	0	33406	4062
Scottsdale	SIU	2	186768	81864	61911	166237	81941	24158	184405	80739	304735	21686	0	31527	2183
Riverview	SIU	2	176943	72039	52086	156412	72116	14333	174580	70914	294910	11861	1	21702	-7642
Canal System 2	SIU	2	163831	58927	38974	143300	59004	1221	161468	57802	281798	-1251	6	8590	-20754
Start (E. Classic)			213929	109025	89072	193398	109102	51319	211567	107901	331897	48847		58688	29344
Coyote	Buffer	2	211588	106684	86732	191057	106762	48978	209226	105560	329556	46506	0	56348	27003
Lehi	Buffer	2	192587	87683	67730	172056	87760	29977	190224	86558	310554	27505	0	37346	8002
Los Muertos	Buffer	2	157442	52538	32585	136911	52615	-5168	155079	51413	275409	-7640	14	2201	-27143
Crismon	Buffer	2	149850	44946	24993	129319	45023	-12760	147487	43821	267817	-15232	19	-5391	-34735
Scottsdale	Buffer	2	141340	36436	16483	120809	36513	-21270	138978	35312	259308	-23742	24	-13901	-43245
Riverview	Buffer	2	110052	5148	-14805	89521	5225	-52558	107689	4023	228019	-55030	58	-45189	-74533
Canal System 2	Buffer	2	72177	-32727	-52680	51645	-32650	-90433	69814	-33852	190144	-92906	113	-83064	-112408

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1102 Plant 2	1103 Plant 2	1104 Plant 2	1105 Plant 2	1106 Plant 2	1107 Plant 2	1108 Plant 2	1109 Plant 2	1110 Plant 2	1111 Plant 2	1112 Plant 2	1113 Plant 2	1114 Plant 2	1115 Plant 2
Start (E. Classic)			43323	57807	35630	84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048
Coyote	SIU	1	42894	57378	35201	84051	40011	27647	38764	58058	43997	44039	52417	33092	75765	54619
Lehi	SIU	1	40343	54827	32650	81500	37461	25096	36213	55507	41446	41488	49867	30541	73214	52068
Los Muertos	SIU	1	31804	46288	24111	72961	28921	16557	27673	46968	32907	32948	41327	22002	64675	43529
Crismon	SIU	1	30682	45166	22989	71839	27799	15435	26551	45846	31785	31826	40205	20880	63553	42407
Scottsdale	SIU	1	29742	44226	22049	70899	26860	14495	25612	44907	30846	30887	39266	19940	62613	41468
Riverview	SIU	1	24830	39314	17137	65987	21947	9583	20699	39994	25933	25974	34353	15028	57701	36555
Canal System 2	SIU	1	18274	32758	10581	59431	15391	3027	14143	33438	19377	19418	27797	8472	51145	29999
Start (E. Classic)			43323	57807	35630	84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048
Coyote	Buffer	1	42152	56636	34459	83310	39270	26905	38022	57317	43256	43297	51676	32350	75024	53878
Lehi	Buffer	1	32652	47136	24959	73809	29769	17405	28522	47816	33755	33796	42175	22850	65523	44377
Los Muertos	Buffer	1	15079	29563	7386	56236	12197	-168	10949	30244	16183	16224	24603	5277	47950	26805
Crismon	Buffer	1	11283	25767	3590	52440	8401	-3964	7153	26448	12387	12428	20807	1481	44154	23008
Scottsdale	Buffer	1	7028	21512	-665	48186	4146	-8219	2898	22193	8132	8173	16552	-2774	39899	18754
Riverview	Buffer	1	-8616	5868	-16309	32541	-11498	-23863	-12746	6549	-7512	-7471	908	-18418	24255	3109
Canal System 2	Buffer	1	-27553	-13070	-35247	13604	-30436	-42801	-31684	-12389	-26450	-26409	-18030	-37355	5318	-15828
Start (E. Classic)			43323	57807	35630	84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048
Coyote	SIU	2	42465	56949	34772	83622	39582	27218	38335	57629	43568	43610	51988	32663	75336	54190
Lehi	SIU	2	37363	51847	29670	78520	34481	22116	33233	52528	38466	38508	46887	27561	70234	49088
Los Muertos	SIU	2	20284	34768	12591	61442	17402	5037	16154	35449	21388	21429	29808	10482	53156	32010
Crismon	SIU	2	18040	32524	10347	59198	15158	2793	13910	33205	19144	19185	27564	8238	50912	29766
Scottsdale	SIU	2	16162	30646	8469	57319	13279	915	12031	31326	17265	17306	25685	6360	49033	27887
Riverview	SIU	2	6336	20820	-1357	47494	3454	-8911	2206	21501	7440	7481	15860	-3466	39208	18062
Canal System 2	SIU	2	-6776	7708	-14469	34382	-9658	-22023	-10906	8389	-5672	-5631	2748	-16578	26096	4950
Start (E. Classic)			43323	57807	35630	84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048
Coyote	Buffer	2	40982	55466	33289	82139	38100	25735	36852	56147	42085	42127	50506	31180	73853	52707
Lehi	Buffer	2	21981	36465	14288	63138	19098	6734	17850	37145	23084	23125	31504	12179	54852	33706
Los Muertos	Buffer	2	-13164	1320	-20857	27993	-16047	-28411	-17295	2000	-12061	-12020	-3641	-22966	19707	-1439
Crismon	Buffer	2	-20757	-6273	-28450	20401	-23639	-36004	-24887	-5592	-19653	-19612	-11233	-30559	12115	-9031
Scottsdale	Buffer	2	-29266	-14782	-36959	11891	-32149	-44513	-33396	-14102	-28163	-28121	-19743	-39068	3605	-17541
Riverview	Buffer	2	-60555	-46071	-68248	-19397	-63437	-75802	-64685	-45390	-59451	-59410	-51031	-70357	-27683	-48829
Canal System 2	Buffer	2	-98430	-83946	-106123	-57273	-101312	-113677	-102560	-83265	-97326	-97285	-88906	-108232	-65559	-86704

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1116 Plant 2	1117 Plant 2	1118 Plant 2	1119 Plant 2	1120 Plant 2	1121 Plant 2	1122 Plant 2	1123 Plant 2	1124 Plant 2	1125 Plant 2	1126 Plant 2	1127 Plant 2	1128 Plant 2	1129 Plant 2
Start (E. Classic)			51336	59874	43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794
Coyote	SIU	1	50907	59445	43208	59755	27838	29890	78178	39841	56630	40775	44389	72336	55150	99365
Lehi	SIU	1	48356	56895	40657	57204	25287	27339	75627	37290	54079	38224	41838	69785	52599	96814
Los Muertos	SIU	1	39816	48355	32118	48665	16747	18800	67088	28751	45540	29684	33299	61246	44060	88275
Crismon	SIU	1	38694	47233	30996	47543	15625	17678	65966	27629	44418	28562	32177	60124	42938	87153
Scottsdale	SIU	1	37755	46294	30057	46603	14686	16738	65026	26690	43478	27623	31238	59184	41999	86214
Riverview	SIU	1	32842	41381	25144	41691	9773	11826	60114	21777	38566	22710	26325	54272	37086	81301
Canal System 2	SIU	1	26286	34825	18588	35135	3217	5270	53558	15221	32010	16154	19769	47716	30530	74745
Start (E. Classic)			51336	59874	43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794
Coyote	Buffer	1	50165	58704	42467	59013	27096	29148	77437	39100	55889	40033	43648	71595	54409	98624
Lehi	Buffer	1	40665	49203	32966	49513	17595	19648	67936	29599	46388	30533	34147	62094	44908	89123
Los Muertos	Buffer	1	23092	31631	15394	31940	23	2075	50363	12027	28815	12960	16575	44521	27336	71551
Crismon	Buffer	1	19296	27835	11598	28144	-3773	-1721	46567	8231	25019	9164	12778	40725	23540	67754
Scottsdale	Buffer	1	15041	23580	7343	23889	-8028	-5976	42313	3976	20765	4909	8524	36471	19285	63500
Riverview	Buffer	1	-603	7936	-8301	8245	-23672	-21620	26668	-11668	5120	-10735	-7121	20826	3641	47855
Canal System 2	Buffer	1	-19541	-11002	-27239	-10693	-42610	-40558	7731	-30606	-13817	-29673	-26058	1889	-15297	28918
Start (E. Classic)			51336	59874	43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794
Coyote	SIU	2	50478	59016	42779	59326	27409	29461	77749	39412	56201	40346	43960	71907	54721	98936
Lehi	SIU	2	45376	53915	37678	54224	22307	24359	72647	34311	51099	35244	38858	66805	49619	93834
Los Muertos	SIU	2	28297	36836	20599	37145	5228	7280	55569	17232	34021	18165	21780	49727	32541	76756
Crismon	SIU	2	26053	34592	18355	34901	2984	5036	53325	14988	31777	15921	19536	47483	30297	74512
Scottsdale	SIU	2	24174	32713	16476	33023	1105	3158	51446	13109	29898	14042	17657	45604	28418	72633
Riverview	SIU	2	14349	22888	6651	23197	-8720	-6668	41621	3284	20073	4217	7832	35779	18593	62808
Canal System 2	SIU	2	1237	9776	-6461	10085	-21832	-19780	28509	-9828	6961	-8895	-5280	22667	5481	49696
Start (E. Classic)			51336	59874	43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794
Coyote	Buffer	2	48995	57534	41297	57843	25926	27978	76266	37930	54718	38863	42477	70424	53238	97453
Lehi	Buffer	2	29993	38532	22295	38842	6924	8977	57265	18928	35717	19861	23476	51423	34237	78452
Los Muertos	Buffer	2	-5152	3387	-12850	3697	-28221	-26168	22120	-16217	572	-15284	-11669	16278	-908	43307
Crismon	Buffer	2	-12744	-4205	-20442	-3896	-35813	-33761	14528	-23809	-7020	-22876	-19261	8686	-8500	35715
Scottsdale	Buffer	2	-21253	-12715	-28952	-12405	-44322	-42270	6018	-32319	-15530	-31385	-27771	176	-17010	27205
Riverview	Buffer	2	-52542	-44003	-60240	-43694	-75611	-73559	-25270	-63607	-46818	-62674	-59059	-31112	-48298	-4083
Canal System 2	Buffer	2	-90417	-81878	-98115	-81569	-113486	-111434	-63146	-101482	-84694	-100549	-96934	-68988	-86173	-41958

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1130 Plant 2	1131 Plant 2	1132 Plant 2	1133 Plant 2	1134 Plant 2	1135 Plant 2	1136 Plant 2	1137 Plant 2	1138 Plant 2	1139 Plant 2	1140 Plant 2	1141 Plant 2	1142 Plant 2	1143 Plant 2
Start (E. Classic)			53274	27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	SIU	1	52845	27239	34530	23939	38279	41924	45348	31411	50664	55197	32638	59760	31999	39599
Lehi	SIU	1	50295	24689	31979	21389	35728	39374	42797	28860	48113	52646	30087	57209	29448	37048
Los Muertos	SIU	1	41755	16149	23440	12849	27189	30834	34258	20321	39574	44106	21548	48670	20908	28509
Crismon	SIU	1	40633	15027	22318	11727	26067	29712	33136	19199	38452	42984	20426	47548	19786	27387
Scottsdale	SIU	1	39694	14088	21379	10788	25127	28773	32197	18259	37513	42045	19486	46608	18847	26447
Riverview	SIU	1	34781	9175	16466	5875	20215	23860	27284	13347	32600	37132	14574	41696	13934	21535
Canal System 2	SIU	1	28225	2619	9910	-681	13659	17304	20728	6791	26044	30576	8018	35140	7378	14979
Start (E. Classic)			53274	27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	Buffer	1	52104	26498	33789	23198	37538	41183	44607	30669	49923	54455	31897	59019	31257	38858
Lehi	Buffer	1	42603	16997	24288	13697	28037	31682	35106	21169	40422	44955	22396	49518	21757	29357
Los Muertos	Buffer	1	25031	-575	6716	-3875	10464	14110	17534	3596	22850	27382	4823	31945	4184	11784
Crismon	Buffer	1	21235	-4371	2920	-7671	6668	10314	13738	-200	19054	23586	1027	28149	388	7988
Scottsdale	Buffer	1	16980	-8626	-1335	-11926	2413	6059	9483	-4455	14799	19331	-3227	23894	-3867	3733
Riverview	Buffer	1	1336	-24270	-16979	-27570	-13231	-9585	-6161	-20099	-845	3687	-18872	8250	-19511	-11911
Canal System 2	Buffer	1	-17602	-43208	-35917	-46508	-32168	-28523	-25099	-39036	-19783	-15251	-37809	-10687	-38449	-30848
Start (E. Classic)			53274	27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	SIU	2	52416	26810	34101	23510	37850	41495	44919	30982	50235	54768	32209	59331	31570	39170
Lehi	SIU	2	47315	21709	29000	18409	32748	36394	39817	25880	45134	49666	27107	54229	26468	34068
Los Muertos	SIU	2	30236	4630	11921	1330	15670	19315	22739	8801	28055	32587	10029	37151	9389	16990
Crismon	SIU	2	27992	2386	9677	-914	13426	17071	20495	6557	25811	30343	7785	34907	7145	14746
Scottsdale	SIU	2	26113	507	7798	-2793	11547	15192	18616	4679	23932	28464	5906	33028	5266	12867
Riverview	SIU	2	16288	-9318	-2027	-12618	1722	5367	8791	-5147	14107	18639	-3919	23203	-4559	3042
Canal System 2	SIU	2	3176	-22430	-15139	-25730	-11390	-7745	-4321	-18259	995	5527	-17031	10091	-17671	-10070
Start (E. Classic)			53274	27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	Buffer	2	50934	25328	32619	22028	36367	40013	43436	29499	48753	53285	30726	57848	30087	37687
Lehi	Buffer	2	31932	6326	13617	3026	17366	21011	24435	10498	29751	34283	11725	38847	11085	18686
Los Muertos	Buffer	2	-3213	-28819	-21528	-32119	-17779	-14134	-10710	-24647	-5394	-862	-23420	3702	-24060	-16459
Crismon	Buffer	2	-10805	-36411	-29120	-39711	-25371	-21726	-18302	-32240	-12986	-8454	-31012	-3890	-31652	-24051
Scottsdale	Buffer	2	-19315	-44921	-37630	-48221	-33881	-30236	-26812	-40749	-21496	-16963	-39522	-12400	-40161	-32561
Riverview	Buffer	2	-50603	-76209	-68918	-79509	-65169	-61524	-58100	-72038	-52784	-48252	-70810	-43688	-71450	-63849
Canal System 2	Buffer	2	-88478	-114084	-106793	-117384	-103045	-99399	-95975	-109913	-90659	-86127	-108686	-81564	-109325	-101725

System	Acreage Method	Acre-feet	1144 Plant 2	1145 Plant 2	1146 Plant 2	1147 Plant 2	1148 Plant 2	1149 Plant 2	1150 Plant 2	1151 Plant 2	1152 Plant 2	1153 Plant 2	1154 Plant 2	1155 Plant 2	1156 Plant 2	1157 Plant 2
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012	56966
Coyote	SIU	1	55192	54377	19794	83535	48514	60791	18061	39393	60095	57692	62843	62549	21583	56537
Lehi	SIU	1	52641	51826	17243	80985	45963	58240	15510	36842	57544	55141	60292	59999	19032	53986
Los Muertos	SIU	1	44101	43287	8704	72445	37424	49701	6971	28303	49005	46602	51753	51459	10493	45447
Crismon	SIU	1	42979	42165	7582	71323	36302	48579	5849	27181	47883	45480	50631	50337	9371	44325
Scottsdale	SIU	1	42040	41225	6642	70384	35363	47640	4910	26241	46944	44541	49692	49398	8431	43386
Riverview	SIU	1	37127	36313	1730	65471	30450	42727	-3	21329	42031	39628	44779	44485	3519	38473
Canal System 2	SIU	1	30571	29757	-4826	58915	23894	36171	-6559	14773	35475	33072	38223	37929	-3037	31917
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012	56966
Coyote	Buffer	1	54450	53635	19052	82794	47773	60050	17320	38651	59354	56951	62102	61808	20842	55796
Lehi	Buffer	1	44949	44135	9552	73293	38272	50549	7819	29151	49853	47450	52601	52307	11341	46295
Los Muertos	Buffer	1	27377	26562	-8021	55721	20700	32977	-9753	11578	32281	29878	35029	34735	-6232	28723
Crismon	Buffer	1	23581	22766	-11817	51925	16903	29180	-13549	7782	28484	26082	31233	30939	-10028	24927
Scottsdale	Buffer	1	19326	18511	-16072	47670	12649	24926	-17804	3527	24230	21827	26978	26684	-14282	20672
Riverview	Buffer	1	3682	2867	-31716	32026	-2996	9281	-33448	-12117	8585	6183	11334	11040	-29927	5028
Canal System 2	Buffer	1	-15256	-16070	-50653	13088	-21933	-9656	-52386	-31055	-10352	-12755	-7604	-7898	-48864	-13910
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012	56966
Coyote	SIU	2	54763	53948	19365	83106	48085	60362	17632	38964	59666	57263	62414	62120	21154	56108
Lehi	SIU	2	49661	48846	14263	78005	42983	55260	12531	33862	54564	52161	57313	57019	16052	51006
Los Muertos	SIU	2	32582	31767	-2816	60926	25905	38182	-4548	16783	37486	35083	40234	39940	-1026	33928
Crismon	SIU	2	30338	29523	-5060	58682	23661	35938	-6792	14539	35242	32839	37990	37696	-3270	31684
Scottsdale	SIU	2	28459	27645	-6938	56803	21782	34059	-8671	12661	33363	30960	36111	35817	-5149	29805
Riverview	SIU	2	18634	17819	-16764	46978	11957	24234	-18496	2835	23538	21135	26286	25992	-14974	19980
Canal System 2	SIU	2	5522	4707	-29876	33866	-1155	11122	-31608	-10277	10426	8023	13174	12880	-28086	6868
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012	56966
Coyote	Buffer	2	53280	52465	17882	81624	46602	58879	16150	37481	58183	55780	60932	60638	19671	54625
Lehi	Buffer	2	34278	33464	-1119	62622	27601	39878	-2852	18480	39182	36779	41930	41636	670	35624
Los Muertos	Buffer	2	-867	-1681	-36264	27477	-7544	4733	-37997	-16665	4037	1634	6785	6491	-34475	479
Crismon	Buffer	2	-8459	-9274	-43857	19885	-15136	-2859	-45589	-24258	-3555	-5958	-807	-1101	-42067	-7113
Scottsdale	Buffer	2	-16968	-17783	-52366	11375	-23646	-11369	-54099	-32767	-12065	-14468	-9317	-9611	-50577	-15623
Riverview	Buffer	2	-48257	-49072	-83655	-19913	-54934	-42657	-85387	-64056	-43353	-45756	-40605	-40899	-81865	-46911
Canal System 2	Buffer	2	-86132	-86947	-121530	-57788	-92809	-80532	-123262	-101931	-81228	-83631	-78480	-78774	-119741	-84786

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1158 Plant 2	1159 Plant 2	1160 Plant 2	1161 Plant 2	1162 Plant 2	1163 Plant 2	1164 Plant 2	1165 Plant 2	1166 Plant 2	1167 Plant 2	1168 Plant 2	1169 Plant 2	1170 Plant 2	1171 Plant 2
Start (E. Classic)			22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488	41255	60921
Coyote	SIU	1	21671	54872	55991	29235	77193	63457	37794	67030	40383	66339	17561	27059	40826	60492
Lehi	SIU	1	19120	52321	53440	26684	74642	60906	35243	64479	37832	63788	15010	24508	38275	57941
Los Muertos	SIU	1	10581	43782	44901	18145	66103	52367	26704	55940	29293	55249	6471	15969	29736	49402
Crismon	SIU	1	9459	42660	43779	17023	64981	51245	25582	54818	28171	54127	5349	14847	28614	48280
Scottsdale	SIU	1	8519	41720	42839	16083	64042	50305	24643	53879	27231	53188	4410	13907	27675	47341
Riverview	SIU	1	3607	36808	37927	11171	59129	45393	19730	48966	22319	48275	-503	8995	22762	42428
Canal System 2	SIU	1	-2949	30252	31371	4615	52573	38837	13174	42410	15763	41719	-7059	2439	16206	35872
Start (E. Classic)			22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488	41255	60921
Coyote	Buffer	1	20929	54130	55249	28494	76452	62716	37053	66289	39641	65598	16820	26318	40085	59751
Lehi	Buffer	1	11429	44630	45749	18993	66951	53215	27552	56788	30141	56097	7319	16817	30584	50250
Los Muertos	Buffer	1	-6144	27057	28176	1420	49379	35642	9980	39216	12568	38525	-10253	-756	13012	32678
Crismon	Buffer	1	-9940	23261	24380	-2376	45583	31846	6184	35420	8772	34729	-14050	-4552	9215	28881
Scottsdale	Buffer	1	-14195	19006	20125	-6631	41328	27591	1929	31165	4517	30474	-18304	-8807	4961	24627
Riverview	Buffer	1	-29839	3362	4481	-22275	25684	11947	-13715	15521	-11127	14830	-33949	-24451	-10684	8982
Canal System 2	Buffer	1	-48777	-15575	-14457	-41212	6746	-6990	-32653	-3417	-30065	-4108	-52886	-43388	-29621	-9955
Start (E. Classic)			22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488	41255	60921
Coyote	SIU	2	21242	54443	55562	28806	76764	63028	37365	66601	39954	65910	17132	26630	40397	60063
Lehi	SIU	2	16140	49341	50460	23704	71662	57926	32264	61499	34852	60809	12030	21528	35295	54961
Los Muertos	SIU	2	-939	32262	33381	6626	54584	40848	15185	44421	17773	43730	-5048	4450	18217	37883
Crismon	SIU	2	-3183	30018	31137	4382	52340	38604	12941	42177	15529	41486	-7292	2206	15973	35639
Scottsdale	SIU	2	-5061	28140	29259	2503	50461	36725	11062	40298	13651	39607	-9171	327	14094	33760
Riverview	SIU	2	-14887	18314	19433	-7322	40636	26900	1237	30473	3825	29782	-18996	-9498	4269	23935
Canal System 2	SIU	2	-27999	5202	6321	-20434	27524	13788	-11875	17361	-9287	16670	-32108	-22610	-8843	10823
Start (E. Classic)			22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488	41255	60921
Coyote	Buffer	2	19759	52960	54079	27323	75281	61545	35883	65118	38471	64428	15649	25147	38914	58580
Lehi	Buffer	2	758	33959	35078	8322	56280	42544	16881	46117	19470	45426	-3352	6146	19913	39579
Los Muertos	Buffer	2	-34387	-1186	-67	-26823	21135	7399	-18264	10972	-15675	10281	-38497	-28999	-15232	4434
Crismon	Buffer	2	-41980	-8779	-7660	-34415	13543	-193	-25856	3380	-23268	2689	-46089	-36591	-22824	-3158
Scottsdale	Buffer	2	-50489	-17288	-16169	-42925	5033	-8703	-34366	-5130	-31777	-5821	-54599	-45101	-31334	-11668
Riverview	Buffer	2	-81778	-48577	-47458	-74213	-26255	-39991	-65654	-36418	-63066	-37109	-85887	-76389	-62622	-42956
Canal System 2	Buffer	2	-119653	-86452	-85333	-112089	-64130	-77867	-103529	-74293	-100941	-74984	-123762	-114265	-100497	-80831

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1172 Plant 2	1173 Plant 2	1174 Plant 2	1175 Plant 2	1176 Plant 2	1177 Plant 2	1178 Plant 2	1179 Plant 2	1180 Plant 2	1181 Plant 2	1182 Plant 2	1183 Plant 2	1184 Plant 2	1185 Plant 2
Start (E. Classic)			65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038	58647	80185	42503
Coyote	SIU	1	64705	77802	37836	19784	36928	25089	62549	34314	57687	65009	21609	58218	79756	42074
Lehi	SIU	1	62154	75251	35285	17233	34377	22538	59999	31763	55136	62458	19058	55667	77205	39523
Los Muertos	SIU	1	53615	66711	26745	8693	25838	13999	51459	23224	46597	53919	10519	47128	68666	30984
Crismon	SIU	1	52493	65589	25623	7571	24716	12877	50337	22102	45475	52797	9397	46006	67544	29862
Scottsdale	SIU	1	51553	64650	24684	6632	23776	11938	49398	21162	44536	51857	8457	45067	66604	28922
Riverview	SIU	1	46641	59737	19771	1719	18864	7025	44485	16250	39623	46945	3545	40154	61692	24010
Canal System 2	SIU	1	40085	53181	13215	-4837	12308	469	37929	9694	33067	40389	-3011	33598	55136	17454
Start (E. Classic)			65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038	58647	80185	42503
Coyote	Buffer	1	63963	77060	37094	19042	36187	24348	61808	33572	56946	64268	20867	57477	79014	41333
Lehi	Buffer	1	54463	67560	27593	9541	26686	14847	52307	24072	47445	54767	11367	47976	69514	31832
Los Muertos	Buffer	1	36890	49987	10021	-8031	9113	-2725	34735	6499	29873	37194	-6206	30404	51941	14259
Crismon	Buffer	1	33094	46191	6225	-11827	5317	-6521	30939	2703	26076	33398	-10002	26608	48145	10463
Scottsdale	Buffer	1	28839	41936	1970	-16082	1063	-10776	26684	-1552	21822	29144	-14257	22353	43890	6208
Riverview	Buffer	1	13195	26292	-13674	-31726	-14582	-26420	11040	-17196	6177	13499	-29901	6709	28246	-9436
Canal System 2	Buffer	1	-5743	7354	-32612	-50664	-33519	-45358	-7898	-36133	-12760	-5438	-48838	-12229	9309	-28373
Start (E. Classic)			65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038	58647	80185	42503
Coyote	SIU	2	64276	77373	37407	19355	36499	24660	62120	33885	57258	64580	21180	57789	79327	41645
Lehi	SIU	2	59174	72271	32305	14253	31397	19558	57019	28783	52156	59478	16078	52687	74225	36543
Los Muertos	SIU	2	42095	55192	15226	-2826	14319	2480	39940	11704	35078	42400	-1001	35609	57146	19465
Crismon	SIU	2	39851	52948	12982	-5070	12075	236	37696	9460	32834	40156	-3245	33365	54902	17221
Scottsdale	SIU	2	37973	51069	11103	-6949	10196	-1643	35817	7582	30955	38277	-5123	31486	53024	15342
Riverview	SIU	2	28147	41244	1278	-16774	371	-11468	25992	-2244	21130	28452	-14949	21661	43198	5517
Canal System 2	SIU	2	15035	28132	-11834	-29886	-12741	-24580	12880	-15356	8018	15340	-28061	8549	30086	-7595
Start (E. Classic)			65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038	58647	80185	42503
Coyote	Buffer	2	62793	75890	35924	17872	35016	23177	60638	32402	55775	63097	19697	56306	77844	40162
Lehi	Buffer	2	43792	56888	16922	-1130	16015	4176	41636	13401	36774	44096	696	37305	58843	21161
Los Muertos	Buffer	2	8647	21743	-18223	-36275	-19130	-30969	6491	-21744	1629	8951	-34449	2160	23698	-13984
Crismon	Buffer	2	1054	14151	-25815	-43867	-26722	-38561	-1101	-29337	-5963	1359	-42042	-5432	16105	-21576
Scottsdale	Buffer	2	-7455	5642	-34324	-52376	-35232	-47071	-9611	-37846	-14473	-7151	-50551	-13942	7596	-30086
Riverview	Buffer	2	-38744	-25647	-65613	-83665	-66520	-78359	-40899	-69135	-45761	-38439	-81840	-45230	-23693	-61374
Canal System 2	Buffer	2	-76619	-63522	-103488	-121540	-104396	-116234	-78774	-107010	-83636	-76315	-119715	-83105	-61568	-99250

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1186 Plant 2	1187 Plant 2	1188 Plant 2	1189 Plant 2	1190 Plant 2	1191 Plant 2	1192 Plant 2	1193 Plant 2	1194 Plant 2	1195 Plant 2	1196 Plant 2	1197 Plant 2	1198 Plant 2	1199 Plant 2
Start (E. Classic)			31381	63571	44127	39316	68955	41482	31943	32490	42240	65397	53821	86656	38775	33946
Coyote	SIU	1	30952	63142	43698	38887	68526	41053	31514	32061	41811	64968	53392	86227	38346	33517
Lehi	SIU	1	28401	60592	41147	36337	65975	38502	28963	29510	39260	62417	50841	83676	35795	30967
Los Muertos	SIU	1	19862	52052	32608	27797	57435	29963	20424	20970	30721	53878	42302	75137	27256	22427
Crismon	SIU	1	18740	50930	31486	26675	56313	28841	19302	19848	29599	52756	41180	74015	26134	21305
Scottsdale	SIU	1	17800	49991	30547	25736	55374	27901	18362	18909	28659	51816	40240	73075	25194	20366
Riverview	SIU	1	12888	45078	25634	20823	50461	22989	13450	13996	23747	46904	35328	68163	20282	15453
Canal System 2	SIU	1	6332	38522	19078	14267	43905	16433	6894	7440	17191	40348	28772	61607	13726	8897
Start (E. Classic)			31381	63571	44127	39316	68955	41482	31943	32490	42240	65397	53821	86656	38775	33946
Coyote	Buffer	1	30211	62401	42957	38146	67784	40312	30773	31319	41070	64226	52651	85486	37605	32776
Lehi	Buffer	1	20710	52900	33456	28645	58283	30811	21272	21818	31569	54726	43150	75985	28104	23275
Los Muertos	Buffer	1	3137	35328	15884	11073	40711	13238	3699	4246	13996	37153	25577	58412	10531	5703
Crismon	Buffer	1	-659	31532	12088	7277	36915	9442	-97	450	10200	33357	21781	54616	6735	1907
Scottsdale	Buffer	1	-4914	27277	7833	3022	32660	5188	-4352	-3805	5946	29102	17526	50361	2481	-2348
Riverview	Buffer	1	-20558	11633	-7811	-12622	17016	-10457	-19996	-19449	-9699	13458	1882	34717	-13164	-17992
Canal System 2	Buffer	1	-39495	-7305	-26749	-31560	-1922	-29394	-38933	-38387	-28636	-5480	-17055	15780	-32101	-36930
Start (E. Classic)			31381	63571	44127	39316	68955	41482	31943	32490	42240	65397	53821	86656	38775	33946
Coyote	SIU	2	30523	62713	43269	38458	68097	40624	31085	31632	41382	64539	52963	85798	37917	33088
Lehi	SIU	2	25421	57612	38167	33357	62995	35522	25983	26530	36280	59437	47861	80696	32815	27987
Los Muertos	SIU	2	8343	40533	21089	16278	45916	18444	8905	9451	19202	42358	30783	63618	15737	10908
Crismon	SIU	2	6099	38289	18845	14034	43672	16200	6661	7207	16958	40114	28539	61374	13493	8664
Scottsdale	SIU	2	4220	36410	16966	12155	41793	14321	4782	5328	15079	38236	26660	59495	11614	6785
Riverview	SIU	2	-5605	26585	7141	2330	31968	4496	-5043	-4497	5254	28410	16835	49670	1789	-3040
Canal System 2	SIU	2	-18717	13473	-5971	-10782	18856	-8616	-18155	-17609	-7858	15298	3723	36558	-11323	-16152
Start (E. Classic)			31381	63571	44127	39316	68955	41482	31943	32490	42240	65397	53821	86656	38775	33946
Coyote	Buffer	2	29040	61231	41786	36976	66614	39141	29602	30149	39899	63056	51480	84315	36434	31606
Lehi	Buffer	2	10039	42229	22785	17974	47612	20140	10601	11147	20898	44055	32479	65314	17433	12604
Los Muertos	Buffer	2	-25106	7084	-12360	-17171	12467	-15005	-24544	-23998	-14247	8910	-2666	30169	-17712	-22541
Crismon	Buffer	2	-32698	-508	-19952	-24763	4875	-22597	-32136	-31590	-21839	1317	-10258	22577	-25304	-30133
Scottsdale	Buffer	2	-41208	-9018	-28462	-33273	-3634	-31107	-40646	-40099	-30349	-7192	-18768	14067	-33814	-38643
Riverview	Buffer	2	-72496	-40306	-59750	-64561	-34923	-62395	-71934	-71388	-61637	-38481	-50056	-17221	-65102	-69931
Canal System 2	Buffer	2	-110372	-78181	-97625	-102436	-72798	-100271	-109810	-109263	-99513	-76356	-87932	-55097	-102978	-107806

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1200 Plant 2	1201 Plant 2	1202 Plant 2	1203 Plant 2	1204 Plant 2	1205 Plant 2	1206 Plant 2	1207 Plant 2	1208 Plant 2	1209 Plant 2	1210 Plant 2	1211 Plant 2	1212 Plant 2	1213 Plant 2
Start (E. Classic)			112356	92938	77426	52169	51574	33584	36354	52617	40050	73518	61404	59343	59989	41453
Coyote	SIU	1	111927	92509	76997	51740	51145	33155	35925	52188	39621	73089	60975	58914	59560	41024
Lehi	SIU	1	109377	89958	74446	49190	48594	30604	33374	49638	37071	70538	58424	56363	57010	38473
Los Muertos	SIU	1	100837	81419	65907	40650	40055	22065	24834	41098	28531	61999	49885	47824	48470	29934
Crismon	SIU	1	99715	80297	64785	39528	38933	20943	23712	39976	27409	60877	48763	46702	47348	28812
Scottsdale	SIU	1	98776	79358	63845	38589	37993	20003	22773	39037	26470	59938	47823	45763	46409	27872
Riverview	SIU	1	93863	74445	58933	33676	33081	15091	17860	34124	21557	55025	42911	40850	41496	22960
Canal System 2	SIU	1	87307	67889	52377	27120	26525	8535	11304	27568	15001	48469	36355	34294	34940	16404
Start (E. Classic)			112356	92938	77426	52169	51574	33584	36354	52617	40050	73518	61404	59343	59989	41453
Coyote	Buffer	1	111186	91768	76255	50999	50403	32414	35183	51447	38880	72348	60234	58173	58819	40282
Lehi	Buffer	1	101685	82267	66755	41498	40903	22913	25683	41946	29379	62847	50733	48672	49318	30782
Los Muertos	Buffer	1	84113	64695	49182	23926	23330	5340	8110	24374	11807	45275	33160	31100	31746	13209
Crismon	Buffer	1	80317	60898	45386	20130	19534	1544	4314	20578	8011	41478	29364	27304	27950	9413
Scottsdale	Buffer	1	76062	56644	41131	15875	15279	-2710	59	16323	3756	37224	25109	23049	23695	5158
Riverview	Buffer	1	60418	40999	25487	231	-365	-18355	-15585	679	-11888	21579	9465	7405	8051	-10486
Canal System 2	Buffer	1	41480	22062	6550	-18707	-19303	-37292	-34523	-18259	-30826	2642	-9472	-11533	-10887	-29424
Start (E. Classic)			112356	92938	77426	52169	51574	33584	36354	52617	40050	73518	61404	59343	59989	41453
Coyote	SIU	2	111498	92080	76568	51311	50716	32726	35496	51759	39192	72660	60546	58485	59131	40595
Lehi	SIU	2	106397	86978	71466	46210	45614	27624	30394	46658	34091	67558	55444	53384	54030	35493
Los Muertos	SIU	2	89318	69900	54387	29131	28535	10546	13315	29579	17012	50480	38366	36305	36951	18414
Crismon	SIU	2	87074	67656	52143	26887	26291	8302	11071	27335	14768	48236	36122	34061	34707	16170
Scottsdale	SIU	2	85195	65777	50265	25008	24413	6423	9192	25456	12889	46357	34243	32182	32828	14292
Riverview	SIU	2	75370	55952	40439	15183	14587	-3402	-633	15631	3064	36532	24418	22357	23003	4466
Canal System 2	SIU	2	62258	42840	27327	2071	1475	-16514	-13745	2519	-10048	23420	11306	9245	9891	-8646
Start (E. Classic)			112356	92938	77426	52169	51574	33584	36354	52617	40050	73518	61404	59343	59989	41453
Coyote	Buffer	2	110016	90597	75085	49829	49233	31243	34013	50277	37710	71177	59063	57003	57649	39112
Lehi	Buffer	2	91014	71596	56084	30827	30232	12242	15011	31275	18708	52176	40062	38001	38647	20111
Los Muertos	Buffer	2	55869	36451	20939	-4318	-4913	-22903	-20134	-3870	-16437	17031	4917	2856	3502	-15034
Crismon	Buffer	2	48277	28859	13346	-11910	-12506	-30495	-27726	-11462	-24029	9439	-2675	-4736	-4090	-22627
Scottsdale	Buffer	2	39767	20349	4837	-20420	-21015	-39005	-36235	-19972	-32539	929	-11185	-13246	-12600	-31136
Riverview	Buffer	2	8479	-10939	-26452	-51708	-52304	-70293	-67524	-51260	-63827	-30359	-42473	-44534	-43888	-62425
Canal System 2	Buffer	2	-29396	-48814	-64327	-89583	-90179	-108169	-105399	-89135	-101702	-68234	-80349	-82409	-81763	-100300

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1214 Plant 2	1215 Plant 2	1216 Plant 2	1217 Plant 2	1218 Plant 2	1219 Plant 2	1220 Plant 2	1221 Plant 2	1222 Plant 2	1223 Plant 2	1224 Plant 2	1225 Plant 2	1226 Plant 2	1227 Plant 2
Start (E. Classic)			27355	23388	24571	19226	43773	68425	39003	31395	38658	52340	45956	47848	52224	15051
Coyote	SIU	1	26926	22959	24142	18797	43344	67996	38574	30966	38229	51911	45527	47419	51795	14622
Lehi	SIU	1	24376	20408	21591	16246	40793	65445	36024	28415	35678	49360	42976	44868	49244	12071
Los Muertos	SIU	1	15836	11869	13052	7707	32254	56905	27484	19876	27139	40820	34437	36329	40704	3531
Crismon	SIU	1	14714	10747	11930	6585	31132	55783	26362	18754	26017	39698	33315	35207	39582	2409
Scottsdale	SIU	1	13775	9807	10990	5646	30192	54844	25423	17815	25078	38759	32375	34267	38643	1470
Riverview	SIU	1	8862	4895	6078	733	25280	49931	20510	12902	20165	33846	27463	29355	33730	-3443
Canal System 2	SIU	1	2306	-1661	-478	-5823	18724	43375	13954	6346	13609	27290	20907	22799	27174	-9999
Start (E. Classic)			27355	23388	24571	19226	43773	68425	39003	31395	38658	52340	45956	47848	52224	15051
Coyote	Buffer	1	26185	22218	23401	18056	42603	67254	37833	30225	37488	51169	44786	46678	51053	13880
Lehi	Buffer	1	16684	12717	13900	8555	33102	57754	28332	20724	27987	41669	35285	37177	41553	4380
Los Muertos	Buffer	1	-888	-4856	-3673	-9017	15529	40181	10760	3152	10415	24096	17712	19604	23980	-13193
Crismon	Buffer	1	-4684	-8652	-7469	-12813	11733	36385	6964	-644	6619	20300	13916	15808	20184	-16989
Scottsdale	Buffer	1	-8939	-12906	-11723	-17068	7478	32130	2709	-4899	2364	16045	9662	11554	15929	-21244
Riverview	Buffer	1	-24583	-28551	-27368	-32712	-8166	16486	-12935	-20543	-13280	401	-5983	-4091	285	-36888
Canal System 2	Buffer	1	-43521	-47488	-46305	-51650	-27103	-2452	-31873	-39481	-32218	-18537	-24920	-23028	-18653	-55826
Start (E. Classic)			27355	23388	24571	19226	43773	68425	39003	31395	38658	52340	45956	47848	52224	15051
Coyote	SIU	2	26497	22530	23713	18368	42915	67567	38145	30537	37800	51482	45098	46990	51366	14193
Lehi	SIU	2	21396	17428	18611	13266	37813	62465	33044	25435	32699	46380	39996	41888	46264	9091
Los Muertos	SIU	2	4317	350	1533	-3812	20735	45386	15965	8357	15620	29301	22918	24810	29185	-7988
Crismon	SIU	2	2073	-1894	-711	-6056	18491	43142	13721	6113	13376	27057	20674	22566	26941	-10232
Scottsdale	SIU	2	194	-3773	-2590	-7935	16612	41263	11842	4234	11497	25178	18795	20687	25062	-12111
Riverview	SIU	2	-9631	-13598	-12415	-17760	6787	31438	2017	-5591	1672	15353	8970	10862	15237	-21936
Canal System 2	SIU	2	-22743	-26710	-25527	-30872	-6325	18326	-11095	-18703	-11440	2241	-4142	-2250	2125	-35048
Start (E. Classic)			27355	23388	24571	19226	43773	68425	39003	31395	38658	52340	45956	47848	52224	15051
Coyote	Buffer	2	25015	21047	22230	16885	41432	66084	36663	29054	36318	49999	43615	45507	49883	12710
Lehi	Buffer	2	6013	2046	3229	-2116	22431	47082	17661	10053	17316	30997	24614	26506	30881	-6292
Los Muertos	Buffer	2	-29132	-33099	-31916	-37261	-12714	11937	-17484	-25092	-17829	-4148	-10531	-8639	-4264	-41437
Crismon	Buffer	2	-36724	-40691	-39508	-44853	-20306	4345	-25076	-32684	-25421	-11740	-18123	-16231	-11856	-49029
Scottsdale	Buffer	2	-45234	-49201	-48018	-53363	-28816	-4164	-33586	-41194	-33931	-20249	-26633	-24741	-20365	-57538
Riverview	Buffer	2	-76522	-80489	-79306	-84651	-60104	-35453	-64874	-72482	-65219	-51538	-57921	-56029	-51654	-88827
Canal System 2	Buffer	2	-114397	-118365	-117182	-122526	-97980	-73328	-102749	-110357	-103094	-89413	-95797	-93905	-89529	-126702

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1228 Plant 2	1229 Plant 2	1230 Plant 2	1231 Plant 2	1232 Plant 2	1233 Plant 2	1234 Plant 2	1235 Plant 2	1236 Plant 2	1237 Plant 2	1238 Plant 2	1239 Plant 2	1240 Plant 2	1241 Plant 2
Start (E. Classic)			102544	78748	61855	46867	83217	31264	34887	68204	34624	55906	77595	56093	34490	83415
Coyote	SIU	1	102115	78319	61426	46438	82788	30835	34458	67775	34195	55477	77166	55664	34061	82986
Lehi	SIU	1	99564	75768	58875	43887	80237	28285	31907	65224	31644	52926	74615	53114	31510	80436
Los Muertos	SIU	1	91025	67229	50336	35348	71698	19745	23368	56684	23105	44387	66076	44574	22971	71896
Crismon	SIU	1	89903	66107	49214	34226	70576	18623	22246	55562	21983	43265	64954	43452	21849	70774
Scottsdale	SIU	1	88963	65167	48274	33287	69636	17684	21307	54623	21044	42325	64014	42513	20910	69835
Riverview	SIU	1	84051	60255	43362	28374	64724	12771	16394	49710	16131	37413	59102	37600	15997	64922
Canal System 2	SIU	1	77495	53699	36806	21818	58168	6215	9838	43154	9575	30857	52546	31044	9441	58366
Start (E. Classic)			102544	78748	61855	46867	83217	31264	34887	68204	34624	55906	77595	56093	34490	83415
Coyote	Buffer	1	101374	77578	60685	45697	82047	30094	33717	67033	33454	54735	76424	54923	33320	82245
Lehi	Buffer	1	91873	68077	51184	36196	72546	20593	24216	57533	23953	45235	66924	45422	23819	72744
Los Muertos	Buffer	1	74300	50504	33611	18624	54973	3021	6644	39960	6381	27662	49351	27850	6247	55172
Crismon	Buffer	1	70504	46708	29815	14828	51177	-775	2848	36164	2585	23866	45555	24054	2450	51376
Scottsdale	Buffer	1	66250	42453	25560	10573	46923	-5030	-1407	31909	-1670	19611	41300	19799	-1804	47121
Riverview	Buffer	1	50605	26809	9916	-5071	31278	-20674	-17051	16265	-17314	3967	25656	4155	-17449	31477
Canal System 2	Buffer	1	31668	7872	-9021	-24009	12341	-39612	-35989	-2673	-36252	-14970	6719	-14783	-36386	12539
Start (E. Classic)			102544	78748	61855	46867	83217	31264	34887	68204	34624	55906	77595	56093	34490	83415
Coyote	SIU	2	101686	77890	60997	46009	82359	30406	34029	67346	33766	55048	76737	55235	33632	82557
Lehi	SIU	2	96584	72788	55895	40907	77257	25305	28927	62244	28665	49946	71635	50134	28530	77456
Los Muertos	SIU	2	79506	55710	38817	23829	60179	8226	11849	45165	11586	32867	54556	33055	11452	60377
Crismon	SIU	2	77262	53466	36573	21585	57935	5982	9605	42921	9342	30623	52312	30811	9208	58133
Scottsdale	SIU	2	75383	51587	34694	19706	56056	4103	7726	41042	7463	28745	50434	28932	7329	56254
Riverview	SIU	2	65558	41762	24869	9881	46231	-5722	-2099	31217	-2362	18919	40608	19107	-2496	46429
Canal System 2	SIU	2	52446	28650	11757	-3231	33119	-18834	-15211	18105	-15474	5807	27496	5995	-15608	33317
Start (E. Classic)			102544	78748	61855	46867	83217	31264	34887	68204	34624	55906	77595	56093	34490	83415
Coyote	Buffer	2	100203	76407	59514	44526	80876	28924	32546	65863	32284	53565	75254	53753	32149	81075
Lehi	Buffer	2	81202	57406	40513	25525	61875	9922	13545	46861	13282	34564	56253	34751	13148	62073
Los Muertos	Buffer	2	46057	22261	5368	-9620	26730	-25223	-21600	11716	-21863	-581	21108	-394	-21997	26928
Crismon	Buffer	2	38465	14669	-2224	-17212	19138	-32815	-29192	4124	-29455	-8174	13515	-7986	-29589	19336
Scottsdale	Buffer	2	29955	6159	-10734	-25722	10628	-41325	-37702	-4385	-37965	-16683	5006	-16496	-38099	10826
Riverview	Buffer	2	-1333	-25129	-42022	-57010	-20660	-72613	-68990	-35674	-69253	-47972	-26283	-47784	-69387	-20462
Canal System 2	Buffer	2	-39209	-63005	-79898	-94885	-58536	-110488	-106865	-73549	-107128	-85847	-64158	-85659	-107262	-58337

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1242 Plant 2	1243 Plant 2	1244 Plant 2	1245 Plant 2	1246 Plant 2	1247 Plant 2	1248 Plant 2	1249 Plant 2	1250 Plant 2	1251 Plant 2	1252 Plant 2	1253 Plant 2	1254 Plant 2	1255 Plant 2
Start (E. Classic)			56241	53607	52164	45567	26853	39615	78023	82640	35909	16361	43856	58274	12457	82982
Coyote	SIU	1	55812	53178	51735	45138	26424	39186	77594	82211	35480	15932	43427	57845	12028	82553
Lehi	SIU	1	53262	50627	49184	42587	23873	36635	75043	79660	32929	13381	40876	55294	9477	80002
Los Muertos	SIU	1	44722	42088	40645	34047	15333	28096	66504	71121	24390	4842	32337	46755	938	71462
Crismon	SIU	1	43600	40966	39523	32925	14211	26974	65382	69999	23268	3720	31215	45633	-184	70340
Scottsdale	SIU	1	42661	40027	38584	31986	13272	26035	64443	69060	22329	2780	30275	44694	-1124	69401
Riverview	SIU	1	37748	35114	33671	27073	8359	21122	59530	64147	17416	-2132	25363	39781	-6036	64488
Canal System 2	SIU	1	31192	28558	27115	20517	1803	14566	52974	57591	10860	-8688	18807	33225	-12592	57932
Start (E. Classic)			56241	53607	52164	45567	26853	39615	78023	82640	35909	16361	43856	58274	12457	82982
Coyote	Buffer	1	55071	52437	50994	44396	25682	38445	76853	81470	34739	15190	42686	57104	11286	81811
Lehi	Buffer	1	45570	42936	41493	34895	16182	28944	67352	71969	25238	5690	33185	47603	1786	72310
Los Muertos	Buffer	1	27998	25364	23921	17323	-1391	11372	49780	54397	7666	-11883	15612	30031	-15787	54738
Crismon	Buffer	1	24202	21568	20125	13527	-5187	7576	45984	50601	3869	-15679	11816	26234	-19583	50942
Scottsdale	Buffer	1	19947	17313	15870	9272	-9442	3321	41729	46346	-385	-19934	7562	21980	-23838	46687
Riverview	Buffer	1	4303	1669	226	-6372	-25086	-12323	26085	30702	-16030	-35578	-8083	6335	-39482	31043
Canal System 2	Buffer	1	-14635	-17269	-18712	-25310	-44024	-31261	7147	11764	-34967	-54515	-27020	-12602	-58419	12105
Start (E. Classic)			56241	53607	52164	45567	26853	39615	78023	82640	35909	16361	43856	58274	12457	82982
Coyote	SIU	2	55383	52749	51306	44709	25995	38757	77165	81782	35051	15503	42998	57416	11599	82124
Lehi	SIU	2	50282	47647	46205	39607	20893	33655	72063	76680	29949	10401	37896	52314	6497	77022
Los Muertos	SIU	2	33203	30569	29126	22528	3814	16577	54985	59602	12871	-6678	20818	35236	-10582	59943
Crismon	SIU	2	30959	28325	26882	20284	1570	14333	52741	57358	10627	-8922	18574	32992	-12826	57699
Scottsdale	SIU	2	29080	26446	25003	18405	-309	12454	50862	55479	8748	-10800	16695	31113	-14704	55820
Riverview	SIU	2	19255	16621	15178	8580	-10134	2629	41037	45654	-1077	-20626	6870	21288	-24530	45995
Canal System 2	SIU	2	6143	3509	2066	-4532	-23246	-10483	27925	32542	-14189	-33738	-6242	8176	-37642	32883
Start (E. Classic)			56241	53607	52164	45567	26853	39615	78023	82640	35909	16361	43856	58274	12457	82982
Coyote	Buffer	2	53901	51266	49824	43226	24512	37274	75682	80299	33568	14020	41515	55933	10116	80641
Lehi	Buffer	2	34899	32265	30822	24224	5510	18273	56681	61298	14567	-4981	22514	36932	-8885	61639
Los Muertos	Buffer	2	-246	-2880	-4323	-10921	-29635	-16872	21536	26153	-20578	-40126	-12631	1787	-44030	26494
Crismon	Buffer	2	-7838	-10472	-11915	-18513	-37227	-24464	13944	18561	-28170	-47719	-20223	-5805	-51623	18902
Scottsdale	Buffer	2	-16348	-18982	-20425	-27022	-45736	-32974	5434	10051	-36680	-56228	-28733	-14315	-60132	10393
Riverview	Buffer	2	-47636	-50270	-51713	-58311	-77025	-64262	-25854	-21237	-67968	-87517	-60021	-45603	-91421	-20896
Canal System 2	Buffer	2	-85511	-88145	-89588	-96186	-114900	-102137	-63729	-59112	-105843	-125392	-97897	-83478	-129296	-58771

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1256 Plant 2	1257 Plant 2	1258 Plant 2	1259 Plant 2	1260 Plant 2	1261 Plant 2	1262 Plant 2	1263 Plant 2	1264 Plant 2	1265 Plant 2	1266 Plant 2	1267 Plant 2	1268 Plant 2	1269 Plant 2
Start (E. Classic)			58721	48063	19757	168795	46942	54545	58863	21206	34402	48778	50267	63141	79253	51662
Coyote	SIU	1	58292	47634	19328	168366	46513	54116	58434	20777	33973	48349	49838	62712	78824	51233
Lehi	SIU	1	55741	45083	16777	165815	43962	51565	55883	18226	31422	45798	47287	60161	76274	48682
Los Muertos	SIU	1	47202	36543	8238	157275	35423	43026	47344	9686	22883	37259	38748	51622	67734	40143
Crismon	SIU	1	46080	35421	7116	156153	34301	41904	46222	8564	21761	36137	37626	50500	66612	39021
Scottsdale	SIU	1	45140	34482	6176	155214	33362	40964	45283	7625	20821	35198	36687	49560	65673	38081
Riverview	SIU	1	40228	29569	1264	150301	28449	36052	40370	2712	15909	30285	31774	44648	60760	33169
Canal System 2	SIU	1	33672	23013	-5292	143745	21893	29496	33814	-3844	9353	23729	25218	38092	54204	26613
Start (E. Classic)			58721	48063	19757	168795	46942	54545	58863	21206	34402	48778	50267	63141	79253	51662
Coyote	Buffer	1	57550	46892	18587	167624	45772	53375	57693	20035	33231	47608	49097	61970	78083	50492
Lehi	Buffer	1	48050	37392	9086	158123	36271	43874	48192	10535	23731	38107	39596	52470	68582	40991
Los Muertos	Buffer	1	30477	19819	-8487	140551	18699	26301	30620	-7038	6158	20535	22024	34897	51010	23418
Crismon	Buffer	1	26681	16023	-12283	136755	14903	22505	26824	-10834	2362	16739	18228	31101	47214	19622
Scottsdale	Buffer	1	22426	11768	-16537	132500	10648	18251	22569	-15089	-1893	12484	13973	26846	42959	15367
Riverview	Buffer	1	6782	-3876	-32182	116856	-4996	2606	6925	-30733	-17537	-3160	-1671	11202	27315	-277
Canal System 2	Buffer	1	-12156	-22814	-51119	97918	-23934	-16331	-12013	-49671	-36475	-22098	-20609	-7736	8377	-19214
Start (E. Classic)			58721	48063	19757	168795	46942	54545	58863	21206	34402	48778	50267	63141	79253	51662
Coyote	SIU	2	57863	47205	18899	167937	46084	53687	58005	20348	33544	47920	49409	62283	78395	50804
Lehi	SIU	2	52761	42103	13797	162835	40982	48585	52903	15246	28442	42819	44307	57181	73294	45702
Los Muertos	SIU	2	35682	25024	-3281	145756	23904	31507	35825	-1833	11363	25740	27229	40102	56215	28624
Crismon	SIU	2	33438	22780	-5525	143512	21660	29263	33581	-4077	9119	23496	24985	37858	53971	26380
Scottsdale	SIU	2	31560	20901	-7404	141633	19781	27384	31702	-5956	7241	21617	23106	35980	52092	24501
Riverview	SIU	2	21734	11076	-17229	131808	9956	17559	21877	-15781	-2585	11792	13281	26154	42267	14676
Canal System 2	SIU	2	8622	-2036	-30341	118696	-3156	4447	8765	-28893	-15697	-1320	169	13042	29155	1564
Start (E. Classic)			58721	48063	19757	168795	46942	54545	58863	21206	34402	48778	50267	63141	79253	51662
Coyote	Buffer	2	56380	45722	17416	166454	44601	52204	56522	18865	32061	46438	47926	60800	76913	49321
Lehi	Buffer	2	37379	26720	-1585	147452	25600	33203	37521	-137	13060	27436	28925	41799	57911	30320
Los Muertos	Buffer	2	2234	-8425	-36730	112307	-9545	-1942	2376	-35282	-22085	-7709	-6220	6654	22766	-4825
Crismon	Buffer	2	-5359	-16017	-44322	104715	-17137	-9534	-5216	-42874	-29678	-15301	-13812	-939	15174	-12417
Scottsdale	Buffer	2	-13868	-24526	-52832	96206	-25647	-18044	-13726	-51383	-38187	-23811	-22322	-9448	6664	-20927
Riverview	Buffer	2	-45157	-55815	-84120	64917	-56935	-49332	-45014	-82672	-69476	-55099	-53610	-40737	-24624	-52215
Canal System 2	Buffer	2	-83032	-93690	-121996	27042	-94810	-87208	-82889	-120547	-107351	-92974	-91485	-78612	-62499	-90091

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1270 Plant 2	1271 Plant 2	1272 Plant 2	1273 Plant 2	1274 Plant 2	1275 Plant 2	1276 Plant 2	1277 Plant 2	1278 Plant 2	1279 Plant 2	1280 Plant 2	1281 Plant 2	1282 Plant 2	1283 Plant 2
Start (E. Classic)			31840	65641	47154	30104	48148	198416	19687	49445	30423	104172	23648	56817	47863	26335
Coyote	SIU	1	31411	65212	46725	29675	47719	197987	19258	49016	29994	103743	23219	56388	47434	25906
Lehi	SIU	1	28860	62661	44174	27124	45168	195436	16707	46465	27443	101192	20668	53837	44883	23356
Los Muertos	SIU	1	20321	54122	35635	18585	36629	186897	8168	37926	18904	92653	12128	45298	36344	14816
Crismon	SIU	1	19199	53000	34513	17463	35507	185775	7046	36804	17782	91531	11006	44176	35222	13694
Scottsdale	SIU	1	18259	52061	33574	16524	34568	184835	6106	35865	16842	90592	10067	43236	34282	12755
Riverview	SIU	1	13347	47148	28661	11611	29655	179923	1194	30952	11930	85679	5154	38324	29370	7842
Canal System 2	SIU	1	6791	40592	22105	5055	23099	173367	-5362	24396	5374	79123	-1402	31768	22814	1286
Start (E. Classic)			31840	65641	47154	30104	48148	198416	19687	49445	30423	104172	23648	56817	47863	26335
Coyote	Buffer	1	30670	64471	45984	28934	46978	197246	18517	48275	29252	103002	22477	55646	46692	25165
Lehi	Buffer	1	21169	54970	36483	19433	37477	187745	9016	38774	19752	93501	12976	46146	37192	15664
Los Muertos	Buffer	1	3596	37398	18911	1861	19905	170172	-8557	21202	2179	75929	-4596	28573	19619	-1908
Crismon	Buffer	1	-200	33602	15115	-1936	16109	166376	-12353	17406	-1617	72133	-8392	24777	15823	-5704
Scottsdale	Buffer	1	-4454	29347	10860	-6190	11854	162122	-16607	13151	-5872	67878	-12647	20522	11568	-9959
Riverview	Buffer	1	-20099	13703	-4784	-21835	-3790	146477	-32252	-2493	-21516	52234	-28291	4878	-4076	-25603
Canal System 2	Buffer	1	-39036	-5235	-23722	-40772	-22728	127540	-51189	-21431	-40453	33296	-47229	-14059	-23014	-44541
Start (E. Classic)			31840	65641	47154	30104	48148	198416	19687	49445	30423	104172	23648	56817	47863	26335
Coyote	SIU	2	30982	64783	46296	29246	47290	197558	18829	48587	29565	103314	22790	55959	47005	25477
Lehi	SIU	2	25880	59681	41195	24144	42188	192456	13727	43485	24463	98213	17688	50857	41903	20376
Los Muertos	SIU	2	8802	42603	24116	7066	25110	175378	-3351	26407	7384	81134	609	33778	24824	3297
Crismon	SIU	2	6558	40359	21872	4822	22866	173134	-5595	24163	5140	78890	-1635	31534	22580	1053
Scottsdale	SIU	2	4679	38480	19993	2943	20987	171255	-7474	22284	3262	77011	-3514	29656	20702	-826
Riverview	SIU	2	-5146	28655	10168	-6882	11162	161430	-17299	12459	-6564	67186	-13339	19830	10876	-10651
Canal System 2	SIU	2	-18258	15543	-2944	-19994	-1950	148318	-30411	-653	-19676	54074	-26451	6718	-2236	-23763
Start (E. Classic)			31840	65641	47154	30104	48148	198416	19687	49445	30423	104172	23648	56817	47863	26335
Coyote	Buffer	2	29499	63300	44814	27763	45807	196075	17346	47104	28082	101832	21307	54476	45522	23995
Lehi	Buffer	2	10498	44299	25812	8762	26806	177074	-1655	28103	9081	82830	2305	35475	26521	4993
Los Muertos	Buffer	2	-24647	9154	-9333	-26383	-8339	141929	-36800	-7042	-26064	47685	-32840	330	-8624	-30152
Crismon	Buffer	2	-32239	1562	-16925	-33975	-15931	134337	-44392	-14634	-33657	40093	-40432	-7263	-16217	-37744
Scottsdale	Buffer	2	-40749	-6948	-25435	-42485	-24441	125827	-52902	-23144	-42166	31583	-48941	-15772	-24726	-46254
Riverview	Buffer	2	-72037	-38236	-56723	-73773	-55729	94539	-84190	-54432	-73455	295	-80230	-47061	-56015	-77542
Canal System 2	Buffer	2	-109913	-76111	-94598	-111648	-93604	56663	-122066	-92307	-111330	-37580	-118105	-84936	-93890	-115417

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1284 Plant 2	1285 Plant 2	1286 Plant 2	1287 Plant 2	1288 Plant 2	1289 Plant 2	1290 Plant 2	1291 Plant 2	1292 Plant 2	1293 Plant 2	1294 Plant 2	1295 Plant 2	1296 Plant 2	1297 Plant 2
Start (E. Classic)			51346	41081	18819	44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689
Coyote	SIU	1	50917	40652	18390	43611	13713	44838	78260	39674	32334	70708	39702	18448	77391	39260
Lehi	SIU	1	48366	38101	15839	41060	11162	42288	75710	37123	29784	68158	37151	15897	74841	36709
Los Muertos	SIU	1	39827	29562	7300	32520	2622	33748	67170	28583	21244	59618	28612	7358	66301	28170
Crismon	SIU	1	38705	28440	6178	31398	1500	32626	66048	27461	20122	58496	27490	6236	65179	27048
Scottsdale	SIU	1	37766	27500	5239	30459	561	31687	65109	26522	19183	57557	26550	5296	64240	26108
Riverview	SIU	1	32853	22588	326	25546	-4352	26774	60196	21609	14270	52644	21638	384	59327	21196
Canal System 2	SIU	1	26297	16032	-6230	18990	-10908	20218	53640	15053	7714	46088	15082	-6172	52771	14640
Start (E. Classic)			51346	41081	18819	44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689
Coyote	Buffer	1	50176	39911	17649	42869	12971	44097	77519	38932	31593	69967	38961	17706	76650	38519
Lehi	Buffer	1	40675	30410	8148	33369	3471	34596	68018	29432	22092	60466	29460	8206	67149	29018
Los Muertos	Buffer	1	23103	12837	-9424	15796	-14102	17024	50446	11859	4520	42894	11887	-9367	49577	11445
Crismon	Buffer	1	19307	9041	-13220	12000	-17898	13228	46650	8063	724	39098	8091	-13163	45781	7649
Scottsdale	Buffer	1	15052	4786	-17475	7745	-22153	8973	42395	3808	-3531	34843	3837	-17418	41526	3395
Riverview	Buffer	1	-592	-10858	-33119	-7899	-37797	-6671	26751	-11836	-19175	19199	-11808	-33062	25882	-12250
Canal System 2	Buffer	1	-19530	-29795	-52057	-26837	-56735	-25609	7813	-30774	-38113	261	-30745	-52000	6944	-31187
Start (E. Classic)			51346	41081	18819	44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689
Coyote	SIU	2	50488	40223	17961	43182	13284	44409	77831	39245	31905	70279	39273	18019	76962	38831
Lehi	SIU	2	45387	35121	12860	38080	8182	39308	72730	34143	26804	65178	34171	12917	71861	33729
Los Muertos	SIU	2	28308	18043	-4219	21001	-8897	22229	55651	17064	9725	48099	17093	-4162	54782	16651
Crismon	SIU	2	26064	15799	-6463	18757	-11141	19985	53407	14820	7481	45855	14849	-6406	52538	14407
Scottsdale	SIU	2	24185	13920	-8342	16878	-13020	18106	51528	12941	5602	43976	12970	-8284	50659	12528
Riverview	SIU	2	14360	4095	-18167	7053	-22845	8281	41703	3116	-4223	34151	3145	-18110	40834	2703
Canal System 2	SIU	2	1248	-9017	-31279	-6059	-35957	-4831	28591	-9996	-17335	21039	-9967	-31222	27722	-10409
Start (E. Classic)			51346	41081	18819	44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689
Coyote	Buffer	2	49006	38740	16479	41699	11801	42927	76349	37762	30423	68797	37790	16536	75480	37348
Lehi	Buffer	2	30004	19739	-2523	22697	-7201	23925	57347	18760	11421	49795	18789	-2465	56478	18347
Los Muertos	Buffer	2	-5141	-15406	-37668	-12448	-42346	-11220	22202	-16385	-23724	14650	-16356	-37610	21333	-16798
Crismon	Buffer	2	-12733	-22998	-45260	-20040	-49938	-18812	14610	-23977	-31316	7058	-23948	-45203	13741	-24390
Scottsdale	Buffer	2	-21243	-31508	-53770	-28549	-58447	-27322	6100	-32486	-39826	-1452	-32458	-53712	5231	-32900
Riverview	Buffer	2	-52531	-62796	-85058	-59838	-89736	-58610	-25188	-63775	-71114	-32740	-63746	-85001	-26057	-64188
Canal System 2	Buffer	2	-90406	-100672	-122933	-97713	-127611	-96485	-63063	-101650	-108989	-70615	-101622	-122876	-63932	-102064

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1298 Plant 2	1299 Plant 2	Total Deficits	1100 Silk 2	1101 Silk 2	1102 Silk 2	1103 Silk 2	1104 Silk 2	1105 Silk 2	1106 Silk 2	1107 Silk 2	1108 Silk 2	1109 Silk 2
Start (E. Classic)			122081	17967		50221	25111	37073	49467	30489	72292	34606	24025	33538	50049
Coyote	SIU	1	121652	17538	0	49792	24682	36644	49038	30060	71863	34177	23596	33109	49620
Lehi	SIU	1	119101	14987	0	47241	22131	34093	46487	27509	69312	31626	21045	30558	47069
Los Muertos	SIU	1	110562	6448	0	38702	13591	25553	37948	18970	60773	23087	12506	22019	38530
Crismon	SIU	1	109440	5326	1	37580	12469	24431	36826	17848	59651	21965	11384	20897	37408
Scottsdale	SIU	1	108501	4387	1	36641	11530	23492	35886	16909	58711	21025	10445	19958	36469
Riverview	SIU	1	103588	-526	7	31728	6617	18579	30974	11996	53799	16113	5532	15045	31556
Canal System 2	SIU	1	97032	-7082	22	25172	61	12023	24418	5440	47243	9557	-1024	8489	25000
Start (E. Classic)			122081	17967		50221	25111	37073	49467	30489	72292	34606	24025	33538	50049
Coyote	Buffer	1	120911	16797	0	49051	23940	35902	48296	29319	71122	33436	22855	32368	48879
Lehi	Buffer	1	111410	7296	0	39550	14440	26401	38796	19818	61621	23935	13354	22867	39378
Los Muertos	Buffer	1	93838	-10276	29	21978	-3133	8829	21223	2246	44048	6362	-4218	5295	21806
Crismon	Buffer	1	90042	-14072	41	18182	-6929	5033	17427	-1550	40252	2566	-8014	1499	18010
Scottsdale	Buffer	1	85787	-18327	56	13927	-11184	778	13172	-5805	35997	-1688	-12269	-2756	13755
Riverview	Buffer	1	70143	-33971	113	-1717	-26828	-14866	-2472	-21449	20353	-17333	-27913	-18400	-1889
Canal System 2	Buffer	1	51205	-52909	170	-20655	-45766	-33804	-21409	-40387	1416	-36270	-46851	-37338	-20827
Start (E. Classic)			122081	17967		50221	25111	37073	49467	30489	72292	34606	24025	33538	50049
Coyote	SIU	2	121223	17109	0	49363	24253	36215	48609	29631	71434	33748	23167	32680	49191
Lehi	SIU	2	116122	12008	0	44262	19151	31113	43507	24530	66332	28646	18065	27578	44089
Los Muertos	SIU	2	99043	-5071	18	27183	2072	14034	26428	7451	49254	11568	987	10500	27011
Crismon	SIU	2	96799	-7315	22	24939	-172	11790	24184	5207	47010	9324	-1257	8256	24767
Scottsdale	SIU	2	94920	-9194	25	23060	-2051	9911	22306	3328	45131	7445	-3136	6377	22888
Riverview	SIU	2	85095	-19019	57	13235	-11876	86	12480	-6497	35306	-2380	-12961	-3448	13063
Canal System 2	SIU	2	71983	-32131	107	123	-24988	-13026	-632	-19609	22194	-15492	-26073	-16560	-49
Start (E. Classic)			122081	17967		50221	25111	37073	49467	30489	72292	34606	24025	33538	50049
Coyote	Buffer	2	119741	15627	0	47881	22770	34732	47126	28149	69951	32265	21684	31197	47708
Lehi	Buffer	2	100739	-3375	15	28879	3768	15730	28125	9147	50950	13264	2683	12196	28707
Los Muertos	Buffer	2	65594	-38520	133	-6266	-31377	-19415	-7020	-25998	15805	-21881	-32462	-22949	-6438
Crismon	Buffer	2	58002	-46112	161	-13858	-38969	-27007	-14613	-33590	8213	-29473	-40054	-30541	-14030
Scottsdale	Buffer	2	49492	-54622	171	-22368	-47478	-35516	-23122	-42100	-297	-37983	-48564	-39051	-22540
Riverview	Buffer	2	18204	-85910	195	-53656	-78767	-66805	-54411	-73388	-31585	-69271	-79852	-70339	-53828
Canal System 2	Buffer	2	-19671	-123785	198	-91531	-116642	-104680	-92286	-111263	-69461	-107147	-117727	-108214	-91703

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1110 Silk 2	1111 Silk 2	1112 Silk 2	1113 Silk 2	1114 Silk 2	1115 Silk 2	1116 Silk 2	1117 Silk 2	1118 Silk 2	1119 Silk 2	1120 Silk 2	1121 Silk 2	1122 Silk 2	1123 Silk 2
Start (E. Classic)			38017	38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	SIU	1	37588	37623	44793	28256	64772	46677	43500	50807	36913	51072	23759	25516	66837	34031
Lehi	SIU	1	35037	35072	42242	25705	62221	44126	40949	48256	34362	48521	21209	22965	64286	31481
Los Muertos	SIU	1	26498	26533	33703	17165	53682	35587	32410	39717	25822	39982	12669	14425	55747	22941
Crismon	SIU	1	25376	25411	32581	16043	52560	34465	31288	38595	24700	38860	11547	13303	54625	21819
Scottsdale	SIU	1	24436	24471	31642	15104	51621	33526	30349	37656	23761	37920	10608	12364	53686	20880
Riverview	SIU	1	19524	19559	26729	10191	46708	28613	25436	32743	18848	33008	5695	7451	48773	15967
Canal System 2	SIU	1	12968	13003	20173	3635	40152	22057	18880	26187	12292	26452	-861	895	42217	9411
Start (E. Classic)			38017	38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	Buffer	1	36846	36882	44052	27514	64031	45936	42759	50066	36171	50331	23018	24774	66096	33290
Lehi	Buffer	1	27346	27381	34551	18014	54530	36435	33258	40565	26671	40830	13517	15274	56595	23789
Los Muertos	Buffer	1	9773	9808	16979	441	36958	18863	15686	22993	9098	23257	-4055	-2299	39023	6217
Crismon	Buffer	1	5977	6012	13182	-3355	33162	15067	11890	19196	5302	19461	-7851	-6095	35227	2421
Scottsdale	Buffer	1	1722	1758	8928	-7610	28907	10812	7635	14942	1047	15206	-12106	-10350	30972	-1834
Riverview	Buffer	1	-13922	-13887	-6717	-23254	13263	-4832	-8009	-703	-14597	-438	-27750	-25994	15328	-17478
Canal System 2	Buffer	1	-32860	-32824	-25654	-42192	-5675	-23770	-26947	-19640	-33535	-19375	-46688	-44932	-3610	-36416
Start (E. Classic)			38017	38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	SIU	2	37159	37194	44364	27827	64343	46248	43071	50378	36484	50643	23330	25087	66408	33602
Lehi	SIU	2	32057	32092	39262	22725	59241	41146	37970	45276	31382	45541	18229	19985	61306	28501
Los Muertos	SIU	2	14978	15014	22184	5646	42163	24068	20891	28198	14303	28463	1150	2906	44228	11422
Crismon	SIU	2	12734	12770	19940	3402	39919	21824	18647	25954	12059	26219	-1094	662	41984	9178
Scottsdale	SIU	2	10856	10891	18061	1523	38040	19945	16768	24075	10180	24340	-2973	-1217	40105	7299
Riverview	SIU	2	1030	1066	8236	-8302	28215	10120	6943	14250	355	14515	-12798	-11042	30280	-2526
Canal System 2	SIU	2	-12082	-12046	-4876	-21414	15103	-2992	-6169	1138	-12757	1403	-25910	-24154	17168	-15638
Start (E. Classic)			38017	38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	Buffer	2	35676	35711	42881	26344	62860	44765	41589	48895	35001	49160	21848	23604	64925	32120
Lehi	Buffer	2	16675	16710	23880	7342	43859	25764	22587	29894	15999	30159	2846	4602	45924	13118
Los Muertos	Buffer	2	-18470	-18435	-11265	-27803	8714	-9381	-12558	-5251	-19146	-4986	-32299	-30543	10779	-22027
Crismon	Buffer	2	-26063	-26027	-18857	-35395	1122	-16973	-20150	-12843	-26738	-12578	-39891	-38135	3187	-29619
Scottsdale	Buffer	2	-34572	-34537	-27367	-43904	-7388	-25483	-28660	-21353	-35247	-21088	-48401	-46644	-5323	-38129
Riverview	Buffer	2	-65861	-65825	-58655	-75193	-38676	-56771	-59948	-52641	-66536	-52376	-79689	-77933	-36611	-69417
Canal System 2	Buffer	2	-103736	-103701	-96530	-113068	-76551	-94646	-97823	-90516	-104411	-90252	-117564	-115808	-74486	-107292

System	Acreage Method	Acre-feet	1124 Silk 2	1125 Silk 2	1126 Silk 2	1127 Silk 2	1128 Silk 2	1129 Silk 2	1130 Silk 2	1131 Silk 2	1132 Silk 2	1133 Silk 2	1134 Silk 2	1135 Silk 2	1136 Silk 2	1137 Silk 2
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173	27246
Coyote	SIU	1	48398	34830	37923	61838	47132	84968	45159	23248	29487	20424	32694	35814	38744	26817
Lehi	SIU	1	45847	32279	35372	59287	44581	82417	42608	20697	26936	17873	30144	33263	36193	24266
Los Muertos	SIU	1	37308	23740	26833	50748	36041	73877	34069	12157	18397	9334	21604	24724	27654	15727
Crismon	SIU	1	36186	22618	25711	49626	34919	72755	32947	11035	17275	8212	20482	23602	26532	14605
Scottsdale	SIU	1	35246	21678	24772	48686	33980	71816	32008	10096	16335	7272	19543	22662	25592	13666
Riverview	SIU	1	30334	16766	19859	43774	29067	66903	27095	5183	11423	2360	14630	17750	20680	8753
Canal System 2	SIU	1	23778	10210	13303	37218	22511	60347	20539	-1373	4867	-4196	8074	11194	14124	2197
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173	27246
Coyote	Buffer	1	47657	34089	37182	61097	46390	84226	44418	22506	28745	19682	31953	35073	38002	26076
Lehi	Buffer	1	38156	24588	27681	51596	36890	74725	34917	13006	19245	10182	22452	25572	28502	16575
Los Muertos	Buffer	1	20583	7015	10109	34023	19317	57153	17345	-4567	1672	-7391	4880	7999	10929	-997
Crismon	Buffer	1	16787	3219	6312	30227	15521	53357	13549	-8363	-2124	-11187	1084	4203	7133	-4793
Scottsdale	Buffer	1	12533	-1035	2058	25973	11266	49102	9294	-12618	-6379	-15442	-3171	-51	2878	-9048
Riverview	Buffer	1	-3112	-16680	-13587	10328	-4378	33458	-6350	-28262	-22023	-31086	-18815	-15696	-12766	-24692
Canal System 2	Buffer	1	-22049	-35617	-32524	-8609	-23316	14520	-25288	-47200	-40961	-50024	-37753	-34633	-31703	-43630
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173	27246
Coyote	SIU	2	47969	34401	37494	61409	46703	84539	44730	22819	29058	19995	32265	35385	38315	26388
Lehi	SIU	2	42867	29299	32392	56307	41601	79437	39629	17717	23956	14893	27164	30283	33213	21286
Los Muertos	SIU	2	25789	12221	15314	39229	24522	62358	22550	638	6877	-2186	10085	13205	16134	4208
Crismon	SIU	2	23545	9977	13070	36985	22278	60114	20306	-1606	4633	-4430	7841	10961	13890	1964
Scottsdale	SIU	2	21666	8098	11191	35106	20399	58235	18427	-3485	2755	-6308	5962	9082	12012	85
Riverview	SIU	2	11841	-1727	1366	25281	10574	48410	8602	-13310	-7071	-16134	-3863	-743	2186	-9740
Canal System 2	SIU	2	-1271	-14839	-11746	12169	-2538	35298	-4510	-26422	-20183	-29246	-16975	-13855	-10926	-22852
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173	27246
Coyote	Buffer	2	46486	32918	36011	59926	45220	83056	43248	21336	27575	18512	30783	33902	36832	24905
Lehi	Buffer	2	27485	13917	17010	40925	26218	64054	24246	2334	8574	-489	11781	14901	17831	5904
Los Muertos	Buffer	2	-7660	-21228	-18135	5780	-8927	28909	-10899	-32811	-26571	-35634	-23364	-20244	-17314	-29241
Crismon	Buffer	2	-15252	-28820	-25727	-1812	-16519	21317	-18491	-40403	-34164	-43227	-30956	-27836	-24907	-36833
Scottsdale	Buffer	2	-23762	-37330	-34237	-10322	-25028	12808	-27001	-48912	-42673	-51736	-39466	-36346	-33416	-45343
Riverview	Buffer	2	-55050	-68618	-65525	-41610	-56317	-18481	-58289	-80201	-73962	-83025	-70754	-67634	-64705	-76631
Canal System 2	Buffer	2	-92926	-106494	-103400	-79486	-94192	-56356	-96164	-118076	-111837	-120900	-108629	-105510	-102580	-114506

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1138 Silk 2	1139 Silk 2	1140 Silk 2	1141 Silk 2	1142 Silk 2	1143 Silk 2	1144 Silk 2	1145 Silk 2	1146 Silk 2	1147 Silk 2	1148 Silk 2	1149 Silk 2	1150 Silk 2	1151 Silk 2
Start (E. Classic)			43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388	15823	34077
Coyote	SIU	1	43293	47171	27867	51076	27320	33824	47167	46470	16876	71422	41453	51959	15394	33648
Lehi	SIU	1	40742	44621	25316	48525	24769	31273	44616	43919	14325	68871	38902	49408	12843	31097
Los Muertos	SIU	1	32203	36081	16777	39986	16230	22734	36077	35380	5786	60331	30363	40869	4303	22557
Crismon	SIU	1	31081	34959	15655	38864	15108	21612	34955	34258	4664	59209	29241	39747	3181	21435
Scottsdale	SIU	1	30141	34020	14716	37925	14169	20672	34015	33318	3725	58270	28301	38807	2242	20496
Riverview	SIU	1	25229	29107	9803	33012	9256	15760	29103	28406	-1188	53357	23389	33895	-2671	15583
Canal System 2	SIU	1	18673	22551	3247	26456	2700	9204	22547	21850	-7744	46801	16833	27339	-9227	9027
Start (E. Classic)			43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388	15823	34077
Coyote	Buffer	1	42552	46430	27126	50335	26579	33083	46426	45728	16135	70680	40712	51217	14652	32906
Lehi	Buffer	1	33051	36929	17625	40834	17078	23582	36925	36228	6634	61180	31211	41717	5152	23405
Los Muertos	Buffer	1	15478	19357	53	23262	-494	6009	19352	18655	-10938	43607	13638	24144	-12421	5833
Crismon	Buffer	1	11682	15561	-3743	19466	-4290	2213	15556	14859	-14734	39811	9842	20348	-16217	2037
Scottsdale	Buffer	1	7427	11306	-7998	15211	-8545	-2041	11301	10604	-18989	35556	5588	16093	-20472	-2218
Riverview	Buffer	1	-8217	-4338	-23642	-433	-24189	-17686	-4343	-5040	-34633	19912	-10057	449	-36116	-17862
Canal System 2	Buffer	1	-27154	-23276	-42580	-19371	-43127	-36623	-23280	-23977	-53571	974	-28994	-18488	-55054	-36800
Start (E. Classic)			43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388	15823	34077
Coyote	SIU	2	42864	46742	27438	50647	26891	33395	46738	46041	16447	70993	41024	51530	14965	33219
Lehi	SIU	2	37762	41641	22337	45546	21789	28293	41636	40939	11345	65891	35922	46428	9863	28117
Los Muertos	SIU	2	20684	24562	5258	28467	4711	11215	24558	23860	-5733	48812	18844	29349	-7216	11038
Crismon	SIU	2	18440	22318	3014	26223	2467	8971	22314	21616	-7977	46568	16600	27105	-9460	8794
Scottsdale	SIU	2	16561	20439	1135	24344	588	7092	20435	19738	-9856	44689	14721	25227	-11339	6915
Riverview	SIU	2	6736	10614	-8690	14519	-9237	-2733	10610	9912	-19681	34864	4896	15401	-21164	-2910
Canal System 2	SIU	2	-6376	-2498	-21802	1407	-22349	-15845	-2502	-3200	-32793	21752	-8216	2289	-34276	-16022
Start (E. Classic)			43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388	15823	34077
Coyote	Buffer	2	41381	45260	25956	49165	25408	31912	45255	44558	14964	69510	39541	50047	13482	31736
Lehi	Buffer	2	22380	26258	6954	30163	6407	12911	26254	25557	-4037	50508	20540	31046	-5520	12734
Los Muertos	Buffer	2	-12765	-8887	-28191	-4982	-28738	-22234	-8891	-9588	-39182	15363	-14605	-4099	-40665	-22411
Crismon	Buffer	2	-20357	-16479	-35783	-12574	-36330	-29826	-16483	-17181	-46774	7771	-22197	-11692	-48257	-30003
Scottsdale	Buffer	2	-28867	-24989	-44293	-21084	-44840	-38336	-24993	-25690	-55284	-738	-30707	-20201	-56766	-38512
Riverview	Buffer	2	-60155	-56277	-75581	-52372	-76128	-69624	-56281	-56979	-86572	-32027	-61995	-51490	-88055	-69801
Canal System 2	Buffer	2	-98031	-94152	-113456	-90247	-114003	-107500	-94157	-94854	-124447	-69902	-99871	-89365	-125930	-107676

System	Acreage Method	Acre-feet	1152 Silk 2	1153 Silk 2	1154 Silk 2	1155 Silk 2	1156 Silk 2	1157 Silk 2	1158 Silk 2	1159 Silk 2	1160 Silk 2	1161 Silk 2	1162 Silk 2	1163 Silk 2	1164 Silk 2	1165 Silk 2
Start (E. Classic)			51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423	54669	32709	57727
Coyote	SIU	1	51363	49307	53715	53463	18407	48319	18482	46893	47851	24955	65994	54240	32280	57298
Lehi	SIU	1	48812	46756	51164	50913	15856	45768	15931	44343	45300	22404	63444	51689	29729	54747
Los Muertos	SIU	1	40273	38217	42625	42373	7317	37228	7392	35803	36761	13865	54904	43150	21190	46208
Crismon	SIU	1	39151	37095	41503	41251	6195	36106	6270	34681	35639	12743	53782	42028	20068	45086
Scottsdale	SIU	1	38212	36155	40563	40312	5256	35167	5331	33742	34699	11804	52843	41088	19128	44146
Riverview	SIU	1	33299	31243	35651	35399	343	30254	418	28829	29787	6891	47930	36176	14216	39234
Canal System 2	SIU	1	26743	24687	29095	28843	-6213	23698	-6138	22273	23231	335	41374	29620	7660	32678
Start (E. Classic)			51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423	54669	32709	57727
Coyote	Buffer	1	50622	48566	52974	52722	17666	47577	17741	46152	47110	24214	65253	53499	31538	56556
Lehi	Buffer	1	41121	39065	43473	43221	8165	38077	8240	36651	37609	14713	55752	43998	22038	47056
Los Muertos	Buffer	1	23549	21492	25900	25649	-9407	20504	-9332	19079	20036	-2859	38180	26425	4465	29483
Crismon	Buffer	1	19752	17696	22104	21853	-13203	16708	-13128	15283	16240	-6655	34384	22629	669	25687
Scottsdale	Buffer	1	15498	13441	17849	17598	-17458	12453	-17383	11028	11985	-10910	30129	18374	-3586	21432
Riverview	Buffer	1	-147	-2203	2205	1954	-33102	-3191	-33027	-4616	-3659	-26554	14485	2730	-19230	5788
Canal System 2	Buffer	1	-19084	-21140	-16732	-16984	-52040	-22129	-51965	-23554	-22596	-45492	-4453	-16207	-38168	-13150
Start (E. Classic)			51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423	54669	32709	57727
Coyote	SIU	2	50934	48878	53286	53034	17978	47890	18053	46464	47422	24526	65565	53811	31851	56869
Lehi	SIU	2	45832	43776	48184	47933	12877	42788	12952	41363	42320	19424	60464	48709	26749	51767
Los Muertos	SIU	2	28754	26698	31106	30854	-4202	25709	-4127	24284	25242	2346	43385	31631	9670	34688
Crismon	SIU	2	26510	24454	28862	28610	-6446	23465	-6371	22040	22998	102	41141	29387	7426	32444
Scottsdale	SIU	2	24631	22575	26983	26731	-8325	21586	-8250	20161	21119	-1777	39262	27508	5548	30566
Riverview	SIU	2	14806	12750	17158	16906	-18150	11761	-18075	10336	11294	-11602	29437	17683	-4278	20740
Canal System 2	SIU	2	1694	-362	4046	3794	-31262	-1351	-31187	-2776	-1818	-24714	16325	4571	-17390	7628
Start (E. Classic)			51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423	54669	32709	57727
Coyote	Buffer	2	49451	47395	51803	51552	16496	46407	16571	44982	45939	23043	64083	52328	30368	55386
Lehi	Buffer	2	30450	28394	32802	32550	-2506	27405	-2431	25980	26938	4042	45081	33327	11367	36385
Los Muertos	Buffer	2	-4695	-6751	-2343	-2595	-37651	-7740	-37576	-9165	-8207	-31103	9936	-1818	-23778	1240
Crismon	Buffer	2	-12287	-14343	-9935	-10187	-45243	-15332	-45168	-16757	-15799	-38695	2344	-9410	-31371	-6353
Scottsdale	Buffer	2	-20797	-22853	-18445	-18697	-53753	-23841	-53678	-25267	-24309	-47205	-6166	-17920	-39880	-14862
Riverview	Buffer	2	-52085	-54141	-49733	-49985	-85041	-55130	-84966	-56555	-55597	-78493	-37454	-49208	-71169	-46151
Canal System 2	Buffer	2	-89960	-92017	-87609	-87860	-122916	-93005	-122841	-94430	-93473	-116368	-75329	-87084	-109044	-84026

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1166 Silk 2	1167 Silk 2	1168 Silk 2	1169 Silk 2	1170 Silk 2	1171 Silk 2	1172 Silk 2	1173 Silk 2	1174 Silk 2	1175 Silk 2	1176 Silk 2	1177 Silk 2	1178 Silk 2	1179 Silk 2
Start (E. Classic)			34924	57135	15395	23522	35303	52132	55737	66944	32744	17296	31967	21837	53892	29730
Coyote	SIU	1	34495	56706	14966	23093	34874	51703	55308	66515	32315	16867	31538	21408	53463	29301
Lehi	SIU	1	31944	54156	12415	20542	32323	49152	52757	63964	29764	14317	28988	18857	50913	26750
Los Muertos	SIU	1	23405	45616	3875	12003	23784	40613	44218	55425	21225	5777	20448	10318	42373	18211
Crismon	SIU	1	22283	44494	2753	10881	22662	39491	43096	54303	20103	4655	19326	9196	41251	17089
Scottsdale	SIU	1	21343	43555	1814	9942	21723	38551	42156	53364	19163	3716	18387	8256	40312	16150
Riverview	SIU	1	16431	38642	-3099	5029	16810	33639	37244	48451	14251	-1197	13474	3344	35399	11237
Canal System 2	SIU	1	9875	32086	-9655	-1527	10254	27083	30688	41895	7695	-7753	6918	-3212	28843	4681
Start (E. Classic)			34924	57135	15395	23522	35303	52132	55737	66944	32744	17296	31967	21837	53892	29730
Coyote	Buffer	1	33753	55965	14224	22352	34133	50961	54566	65774	31574	16126	30797	20666	52722	28560
Lehi	Buffer	1	24253	46464	4724	12851	24632	41461	45066	56273	22073	6625	21296	11166	43221	19059
Los Muertos	Buffer	1	6680	28892	-12849	-4721	7060	23888	27493	38701	4500	-10947	3724	-6407	25649	1487
Crismon	Buffer	1	2884	25096	-16645	-8517	3263	20092	23697	34904	704	-14743	-72	-10203	21853	-2309
Scottsdale	Buffer	1	-1371	20841	-20900	-12772	-991	15837	19442	30650	-3550	-18998	-4327	-14458	17598	-6564
Riverview	Buffer	1	-17015	5197	-36544	-28416	-16636	193	3798	15005	-19195	-34642	-19971	-30102	1954	-22208
Canal System 2	Buffer	1	-35953	-13741	-55482	-47354	-35573	-18744	-15140	-3932	-38132	-53580	-38909	-49040	-16984	-41146
Start (E. Classic)			34924	57135	15395	23522	35303	52132	55737	66944	32744	17296	31967	21837	53892	29730
Coyote	SIU	2	34066	56277	14537	22664	34445	51274	54879	66086	31886	16438	31109	20979	53034	28872
Lehi	SIU	2	28964	51176	9435	17562	29343	46172	49777	60984	26784	11337	26008	15877	47933	23771
Los Muertos	SIU	2	11885	34097	-7644	484	12265	29093	32698	43906	9706	-5742	8929	-1202	30854	6692
Crismon	SIU	2	9641	31853	-9888	-1760	10021	26849	30454	41662	7462	-7986	6685	-3446	28610	4448
Scottsdale	SIU	2	7763	29974	-11767	-3639	8142	24971	28576	39783	5583	-9865	4806	-5324	26731	2569
Riverview	SIU	2	-2063	20149	-21592	-13464	-1683	15145	18750	29958	-4242	-19690	-5019	-15150	16906	-7256
Canal System 2	SIU	2	-15175	7037	-34704	-26576	-14795	2033	5638	16846	-17354	-32802	-18131	-28262	3794	-20368
Start (E. Classic)			34924	57135	15395	23522	35303	52132	55737	66944	32744	17296	31967	21837	53892	29730
Coyote	Buffer	2	32583	54795	13054	21181	32962	49791	53396	64603	30403	14956	29627	19496	51552	27390
Lehi	Buffer	2	13582	35793	-5948	2180	13961	30790	34395	45602	11402	-4046	10625	495	32550	8388
Los Muertos	Buffer	2	-21563	648	-41093	-32965	-21184	-4355	-750	10457	-23743	-39191	-24520	-34650	-2595	-26757
Crismon	Buffer	2	-29156	-6944	-48685	-40557	-28776	-11948	-8343	2865	-31335	-46783	-32112	-42243	-10187	-34349
Scottsdale	Buffer	2	-37665	-15454	-57194	-49067	-37286	-20457	-16852	-5645	-39845	-55293	-40622	-50752	-18697	-42859
Riverview	Buffer	2	-68954	-46742	-88483	-80355	-68574	-51746	-48141	-36933	-71133	-86581	-71910	-82041	-49985	-74147
Canal System 2	Buffer	2	-106829	-84617	-126358	-118230	-106449	-89621	-86016	-74808	-109009	-124456	-109785	-119916	-87860	-112022

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1180 Silk 2	1181 Silk 2	1182 Silk 2	1183 Silk 2	1184 Silk 2	1185 Silk 2	1186 Silk 2	1187 Silk 2	1188 Silk 2	1189 Silk 2	1190 Silk 2	1191 Silk 2	1192 Silk 2	1193 Silk 2
Start (E. Classic)			49732	55997	18858	50186	68616	36371	26854	54400	37761	33644	59006	35497	27334	27802
Coyote	SIU	1	49303	55568	18429	49757	68187	35942	26425	53971	37332	33215	58577	35068	26905	27373
Lehi	SIU	1	46752	53017	15878	47206	65637	33391	23874	51420	34781	30664	56026	32517	24355	24822
Los Muertos	SIU	1	38212	44478	7339	38667	57097	24852	15334	42881	26242	22125	47487	23978	15815	16283
Crismon	SIU	1	37090	43356	6217	37545	55975	23730	14212	41759	25120	21003	46365	22856	14693	15161
Scottsdale	SIU	1	36151	42417	5278	36605	55036	22790	13273	40819	24180	20064	45426	21917	13754	14222
Riverview	SIU	1	31238	37504	365	31693	50123	17878	8360	35907	19268	15151	40513	17004	8841	9309
Canal System 2	SIU	1	24682	30948	-6191	25137	43567	11322	1804	29351	12712	8595	33957	10448	2285	2753
Start (E. Classic)			49732	55997	18858	50186	68616	36371	26854	54400	37761	33644	59006	35497	27334	27802
Coyote	Buffer	1	48561	54827	17688	49016	67446	35201	25683	53229	36590	32474	57836	34327	26164	26632
Lehi	Buffer	1	39060	45326	8187	39515	57945	25700	16182	43729	27090	22973	48335	24826	16663	17131
Los Muertos	Buffer	1	21488	27754	-9385	21942	40373	8127	-1390	26156	9517	5401	30763	7254	-909	-441
Crismon	Buffer	1	17692	23957	-13181	18146	36577	4331	-5186	22360	5721	1604	26967	3458	-4705	-4237
Scottsdale	Buffer	1	13437	19703	-17436	13892	32322	76	-9441	18105	1466	-2650	22712	-797	-8960	-8492
Riverview	Buffer	1	-2207	4058	-33080	-1753	16678	-15568	-25085	2461	-14178	-18295	7068	-16441	-24604	-24136
Canal System 2	Buffer	1	-21145	-14879	-52018	-20690	-2260	-34505	-44023	-16476	-33115	-37232	-11870	-35379	-43542	-43074
Start (E. Classic)			49732	55997	18858	50186	68616	36371	26854	54400	37761	33644	59006	35497	27334	27802
Coyote	SIU	2	48874	55139	18000	49328	67758	35513	25996	53542	36903	32786	58148	34639	26476	26944
Lehi	SIU	2	43772	50037	12899	44226	62657	30411	20894	48440	31801	27684	53047	29538	21375	21842
Los Muertos	SIU	2	26693	32959	-4180	27148	45578	13333	3815	31361	14722	10606	35968	12459	4296	4764
Crismon	SIU	2	24449	30715	-6424	24904	43334	11089	1571	29117	12478	8362	33724	10215	2052	2520
Scottsdale	SIU	2	22570	28836	-8303	23025	41455	9210	-308	27239	10600	6483	31845	8336	173	641
Riverview	SIU	2	12745	19011	-18128	13200	31630	-615	-10133	17413	774	-3342	22020	-1489	-9652	-9184
Canal System 2	SIU	2	-367	5899	-31240	88	18518	-13727	-23245	4301	-12338	-16454	8908	-14601	-22764	-22296
Start (E. Classic)			49732	55997	18858	50186	68616	36371	26854	54400	37761	33644	59006	35497	27334	27802
Coyote	Buffer	2	47391	53656	16518	47845	66276	34030	24513	52059	35420	31303	56666	33157	24994	25461
Lehi	Buffer	2	28389	34655	-2484	28844	47274	15029	5511	33058	16419	12302	37664	14155	5992	6460
Los Muertos	Buffer	2	-6756	-490	-37629	-6301	12129	-20116	-29634	-2087	-18726	-22843	2519	-20990	-29153	-28685
Crismon	Buffer	2	-14348	-8082	-45221	-13893	4537	-27708	-37226	-9680	-26319	-30435	-5073	-28582	-36745	-36277
Scottsdale	Buffer	2	-22857	-16592	-53731	-22403	-3973	-36218	-45735	-18189	-34828	-38945	-13583	-37092	-45255	-44787
Riverview	Buffer	2	-54146	-47880	-85019	-53691	-35261	-67506	-77024	-49478	-66117	-70233	-44871	-68380	-76543	-76075
Canal System 2	Buffer	2	-92021	-85755	-122894	-91567	-73136	-105382	-114899	-87353	-103992	-108108	-82746	-106255	-114418	-113950

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1194 Silk 2	1195 Silk 2	1196 Silk 2	1197 Silk 2	1198 Silk 2	1199 Silk 2	1200 Silk 2	1201 Silk 2	1202 Silk 2	1203 Silk 2	1204 Silk 2	1205 Silk 2	1206 Silk 2	1207 Silk 2
Start (E. Classic)			36146	55962	46056	74154	33181	29049	96147	79530	66255	44643	44133	28739	31109	45026
Coyote	SIU	1	35717	55533	45627	73725	32752	28620	95718	79101	65826	44214	43704	28310	30680	44597
Lehi	SIU	1	33166	52982	43076	71174	30201	26069	93167	76550	63276	41663	41153	25759	28129	42046
Los Muertos	SIU	1	24627	44443	34537	62635	21662	17530	84627	68010	54736	33124	32614	17220	19590	33507
Crismon	SIU	1	23505	43321	33415	61513	20540	16408	83505	66888	53614	32002	31492	16098	18468	32385
Scottsdale	SIU	1	22565	42381	32475	60573	19600	15468	82566	65949	52675	31062	30552	15158	17528	31446
Riverview	SIU	1	17653	37469	27563	55661	14688	10556	77653	61036	47762	26150	25640	10246	12616	26533
Canal System 2	SIU	1	11097	30913	21007	49105	8132	4000	71097	54480	41206	19594	19084	3690	6060	19977
Start (E. Classic)			36146	55962	46056	74154	33181	29049	96147	79530	66255	44643	44133	28739	31109	45026
Coyote	Buffer	1	34976	54791	44886	72984	32010	27878	94976	78359	65085	43472	42963	27568	29938	43856
Lehi	Buffer	1	25475	45291	35385	63483	22510	18378	85475	68859	55584	33972	33462	18068	20438	34355
Los Muertos	Buffer	1	7902	27718	17812	45910	4937	805	67903	51286	38012	16399	15889	495	2865	16783
Crismon	Buffer	1	4106	23922	14016	42114	1141	-2991	64107	47490	34216	12603	12093	-3301	-931	12987
Scottsdale	Buffer	1	-149	19667	9762	37859	-3114	-7246	59852	43235	29961	8348	7839	-7556	-5186	8732
Riverview	Buffer	1	-15793	4023	-5883	22215	-18758	-22890	44208	27591	14317	-7296	-7806	-23200	-20830	-6912
Canal System 2	Buffer	1	-34730	-14914	-24820	3278	-37695	-41827	25270	8653	-4621	-26233	-26743	-42137	-39768	-25850
Start (E. Classic)			36146	55962	46056	74154	33181	29049	96147	79530	66255	44643	44133	28739	31109	45026
Coyote	SIU	2	35288	55104	45198	73296	32323	28191	95289	78672	65397	43785	43275	27881	30251	44168
Lehi	SIU	2	30186	50002	40096	68194	27221	23089	90187	73570	60296	38683	38173	22779	25149	39066
Los Muertos	SIU	2	13108	32923	23018	51116	10142	6010	73108	56491	43217	21604	21095	5700	8070	21988
Crismon	SIU	2	10864	30679	20774	48872	7898	3766	70864	54247	40973	19360	18851	3456	5826	19744
Scottsdale	SIU	2	8985	28801	18895	46993	6020	1888	68985	52368	39094	17482	16972	1578	3948	17865
Riverview	SIU	2	-840	18975	9070	37168	-3806	-7938	59160	42543	29269	7656	7147	-8248	-5878	8040
Canal System 2	SIU	2	-13952	5863	-4042	24056	-16918	-21050	46048	29431	16157	-5456	-5965	-21360	-18990	-5072
Start (E. Classic)			36146	55962	46056	74154	33181	29049	96147	79530	66255	44643	44133	28739	31109	45026
Coyote	Buffer	2	33805	53621	43715	71813	30840	26708	93806	77189	63915	42302	41792	26398	28768	42685
Lehi	Buffer	2	14804	34620	24714	52812	11839	7707	74804	58187	44913	23301	22791	7397	9767	23684
Los Muertos	Buffer	2	-20341	-525	-10431	17667	-23306	-27438	39659	23042	9768	-11844	-12354	-27748	-25378	-11461
Crismon	Buffer	2	-27933	-8118	-18023	10075	-30899	-35031	32067	15450	2176	-19437	-19946	-35341	-32971	-19053
Scottsdale	Buffer	2	-36443	-16627	-26533	1565	-39408	-43540	23558	6941	-6334	-27946	-28456	-43850	-41480	-27563
Riverview	Buffer	2	-67731	-47916	-57821	-29723	-70697	-74829	-7731	-24348	-37622	-59235	-59744	-75139	-72769	-58851
Canal System 2	Buffer	2	-105607	-85791	-95697	-67599	-108572	-112704	-45606	-62223	-75497	-97110	-97620	-113014	-110644	-96726

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1208 Silk 2	1209 Silk 2	1210 Silk 2	1211 Silk 2	1212 Silk 2	1213 Silk 2	1214 Silk 2	1215 Silk 2	1216 Silk 2	1217 Silk 2	1218 Silk 2	1219 Silk 2	1220 Silk 2	1221 Silk 2
Start (E. Classic)			34272	62912	52545	50782	51335	35472	23409	20014	21026	16452	37458	58553	33376	26866
Coyote	SIU	1	33843	62483	52116	50353	50906	35043	22980	19585	20597	16023	37029	58124	32947	26437
Lehi	SIU	1	31292	59932	49565	47802	48355	32492	20429	17034	18046	13473	34478	55573	30396	23886
Los Muertos	SIU	1	22753	51392	41026	39263	39815	23953	11890	8495	9507	4933	25938	47034	21857	15347
Crismon	SIU	1	21631	50270	39904	38141	38693	22831	10768	7373	8385	3811	24816	45912	20735	14225
Scottsdale	SIU	1	20692	49331	38964	37201	37754	21892	9828	6433	7445	2872	23877	44972	19796	13285
Riverview	SIU	1	15779	44418	34052	32289	32841	16979	4916	1521	2533	-2041	18964	40060	14883	8373
Canal System 2	SIU	1	9223	37862	27496	25733	26285	10423	-1640	-5035	-4023	-8597	12408	33504	8327	1817
Start (E. Classic)			34272	62912	52545	50782	51335	35472	23409	20014	21026	16452	37458	58553	33376	26866
Coyote	Buffer	1	33102	61741	51375	49611	50164	34302	22238	18843	19856	15282	36287	57382	32206	25695
Lehi	Buffer	1	23601	52240	41874	40111	40664	24801	12738	9343	10355	5781	26787	47882	22705	16195
Los Muertos	Buffer	1	6029	34668	24301	22538	23091	7229	-4835	-8230	-7218	-11791	9214	30309	5133	-1378
Crismon	Buffer	1	2233	30872	20505	18742	19295	3433	-8631	-12026	-11014	-15587	5418	26513	1337	-5174
Scottsdale	Buffer	1	-2022	26617	16251	14487	15040	-822	-12886	-16281	-15268	-19842	1163	22258	-2918	-9429
Riverview	Buffer	1	-17666	10973	606	-1157	-604	-16466	-28530	-31925	-30913	-35486	-14481	6614	-18562	-25073
Canal System 2	Buffer	1	-36604	-7965	-18331	-20095	-19542	-35404	-47467	-50863	-49850	-54424	-33419	-12323	-37500	-44011
Start (E. Classic)			34272	62912	52545	50782	51335	35472	23409	20014	21026	16452	37458	58553	33376	26866
Coyote	SIU	2	33414	62054	51687	49924	50477	34614	22551	19156	20168	15594	36600	57695	32518	26008
Lehi	SIU	2	28312	56952	46585	44822	45375	29512	17449	14054	15066	10493	31498	52593	27417	20906
Los Muertos	SIU	2	11234	39873	29507	27743	28296	12434	370	-3025	-2012	-6586	14419	35514	10338	3827
Crismon	SIU	2	8990	37629	27263	25499	26052	10190	-1874	-5269	-4256	-8830	12175	33270	8094	1583
Scottsdale	SIU	2	7111	35750	25384	23621	24173	8311	-3752	-7147	-6135	-10709	10296	31392	6215	-295
Riverview	SIU	2	-2714	25925	15559	13795	14348	-1514	-13578	-16973	-15960	-20534	471	21566	-3610	-10121
Canal System 2	SIU	2	-15826	12813	2447	683	1236	-14626	-26690	-30085	-29072	-33646	-12641	8454	-16722	-23233
Start (E. Classic)			34272	62912	52545	50782	51335	35472	23409	20014	21026	16452	37458	58553	33376	26866
Coyote	Buffer	2	31931	60571	50204	48441	48994	33131	21068	17673	18685	14112	35117	56212	31036	24525
Lehi	Buffer	2	12930	41569	31203	29440	29992	14130	2067	-1328	-316	-4890	16115	37211	12034	5524
Los Muertos	Buffer	2	-22215	6424	-3942	-5705	-5153	-21015	-33078	-36473	-35461	-40035	-19030	2066	-23111	-29621
Crismon	Buffer	2	-29807	-1168	-11534	-13298	-12745	-28607	-40671	-44066	-43053	-47627	-26622	-5527	-30703	-37214
Scottsdale	Buffer	2	-38317	-9677	-20044	-21807	-21254	-37117	-49180	-52575	-51563	-56137	-35131	-14036	-39213	-45723
Riverview	Buffer	2	-69605	-40966	-51332	-53096	-52543	-68405	-80469	-83864	-82851	-87425	-66420	-45325	-70501	-77012
Canal System 2	Buffer	2	-107480	-78841	-89208	-90971	-90418	-106280	-118344	-121739	-120727	-125300	-104295	-83200	-108376	-114887

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1222 Silk 2	1223 Silk 2	1224 Silk 2	1225 Silk 2	1226 Silk 2	1227 Silk 2	1228 Silk 2	1229 Silk 2	1230 Silk 2	1231 Silk 2	1232 Silk 2	1233 Silk 2	1234 Silk 2	1235 Silk 2
Start (E. Classic)			33081	44788	39326	40945	44689	12879	87750	67387	52931	40106	71211	26754	29854	58364
Coyote	SIU	1	32652	44359	38897	40516	44260	12450	87321	66958	52502	39677	70782	26325	29425	57935
Lehi	SIU	1	30101	41809	36346	37965	41709	9899	84770	64407	49951	37126	68231	23774	26874	55384
Los Muertos	SIU	1	21562	33269	27807	29426	33170	1360	76231	55868	41412	28586	59692	15235	18335	46845
Crismon	SIU	1	20440	32147	26685	28304	32048	238	75109	54746	40290	27464	58570	14113	17213	45723
Scottsdale	SIU	1	19500	31208	25745	27364	31109	-701	74169	53806	39350	26525	57631	13173	16273	44783
Riverview	SIU	1	14588	26295	20833	22452	26196	-5614	69257	48894	34438	21612	52718	8261	11361	39871
Canal System 2	SIU	1	8032	19739	14277	15896	19640	-12170	62701	42338	27882	15056	46162	1705	4805	33315
Start (E. Classic)			33081	44788	39326	40945	44689	12879	87750	67387	52931	40106	71211	26754	29854	58364
Coyote	Buffer	1	31911	43618	38155	39774	43519	11709	86579	66216	51761	38935	70041	25583	28684	57193
Lehi	Buffer	1	22410	34117	28655	30274	34018	2208	77079	56716	42260	29434	60540	16083	19183	47693
Los Muertos	Buffer	1	4837	16545	11082	12701	16446	-15364	59506	39143	24687	11862	42968	-1490	1610	30120
Crismon	Buffer	1	1041	12749	7286	8905	12649	-19160	55710	35347	20891	8066	39171	-5286	-2186	26324
Scottsdale	Buffer	1	-3214	8494	3031	4650	8395	-23415	51455	31092	16637	3811	34917	-9541	-6441	22069
Riverview	Buffer	1	-18858	-7150	-12613	-10994	-7250	-39059	35811	15448	992	-11833	19272	-25185	-22085	6425
Canal System 2	Buffer	1	-37795	-26088	-31550	-29931	-26187	-57997	16873	-3489	-17945	-30771	335	-44122	-41022	-12513
Start (E. Classic)			33081	44788	39326	40945	44689	12879	87750	67387	52931	40106	71211	26754	29854	58364
Coyote	SIU	2	32223	43930	38468	40087	43831	12021	86892	66529	52073	39248	70353	25896	28996	57506
Lehi	SIU	2	27121	38829	33366	34985	38729	6919	81790	61427	46971	34146	65251	20794	23894	52404
Los Muertos	SIU	2	10043	21750	16287	17906	21651	-10159	64711	44348	29893	17067	48173	3715	6816	35325
Crismon	SIU	2	7799	19506	14043	15662	19407	-12403	62467	42104	27649	14823	45929	1471	4572	33081
Scottsdale	SIU	2	5920	17627	12165	13784	17528	-14282	60589	40226	25770	12944	44050	-407	2693	31203
Riverview	SIU	2	-3905	7802	2339	3958	7703	-24107	50763	30400	15945	3119	34225	-10233	-7132	21377
Canal System 2	SIU	2	-17017	-5310	-10773	-9154	-5409	-37219	37651	17288	2833	-9993	21113	-23345	-20244	8265
Start (E. Classic)			33081	44788	39326	40945	44689	12879	87750	67387	52931	40106	71211	26754	29854	58364
Coyote	Buffer	2	30740	42448	36985	38604	42348	10538	85409	65046	50590	37765	68870	24413	27513	56023
Lehi	Buffer	2	11739	23446	17984	19603	23347	-8463	66408	46045	31589	18763	49869	5412	8512	37022
Los Muertos	Buffer	2	-23406	-11699	-17161	-15542	-11798	-43608	31263	10900	-3556	-16382	14724	-29733	-26633	1877
Crismon	Buffer	2	-30998	-19291	-24754	-23135	-19390	-51200	23670	3307	-11148	-23974	7132	-37326	-34225	-5716
Scottsdale	Buffer	2	-39508	-27801	-33263	-31644	-27900	-59710	15161	-5202	-19658	-32483	-1378	-45835	-42735	-14225
Riverview	Buffer	2	-70796	-59089	-64552	-62933	-59188	-90998	-16128	-36491	-50946	-63772	-32666	-77124	-74023	-45514
Canal System 2	Buffer	2	-108672	-96964	-102427	-100808	-97063	-128873	-54003	-74366	-88822	-101647	-70541	-114999	-111899	-83389

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1236 Silk 2	1237 Silk 2	1238 Silk 2	1239 Silk 2	1240 Silk 2	1241 Silk 2	1242 Silk 2	1243 Silk 2	1244 Silk 2	1245 Silk 2	1246 Silk 2	1247 Silk 2	1248 Silk 2	1249 Silk 2
Start (E. Classic)			29629	47840	66400	48001	29514	71381	48127	45873	44638	38993	22979	33900	66767	70718
Coyote	SIU	1	29200	47411	65971	47572	29085	70952	47698	45444	44209	38564	22550	33471	66338	70289
Lehi	SIU	1	26649	44860	63420	45021	26534	68401	45147	42893	41659	36013	19999	30920	63787	67738
Los Muertos	SIU	1	18110	36321	54881	36482	17995	59862	36608	34354	33119	27473	11459	22381	55247	59198
Crismon	SIU	1	16988	35199	53759	35360	16873	58740	35486	33232	31997	26351	10337	21259	54125	58076
Scottsdale	SIU	1	16048	34260	52819	34420	15934	57800	34547	32293	31058	25412	9398	20319	53186	57137
Riverview	SIU	1	11136	29347	47907	29508	11021	52888	29634	27380	26145	20499	4485	15407	48273	52224
Canal System 2	SIU	1	4580	22791	41351	22952	4465	46332	23078	20824	19589	13943	-2071	8851	41717	45668
Start (E. Classic)			29629	47840	66400	48001	29514	71381	48127	45873	44638	38993	22979	33900	66767	70718
Coyote	Buffer	1	28459	46670	65230	46830	28344	70210	46957	44703	43468	37822	21808	32729	65596	69547
Lehi	Buffer	1	18958	37169	55729	37330	18843	60710	37456	35202	33967	28321	12307	23229	56095	60046
Los Muertos	Buffer	1	1385	19597	38156	19757	1271	43137	19884	17630	16395	10749	-5265	5656	38523	42474
Crismon	Buffer	1	-2411	15800	34360	15961	-2526	39341	16088	13833	12599	6953	-9061	1860	34727	38678
Scottsdale	Buffer	1	-6665	11546	30106	11706	-6780	35086	11833	9579	8344	2698	-13316	-2395	30472	34423
Riverview	Buffer	1	-22310	-4099	14461	-3938	-22425	19442	-3811	-6066	-7300	-12946	-28960	-18039	14828	18779
Canal System 2	Buffer	1	-41247	-23036	-4476	-22876	-41362	505	-22749	-25003	-26238	-31884	-47898	-36976	-4110	-159
Start (E. Classic)			29629	47840	66400	48001	29514	71381	48127	45873	44638	38993	22979	33900	66767	70718
Coyote	SIU	2	28771	46982	65542	47143	28656	70523	47269	45015	43780	38135	22121	33042	65909	69860
Lehi	SIU	2	23669	41880	60440	42041	23554	65421	42168	39913	38679	33033	17019	27940	60807	64758
Los Muertos	SIU	2	6591	24802	43362	24962	6476	48342	25089	22835	21600	15954	-60	10861	43728	47679
Crismon	SIU	2	4347	22558	41118	22718	4232	46098	22845	20591	19356	13710	-2304	8617	41484	45435
Scottsdale	SIU	2	2468	20679	39239	20840	2353	44220	20966	18712	17477	11831	-4183	6739	39605	43556
Riverview	SIU	2	-7357	10854	29414	11014	-7472	34394	11141	8887	7652	2006	-14008	-3087	29780	33731
Canal System 2	SIU	2	-20469	-2258	16302	-2098	-20584	21282	-1971	-4225	-5460	-11106	-27120	-16199	16668	20619
Start (E. Classic)			29629	47840	66400	48001	29514	71381	48127	45873	44638	38993	22979	33900	66767	70718
Coyote	Buffer	2	27288	45499	64059	45660	27173	69040	45787	43532	42298	36652	20638	31559	64426	68377
Lehi	Buffer	2	8287	26498	45058	26659	8172	50039	26785	24531	23296	17650	1636	12558	45424	49375
Los Muertos	Buffer	2	-26858	-8647	9913	-8486	-26973	14894	-8360	-10614	-11849	-17495	-33509	-22587	10279	14230
Crismon	Buffer	2	-34450	-16239	2321	-16079	-34565	7301	-15952	-18206	-19441	-25087	-41101	-30180	2687	6638
Scottsdale	Buffer	2	-42960	-24749	-6189	-24588	-43075	-1208	-24462	-26716	-27951	-33596	-49610	-38689	-5822	-1871
Riverview	Buffer	2	-74248	-56037	-37477	-55877	-74363	-32497	-55750	-58004	-59239	-64885	-80899	-69978	-37111	-33160
Canal System 2	Buffer	2	-112124	-93912	-75353	-93752	-112238	-70372	-93625	-95879	-97114	-102760	-118774	-107853	-74986	-71035

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1250 Silk 2	1251 Silk 2	1252 Silk 2	1253 Silk 2	1254 Silk 2	1255 Silk 2	1256 Silk 2	1257 Silk 2	1258 Silk 2	1259 Silk 2	1260 Silk 2	1261 Silk 2	1262 Silk 2	1263 Silk 2
Start (E. Classic)			30728	14000	37529	49867	10660	71010	50249	41129	16907	144442	40170	46676	50371	18146
Coyote	SIU	1	30299	13571	37100	49438	10231	70581	49820	40700	16478	144013	39741	46247	49942	17717
Lehi	SIU	1	27749	11021	34549	46887	7680	68030	47269	38149	13927	141462	37190	43696	47391	15166
Los Muertos	SIU	1	19209	2481	26010	38348	-860	59490	38730	29609	5387	132923	28651	35156	38852	6627
Crismon	SIU	1	18087	1359	24888	37226	-1982	58368	37608	28487	4265	131801	27529	34034	37730	5505
Scottsdale	SIU	1	17148	420	23948	36286	-2921	57429	36668	27548	3326	130862	26589	33095	36790	4566
Riverview	SIU	1	12235	-4493	19036	31374	-7834	52516	31756	22635	-1587	125949	21677	28182	31878	-347
Canal System 2	SIU	1	5679	-11049	12480	24818	-14390	45960	25200	16079	-8143	119393	15121	21626	25322	-6903
Start (E. Classic)			30728	14000	37529	49867	10660	71010	50249	41129	16907	144442	40170	46676	50371	18146
Coyote	Buffer	1	29558	12830	36358	48696	9489	69839	49079	39958	15736	143272	38999	45505	49200	16976
Lehi	Buffer	1	20057	3329	26858	39196	-11	60338	39578	30457	6236	133771	29499	36005	39700	7475
Los Muertos	Buffer	1	2485	-14243	9285	21623	-17584	42766	22005	12885	-11337	116199	11926	18432	22127	-10097
Crismon	Buffer	1	-1311	-18039	5489	17827	-21380	38970	18209	9089	-15133	112402	8130	14636	18331	-13893
Scottsdale	Buffer	1	-5566	-22294	1234	13572	-25635	34715	13954	4834	-19388	108148	3875	10381	14076	-18148
Riverview	Buffer	1	-21210	-37938	-14410	-2072	-41279	19071	-1690	-10810	-35032	92503	-11769	-5263	-1568	-33792
Canal System 2	Buffer	1	-40148	-56876	-33347	-21010	-60217	133	-20627	-29748	-53970	73566	-30706	-24201	-20505	-52730
Start (E. Classic)			30728	14000	37529	49867	10660	71010	50249	41129	16907	144442	40170	46676	50371	18146
Coyote	SIU	2	29870	13142	36671	49009	9802	70152	49391	40271	16049	143584	39312	45818	49513	17288
Lehi	SIU	2	24769	8041	31569	43907	4700	65050	44289	35169	10947	138482	34210	40716	44411	12186
Los Muertos	SIU	2	7690	-9038	14490	26828	-12379	47971	27211	18090	-6132	121404	17131	23637	27332	-4892
Crismon	SIU	2	5446	-11282	12246	24584	-14623	45727	24967	15846	-8376	119160	14887	21393	25088	-7136
Scottsdale	SIU	2	3567	-13161	10368	22706	-16502	43848	23088	13967	-10255	117281	13009	19514	23210	-9015
Riverview	SIU	2	-6258	-22986	542	12880	-26327	34023	13263	4142	-20080	107456	3183	9689	13384	-18840
Canal System 2	SIU	2	-19370	-36098	-12570	-232	-39439	20911	151	-8970	-33192	94344	-9929	-3423	272	-31952
Start (E. Classic)			30728	14000	37529	49867	10660	71010	50249	41129	16907	144442	40170	46676	50371	18146
Coyote	Buffer	2	28388	11660	35188	47526	8319	68669	47908	38788	14566	142101	37829	44335	48030	15805
Lehi	Buffer	2	9386	-7342	16187	28525	-10683	49667	28907	19786	-4436	123100	18828	25333	29029	-3196
Los Muertos	Buffer	2	-25759	-42487	-18958	-6620	-45828	14522	-6238	-15359	-39581	87955	-16317	-9812	-6116	-38341
Crismon	Buffer	2	-33351	-50079	-26551	-14213	-53420	6930	-13830	-22951	-47173	80363	-23910	-17404	-13709	-45933
Scottsdale	Buffer	2	-41861	-58589	-35060	-22722	-61929	-1579	-22340	-31460	-55682	71853	-32419	-25913	-22218	-54443
Riverview	Buffer	2	-73149	-89877	-66349	-54011	-93218	-32868	-53628	-62749	-86971	40565	-63708	-57202	-53507	-85731
Canal System 2	Buffer	2	-111024	-127752	-104224	-91886	-131093	-70743	-91504	-100624	-124846	2690	-101583	-95077	-91382	-123606

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1264 Silk 2	1265 Silk 2	1266 Silk 2	1267 Silk 2	1268 Silk 2	1269 Silk 2	1270 Silk 2	1271 Silk 2	1272 Silk 2	1273 Silk 2	1274 Silk 2	1275 Silk 2	1276 Silk 2	1277 Silk 2
Start (E. Classic)			29439	41741	43015	54031	67819	44209	27246	56171	40351	25761	41202	169790	16847	42312
Coyote	SIU	1	29010	41312	42586	53602	67390	43780	26817	55742	39922	25332	40773	169361	16418	41883
Lehi	SIU	1	26459	38761	40035	51051	64839	41229	24266	53191	37371	22781	38222	166810	13867	39332
Los Muertos	SIU	1	17919	30222	31496	42512	56300	32689	15727	44652	28832	14242	29683	158271	5328	30792
Crismon	SIU	1	16797	29100	30374	41390	55178	31567	14605	43530	27710	13120	28561	157149	4206	29670
Scottsdale	SIU	1	15858	28160	29434	40451	54239	30628	13666	42590	26771	12180	27621	156209	3266	28731
Riverview	SIU	1	10945	23248	24522	35538	49326	25715	8753	37678	21858	7268	22709	151297	-1646	23818
Canal System 2	SIU	1	4389	16692	17966	28982	42770	19159	2197	31122	15302	712	16153	144741	-8202	17262
Start (E. Classic)			29439	41741	43015	54031	67819	44209	27246	56171	40351	25761	41202	169790	16847	42312
Coyote	Buffer	1	28268	40571	41845	52861	66649	43038	26076	55001	39181	24591	40031	168620	15676	41141
Lehi	Buffer	1	18767	31070	32344	43360	57148	33537	16575	45500	29680	15090	30531	159119	6176	31641
Los Muertos	Buffer	1	1195	13497	14771	25788	39576	15965	-997	27927	12108	-2483	12958	141546	-11397	14068
Crismon	Buffer	1	-2601	9701	10975	21992	35780	12169	-4793	24131	8312	-6279	9162	137750	-15193	10272
Scottsdale	Buffer	1	-6856	5446	6721	17737	31525	7914	-9048	19877	4057	-10534	4907	133496	-19448	6017
Riverview	Buffer	1	-22500	-10198	-8924	2093	15881	-7730	-24692	4232	-11587	-26178	-10737	117851	-35092	-9627
Canal System 2	Buffer	1	-41438	-29135	-27861	-16845	-3057	-26668	-43630	-14705	-30525	-45115	-29674	98914	-54030	-28565
Start (E. Classic)			29439	41741	43015	54031	67819	44209	27246	56171	40351	25761	41202	169790	16847	42312
Coyote	SIU	2	28581	40883	42157	53173	66961	43351	26388	55313	39493	24903	40344	168932	15989	41454
Lehi	SIU	2	23479	35781	37055	48071	61860	38249	21287	50211	34391	19801	35242	163830	10887	36352
Los Muertos	SIU	2	6400	18703	19977	30993	44781	21170	4208	33133	17313	2723	18163	146752	-6192	19273
Crismon	SIU	2	4156	16459	17733	28749	42537	18926	1964	30889	15069	479	15919	144508	-8436	17029
Scottsdale	SIU	2	2277	14580	15854	26870	40658	17047	85	29010	13190	-1400	14041	142629	-10314	15150
Riverview	SIU	2	-7548	4755	6029	17045	30833	7222	-9740	19185	3365	-11225	4215	132804	-20140	5325
Canal System 2	SIU	2	-20660	-8357	-7083	3933	17721	-5890	-22852	6073	-9747	-24337	-8897	119692	-33252	-7787
Start (E. Classic)			29439	41741	43015	54031	67819	44209	27246	56171	40351	25761	41202	169790	16847	42312
Coyote	Buffer	2	27098	39400	40674	51690	65479	41868	24906	53830	38010	23420	38861	167449	14506	39971
Lehi	Buffer	2	8096	20399	21673	32689	46477	22866	5904	34829	19009	4419	19860	148448	-4495	20969
Los Muertos	Buffer	2	-27049	-14746	-13472	-2456	11332	-12279	-29241	-316	-16136	-30726	-15285	113303	-39640	-14176
Crismon	Buffer	2	-34641	-22338	-21064	-10048	3740	-19871	-36833	-7908	-23728	-38318	-22878	105711	-47233	-21768
Scottsdale	Buffer	2	-43150	-30848	-29574	-18558	-4770	-28380	-45343	-16418	-32238	-46828	-31387	97201	-55742	-30277
Riverview	Buffer	2	-74439	-62136	-60862	-49846	-36058	-59669	-76631	-47706	-63526	-78116	-62676	65913	-87031	-61566
Canal System 2	Buffer	2	-112314	-100012	-98738	-87721	-73933	-97544	-114506	-85582	-101401	-115992	-100551	28037	-124906	-99441

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1278 Silk 2	1279 Silk 2	1280 Silk 2	1281 Silk 2	1282 Silk 2	1283 Silk 2	1284 Silk 2	1285 Silk 2	1286 Silk 2	1287 Silk 2	1288 Silk 2	1289 Silk 2	1290 Silk 2	1291 Silk 2
Start (E. Classic)			26034	89143	20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317
Coyote	SIU	1	25605	88714	19807	48191	40528	22107	43509	34725	15675	37257	11672	38308	66908	33888
Lehi	SIU	1	23054	86163	17256	45640	37978	19556	40959	32174	13124	34706	9121	35757	64357	31337
Los Muertos	SIU	1	14514	77624	8717	37101	29438	11017	32419	23635	4585	26167	582	27217	55818	22798
Crismon	SIU	1	13392	76502	7595	35979	28316	9895	31297	22513	3463	25045	-540	26095	54696	21676
Scottsdale	SIU	1	12453	75563	6655	35039	27377	8955	30358	21574	2524	24105	-1479	25156	53756	20736
Riverview	SIU	1	7540	70650	1743	30127	22464	4043	25445	16661	-2389	19193	-6392	20243	48844	15824
Canal System 2	SIU	1	984	64094	-4813	23571	15908	-2513	18889	10105	-8945	12637	-12948	13687	42288	9268
Start (E. Classic)			26034	89143	20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317
Coyote	Buffer	1	24863	87973	19065	47449	39787	21366	42768	33984	14934	36516	10931	37566	66166	33147
Lehi	Buffer	1	15363	78472	9565	37949	30286	11865	33267	24483	5433	27015	1430	28066	56666	23646
Los Muertos	Buffer	1	-2210	60900	-8008	20376	12714	-5708	15695	6911	-12139	9442	-16142	10493	39093	6073
Crismon	Buffer	1	-6006	57103	-11804	16580	8918	-9504	11899	3114	-15935	5646	-19938	6697	35297	2277
Scottsdale	Buffer	1	-10261	52849	-16059	12325	4663	-13759	7644	-1140	-20190	1391	-24193	2442	31042	-1978
Riverview	Buffer	1	-25905	37204	-31703	-3319	-10981	-29403	-8000	-16785	-35834	-14253	-39837	-13202	15398	-17622
Canal System 2	Buffer	1	-44843	18267	-50640	-22257	-29919	-48340	-26938	-35722	-54772	-33190	-58775	-32140	-3540	-36559
Start (E. Classic)			26034	89143	20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317
Coyote	SIU	2	25176	88285	19378	47762	40099	21678	43080	34296	15246	36828	11243	37879	66479	33459
Lehi	SIU	2	20074	83183	14276	42660	34998	16576	37979	29194	10144	31726	6142	32777	61377	28357
Los Muertos	SIU	2	2995	66105	-2803	25581	17919	-502	20900	12116	-6934	14648	-10937	15698	44298	11279
Crismon	SIU	2	751	63861	-5047	23337	15675	-2746	18656	9872	-9178	12404	-13181	13454	42054	9035
Scottsdale	SIU	2	-1128	61982	-6925	21459	13796	-4625	16777	7993	-11057	10525	-15060	11575	40176	7156
Riverview	SIU	2	-10953	52157	-16751	11633	3971	-14450	6952	-1832	-20882	700	-24885	1750	30350	-2669
Canal System 2	SIU	2	-24065	39045	-29863	-1479	-9141	-27562	-6160	-14944	-33994	-12412	-37997	-11362	17238	-15781
Start (E. Classic)			26034	89143	20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317
Coyote	Buffer	2	23693	86802	17895	46279	38617	20195	41598	32813	13763	35345	9761	36396	64996	31976
Lehi	Buffer	2	4691	67801	-1106	27278	19615	1194	22596	13812	-5238	16344	-9241	17394	45995	12975
Los Muertos	Buffer	2	-30454	32656	-36251	-7867	-15530	-33951	-12549	-21333	-40383	-18801	-44386	-17751	10850	-22170
Crismon	Buffer	2	-38046	25064	-43844	-15460	-23122	-41543	-20141	-28925	-47975	-26393	-51978	-25343	3257	-29762
Scottsdale	Buffer	2	-46555	16554	-52353	-23969	-31632	-50053	-28651	-37435	-56485	-34903	-60488	-33852	-5252	-38272
Riverview	Buffer	2	-77844	-14734	-83642	-55258	-62920	-81341	-59939	-68723	-87773	-66191	-91776	-65141	-36541	-69560
Canal System 2	Buffer	2	-115719	-52609	-121517	-93133	-100795	-119217	-97814	-106598	-125648	-104067	-129651	-103016	-74416	-107436

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1292 Silk 2	1293 Silk 2	1294 Silk 2	1295 Silk 2	1296 Silk 2	1297 Silk 2	1298 Silk 2	1299 Silk 2	Total Deficits
Start (E. Classic)			28037	60874	34341	16153	66593	33963	104468	15375	
Coyote	SIU	1	27608	60445	33912	15724	66164	33534	104039	14946	0
Lehi	SIU	1	25057	57894	31361	13173	63613	30983	101488	12395	0
Los Muertos	SIU	1	16517	49355	22822	4634	55074	22444	92949	3856	1
Crismon	SIU	1	15395	48233	21700	3512	53952	21322	91827	2734	2
Scottsdale	SIU	1	14456	47294	20761	2573	53012	20382	90888	1795	3
Riverview	SIU	1	9543	42381	15848	-2340	48100	15470	85975	-3118	15
Canal System 2	SIU	1	2987	35825	9292	-8896	41544	8914	79419	-9674	30
Start (E. Classic)			28037	60874	34341	16153	66593	33963	104468	15375	
Coyote	Buffer	1	26866	59704	33171	14983	65423	32793	103298	14205	0
Lehi	Buffer	1	17366	50203	23670	5482	55922	23292	93797	4704	1
Los Muertos	Buffer	1	-207	32631	6098	-12090	38349	5719	76225	-12868	44
Crismon	Buffer	1	-4003	28835	2302	-15886	34553	1923	72429	-16665	58
Scottsdale	Buffer	1	-8258	24580	-1953	-20141	30299	-2331	68174	-20919	83
Riverview	Buffer	1	-23902	8936	-17597	-35785	14654	-17976	52530	-36564	151
Canal System 2	Buffer	1	-42840	-10002	-36535	-54723	-4283	-36913	33592	-55501	186
Start (E. Classic)			28037	60874	34341	16153	66593	33963	104468	15375	
Coyote	SIU	2	27179	60016	33483	15295	65735	33105	103610	14517	0
Lehi	SIU	2	22077	54914	28381	10194	60633	28003	98509	9415	0
Los Muertos	SIU	2	4998	37836	11303	-6885	43555	10925	81430	-7663	25
Crismon	SIU	2	2754	35592	9059	-9129	41311	8681	79186	-9907	31
Scottsdale	SIU	2	875	33713	7180	-11008	39432	6802	77307	-11786	38
Riverview	SIU	2	-8950	23888	-2645	-20833	29607	-3023	67482	-21611	84
Canal System 2	SIU	2	-22062	10776	-15757	-33945	16495	-16135	54370	-34723	141
Start (E. Classic)			28037	60874	34341	16153	66593	33963	104468	15375	
Coyote	Buffer	2	25696	58533	32000	13813	64252	31622	102128	13034	0
Lehi	Buffer	2	6694	39532	12999	-5189	45251	12621	83126	-5967	22
Los Muertos	Buffer	2	-28451	4387	-22146	-40334	10106	-22524	47981	-41112	165
Crismon	Buffer	2	-36043	-3205	-29738	-47926	2514	-30116	40389	-48704	173
Scottsdale	Buffer	2	-44552	-11715	-38248	-56436	-5996	-38626	31879	-57214	191
Riverview	Buffer	2	-75841	-43003	-69536	-87724	-37284	-69914	591	-88502	197
Canal System 2	Buffer	2	-113716	-80878	-107411	-125599	-75160	-107790	-37284	-126377	198

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1100 Plant 1	1101 Plant 1	1102 Plant 1	1103 Plant 1	1104 Plant 1	1105 Plant 1	1106 Plant 1	1107 Plant 1	1108 Plant 1	1109 Plant 1	1110 Plant 1	1111 Plant 1	1112 Plant 1
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433
Coyote	SIU	3	158002	78357	116297	155609	95417	228004	108474	74915	105088	157456	119292	119404	142146
Lehi	SIU	3	150349	70705	108645	147956	87764	220351	100822	67262	97435	149803	111640	111752	134493
Los Muertos	SIU	3	124731	45087	83027	122338	62147	194733	75204	41644	71817	124186	86022	86134	108875
Crismon	SIU	3	121365	41721	79661	118972	58781	191367	71838	38278	68451	120820	82656	82768	105509
Scottsdale	SIU	3	118547	38903	76843	116154	55962	188549	69020	35460	65633	118001	79838	79949	102691
Riverview	SIU	3	103809	24165	62105	101416	41225	173811	54282	20722	50895	103264	65100	65212	87953
Canal System 2	SIU	3	84141	4497	42437	81748	21557	154143	34614	1054	31227	83596	45432	45544	68285
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433
Coyote	Buffer	3	155778	76133	114073	153385	93193	225780	106250	72691	102863	155232	117068	117180	139922
Lehi	Buffer	3	127276	47631	85571	124883	64691	197278	77748	44188	74361	126730	88566	88678	111420
Los Muertos	Buffer	3	74558	-5086	32854	72165	11973	144560	25031	-8529	21644	74012	35849	35960	58702
Crismon	Buffer	3	63170	-16475	21465	60777	585	133172	13642	-19917	10255	62624	24460	24572	47314
Scottsdale	Buffer	3	50405	-29239	8701	48012	-12179	120408	878	-32682	-2509	49860	11696	11808	34549
Riverview	Buffer	3	3473	-76172	-38232	1080	-59112	73475	-46055	-79614	-49442	2927	-35237	-35125	-12383
Canal System 2	Buffer	3	-53340	-132984	-95044	-55733	-115925	16662	-102868	-136427	-106254	-53886	-92050	-91938	-69196
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433
Coyote	SIU	4	157573	77928	115868	155180	94988	227575	108045	74486	104659	157027	118863	118975	141717
Lehi	SIU	4	147369	67725	105665	144976	84785	217371	97842	64282	94455	146824	108660	108772	131513
Los Muertos	SIU	4	113212	33568	71508	110819	50627	183214	63685	30125	60298	112666	74503	74614	97356
Crismon	SIU	4	108724	29080	67020	106331	46139	178726	59197	25637	55810	108178	70015	70126	92868
Scottsdale	SIU	4	104967	25322	63262	102573	42382	174969	55439	21879	52052	104421	66257	66369	89110
Riverview	SIU	4	85316	5672	43612	82923	22731	155318	35789	2229	32402	84770	46607	46718	69460
Canal System 2	SIU	4	59092	-20552	17388	56699	-3493	129094	9565	-23995	6178	58546	20383	20494	43236
Start (E. Classic)			159289	79644	117584	156896	96704	229291	109761	76202	106375	158743	120579	120691	143433
Coyote	Buffer	4	154607	74963	112903	152214	92023	224609	105080	71520	101693	154062	115898	116010	138751
Lehi	Buffer	4	116605	36960	74900	114211	54020	186607	67077	33517	63690	116059	77895	78007	100748
Los Muertos	Buffer	4	46315	-33330	4610	43921	-16270	116317	-3213	-36773	-6600	45769	7605	7717	30458
Crismon	Buffer	4	31130	-48514	-10574	28737	-31455	101132	-18397	-51957	-21784	30584	-7579	-7468	15274
Scottsdale	Buffer	4	14111	-65534	-27594	11718	-48474	84113	-35417	-68976	-38803	13565	-24599	-24487	-1745
Riverview	Buffer	4	-48466	-128110	-90170	-50859	-111051	21536	-97993	-131553	-101380	-49012	-87175	-87064	-64322
Canal System 2	Buffer	4	-124216	-203861	-165921	-126609	-186801	-54214	-173744	-207303	-177131	-124762	-162926	-162814	-140072

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1113 Plant 1	1114 Plant 1	1115 Plant 1	1116 Plant 1	1117 Plant 1	1118 Plant 1	1119 Plant 1	1120 Plant 1	1121 Plant 1	1122 Plant 1	1123 Plant 1	1124 Plant 1	1125 Plant 1
Start (E. Classic)			90980	206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833
Coyote	SIU	3	89693	205514	148122	138045	161221	117151	162060	75433	81003	212064	108013	153580	110546
Lehi	SIU	3	82041	197862	140469	130393	153568	109498	154408	67780	73350	204411	100360	145927	102893
Los Muertos	SIU	3	56423	172244	114851	104775	127950	83881	128790	42162	47732	178793	74742	120309	77275
Crismon	SIU	3	53057	168878	111485	101409	124584	80515	125424	38796	44366	175427	71376	116943	73909
Scottsdale	SIU	3	50238	166060	108667	98591	121766	77696	122606	35978	41548	172609	68558	114125	71091
Riverview	SIU	3	35501	151322	93929	83853	107028	62959	107868	21240	26810	157871	53820	99387	56353
Canal System 2	SIU	3	15833	131654	74261	64185	87360	43291	88200	1572	7142	138203	34152	79719	36685
Start (E. Classic)			90980	206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833
Coyote	Buffer	3	87469	203290	145897	135821	158997	114927	159836	73208	78778	209840	105788	151355	108321
Lehi	Buffer	3	58967	174788	117395	107319	130494	86425	131334	44706	50276	181338	77286	122853	79819
Los Muertos	Buffer	3	6249	122071	64678	54602	77777	33707	78617	-8011	-2441	128620	24569	70136	27102
Crismon	Buffer	3	-5139	110682	53290	43213	66389	22319	67228	-19400	-13830	117232	13180	58748	15713
Scottsdale	Buffer	3	-17903	97918	40525	30449	53624	9555	54464	-32164	-26594	104467	416	45983	2949
Riverview	Buffer	3	-64836	50985	-6407	-16484	6692	-37378	7531	-79097	-73527	57535	-46517	-949	-43984
Canal System 2	Buffer	3	-121649	-5828	-63220	-73297	-50121	-94191	-49281	-135909	-130339	722	-103329	-57762	-100796
Start (E. Classic)			90980	206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833
Coyote	SIU	4	89264	205085	147693	137616	160792	116722	161631	75004	80574	211635	107584	153151	110117
Lehi	SIU	4	79061	194882	137489	127413	150588	106519	151428	64800	70370	201431	97380	142947	99913
Los Muertos	SIU	4	44903	160725	103332	93256	116431	72361	117271	30643	36213	167274	63223	108790	65756
Crismon	SIU	4	40415	156237	98844	88768	111943	67873	112783	26155	31725	162786	58735	104302	61268
Scottsdale	SIU	4	36658	152479	95086	85010	108185	64116	109025	22397	27967	159029	54977	100544	57510
Riverview	SIU	4	17007	132829	75436	65360	88535	44465	89375	2747	8317	139378	35327	80894	37860
Canal System 2	SIU	4	-9217	106605	49212	39136	62311	18241	63151	-23477	-17907	113154	9103	54670	11636
Start (E. Classic)			90980	206801	149409	139332	162508	118438	163347	76720	82290	213351	109300	154867	111833
Coyote	Buffer	4	86299	202120	144727	134651	157826	113757	158666	72038	77608	208669	104618	150185	107151
Lehi	Buffer	4	48296	164117	106724	96648	119823	75754	120663	34035	39605	170667	66615	112182	69148
Los Muertos	Buffer	4	-21994	93827	36434	26358	49533	5464	50373	-36255	-30685	100377	-3675	41892	-1142
Crismon	Buffer	4	-37179	78643	21250	11174	34349	-9721	35189	-51439	-45869	85192	-18859	26708	-16326
Scottsdale	Buffer	4	-54198	61623	4231	-5846	17330	-26740	18169	-68458	-62888	68173	-35878	9689	-33345
Riverview	Buffer	4	-116775	-953	-58346	-68422	-45247	-89317	-44407	-131035	-125465	5596	-98455	-52888	-95922
Canal System 2	Buffer	4	-192525	-76704	-134097	-144173	-120997	-165067	-120158	-206786	-201216	-70154	-174206	-128639	-171673

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1126 Plant 1	1127 Plant 1	1128 Plant 1	1129 Plant 1	1130 Plant 1	1131 Plant 1	1132 Plant 1	1133 Plant 1	1134 Plant 1	1135 Plant 1	1136 Plant 1	1137 Plant 1	1138 Plant 1
Start (E. Classic)			121643	197495	150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675
Coyote	SIU	3	120356	196208	149563	269569	143307	73809	93598	64852	103772	113666	122959	85131	137388
Lehi	SIU	3	112703	188555	141910	261916	135655	66156	85945	57200	96119	106014	115306	77478	129735
Los Muertos	SIU	3	87085	162937	116293	236298	110037	40539	60327	31582	70501	80396	89688	51860	104117
Crismon	SIU	3	83719	159571	112927	232932	106671	37173	56961	28216	67135	77030	86322	48494	100751
Scottsdale	SIU	3	80901	156753	110108	230114	103853	34354	54143	25398	64317	74212	83504	45676	97933
Riverview	SIU	3	66163	142015	95371	215376	89115	19617	39405	10660	49579	59474	68766	30938	83195
Canal System 2	SIU	3	46495	122347	75703	195708	69447	-51	19737	-9008	29911	39806	49098	11270	63527
Start (E. Classic)			121643	197495	150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675
Coyote	Buffer	3	118132	193984	147339	267344	141083	71585	91374	62628	101548	111442	120735	82907	135163
Lehi	Buffer	3	89630	165482	118837	238842	112581	43083	62872	34126	73046	82940	92233	54405	106661
Los Muertos	Buffer	3	36912	112764	66119	186125	59864	-9635	10154	-18591	20328	30223	39515	1687	53944
Crismon	Buffer	3	25524	101376	54731	174737	48475	-21023	-1234	-29980	8940	18834	28127	-9701	42556
Scottsdale	Buffer	3	12759	88611	41967	161972	35711	-33787	-13999	-42744	-3824	6070	15362	-22466	29791
Riverview	Buffer	3	-34173	41679	-4966	115040	-11222	-80720	-60931	-89677	-50757	-40863	-31570	-69398	-17141
Canal System 2	Buffer	3	-90986	-15134	-61779	58227	-68034	-137533	-117744	-146489	-107570	-97675	-88383	-126211	-73954
Start (E. Classic)			121643	197495	150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675
Coyote	SIU	4	119927	195779	149134	269140	142878	73380	93169	64423	103343	113237	122530	84702	136959
Lehi	SIU	4	109723	185575	138931	258936	132675	63177	82965	54220	93139	103034	112326	74498	126755
Los Muertos	SIU	4	75566	151418	104773	224779	98518	29019	48808	20063	58982	68877	78169	40341	92598
Crismon	SIU	4	71078	146930	100285	220291	94030	24531	44320	15575	54494	64389	73681	35853	88110
Scottsdale	SIU	4	67321	143172	96528	216533	90272	20774	40562	11817	50737	60631	69924	32096	84352
Riverview	SIU	4	47670	123522	76877	196883	70622	1123	20912	-7833	31086	40981	50273	12445	64702
Canal System 2	SIU	4	21446	97298	50653	170659	44398	-25101	-5312	-34057	4862	14757	24049	-13779	38478
Start (E. Classic)			121643	197495	150850	270856	144594	75096	94885	66139	105059	114953	124246	86418	138675
Coyote	Buffer	4	116961	192813	146169	266174	139913	70415	90203	61458	100377	110272	119564	81736	133993
Lehi	Buffer	4	78959	154810	108166	228171	101910	32412	52200	23455	62375	72269	81562	43734	95990
Los Muertos	Buffer	4	8669	84520	37876	157881	31620	-37878	-18090	-46835	-7915	1979	11272	-26556	25700
Crismon	Buffer	4	-6516	69336	22691	142697	16436	-53063	-33274	-62019	-23100	-13205	-3913	-41741	10516
Scottsdale	Buffer	4	-23535	52317	5672	125678	-584	-70082	-50293	-79039	-40119	-30225	-20932	-58760	-6503
Riverview	Buffer	4	-86112	-10260	-56905	63101	-63160	-132659	-112870	-141615	-102696	-92801	-83509	-121337	-69080
Canal System 2	Buffer	4	-161862	-86010	-132655	-12650	-138911	-208409	-188620	-217366	-178446	-168552	-159259	-197087	-144831

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1139 Plant 1	1140 Plant 1	1141 Plant 1	1142 Plant 1	1143 Plant 1	1144 Plant 1	1145 Plant 1	1146 Plant 1	1147 Plant 1	1148 Plant 1	1149 Plant 1	1150 Plant 1	1151 Plant 1
Start (E. Classic)			150976	89749	163361	88013	108642	150962	148751	54888	227892	132839	166160	50185	108082
Coyote	SIU	3	149689	88462	162074	86726	107355	149675	147464	53601	226605	131552	164873	48898	106795
Lehi	SIU	3	142036	80809	154422	79074	99702	142022	139811	45948	218952	123899	157221	41246	99142
Los Muertos	SIU	3	116418	55191	128804	53456	74084	116404	114193	20330	193334	98281	131603	15628	73524
Crismon	SIU	3	113052	51825	125438	50090	70718	113038	110827	16964	189968	94915	128237	12262	70158
Scottsdale	SIU	3	110234	49007	122620	47272	67900	110220	108009	14146	187150	92097	125419	9444	67340
Riverview	SIU	3	95496	34269	107882	32534	53162	95482	93271	-592	172412	77359	110681	-5294	52602
Canal System 2	SIU	3	75828	14601	88214	12866	33494	75814	73603	-20260	152744	57691	91013	-24962	32934
Start (E. Classic)			150976	89749	163361	88013	108642	150962	148751	54888	227892	132839	166160	50185	108082
Coyote	Buffer	3	147465	86238	159850	84502	105131	147451	145240	51376	224380	129328	162649	46674	104571
Lehi	Buffer	3	118963	57735	131348	56000	76628	118949	116738	22874	195878	100825	134147	18172	76069
Los Muertos	Buffer	3	66245	5018	78631	3283	23911	66231	64020	-29843	143161	48108	81430	-34545	23351
Crismon	Buffer	3	54857	-6370	67242	-8106	12523	54843	52632	-41231	131772	36720	70041	-45934	11963
Scottsdale	Buffer	3	42093	-19135	54478	-20870	-242	42079	39867	-53996	119008	23955	57277	-58698	-802
Riverview	Buffer	3	-4840	-66067	7545	-67803	-47174	-4854	-7065	-100928	72075	-22977	10344	-105631	-47734
Canal System 2	Buffer	3	-61653	-122880	-49267	-124616	-103987	-61667	-63878	-157741	15263	-79790	-46468	-162443	-104547
Start (E. Classic)			150976	89749	163361	88013	108642	150962	148751	54888	227892	132839	166160	50185	108082
Coyote	SIU	4	149260	88033	161645	86297	106926	149246	147035	53172	226176	131123	164444	48469	106366
Lehi	SIU	4	139056	77829	151442	76094	96722	139042	136831	42968	215972	120919	154241	38266	96162
Los Muertos	SIU	4	104899	43672	117285	41937	62565	104885	102674	8811	181815	86762	120084	4109	62005
Crismon	SIU	4	100411	39184	112797	37449	58077	100397	98186	4323	177327	82274	115596	-379	57517
Scottsdale	SIU	4	96654	35426	109039	33691	54319	96640	94428	565	173569	78516	111838	-4137	53760
Riverview	SIU	4	77003	15776	89389	14041	34669	76989	74778	-19085	153919	58866	92188	-23787	34109
Canal System 2	SIU	4	50779	-10448	63165	-12183	8445	50765	48554	-45309	127695	32642	65964	-50011	7885
Start (E. Classic)			150976	89749	163361	88013	108642	150962	148751	54888	227892	132839	166160	50185	108082
Coyote	Buffer	4	146294	85067	158680	83332	103960	146280	144069	50206	223210	128157	161479	45504	103400
Lehi	Buffer	4	108292	47064	120677	45329	65957	108278	106066	12203	185207	90154	123476	7501	65398
Los Muertos	Buffer	4	38002	-23226	50387	-24961	-4333	37988	35776	-58087	114917	19864	53186	-62789	-4892
Crismon	Buffer	4	22817	-38410	35203	-40145	-19517	22803	20592	-73271	99733	4680	38002	-77973	-20077
Scottsdale	Buffer	4	5798	-55429	18183	-57165	-36536	5784	3573	-90290	82714	-12339	20982	-94993	-37096
Riverview	Buffer	4	-56779	-118006	-44393	-119741	-99113	-56793	-59004	-152867	20137	-74916	-41594	-157569	-99673
Canal System 2	Buffer	4	-132529	-193756	-120144	-195492	-174863	-132543	-134754	-228618	-55614	-150666	-117345	-233320	-175423

System	Acreage Method	Acre-feet	1152 Plant 1	1153 Plant 1	1154 Plant 1	1155 Plant 1	1156 Plant 1	1157 Plant 1	1158 Plant 1	1159 Plant 1	1160 Plant 1	1161 Plant 1	1162 Plant 1	1163 Plant 1	1164 Plant 1
Start (E. Classic)			164271	157750	171730	170933	59744	154615	59982	150094	153131	80512	210678	173396	103744
Coyote	SIU	3	162984	156463	170443	169646	58457	153328	58695	148807	151844	79225	209391	172109	102457
Lehi	SIU	3	155331	148810	162791	161993	50804	145675	51042	141155	144192	71572	201738	164456	94804
Los Muertos	SIU	3	129714	123192	137173	136375	25186	120057	25424	115537	118574	45955	176120	138838	69186
Crismon	SIU	3	126348	119826	133807	133009	21820	116691	22058	112171	115208	42589	172754	135472	65820
Scottsdale	SIU	3	123529	117008	130989	130191	19002	113873	19240	109353	112389	39770	169936	132654	63002
Riverview	SIU	3	108792	102270	116251	115453	4264	99135	4502	94615	97652	25033	155198	117916	48264
Canal System 2	SIU	3	89124	82602	96583	95785	-15404	79467	-15166	74947	77984	5365	135530	98248	28596
Start (E. Classic)			164271	157750	171730	170933	59744	154615	59982	150094	153131	80512	210678	173396	103744
Coyote	Buffer	3	160760	154238	168219	167421	56233	151104	56471	146583	149620	77001	207167	169885	100232
Lehi	Buffer	3	132258	125736	139717	138919	27731	122601	27968	118081	121118	48499	178665	141382	71730
Los Muertos	Buffer	3	79540	73019	87000	86202	-24987	69884	-24749	65364	68400	-4219	125947	88665	19013
Crismon	Buffer	3	68152	61630	75611	74814	-36375	58496	-36137	53975	57012	-15607	114559	77277	7624
Scottsdale	Buffer	3	55388	48866	62847	62049	-49140	45731	-48902	41211	44248	-28371	101794	64512	-5140
Riverview	Buffer	3	8455	1933	15914	15117	-96072	-1201	-95834	-5722	-2685	-75304	54862	17580	-52073
Canal System 2	Buffer	3	-48358	-54879	-40899	-41696	-152885	-58014	-152647	-62535	-59498	-132117	-1951	-39233	-108885
Start (E. Classic)			164271	157750	171730	170933	59744	154615	59982	150094	153131	80512	210678	173396	103744
Coyote	SIU	4	162555	156034	170014	169217	58028	152899	58266	148378	151415	78796	208962	171680	102028
Lehi	SIU	4	152352	145830	159811	159013	47824	142695	48062	138175	141212	68593	198758	161476	91824
Los Muertos	SIU	4	118194	111673	125654	124856	13667	108538	13905	104018	107054	34435	164601	127319	57667
Crismon	SIU	4	113706	107185	121166	120368	9179	104050	9417	99530	102566	29947	160113	122831	53179
Scottsdale	SIU	4	109949	103427	117408	116610	5421	100292	5659	95772	98809	26190	156356	119073	49421
Riverview	SIU	4	90298	83777	97758	96960	-14229	80642	-13991	76122	79158	6539	136705	99423	29771
Canal System 2	SIU	4	64074	57553	71534	70736	-40453	54418	-40215	49898	52934	-19685	110481	73199	3547
Start (E. Classic)			164271	157750	171730	170933	59744	154615	59982	150094	153131	80512	210678	173396	103744
Coyote	Buffer	4	159590	153068	167049	166251	55062	149933	55300	145413	148450	75831	205996	168714	99062
Lehi	Buffer	4	121587	115065	129046	128248	17059	111930	17297	107410	110447	37828	167994	130711	61059
Los Muertos	Buffer	4	51297	44775	58756	57958	-53231	41640	-52993	37120	40157	-32462	97704	60421	-9231
Crismon	Buffer	4	36112	29591	43572	42774	-68415	26456	-68177	21936	24972	-47647	82519	45237	-24415
Scottsdale	Buffer	4	19093	12572	26552	25755	-85434	9437	-85196	4916	7953	-64666	65500	28218	-41434
Riverview	Buffer	4	-43484	-50005	-36024	-36822	-148011	-53140	-147773	-57660	-54624	-127243	2923	-34359	-104011
Canal System 2	Buffer	4	-119234	-125756	-111775	-112573	-223761	-128890	-223523	-133411	-130374	-202993	-72827	-110109	-179762

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1165 Plant 1	1166 Plant 1	1167 Plant 1	1168 Plant 1	1169 Plant 1	1170 Plant 1	1171 Plant 1	1172 Plant 1	1173 Plant 1	1174 Plant 1	1175 Plant 1	1176 Plant 1	1177 Plant 1
Start (E. Classic)			183094	110769	181219	48828	74606	111973	165349	176783	212329	103856	54860	101392	69260
Coyote	SIU	3	181807	109482	179932	47541	73319	110686	164062	175496	211042	102569	53573	100105	67973
Lehi	SIU	3	174154	101829	172279	39888	65667	103033	156409	167843	203390	94916	45920	92453	60321
Los Muertos	SIU	3	148537	76211	146661	14270	40049	77415	130791	142225	177772	69298	20302	66835	34703
Crismon	SIU	3	145171	72845	143295	10904	36683	74049	127425	138859	174406	65932	16936	63469	31337
Scottsdale	SIU	3	142352	70027	140477	8086	33865	71231	124607	136041	171588	63114	14118	60651	28519
Riverview	SIU	3	127615	55289	125739	-6652	19127	56493	109869	121303	156850	48376	-620	45913	13781
Canal System 2	SIU	3	107947	35621	106071	-26320	-541	36825	90201	101635	137182	28708	-20288	26245	-5887
Start (E. Classic)			183094	110769	181219	48828	74606	111973	165349	176783	212329	103856	54860	101392	69260
Coyote	Buffer	3	179583	107258	177708	45317	71095	108461	161838	173271	208818	100344	51348	97881	65749
Lehi	Buffer	3	151081	78756	149206	16815	42593	79959	133335	144769	180316	71842	22846	69379	37247
Los Muertos	Buffer	3	98363	26038	96488	-35903	-10124	27242	80618	92052	127599	19125	-29871	16662	-15470
Crismon	Buffer	3	86975	14650	85100	-47291	-21513	15853	69230	80663	116210	7736	-41259	5273	-26859
Scottsdale	Buffer	3	74211	1885	72335	-60056	-34277	3089	56465	67899	103446	-5028	-54024	-7491	-39623
Riverview	Buffer	3	27278	-45047	25403	-106988	-81210	-43844	9533	20966	56513	-51961	-100956	-54424	-86556
Canal System 2	Buffer	3	-29535	-101860	-31410	-163801	-138023	-100656	-47280	-35846	-300	-108773	-157769	-111236	-143369
Start (E. Classic)			183094	110769	181219	48828	74606	111973	165349	176783	212329	103856	54860	101392	69260
Coyote	SIU	4	181378	109053	179503	47112	72890	110257	163633	175067	210613	102140	53144	99676	67544
Lehi	SIU	4	171175	98849	169299	36908	62687	100053	153429	164863	200410	91936	42940	89473	57341
Los Muertos	SIU	4	137017	64692	135142	2751	28530	65896	119272	130706	166253	57779	8783	55316	23184
Crismon	SIU	4	132529	60204	130654	-1737	24042	61408	114784	126218	161765	53291	4295	50828	18696
Scottsdale	SIU	4	128772	56447	126896	-5494	20284	57650	111026	122460	158007	49533	537	47070	14938
Riverview	SIU	4	109121	36796	107246	-25145	634	38000	91376	102810	138357	29883	-19113	27420	-4712
Canal System 2	SIU	4	82897	10572	81022	-51369	-25590	11776	65152	76586	112133	3659	-45337	1196	-30936
Start (E. Classic)			183094	110769	181219	48828	74606	111973	165349	176783	212329	103856	54860	101392	69260
Coyote	Buffer	4	178413	106087	176537	44146	69925	107291	160667	172101	207648	99174	50178	96711	64579
Lehi	Buffer	4	140410	68085	138534	6144	31922	69288	122664	134098	169645	61171	12175	58708	26576
Los Muertos	Buffer	4	70120	-2205	68244	-64146	-38368	-1002	52374	63808	99355	-9119	-58115	-11582	-43714
Crismon	Buffer	4	54935	-17390	53060	-79331	-53552	-16186	37190	48624	84171	-24303	-73299	-26766	-58898
Scottsdale	Buffer	4	37916	-34409	36041	-96350	-70572	-33205	20171	31605	67151	-41322	-90318	-43786	-75918
Riverview	Buffer	4	-24661	-96986	-26536	-158927	-133148	-95782	-42406	-30972	4575	-103899	-152895	-106362	-138494
Canal System 2	Buffer	4	-100411	-172736	-102286	-234677	-208899	-171533	-118156	-106723	-71176	-179650	-228646	-182113	-214245

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1178 Plant 1	1179 Plant 1	1180 Plant 1	1181 Plant 1	1182 Plant 1	1183 Plant 1	1184 Plant 1	1185 Plant 1	1186 Plant 1	1187 Plant 1	1188 Plant 1	1189 Plant 1	1190 Plant 1
Start (E. Classic)			170933	94297	157736	177608	59814	159177	217633	115359	85172	172542	119768	106710	187153
Coyote	SIU	3	169646	93010	156449	176321	58527	157890	216346	114072	83885	171255	118481	105423	185866
Lehi	SIU	3	161993	85357	148796	168668	50874	150237	208694	106420	76233	163602	110828	97771	178213
Los Muertos	SIU	3	136375	59739	123178	143051	25256	124619	183076	80802	50615	137984	85210	72153	152595
Crismon	SIU	3	133009	56373	119812	139685	21890	121253	179710	77436	47249	134618	81844	68787	149229
Scottsdale	SIU	3	130191	53555	116994	136866	19072	118435	176892	74617	44431	131800	79026	65969	146411
Riverview	SIU	3	115453	38817	102256	122129	4334	103697	162154	59880	29693	117062	64288	51231	131673
Canal System 2	SIU	3	95785	19149	82588	102461	-15334	84029	142486	40212	10025	97394	44620	31563	112005
Start (E. Classic)			170933	94297	157736	177608	59814	159177	217633	115359	85172	172542	119768	106710	187153
Coyote	Buffer	3	167421	90786	154224	174097	56303	155666	214122	111848	81661	169031	116256	103199	183641
Lehi	Buffer	3	138919	62284	125722	145595	27801	127164	185620	83346	53159	140529	87754	74697	155139
Los Muertos	Buffer	3	86202	9566	73005	92877	-24917	74446	132903	30628	442	87811	35037	21980	102422
Crismon	Buffer	3	74814	-1822	61616	81489	-36305	63058	121514	19240	-10947	76423	23649	10591	91034
Scottsdale	Buffer	3	62049	-14586	48852	68725	-49070	50294	108750	6476	-23711	63659	10884	-2173	78269
Riverview	Buffer	3	15117	-61519	1919	21792	-96002	3361	61817	-40457	-70644	16726	-36048	-49106	31337
Canal System 2	Buffer	3	-41696	-118332	-54893	-35021	-152815	-53452	5004	-97270	-127456	-40087	-92861	-105918	-25476
Start (E. Classic)			170933	94297	157736	177608	59814	159177	217633	115359	85172	172542	119768	106710	187153
Coyote	SIU	4	169217	92581	156020	175892	58098	157461	215917	113643	83456	170826	118052	104994	185437
Lehi	SIU	4	159013	82377	145816	165689	47894	147257	205714	103440	73253	160622	107848	94791	175233
Los Muertos	SIU	4	124856	48220	111659	131531	13737	113100	171557	69282	39096	126465	73691	60634	141076
Crismon	SIU	4	120368	43732	107171	127043	9249	108612	167069	64794	34608	121977	69203	56146	136588
Scottsdale	SIU	4	116610	39975	103413	123286	5491	104855	163311	61037	30850	118220	65445	52388	132830
Riverview	SIU	4	96960	20324	83763	103635	-14159	85204	143661	41386	11200	98569	45795	32738	113180
Canal System 2	SIU	4	70736	-5900	57539	77411	-40383	58980	117437	15162	-15024	72345	19571	6514	86956
Start (E. Classic)			170933	94297	157736	177608	59814	159177	217633	115359	85172	172542	119768	106710	187153
Coyote	Buffer	4	166251	89615	153054	172927	55132	154495	212952	110678	80491	167860	115086	102029	182471
Lehi	Buffer	4	128248	51613	115051	134924	17129	116493	174949	72675	42488	129858	77083	64026	144468
Los Muertos	Buffer	4	57958	-18677	44761	64634	-53161	46203	104659	2385	-27802	59568	6793	-6264	74178
Crismon	Buffer	4	42774	-33862	29577	49449	-68345	31018	89475	-12800	-42986	44383	-8391	-21448	58994
Scottsdale	Buffer	4	25755	-50881	12558	32430	-85364	13999	72455	-29819	-60006	27364	-25410	-38468	41975
Riverview	Buffer	4	-36822	-113458	-50019	-30147	-147941	-48578	9879	-92396	-122582	-35213	-87987	-101044	-20602
Canal System 2	Buffer	4	-112573	-189208	-125770	-105897	-223691	-124328	-65872	-168146	-198333	-110963	-163738	-176795	-96353

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1191 Plant 1	1192 Plant 1	1193 Plant 1	1194 Plant 1	1195 Plant 1	1196 Plant 1	1197 Plant 1	1198 Plant 1	1199 Plant 1	1200 Plant 1	1201 Plant 1	1202 Plant 1	1203 Plant 1	1204 Plant 1
Start (E. Classic)			112588	86698	88181	114646	177496	146078	235197	105241	92135	304952	252247	210145	141595	139979
Coyote	SIU	3	111301	85411	86894	113359	176209	144791	233910	103954	90848	303665	250960	208858	140308	138692
Lehi	SIU	3	103649	77758	79242	105706	168557	137138	226257	96301	83196	296012	243308	201205	132656	131039
Los Muertos	SIU	3	78031	52140	53624	80088	142939	111520	200639	70683	57578	270394	217690	175587	107038	105421
Crismon	SIU	3	74665	48774	50258	76722	139573	108154	197273	67317	54212	267028	214324	172221	103672	102055
Scottsdale	SIU	3	71846	45956	47440	73904	136754	105336	194455	64499	51394	264210	211506	169403	100854	99237
Riverview	SIU	3	57109	31218	32702	59166	122017	90598	179717	49761	36656	249472	196768	154665	86116	84499
Canal System 2	SIU	3	37441	11550	13034	39498	102349	70930	160049	30093	16988	229804	177100	134997	66448	64831
Start (E. Classic)			112588	86698	88181	114646	177496	146078	235197	105241	92135	304952	252247	210145	141595	139979
Coyote	Buffer	3	109077	83187	84670	111134	173985	142567	231686	101730	88624	301441	248736	206634	138084	136467
Lehi	Buffer	3	80575	54685	56168	82632	145483	114065	203184	73228	60122	272938	220234	178132	109582	107965
Los Muertos	Buffer	3	27857	1967	3451	29915	92765	61347	150466	20510	7405	220221	167517	125414	56865	55248
Crismon	Buffer	3	16469	-9421	-7938	18526	81377	49959	139078	9122	-3984	208833	156128	114026	45476	43859
Scottsdale	Buffer	3	3705	-22186	-20702	5762	68613	37194	126313	-3642	-16748	196068	143364	101261	32712	31095
Riverview	Buffer	3	-43228	-69118	-67635	-41171	21680	-9738	79381	-50575	-63681	149136	96431	54329	-14221	-15838
Canal System 2	Buffer	3	-100041	-125931	-124448	-97983	-35133	-66551	22568	-107388	-120493	92323	39619	-2484	-71034	-72650
Start (E. Classic)			112588	86698	88181	114646	177496	146078	235197	105241	92135	304952	252247	210145	141595	139979
Coyote	SIU	4	110872	84982	86465	112930	175780	144362	233481	103525	90419	303236	250531	208429	139879	138263
Lehi	SIU	4	100669	74778	76262	102726	165577	134158	223277	93321	80216	293032	240328	198225	129676	128059
Los Muertos	SIU	4	66511	40621	42105	68569	131419	100001	189120	59164	46059	258875	206171	164068	95519	93902
Crismon	SIU	4	62023	36133	37617	64081	126931	95513	184632	54676	41571	254387	201683	159580	91031	89414
Scottsdale	SIU	4	58266	32375	33859	60323	123174	91755	180874	50919	37813	250629	197925	155822	87273	85656
Riverview	SIU	4	38615	12725	14209	40673	103523	72105	161224	31268	18163	230979	178275	136172	67623	66006
Canal System 2	SIU	4	12391	-13499	-12015	14449	77299	45881	135000	5044	-8061	204755	152051	109948	41399	39782
Start (E. Classic)			112588	86698	88181	114646	177496	146078	235197	105241	92135	304952	252247	210145	141595	139979
Coyote	Buffer	4	107907	82016	83500	109964	172815	141396	230515	100559	87454	300270	247566	205463	136914	135297
Lehi	Buffer	4	69904	44013	45497	71961	134812	103393	192512	62557	49451	262267	209563	167460	98911	97294
Los Muertos	Buffer	4	-386	-26277	-24793	1671	64522	33103	122222	-7733	-20839	191977	139273	97170	28621	27004
Crismon	Buffer	4	-15571	-41461	-39977	-13513	49337	17919	107038	-22918	-36023	176793	124089	81986	13437	11820
Scottsdale	Buffer	4	-32590	-58480	-56997	-30532	32318	900	90019	-39937	-53043	159774	107069	64967	-3583	-5199
Riverview	Buffer	4	-95167	-121057	-119573	-93109	-30259	-61677	27442	-102514	-115619	97197	44493	2390	-66159	-67776
Canal System 2	Buffer	4	-170917	-196807	-195324	-168860	-106009	-137427	-48308	-178264	-191370	21447	-31258	-73360	-141910	-143527

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1205 Plant 1	1206 Plant 1	1207 Plant 1	1208 Plant 1	1209 Plant 1	1210 Plant 1	1211 Plant 1	1212 Plant 1	1213 Plant 1	1214 Plant 1	1215 Plant 1	1216 Plant 1	1217 Plant 1
Start (E. Classic)			91152	98669	142811	108703	199539	166659	161066	162820	112509	74247	63479	66689	52183
Coyote	SIU	3	89865	97382	141524	107416	198252	165372	159779	161533	111222	72960	62192	65402	50896
Lehi	SIU	3	82212	89729	133872	99763	190599	157719	152127	153880	103569	65307	54539	57750	43243
Los Muertos	SIU	3	56594	64111	108254	74145	164981	132102	126509	128263	77951	39689	28921	32132	17625
Crismon	SIU	3	53228	60745	104888	70779	161615	128736	123143	124897	74585	36323	25555	28766	14259
Scottsdale	SIU	3	50410	57927	102070	67961	158797	125917	120325	122078	71767	33505	22737	25947	11441
Riverview	SIU	3	35672	43189	87332	53223	144059	111180	105587	107341	57029	18767	7999	11210	-3297
Canal System 2	SIU	3	16004	23521	67664	33555	124391	91512	85919	87673	37361	-901	-11669	-8458	-22965
Start (E. Classic)			91152	98669	142811	108703	199539	166659	161066	162820	112509	74247	63479	66689	52183
Coyote	Buffer	3	87641	95158	139300	105192	196028	163148	157555	159309	108997	70736	59967	63178	48672
Lehi	Buffer	3	59139	66656	110798	76689	167526	134646	129053	130807	80495	42233	31465	34676	20170
Los Muertos	Buffer	3	6421	13938	58081	23972	114808	81928	76336	78089	27778	-10484	-21252	-18042	-32548
Crismon	Buffer	3	-4967	2550	46692	12584	103420	70540	64947	66701	16390	-21872	-32641	-29430	-43936
Scottsdale	Buffer	3	-17732	-10215	33928	-181	90655	57776	52183	53937	3625	-34637	-45405	-42194	-56701
Riverview	Buffer	3	-64664	-57147	-13005	-47113	43723	10843	5250	7004	-43307	-81569	-92338	-89127	-103633
Canal System 2	Buffer	3	-121477	-113960	-69817	-103926	-13090	-45970	-51562	-49809	-100120	-138382	-149150	-145940	-160446
Start (E. Classic)			91152	98669	142811	108703	199539	166659	161066	162820	112509	74247	63479	66689	52183
Coyote	SIU	4	89436	96953	141095	106987	197823	164943	159350	161104	110793	72531	61763	64973	50467
Lehi	SIU	4	79232	86749	130892	96783	187619	154740	149147	150901	100589	62327	51559	54770	40263
Los Muertos	SIU	4	45075	52592	96735	62626	153462	120582	114990	116743	66432	28170	17402	20612	6106
Crismon	SIU	4	40587	48104	92247	58138	148974	116094	110502	112255	61944	23682	12914	16124	1618
Scottsdale	SIU	4	36830	44347	88489	54380	145217	112337	106744	108498	58186	19924	9156	12367	-2140
Riverview	SIU	4	17179	24696	68839	34730	125566	92686	87094	88847	38536	274	-10494	-7284	-21790
Canal System 2	SIU	4	-9045	-1528	42615	8506	99342	66462	60870	62623	12312	-25950	-36718	-33508	-48014
Start (E. Classic)			91152	98669	142811	108703	199539	166659	161066	162820	112509	74247	63479	66689	52183
Coyote	Buffer	4	86470	93987	138130	104021	194857	161978	156385	158139	107827	69565	58797	62008	47501
Lehi	Buffer	4	48468	55985	100127	66018	156855	123975	118382	120136	69824	31562	20794	24005	9498
Los Muertos	Buffer	4	-21822	-14305	29837	-4272	86565	53685	48092	49846	-466	-38728	-49496	-46285	-60792
Crismon	Buffer	4	-37007	-29490	14653	-19456	71380	38500	32908	34661	-15650	-53912	-64680	-61470	-75976
Scottsdale	Buffer	4	-54026	-46509	-2367	-36475	54361	21481	15888	17642	-32669	-70931	-81699	-78489	-92995
Riverview	Buffer	4	-116603	-109086	-64943	-99052	-8216	-41096	-46688	-44935	-95246	-133508	-144276	-141066	-155572
Canal System 2	Buffer	4	-192353	-184836	-140694	-174802	-83966	-116846	-122439	-120685	-170997	-209258	-220027	-216816	-231322

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1218 Plant 1	1219 Plant 1	1220 Plant 1	1221 Plant 1	1222 Plant 1	1223 Plant 1	1224 Plant 1	1225 Plant 1	1226 Plant 1	1227 Plant 1	1228 Plant 1	1229 Plant 1	1230 Plant 1
Start (E. Classic)			118806	185714	105861	85211	104924	142057	124731	129866	141742	40850	278319	213733	167883
Coyote	SIU	3	117519	184427	104574	83924	103637	140770	123444	128579	140455	39563	277032	212446	166596
Lehi	SIU	3	109866	176775	96921	76271	95985	133118	115792	120927	132803	31910	269380	204794	158944
Los Muertos	SIU	3	84248	151157	71303	50654	70367	107500	90174	95309	107185	6292	243762	179176	133326
Crismon	SIU	3	80882	147791	67937	47288	67001	104134	86808	91943	103819	2926	240396	175810	129960
Scottsdale	SIU	3	78064	144973	65119	44469	64182	101316	83990	89125	101001	108	237578	172992	127142
Riverview	SIU	3	63326	130235	50381	29732	49445	86578	69252	74387	86263	-14630	222840	158254	112404
Canal System 2	SIU	3	43658	110567	30713	10064	29777	66910	49584	54719	66595	-34298	203172	138586	92736
Start (E. Classic)			118806	185714	105861	85211	104924	142057	124731	129866	141742	40850	278319	213733	167883
Coyote	Buffer	3	115295	182203	102350	81700	101413	138546	121220	126355	138231	37338	274808	210222	164372
Lehi	Buffer	3	86793	153701	73848	53198	72911	110044	92718	97853	109729	8836	246306	181720	135870
Los Muertos	Buffer	3	34075	100984	21130	480	20193	57327	40001	45136	57012	-43881	193589	129003	83153
Crismon	Buffer	3	22687	89595	9742	-10908	8805	45938	28612	33747	45623	-55269	182200	117614	71764
Scottsdale	Buffer	3	9922	76831	-3023	-23672	-3959	33174	15848	20983	32859	-68034	169436	104850	59000
Riverview	Buffer	3	-37010	29898	-49955	-70605	-50892	-13759	-31085	-25950	-14074	-114966	122503	57917	12067
Canal System 2	Buffer	3	-93823	-26914	-106768	-127418	-107705	-70572	-87897	-82762	-70887	-171779	65691	1104	-44746
Start (E. Classic)			118806	185714	105861	85211	104924	142057	124731	129866	141742	40850	278319	213733	167883
Coyote	SIU	4	117090	183998	104145	83495	103208	140341	123015	128150	140026	39134	276603	212017	166167
Lehi	SIU	4	106886	173795	93941	73292	93005	130138	112812	117947	129823	28930	266400	201814	155964
Los Muertos	SIU	4	72729	139638	59784	39134	58847	95981	78655	83790	95666	-5227	232243	167657	121807
Crismon	SIU	4	68241	135150	55296	34646	54359	91493	74167	79302	91178	-9715	227755	163169	117319
Scottsdale	SIU	4	64484	131392	51539	30889	50602	87735	70409	75544	87420	-13473	223997	159411	113561
Riverview	SIU	4	44833	111742	31888	11238	30951	68085	50759	55894	67770	-33123	204347	139761	93911
Canal System 2	SIU	4	18609	85518	5664	-14986	4727	41861	24535	29670	41546	-59347	178123	113537	67687
Start (E. Classic)			118806	185714	105861	85211	104924	142057	124731	129866	141742	40850	278319	213733	167883
Coyote	Buffer	4	114124	181033	101179	80530	100243	137376	120050	125185	137061	36168	273638	209052	163202
Lehi	Buffer	4	76122	143030	63177	42527	62240	99373	82047	87182	99058	-1835	235635	171049	125199
Los Muertos	Buffer	4	5832	72740	-7113	-27763	-8050	29083	11757	16892	28768	-72125	165345	100759	54909
Crismon	Buffer	4	-9353	57556	-22298	-42948	-23235	13899	-3427	1708	13584	-87309	150161	85575	39725
Scottsdale	Buffer	4	-26372	40536	-39317	-59967	-40254	-3121	-20447	-15312	-3436	-104328	133141	68555	22705
Riverview	Buffer	4	-88949	-22040	-101894	-122544	-102831	-65697	-83023	-77888	-66012	-166905	70565	5979	-39871
Canal System 2	Buffer	4	-164699	-97791	-177644	-198294	-178581	-141448	-158774	-153639	-141763	-242656	-5186	-69772	-115622

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1231 Plant 1	1232 Plant 1	1233 Plant 1	1234 Plant 1	1235 Plant 1	1236 Plant 1	1237 Plant 1	1238 Plant 1	1239 Plant 1	1240 Plant 1	1241 Plant 1	1242 Plant 1	1243 Plant 1	1244 Plant 1
Start (E. Classic)			127204	225863	84856	94689	185115	93976	151737	210604	152246	93611	226402	152647	145498	141582
Coyote	SIU	3	125917	224576	83569	93402	183828	92689	150450	209317	150959	92324	225115	151360	144211	140295
Lehi	SIU	3	118265	216923	75917	85749	176175	85036	142797	201664	143306	84672	217462	143708	136558	132642
Los Muertos	SIU	3	92647	191306	50299	60131	150557	59418	117179	176046	117688	59054	191844	118090	110940	107024
Crismon	SIU	3	89281	187940	46933	56765	147191	56052	113813	172680	114322	55688	188478	114724	107574	103658
Scottsdale	SIU	3	86463	185121	44115	53947	144373	53234	110995	169862	111504	52869	185660	111906	104756	100840
Riverview	SIU	3	71725	170384	29377	39209	129635	38496	96257	155124	96766	38132	170922	97168	90018	86102
Canal System 2	SIU	3	52057	150716	9709	19541	109967	18828	76589	135456	77098	18464	151254	77500	70350	66434
Start (E. Classic)			127204	225863	84856	94689	185115	93976	151737	210604	152246	93611	226402	152647	145498	141582
Coyote	Buffer	3	123693	222352	81345	91178	181603	90464	148225	207092	148735	90100	222890	149136	141987	138070
Lehi	Buffer	3	95191	193850	52843	62676	153101	61962	119723	178590	120233	61598	194388	120634	113484	109568
Los Muertos	Buffer	3	42474	141132	126	9958	100384	9245	67006	125873	67515	8880	141671	67917	60767	56851
Crismon	Buffer	3	31085	129744	-11263	-1430	88995	-2143	55617	114485	56127	-2508	130282	56528	49379	45463
Scottsdale	Buffer	3	18321	116980	-24027	-14194	76231	-14908	42853	101720	43362	-15272	117518	43764	36614	32698
Riverview	Buffer	3	-28612	70047	-70960	-61127	29298	-61840	-4080	54788	-3570	-62205	70585	-3169	-10318	-14234
Canal System 2	Buffer	3	-85424	13234	-127773	-117940	-27514	-118653	-60892	-2025	-60383	-119018	13773	-59981	-67131	-71047
Start (E. Classic)			127204	225863	84856	94689	185115	93976	151737	210604	152246	93611	226402	152647	145498	141582
Coyote	SIU	4	125488	224147	83140	92973	183399	92260	150021	208888	150530	91895	224686	150931	143782	139866
Lehi	SIU	4	115285	213944	72937	82769	173195	82056	139817	198684	140326	81692	214482	140728	133578	129662
Los Muertos	SIU	4	81128	179786	38780	48612	139038	47899	105660	164527	106169	47534	180325	106571	99421	95505
Crismon	SIU	4	76640	175298	34292	44124	134550	43411	101172	160039	101681	43046	175837	102083	94933	91017
Scottsdale	SIU	4	72882	171541	30534	40367	130792	39653	97414	156281	97923	39289	172079	98325	91175	87259
Riverview	SIU	4	53232	151890	10884	20716	111142	20003	77764	136631	78273	19638	152429	78675	71525	67609
Canal System 2	SIU	4	27008	125666	-15340	-5508	84918	-6221	51540	110407	52049	-6586	126205	52451	45301	41385
Start (E. Classic)			127204	225863	84856	94689	185115	93976	151737	210604	152246	93611	226402	152647	145498	141582
Coyote	Buffer	4	122523	221182	80175	90007	180433	89294	147055	205922	147564	88930	221720	147966	140816	136900
Lehi	Buffer	4	84520	183179	42172	52005	142430	51291	109052	167919	109561	50927	183717	109963	102813	98897
Los Muertos	Buffer	4	14230	112889	-28118	-18285	72140	-18999	38762	97629	39271	-19363	113427	39673	32523	28607
Crismon	Buffer	4	-954	97704	-43302	-33470	56956	-34183	23578	82445	24087	-34548	98243	24489	17339	13423
Scottsdale	Buffer	4	-17974	80685	-60322	-50489	39937	-51202	6559	65426	7068	-51567	81224	7469	320	-3596
Riverview	Buffer	4	-80550	18108	-122898	-113066	-22640	-113779	-56018	2849	-55509	-114144	18647	-55107	-62257	-66173
Canal System 2	Buffer	4	-156301	-57642	-198649	-188816	-98391	-189530	-131769	-72902	-131259	-189894	-57104	-130858	-138007	-141924

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1245 Plant 1	1246 Plant 1	1247 Plant 1	1248 Plant 1	1249 Plant 1	1250 Plant 1	1251 Plant 1	1252 Plant 1	1253 Plant 1	1254 Plant 1	1255 Plant 1	1256 Plant 1	1257 Plant 1
Start (E. Classic)			123674	72882	107522	211766	224298	97463	44406	119032	158164	33810	225224	159377	130449
Coyote	SIU	3	122387	71595	106235	210479	223011	96176	43119	117745	156877	32523	223937	158090	129162
Lehi	SIU	3	114735	63942	98582	202827	215358	88523	35466	110092	149225	24870	216284	150437	121509
Los Muertos	SIU	3	89117	38324	72964	177209	189740	62905	9848	84474	123607	-748	190666	124819	95891
Crismon	SIU	3	85751	34958	69598	173843	186374	59539	6482	81108	120241	-4114	187300	121453	92525
Scottsdale	SIU	3	82932	32140	66780	171024	183556	56721	3664	78290	117423	-6932	184482	118635	89707
Riverview	SIU	3	68195	17402	52042	156287	168818	41983	-11074	63552	102685	-21670	169744	103897	74969
Canal System 2	SIU	3	48527	-2266	32374	136619	149150	22315	-30742	43884	83017	-41338	150076	84229	55301
Start (E. Classic)			123674	72882	107522	211766	224298	97463	44406	119032	158164	33810	225224	159377	130449
Coyote	Buffer	3	120163	69371	104010	208255	220786	93951	40894	115520	154653	30298	221713	155865	126938
Lehi	Buffer	3	91661	40869	75508	179753	192284	65449	12392	87018	126151	1796	193211	127363	98436
Los Muertos	Buffer	3	38943	-11849	22791	127035	139567	12732	-40325	34301	73434	-50921	140493	74646	45718
Crismon	Buffer	3	27555	-23237	11402	115647	128179	1343	-51713	22913	62045	-62309	129105	63257	34330
Scottsdale	Buffer	3	14791	-36002	-1362	102883	115414	-11421	-64478	10148	49281	-75074	116340	50493	21566
Riverview	Buffer	3	-32142	-82934	-48295	55950	68482	-58354	-111410	-36784	2348	-122006	69408	3560	-25367
Canal System 2	Buffer	3	-88955	-139747	-105107	-863	11669	-115166	-168223	-93597	-54464	-178819	12595	-53252	-82180
Start (E. Classic)			123674	72882	107522	211766	224298	97463	44406	119032	158164	33810	225224	159377	130449
Coyote	SIU	4	121958	71166	105806	210050	222582	95747	42690	117316	156448	32094	223508	157661	128733
Lehi	SIU	4	111755	60962	95602	199847	212378	85543	32486	107112	146245	21890	213304	147457	118529
Los Muertos	SIU	4	77597	26805	61445	165689	178221	51386	-1671	72955	112088	-12267	179147	113300	84372
Crismon	SIU	4	73109	22317	56957	161201	173733	46898	-6159	68467	107600	-16755	174659	108812	79884
Scottsdale	SIU	4	69352	18559	53199	157444	169975	43140	-9917	64709	103842	-20513	170901	105054	76127
Riverview	SIU	4	49701	-1091	33549	137793	150325	23490	-29567	45059	84192	-40163	151251	85404	56476
Canal System 2	SIU	4	23477	-27315	7325	111569	124101	-2734	-55791	18835	57968	-66387	125027	59180	30252
Start (E. Classic)			123674	72882	107522	211766	224298	97463	44406	119032	158164	33810	225224	159377	130449
Coyote	Buffer	4	118993	68200	102840	207085	219616	92781	39724	114350	153483	29128	220542	154695	125767
Lehi	Buffer	4	80990	30197	64837	169082	181613	54778	1721	76347	115480	-8875	182539	116692	87765
Los Muertos	Buffer	4	10700	-40093	-5453	98792	111323	-15512	-68569	6057	45190	-79165	112249	46402	17475
Crismon	Buffer	4	-4485	-55277	-20637	83607	96139	-30696	-83753	-9127	30006	-94349	97065	31218	2290
Scottsdale	Buffer	4	-21504	-72296	-37656	66588	79120	-47715	-100772	-26146	12986	-111368	80046	14199	-14729
Riverview	Buffer	4	-84081	-134873	-100233	4011	16543	-110292	-163349	-88723	-49590	-173945	17469	-48378	-77306
Canal System 2	Buffer	4	-159831	-210623	-175984	-71739	-59208	-186043	-239100	-164474	-125341	-249696	-58281	-124129	-153056

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1258 Plant 1	1259 Plant 1	1260 Plant 1	1261 Plant 1	1262 Plant 1	1263 Plant 1	1264 Plant 1	1265 Plant 1	1266 Plant 1	1267 Plant 1	1268 Plant 1	1269 Plant 1	1270 Plant 1
Start (E. Classic)			53623	458133	127408	148043	159763	57555	93371	132392	136433	171373	215105	140218	86418
Coyote	SIU	3	52336	456846	126121	146756	158476	56268	92084	131105	135146	170086	213818	138931	85131
Lehi	SIU	3	44684	449193	118468	139103	150824	48615	84432	123452	127493	162433	206166	131278	77479
Los Muertos	SIU	3	19066	423575	92851	113485	125206	22997	58814	97834	101875	136815	180548	105660	51861
Crismon	SIU	3	15700	420209	89485	110119	121840	19631	55448	94468	98509	133449	177182	102294	48495
Scottsdale	SIU	3	12882	417391	86666	107301	119021	16813	52629	91650	95691	130631	174364	99476	45677
Riverview	SIU	3	-1856	402653	71929	92563	104284	2075	37892	76912	80953	115893	159626	84738	30939
Canal System 2	SIU	3	-21524	382985	52261	72895	84616	-17593	18224	57244	61285	96225	139958	65070	11271
Start (E. Classic)			53623	458133	127408	148043	159763	57555	93371	132392	136433	171373	215105	140218	86418
Coyote	Buffer	3	50112	454621	123897	144532	156252	54044	89860	128880	132921	167862	211594	136707	82907
Lehi	Buffer	3	21610	426119	95395	116030	127750	25542	61358	100378	104419	139360	183092	108205	54405
Los Muertos	Buffer	3	-31107	373402	42677	63312	75032	-27176	8640	47661	51702	86642	130375	55487	1688
Crismon	Buffer	3	-42496	362014	31289	51924	63644	-38564	-2748	36272	40314	75254	118986	44099	-9701
Scottsdale	Buffer	3	-55260	349249	18525	39160	50880	-51328	-15512	23508	27549	62490	106222	31334	-22465
Riverview	Buffer	3	-102193	302317	-28408	-7773	3947	-98261	-62445	-23425	-19383	15557	59289	-15598	-69398
Canal System 2	Buffer	3	-159005	245504	-85221	-64586	-52866	-155074	-119258	-80237	-76196	-41256	2477	-72411	-126210
Start (E. Classic)			53623	458133	127408	148043	159763	57555	93371	132392	136433	171373	215105	140218	86418
Coyote	SIU	4	51907	456417	125692	146327	158047	55839	91655	130676	134717	169657	213389	138502	84702
Lehi	SIU	4	41704	446213	115489	136123	147844	45635	81452	120472	124513	159453	203186	128298	74499
Los Muertos	SIU	4	7547	412056	81331	101966	113686	11478	47294	86315	90356	125296	169029	94141	40342
Crismon	SIU	4	3059	407568	76843	97478	109198	6990	42806	81827	85868	120808	164541	89653	35854
Scottsdale	SIU	4	-699	403810	73086	93721	105441	3233	39049	78069	82110	117051	160783	85896	32096
Riverview	SIU	4	-20349	384160	53435	74070	85790	-16418	19398	58419	62460	97400	141133	66245	12446
Canal System 2	SIU	4	-46573	357936	27211	47846	59566	-42642	-6826	32195	36236	71176	114909	40021	-13778
Start (E. Classic)			53623	458133	127408	148043	159763	57555	93371	132392	136433	171373	215105	140218	86418
Coyote	Buffer	4	48942	453451	122727	143361	155082	52873	88690	127710	131751	166691	210424	135536	81737
Lehi	Buffer	4	10939	415448	84724	105359	117079	14871	50687	89707	93748	128689	172421	97534	43734
Los Muertos	Buffer	4	-59351	345158	14434	35069	46789	-55419	-19603	19417	23458	58399	102131	27244	-26556
Crismon	Buffer	4	-74535	329974	-751	19884	31604	-70604	-34788	4233	8274	43214	86947	12059	-41740
Scottsdale	Buffer	4	-91555	312955	-17770	2865	14585	-87623	-51807	-12786	-8745	26195	69927	-4960	-58760
Riverview	Buffer	4	-154131	250378	-80347	-59712	-47992	-150200	-114384	-75363	-71322	-36382	7351	-67537	-121336
Canal System 2	Buffer	4	-229882	174627	-156097	-135462	-123742	-225950	-190134	-151114	-147073	-112132	-68400	-143287	-197087

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1271 Plant 1	1272 Plant 1	1273 Plant 1	1274 Plant 1	1275 Plant 1	1276 Plant 1	1277 Plant 1	1278 Plant 1	1279 Plant 1	1280 Plant 1	1281 Plant 1	1282 Plant 1	1283 Plant 1
Start (E. Classic)			178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209	129906	71478
Coyote	SIU	3	176873	126697	80420	129394	537243	52147	132915	81285	281452	62896	152922	128619	70191
Lehi	SIU	3	169220	119044	72767	121742	529590	44494	125262	73632	273799	55243	145270	120967	62539
Los Muertos	SIU	3	143602	93426	47149	96124	503972	18876	99644	48014	248181	29625	119652	95349	36921
Crismon	SIU	3	140236	90060	43783	92758	500606	15510	96278	44648	244815	26259	116286	91983	33555
Scottsdale	SIU	3	137418	87242	40965	89940	497788	12692	93460	41830	241997	23441	113467	89165	30736
Riverview	SIU	3	122680	72504	26227	75202	483050	-2046	78722	27092	227259	8703	98730	74427	15999
Canal System 2	SIU	3	103012	52836	6559	55534	463382	-21714	59054	7424	207591	-10965	79062	54759	-3669
Start (E. Classic)			178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209	129906	71478
Coyote	Buffer	3	174649	124472	78196	127170	535018	49922	130690	79061	279228	60672	150698	126395	67967
Lehi	Buffer	3	146147	95970	49694	98668	506516	21420	102188	50559	250726	32170	122196	97893	39465
Los Muertos	Buffer	3	93429	43253	-3024	45951	453799	-31297	49471	-2159	198008	-20548	69478	45176	-13253
Crismon	Buffer	3	82041	31865	-14412	34562	442411	-42686	38083	-13547	186620	-31936	58090	33787	-24641
Scottsdale	Buffer	3	69276	19100	-27176	21798	429646	-55450	25318	-26311	173855	-44701	45326	21023	-37405
Riverview	Buffer	3	22344	-27832	-74109	-25135	382714	-102383	-21614	-73244	126923	-91633	-1607	-25910	-84338
Canal System 2	Buffer	3	-34469	-84645	-130922	-81948	325901	-159195	-78427	-130057	70110	-148446	-58420	-82722	-141151
Start (E. Classic)			178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209	129906	71478
Coyote	SIU	4	176444	126268	79991	128965	536814	51718	132486	80856	281023	62467	152493	128190	69762
Lehi	SIU	4	166240	116064	69787	118762	526610	41514	122282	70652	270819	52263	142290	117987	59559
Los Muertos	SIU	4	132083	81907	35630	84605	492453	7357	88125	36495	236662	18106	108132	83830	25401
Crismon	SIU	4	127595	77419	31142	80117	487965	2869	83637	32007	232174	13618	103644	79342	20913
Scottsdale	SIU	4	123838	73661	27385	76359	484207	-889	79879	28250	228416	9861	99887	75584	17156
Riverview	SIU	4	104187	54011	7734	56709	464557	-20539	60229	8599	208766	-9790	80236	55934	-2495
Canal System 2	SIU	4	77963	27787	-18490	30485	438333	-46763	34005	-17625	182542	-36014	54012	29710	-28719
Start (E. Classic)			178160	127984	81707	130681	538530	53434	134202	82572	282739	64183	154209	129906	71478
Coyote	Buffer	4	173478	123302	77025	126000	533848	48752	129520	77890	278057	59501	149528	125225	66797
Lehi	Buffer	4	135476	85299	39023	87997	495845	10749	91517	39888	240054	21499	111525	87222	28794
Los Muertos	Buffer	4	65186	15009	-31267	17707	425555	-59541	21227	-30402	169764	-48791	41235	16932	-41496
Crismon	Buffer	4	50001	-175	-46452	2523	410371	-74725	6043	-45587	154580	-63976	26050	1748	-56681
Scottsdale	Buffer	4	32982	-17194	-63471	-14497	393352	-91744	-10976	-62606	137561	-80995	9031	-15272	-73700
Riverview	Buffer	4	-29595	-79771	-126048	-77073	330775	-154321	-73553	-125183	74984	-143572	-53546	-77848	-136277
Canal System 2	Buffer	4	-105345	-155522	-201798	-152824	255024	-230072	-149304	-200933	-766	-219322	-129296	-153599	-212027

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1284 Plant 1	1285 Plant 1	1286 Plant 1	1287 Plant 1	1288 Plant 1	1289 Plant 1	1290 Plant 1	1291 Plant 1	1292 Plant 1	1293 Plant 1	1294 Plant 1	1295 Plant 1	1296 Plant 1
Start (E. Classic)			139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234	211216
Coyote	SIU	3	138074	110213	49791	118243	37095	121575	212287	107557	87638	191790	107635	49947	209929
Lehi	SIU	3	130422	102560	42139	110590	29443	113923	204635	99905	79985	184138	99982	42294	202276
Los Muertos	SIU	3	104804	76942	16521	84972	3825	88305	179017	74287	54367	158520	74364	16677	176658
Crismon	SIU	3	101438	73576	13155	81606	459	84939	175651	70921	51001	155154	70998	13311	173292
Scottsdale	SIU	3	98620	70758	10337	78788	-2359	82121	172833	68103	48183	152336	68180	10492	170474
Riverview	SIU	3	83882	56020	-4401	64050	-17097	67383	158095	53365	33445	137598	53442	-4245	155736
Canal System 2	SIU	3	64214	36352	-24069	44382	-36765	47715	138427	33697	13777	117930	33774	-23913	136068
Start (E. Classic)			139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234	211216
Coyote	Buffer	3	135850	107988	47567	116019	34871	119351	210063	105333	85414	189566	105410	47723	207705
Lehi	Buffer	3	107348	79486	19065	87517	6369	90849	181561	76831	56911	161064	76908	19221	179203
Los Muertos	Buffer	3	54631	26769	-33652	34799	-46348	38132	128844	24114	4194	108347	24191	-33497	126485
Crismon	Buffer	3	43242	15381	-45041	23411	-57737	26743	117455	12725	-7194	96958	12802	-44885	115097
Scottsdale	Buffer	3	30478	2616	-57805	10646	-70501	13979	104691	-39	-19959	84194	38	-57649	102332
Riverview	Buffer	3	-16455	-44316	-104738	-36286	-117434	-32954	57758	-46972	-66891	37261	-46895	-104582	55400
Canal System 2	Buffer	3	-73267	-101129	-161550	-93099	-174247	-89766	946	-103784	-123704	-19552	-103707	-161395	-1413
Start (E. Classic)			139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234	211216
Coyote	SIU	4	137645	109784	49362	117814	36666	121146	211858	107128	87209	191361	107206	49518	209500
Lehi	SIU	4	127442	99580	39159	107610	26463	110943	201655	96925	77005	181158	97002	39315	199296
Los Muertos	SIU	4	93285	65423	5002	73453	-7694	76786	167498	62768	42848	147001	62845	5157	165139
Crismon	SIU	4	88797	60935	514	68965	-12182	72298	163010	58280	38360	142513	58357	669	160651
Scottsdale	SIU	4	85039	57177	-3244	65208	-15940	68540	159252	54522	34602	138755	54599	-3088	156893
Riverview	SIU	4	65389	37527	-22894	45557	-35590	48890	139602	34872	14952	119105	34949	-22739	137243
Canal System 2	SIU	4	39165	11303	-49118	19333	-61814	22666	113378	8648	-11272	92881	8725	-48963	111019
Start (E. Classic)			139361	111500	51078	119530	38382	122862	213574	108844	88925	193077	108922	51234	211216
Coyote	Buffer	4	134680	106818	46397	114848	33701	118181	208893	104163	84243	188396	104240	46553	206534
Lehi	Buffer	4	96677	68815	8394	76846	-4302	80178	170890	66160	46240	150393	66237	8550	168531
Los Muertos	Buffer	4	26387	-1475	-61896	6556	-74592	9888	100600	-4130	-24050	80103	-4053	-61740	98241
Crismon	Buffer	4	11203	-16659	-77080	-8629	-89776	-5296	85416	-19314	-39234	64919	-19237	-76925	83057
Scottsdale	Buffer	4	-5817	-33678	-94100	-25648	-106796	-22316	68396	-36334	-56253	47899	-36256	-93944	66038
Riverview	Buffer	4	-68393	-96255	-156676	-88225	-169372	-84892	5820	-98910	-118830	-14677	-98833	-156521	3461
Canal System 2	Buffer	4	-144144	-172006	-232427	-163975	-245123	-160643	-69931	-174661	-194580	-90428	-174584	-232271	-72289

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1297 Plant 1	1298 Plant 1	1299 Plant 1	Total Deficits	1100 Silk 1	1101 Silk 1	1102 Silk 1	1103 Silk 1	1104 Silk 1	1105 Silk 1	1106 Silk 1	1107 Silk 1	1108 Silk 1
Start (E. Classic)			107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328	106551
Coyote	SIU	3	106435	330059	47479	0	158267	78490	116493	155869	95578	228385	108657	75041	105264
Lehi	SIU	3	98782	322407	39826	0	150614	70837	108840	148217	87925	220732	101004	67389	97612
Los Muertos	SIU	3	73164	296789	14209	1	124996	45219	83222	122599	62307	195114	75386	41771	71994
Crismon	SIU	3	69798	293423	10843	1	121630	41853	79856	119233	58941	191748	72020	38405	68628
Scottsdale	SIU	3	66980	290605	8024	2	118812	39035	77038	116415	56123	188930	69202	35587	65809
Riverview	SIU	3	52242	275867	-6713	14	104074	24297	62300	101677	41385	174192	54464	20849	51072
Canal System 2	SIU	3	32574	256199	-26381	28	84406	4629	42632	82009	21717	154524	34796	1181	31404
Start (E. Classic)			107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328	106551
Coyote	Buffer	3	104211	327835	45255	0	156042	76266	114269	153645	93354	226161	106432	72817	103040
Lehi	Buffer	3	75708	299333	16753	0	127540	47763	85766	125143	64851	197659	77930	44315	74538
Los Muertos	Buffer	3	22991	246616	-35965	35	74823	-4954	33049	72426	12134	144941	25213	-8402	21820
Crismon	Buffer	3	11603	235227	-47353	54	63434	-16342	21661	61037	746	133553	13825	-19791	10432
Scottsdale	Buffer	3	-1162	222463	-60117	72	50670	-29107	8896	48273	-12019	120788	1060	-32555	-2332
Riverview	Buffer	3	-48094	175530	-107050	136	3737	-76039	-38036	1340	-58951	73856	-45872	-79488	-49265
Canal System 2	Buffer	3	-104907	118717	-163863	180	-53075	-132852	-94849	-55472	-115764	17043	-102685	-136301	-106078
Start (E. Classic)			107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328	106551
Coyote	SIU	4	106006	329630	47050	0	157838	78061	116064	155440	95149	227956	108228	74612	104835
Lehi	SIU	4	95802	319427	36847	0	147634	67857	105860	145237	84945	217752	98024	64409	94632
Los Muertos	SIU	4	61645	285270	2689	4	113477	33700	71703	111080	50788	183595	63867	30252	60474
Crismon	SIU	4	57157	280782	-1799	7	108989	29212	67215	106592	46300	179107	59379	25764	55986
Scottsdale	SIU	4	53399	277024	-5556	12	105231	25454	63457	102834	42542	175349	55621	22006	52229
Riverview	SIU	4	33749	257374	-25207	25	85581	5804	43807	83184	22892	155699	35971	2356	32578
Canal System 2	SIU	4	7525	231150	-51431	57	59357	-20420	17583	56960	-3332	129475	9747	-23868	6354
Start (E. Classic)			107722	331346	48766		159554	79777	117780	157156	96865	229672	109944	76328	106551
Coyote	Buffer	4	103040	326665	44085	0	154872	75095	113098	152475	92183	224990	105262	71647	101870
Lehi	Buffer	4	65037	288662	6082	3	116869	37092	75095	114472	54180	186987	67259	33644	63867
Los Muertos	Buffer	4	-5253	218372	-64208	81	46579	-33198	4805	44182	-16110	116697	-3031	-36646	-6423
Crismon	Buffer	4	-20437	203188	-79393	100	31395	-48382	-10379	28998	-31294	101513	-18215	-51830	-21608
Scottsdale	Buffer	4	-37456	186168	-96412	120	14376	-65401	-27398	11978	-48313	84494	-35234	-68850	-38627
Riverview	Buffer	4	-100033	123592	-158989	174	-48201	-127978	-89975	-50598	-110890	21917	-97811	-131426	-101204
Canal System 2	Buffer	4	-175783	47841	-234739	196	-123952	-203728	-165725	-126349	-186640	-53833	-173562	-207177	-176954

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1109 Silk 1	1110 Silk 1	1111 Silk 1	1112 Silk 1	1113 Silk 1	1114 Silk 1	1115 Silk 1	1116 Silk 1	1117 Silk 1	1118 Silk 1	1119 Silk 1	1120 Silk 1	1121 Silk 1
Start (E. Classic)			159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	SIU	3	157720	119493	119605	142384	89844	205858	148370	138277	161491	117348	162332	75560	81139
Lehi	SIU	3	150067	111840	111952	134731	82192	198205	140717	130624	153838	109695	154679	67907	73486
Los Muertos	SIU	3	124449	86222	86334	109113	56574	172587	115099	105006	128220	84077	129061	42289	47869
Crismon	SIU	3	121083	82856	82968	105747	53208	169221	111733	101640	124854	80711	125695	38923	44503
Scottsdale	SIU	3	118265	80038	80150	102929	50390	166403	108915	98822	122036	77893	122877	36105	41684
Riverview	SIU	3	103527	65300	65412	88191	35652	151665	94177	84084	107298	63155	108139	21367	26947
Canal System 2	SIU	3	83859	45632	45744	68523	15984	131997	74509	64416	87630	43487	88471	1699	7279
Start (E. Classic)			159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	Buffer	3	155496	117268	117381	140160	87620	203634	146146	136053	159266	115124	160108	73336	78915
Lehi	Buffer	3	126994	88766	88878	111658	59118	175132	117643	107550	130764	86622	131605	44834	50413
Los Muertos	Buffer	3	74276	36049	36161	58940	6401	122414	64926	54833	78047	33904	78888	-7884	-2305
Crismon	Buffer	3	62888	24660	24773	47552	-4988	111026	53538	43445	66659	22516	67500	-19272	-13693
Scottsdale	Buffer	3	50123	11896	12008	34788	-17752	98261	40773	30680	53894	9751	54735	-32037	-26457
Riverview	Buffer	3	3191	-35037	-34924	-12145	-64685	51329	-6159	-16252	6962	-37181	7803	-78969	-73390
Canal System 2	Buffer	3	-53622	-91849	-91737	-68958	-121498	-5484	-62972	-73065	-49851	-93994	-49010	-135782	-130203
Start (E. Classic)			159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	SIU	4	157291	119064	119176	141955	89415	205429	147941	137848	161062	116919	161903	75131	80710
Lehi	SIU	4	147087	108860	108972	131751	79212	195225	137737	127644	150858	106715	151699	64927	70507
Los Muertos	SIU	4	112930	74703	74815	97594	45055	161068	103580	93487	116701	72558	117542	30770	36349
Crismon	SIU	4	108442	70215	70327	93106	40567	156580	99092	88999	112213	68070	113054	26282	31861
Scottsdale	SIU	4	104684	66457	66569	89349	36809	152822	95334	85241	108455	64312	109296	22525	28104
Riverview	SIU	4	85034	46807	46919	69698	17159	133172	75684	65591	88805	44662	89646	2874	8453
Canal System 2	SIU	4	58810	20583	20695	43474	-9065	106948	49460	39367	62581	18438	63422	-23350	-17771
Start (E. Classic)			159007	120780	120892	143671	91131	207145	149657	139564	162778	118635	163619	76847	82426
Coyote	Buffer	4	154325	116098	116210	138989	86450	202463	144975	134882	158096	113953	158937	72165	77745
Lehi	Buffer	4	116322	78095	78207	100987	48447	164460	106972	96879	120093	75950	120934	34163	39742
Los Muertos	Buffer	4	46032	7805	7917	30697	-21843	94170	36682	26589	49803	5660	50644	-36127	-30548
Crismon	Buffer	4	30848	-7379	-7267	15512	-37027	78986	21498	11405	34619	-9524	35460	-51312	-45733
Scottsdale	Buffer	4	13829	-24398	-24286	-1507	-54047	61967	4479	-5614	17600	-26543	18441	-68331	-62752
Riverview	Buffer	4	-48748	-86975	-86863	-64084	-116623	-610	-58098	-68191	-44977	-89120	-44136	-130908	-125329
Canal System 2	Buffer	4	-124498	-162726	-162613	-139834	-192374	-76360	-133848	-143941	-120728	-164870	-119886	-206658	-201079

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1122 Silk 1	1123 Silk 1	1124 Silk 1	1125 Silk 1	1126 Silk 1	1127 Silk 1	1128 Silk 1	1129 Silk 1	1130 Silk 1	1131 Silk 1	1132 Silk 1	1133 Silk 1	1134 Silk 1
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234
Coyote	SIU	3	212418	108194	153837	110731	120558	196536	149814	270018	143548	73934	93755	64962	103947
Lehi	SIU	3	204766	100541	146184	103079	112905	188883	142161	262366	135895	66281	86103	57310	96294
Los Muertos	SIU	3	179148	74923	120566	77461	87287	163265	116543	236748	110277	40663	60485	31692	70676
Crismon	SIU	3	175782	71557	117200	74095	83921	159899	113177	233382	106911	37297	57119	28326	67310
Scottsdale	SIU	3	172963	68739	114382	71276	81103	157081	110359	230564	104093	34479	54301	25508	64492
Riverview	SIU	3	158226	54001	99644	56539	66365	142343	95621	215826	89355	19741	39563	10770	49754
Canal System 2	SIU	3	138558	34333	79976	36871	46697	122675	75953	196158	69687	73	19895	-8898	30086
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234
Coyote	Buffer	3	210194	105970	151613	108507	118334	194312	147589	267794	141323	71710	91531	62738	101722
Lehi	Buffer	3	181692	77468	123111	80005	89832	165810	119087	239292	112821	43208	63029	34236	73220
Los Muertos	Buffer	3	128974	24750	70393	27287	37114	113092	66370	186575	60104	-9510	10312	-18481	20503
Crismon	Buffer	3	117586	13362	59005	15899	25726	101704	54982	175186	48715	-20898	-1077	-29870	9114
Scottsdale	Buffer	3	104822	598	46240	3135	12961	88939	42217	162422	35951	-33663	-13841	-42634	-3650
Riverview	Buffer	3	57889	-46335	-692	-43798	-33971	42007	-4715	115489	-10982	-80595	-60774	-89567	-50583
Canal System 2	Buffer	3	1076	-103148	-57505	-100611	-90784	-14806	-61528	58677	-67794	-137408	-117586	-146380	-107395
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234
Coyote	SIU	4	211989	107765	153408	110302	120129	196107	149385	269589	143119	73505	93326	64533	103518
Lehi	SIU	4	201786	97561	143204	100099	109925	185903	139181	259386	132915	63301	83123	54330	93314
Los Muertos	SIU	4	167628	63404	109047	65941	75768	151746	105024	225229	98758	29144	48966	20173	59157
Crismon	SIU	4	163140	58916	104559	61453	71280	147258	100536	220741	94270	24656	44478	15685	54669
Scottsdale	SIU	4	159383	55159	100801	57696	67523	143500	96778	216983	90512	20898	40720	11927	50911
Riverview	SIU	4	139732	35508	81151	38045	47872	123850	77128	197333	70862	1248	21070	-7723	31261
Canal System 2	SIU	4	113508	9284	54927	11821	21648	97626	50904	171109	44638	-24976	-5154	-33947	5037
Start (E. Classic)			213705	109481	155124	112018	121845	197823	151101	271305	144835	75221	95042	66249	105234
Coyote	Buffer	4	209024	104799	150442	107337	117163	193141	146419	266624	140153	70539	90361	61568	100552
Lehi	Buffer	4	171021	66797	112439	69334	79161	155138	108416	228621	102150	32536	52358	23565	62549
Los Muertos	Buffer	4	100731	-3493	42149	-956	8871	84848	38126	158331	31860	-37754	-17932	-46725	-7741
Crismon	Buffer	4	85546	-18678	26965	-16141	-6314	69664	22942	143147	16676	-52938	-33116	-61909	-22925
Scottsdale	Buffer	4	68527	-35697	9946	-33160	-23333	52645	5923	126127	-343	-69957	-50136	-78929	-39944
Riverview	Buffer	4	5950	-98274	-52631	-95737	-85910	-9932	-56654	63551	-62920	-132534	-112712	-141505	-102521
Canal System 2	Buffer	4	-69800	-174024	-128381	-171487	-161660	-85682	-132405	-12200	-138671	-208284	-188463	-217256	-178272

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1135 Silk 1	1136 Silk 1	1137 Silk 1	1138 Silk 1	1139 Silk 1	1140 Silk 1	1141 Silk 1	1142 Silk 1	1143 Silk 1	1144 Silk 1	1145 Silk 1	1146 Silk 1	1147 Silk 1
Start (E. Classic)			115144	124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270
Coyote	SIU	3	113857	123165	85274	137618	149940	88611	162346	86873	107535	149926	147711	53692	226983
Lehi	SIU	3	106205	115513	77622	129965	142287	80958	154693	79220	99882	142273	140058	46039	219330
Los Muertos	SIU	3	80587	89895	52004	104347	116669	55340	129075	53602	74265	116655	114440	20421	193712
Crismon	SIU	3	77221	86529	48638	100981	113303	51974	125709	50236	70899	113289	111074	17055	190346
Scottsdale	SIU	3	74403	83711	45820	98163	110485	49156	122891	47418	68080	110471	108256	14237	187528
Riverview	SIU	3	59665	68973	31082	83425	95747	34418	108153	32680	53343	95733	93518	-501	172790
Canal System 2	SIU	3	39997	49305	11414	63757	76079	14750	88485	13012	33675	76065	73850	-20169	153122
Start (E. Classic)			115144	124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270
Coyote	Buffer	3	111633	120941	83050	135394	147716	86387	160122	84648	105311	147702	145487	51468	224759
Lehi	Buffer	3	83131	92439	54548	106892	119213	57884	131619	56146	76809	119199	116985	22966	196257
Los Muertos	Buffer	3	30414	39722	1831	54174	66496	5167	78902	3429	24091	66482	64267	-29752	143539
Crismon	Buffer	3	19025	28333	-9558	42786	55108	-6221	67514	-7960	12703	55094	52879	-41140	132151
Scottsdale	Buffer	3	6261	15569	-22322	30021	42343	-18986	54749	-20724	-61	42329	40114	-53905	119387
Riverview	Buffer	3	-40672	-31364	-69255	-16911	-4589	-65918	7817	-67657	-46994	-4603	-6818	-100837	72454
Canal System 2	Buffer	3	-97485	-88177	-126067	-73724	-61402	-122731	-48996	-124469	-103807	-61416	-63631	-157650	15641
Start (E. Classic)			115144	124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270
Coyote	SIU	4	113428	122736	84845	137189	149511	88182	161917	86444	107106	149497	147282	53263	226554
Lehi	SIU	4	103225	112533	74642	126985	139307	77978	151713	76240	96903	139293	137078	43059	216350
Los Muertos	SIU	4	69068	78376	40485	92828	105150	43821	117556	42083	62745	105136	102921	8902	182193
Crismon	SIU	4	64580	73888	35997	88340	100662	39333	113068	37595	58257	100648	98433	4414	177705
Scottsdale	SIU	4	60822	70130	32239	84583	96904	35575	109310	33837	54500	96890	94676	656	173948
Riverview	SIU	4	41172	50480	12589	64932	77254	15925	89660	14187	34849	77240	75025	-18994	154297
Canal System 2	SIU	4	14948	24256	-13635	38708	51030	-10299	63436	-12037	8625	51016	48801	-45218	128073
Start (E. Classic)			115144	124452	86561	138905	151227	89898	163633	88160	108822	151213	148998	54979	228270
Coyote	Buffer	4	110463	119771	81880	134223	146545	85216	158951	83478	104141	146531	144316	50297	223588
Lehi	Buffer	4	72460	81768	43877	96221	108542	47213	120948	45475	66138	108528	106314	12294	185586
Los Muertos	Buffer	4	2170	11478	-26413	25931	38252	-23077	50658	-24815	-4152	38238	36024	-57996	115296
Crismon	Buffer	4	-13014	-3706	-41597	10746	23068	-38261	35474	-39999	-19337	23054	20839	-73180	100111
Scottsdale	Buffer	4	-30034	-20726	-58617	-6273	6049	-55280	18455	-57018	-36356	6035	3820	-90199	83092
Riverview	Buffer	4	-92610	-83302	-121193	-68850	-56528	-117857	-44122	-119595	-98933	-56542	-58757	-152776	20515
Canal System 2	Buffer	4	-168361	-159053	-196944	-144600	-132278	-193607	-119872	-195346	-174683	-132292	-134507	-228526	-55235

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1148 Silk 1	1149 Silk 1	1150 Silk 1	1151 Silk 1	1152 Silk 1	1153 Silk 1	1154 Silk 1	1155 Silk 1	1156 Silk 1	1157 Silk 1	1158 Silk 1	1159 Silk 1	1160 Silk 1
Start (E. Classic)			133059	166436	50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386
Coyote	SIU	3	131772	165149	48982	106974	163257	156725	170729	169930	58556	153584	58794	149057	152099
Lehi	SIU	3	124120	157497	41329	99322	155604	149072	163076	162277	50903	145932	51142	141404	144446
Los Muertos	SIU	3	98502	131879	15711	73704	129986	123454	137458	136659	25285	120314	25524	115786	118828
Crismon	SIU	3	95136	128513	12345	70338	126620	120088	134092	133293	21919	116948	22158	112420	115462
Scottsdale	SIU	3	92318	125695	9527	67520	123802	117270	131274	130475	19101	114130	19340	109602	112644
Riverview	SIU	3	77580	110957	-5211	52782	109064	102532	116536	115737	4363	99392	4602	94864	97906
Canal System 2	SIU	3	57912	91289	-24879	33114	89396	82864	96868	96069	-15305	79724	-15066	75196	78238
Start (E. Classic)			133059	166436	50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386
Coyote	Buffer	3	129548	162925	46758	104750	161033	154500	168504	167705	56332	151360	56570	146832	149874
Lehi	Buffer	3	101046	134423	18255	76248	132531	125998	140002	139203	27830	122858	28068	118330	121372
Los Muertos	Buffer	3	48329	81706	-34462	23531	79813	73281	87285	86486	-24888	70141	-24649	65613	68655
Crismon	Buffer	3	36940	70317	-45850	12142	68425	61892	75896	75097	-36276	58752	-36038	54225	57266
Scottsdale	Buffer	3	24176	57553	-58615	-622	55660	49128	63132	62333	-49040	45988	-48802	41460	44502
Riverview	Buffer	3	-22757	10620	-105547	-47555	8728	2195	16199	15400	-95973	-945	-95735	-5472	-2431
Canal System 2	Buffer	3	-79570	-46193	-162360	-104367	-48085	-54617	-40613	-41412	-152786	-57757	-152548	-62285	-59243
Start (E. Classic)			133059	166436	50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386
Coyote	SIU	4	131343	164720	48553	106545	162828	156296	170300	169501	58127	153155	58365	148628	151670
Lehi	SIU	4	121140	154517	38349	96342	152624	146092	160096	159297	47923	142952	48162	138424	141466
Los Muertos	SIU	4	86983	120360	4192	62185	118467	111935	125939	125140	13766	108795	14005	104267	107309
Crismon	SIU	4	82495	115872	-296	57697	113979	107447	121451	120652	9278	104307	9517	99779	102821
Scottsdale	SIU	4	78737	112114	-4054	53939	110222	103689	117693	116894	5521	100549	5759	96021	99063
Riverview	SIU	4	59087	92464	-23704	34289	90571	84039	98043	97244	-14130	80899	-13891	76371	79413
Canal System 2	SIU	4	32863	66240	-49928	8065	64347	57815	71819	71020	-40354	54675	-40115	50147	53189
Start (E. Classic)			133059	166436	50269	108261	164544	158012	172016	171217	59843	154871	60081	150344	153386
Coyote	Buffer	4	128378	161755	45587	103580	159862	153330	167334	166535	55161	150190	55400	145662	148704
Lehi	Buffer	4	90375	123752	7584	65577	121860	115327	129331	128532	17159	112187	17397	107659	110701
Los Muertos	Buffer	4	20085	53462	-62706	-4713	51570	45037	59041	58242	-53131	41897	-52893	37369	40411
Crismon	Buffer	4	4901	38278	-77890	-19897	36385	29853	43857	43058	-68316	26713	-68077	22185	25227
Scottsdale	Buffer	4	-12119	21258	-94909	-36917	19366	12834	26838	26039	-85335	9693	-85097	5166	8208
Riverview	Buffer	4	-74695	-41318	-157486	-99493	-43211	-49743	-35739	-36538	-147912	-52883	-147673	-57411	-54369
Canal System 2	Buffer	4	-150446	-117069	-233236	-175244	-118961	-125494	-111490	-112289	-223662	-128634	-223424	-133162	-130120

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1161 Silk 1	1162 Silk 1	1163 Silk 1	1164 Silk 1	1165 Silk 1	1166 Silk 1	1167 Silk 1	1168 Silk 1	1169 Silk 1	1170 Silk 1	1171 Silk 1	1172 Silk 1	1173 Silk 1
Start (E. Classic)			80646	211028	173684	103916	183398	110953	181520	48909	74730	112158	165623	177076	212682
Coyote	SIU	3	79359	209741	172397	102629	182111	109666	180233	47622	73443	110871	164336	175789	211395
Lehi	SIU	3	71706	202088	164744	94976	174459	102013	172580	39969	65791	103219	156684	168136	203742
Los Muertos	SIU	3	46088	176470	139126	69358	148841	76395	146962	14351	40173	77601	131066	142518	178124
Crismon	SIU	3	42722	173104	135760	65992	145475	73029	143596	10985	36807	74235	127700	139152	174758
Scottsdale	SIU	3	39904	170286	132942	63174	142656	70211	140778	8167	33988	71417	124882	136334	171940
Riverview	SIU	3	25166	155548	118204	48436	127919	55473	126040	-6571	19251	56679	110144	121596	157202
Canal System 2	SIU	3	5498	135880	98536	28768	108251	35805	106372	-26239	-417	37011	90476	101928	137534
Start (E. Classic)			80646	211028	173684	103916	183398	110953	181520	48909	74730	112158	165623	177076	212682
Coyote	Buffer	3	77135	207517	170173	100405	179887	107442	178009	45398	71219	108647	162112	173565	209171
Lehi	Buffer	3	48633	179015	141670	71903	151385	78940	149507	16896	42717	80145	133610	145063	180669
Los Muertos	Buffer	3	-4085	126297	88953	19185	98667	26222	96789	-35822	-10001	27428	80893	92345	127951
Crismon	Buffer	3	-15473	114909	77565	7797	87279	14834	85401	-47210	-21389	16039	69504	80957	116563
Scottsdale	Buffer	3	-28238	102144	64800	-4968	74515	2069	72636	-59975	-34153	3275	56740	68193	103798
Riverview	Buffer	3	-75170	55212	17868	-51900	27582	-44863	25704	-106907	-81086	-43658	9807	21260	56866
Canal System 2	Buffer	3	-131983	-1601	-38945	-108713	-29231	-101676	-31109	-163720	-137899	-100470	-47006	-35553	53
Start (E. Classic)			80646	211028	173684	103916	183398	110953	181520	48909	74730	112158	165623	177076	212682
Coyote	SIU	4	78930	209312	171968	102200	181682	109237	179804	47193	73014	110442	163907	175360	210966
Lehi	SIU	4	68726	199108	161764	91996	171479	99033	169600	36989	62811	100239	153704	165156	200762
Los Muertos	SIU	4	34569	164951	127607	57839	137321	64876	135443	2832	28653	66082	119547	130999	166605
Crismon	SIU	4	30081	160463	123119	53351	132833	60388	130955	-1656	24165	61594	115059	126511	162117
Scottsdale	SIU	4	26323	156705	119361	49593	129076	56631	127197	-5413	20408	57836	111301	122754	158360
Riverview	SIU	4	6673	137055	99711	29943	109425	36980	107547	-25064	757	38186	91651	103103	138709
Canal System 2	SIU	4	-19551	110831	73487	3719	83201	10756	81323	-51288	-25467	11962	65427	76879	112485
Start (E. Classic)			80646	211028	173684	103916	183398	110953	181520	48909	74730	112158	165623	177076	212682
Coyote	Buffer	4	75964	206346	169002	99234	178717	106271	176838	44227	70049	107477	160942	172394	208000
Lehi	Buffer	4	37961	168343	130999	61231	140714	68269	138835	6225	32046	69474	122939	134392	169998
Los Muertos	Buffer	4	-32329	98053	60709	-9059	70424	-2021	68545	-64065	-38244	-816	52649	64102	99708
Crismon	Buffer	4	-47513	82869	45525	-24243	55239	-17206	53361	-79250	-53429	-16000	37465	48917	84523
Scottsdale	Buffer	4	-64532	65850	28506	-41262	38220	-34225	36342	-96269	-70448	-33020	20445	31898	67504
Riverview	Buffer	4	-127109	3273	-34071	-103839	-24357	-96802	-26235	-158846	-133025	-95596	-42131	-30679	4927
Canal System 2	Buffer	4	-202859	-72477	-109821	-179589	-100107	-172552	-101985	-234596	-208775	-171347	-117882	-106429	-70823

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1174 Silk 1	1175 Silk 1	1176 Silk 1	1177 Silk 1	1178 Silk 1	1179 Silk 1	1180 Silk 1	1181 Silk 1	1182 Silk 1	1183 Silk 1	1184 Silk 1	1185 Silk 1	1186 Silk 1
Start (E. Classic)			104028	54951	101561	69375	171217	94454	157998	177903	59913	159441	217995	115551	85314
Coyote	SIU	3	102741	53664	100274	68088	169930	93167	156711	176616	58626	158154	216708	114264	84027
Lehi	SIU	3	95088	46011	92621	60436	162277	85514	149058	168963	50973	150502	209055	106611	76374
Los Muertos	SIU	3	69470	20393	67003	34818	136659	59896	123440	143346	25356	124884	183437	80993	50756
Crismon	SIU	3	66104	17027	63637	31452	133293	56530	120074	139980	21990	121518	180071	77627	47390
Scottsdale	SIU	3	63286	14209	60819	28634	130475	53712	117256	137161	19171	118700	177253	74809	44572
Riverview	SIU	3	48548	-529	46081	13896	115737	38974	102518	122424	4434	103962	162515	60071	29834
Canal System 2	SIU	3	28880	-20197	26413	-5772	96069	19306	82850	102756	-15234	84294	142847	40403	10166
Start (E. Classic)			104028	54951	101561	69375	171217	94454	157998	177903	59913	159441	217995	115551	85314
Coyote	Buffer	3	100517	51440	98050	65864	167705	90942	154486	174392	56402	155930	214484	112040	81803
Lehi	Buffer	3	72015	22937	69548	37362	139203	62440	125984	145890	27900	127428	185981	83538	53301
Los Muertos	Buffer	3	19297	-29780	16830	-15355	86486	9723	73267	93172	-24818	74711	133264	30820	583
Crismon	Buffer	3	7909	-41168	5442	-26744	75097	-1665	61878	81784	-36206	63322	121876	19432	-10805
Scottsdale	Buffer	3	-4856	-53933	-7323	-39508	62333	-14430	49114	69020	-48970	50558	109111	6667	-23570
Riverview	Buffer	3	-51788	-100865	-54255	-86441	15400	-61362	2181	22087	-95903	3625	62179	-40265	-70502
Canal System 2	Buffer	3	-108601	-157678	-111068	-143254	-41412	-118175	-54631	-34726	-152716	-53188	5366	-97078	-127315
Start (E. Classic)			104028	54951	101561	69375	171217	94454	157998	177903	59913	159441	217995	115551	85314
Coyote	SIU	4	102312	53235	99845	67659	169501	92738	156282	176187	58197	157725	216279	113835	83598
Lehi	SIU	4	92108	43031	89641	57456	159297	82534	146078	165984	47994	147522	206075	103631	73394
Los Muertos	SIU	4	57951	8874	55484	23299	125140	48377	111921	131826	13836	113365	171918	69474	39237
Crismon	SIU	4	53463	4386	50996	18811	120652	43889	107433	127338	9348	108877	167430	64986	34749
Scottsdale	SIU	4	49706	628	47238	15053	116894	40131	103675	123581	5591	105119	163672	61228	30991
Riverview	SIU	4	30055	-19022	27588	-4597	97244	20481	84025	103930	-14060	85469	144022	41578	11341
Canal System 2	SIU	4	3831	-45246	1364	-30821	71020	-5743	57801	77706	-40284	59245	117798	15354	-14883
Start (E. Classic)			104028	54951	101561	69375	171217	94454	157998	177903	59913	159441	217995	115551	85314
Coyote	Buffer	4	99346	50269	96879	64694	166535	89772	153316	173222	55232	154760	213313	110869	80632
Lehi	Buffer	4	61344	12266	58876	26691	128532	51769	115313	135219	17229	116757	175310	72866	42629
Los Muertos	Buffer	4	-8946	-58024	-11414	-43599	58242	-18521	45023	64929	-53061	46467	105020	2576	-27661
Crismon	Buffer	4	-24131	-73208	-26598	-58783	43058	-33705	29839	49744	-68246	31283	89836	-12608	-42845
Scottsdale	Buffer	4	-41150	-90227	-43617	-75803	26039	-50724	12820	32725	-85265	14263	72817	-29627	-59864
Riverview	Buffer	4	-103727	-152804	-106194	-138379	-36538	-113301	-49757	-29852	-147842	-48313	10240	-92204	-122441
Canal System 2	Buffer	4	-179477	-228554	-181944	-214130	-112289	-189052	-125508	-105602	-223592	-124064	-65510	-167954	-198191

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1187 Silk 1	1188 Silk 1	1189 Silk 1	1190 Silk 1	1191 Silk 1	1192 Silk 1	1193 Silk 1	1194 Silk 1	1195 Silk 1	1196 Silk 1	1197 Silk 1	1198 Silk 1	1199 Silk 1
Start (E. Classic)			172829	119967	106888	187463	112775	86842	88328	114836	177791	146320	235587	105416	92288
Coyote	SIU	3	171542	118680	105601	186176	111488	85555	87041	113549	176504	145033	234300	104129	91001
Lehi	SIU	3	163889	111027	97948	178524	103836	77902	79388	105896	168851	137381	226648	96476	83349
Los Muertos	SIU	3	138271	85409	72330	152906	78218	52284	53770	80278	143233	111763	201030	70858	57731
Crismon	SIU	3	134905	82043	68964	149540	74852	48918	50404	76912	139867	108397	197664	67492	54365
Scottsdale	SIU	3	132087	79225	66146	146722	72033	46100	47586	74094	137049	105579	194846	64674	51547
Riverview	SIU	3	117349	64487	51408	131984	57296	31362	32848	59356	122311	90841	180108	49936	36809
Canal System 2	SIU	3	97681	44819	31740	112316	37628	11694	13180	39688	102643	71173	160440	30268	17141
Start (E. Classic)			172829	119967	106888	187463	112775	86842	88328	114836	177791	146320	235587	105416	92288
Coyote	Buffer	3	169317	116455	103376	183952	109264	83331	84817	111325	174280	142809	232076	101905	88777
Lehi	Buffer	3	140815	87953	74874	155450	80762	54829	56314	82823	145778	114307	203574	73402	60275
Los Muertos	Buffer	3	88098	35236	22157	102733	28044	2111	3597	30105	93060	61590	150857	20685	7558
Crismon	Buffer	3	76710	23847	10769	91344	16656	-9277	-7791	18717	81672	50201	139468	9297	-3831
Scottsdale	Buffer	3	63945	11083	-1996	78580	3892	-22042	-20556	5952	68908	37437	126704	-3468	-16595
Riverview	Buffer	3	17013	-35850	-48928	31647	-43041	-68974	-67488	-40980	21975	-9496	79771	-50400	-63528
Canal System 2	Buffer	3	-39800	-92662	-105741	-25165	-99854	-125787	-124301	-97793	-34838	-66308	22959	-107213	-120340
Start (E. Classic)			172829	119967	106888	187463	112775	86842	88328	114836	177791	146320	235587	105416	92288
Coyote	SIU	4	171113	118251	105172	185747	111059	85126	86612	113120	176075	144604	233871	103700	90572
Lehi	SIU	4	160909	108047	94968	175544	100856	74922	76408	102916	165871	134401	223668	93496	80369
Los Muertos	SIU	4	126752	73890	60811	141387	66698	40765	42251	68759	131714	100244	189511	59339	46212
Crismon	SIU	4	122264	69402	56323	136899	62210	36277	37763	64271	127226	95756	185023	54851	41724
Scottsdale	SIU	4	118506	65644	52565	133141	58453	32519	34005	60514	123469	91998	181265	51093	37966
Riverview	SIU	4	98856	45994	32915	113491	38802	12869	14355	40863	103818	72348	161615	31443	18316
Canal System 2	SIU	4	72632	19770	6691	87267	12578	-13355	-11869	14639	77594	46124	135391	5219	-7908
Start (E. Classic)			172829	119967	106888	187463	112775	86842	88328	114836	177791	146320	235587	105416	92288
Coyote	Buffer	4	168147	115285	102206	182782	108094	82160	83646	110154	173109	141639	230906	100734	87607
Lehi	Buffer	4	130144	77282	64203	144779	70091	44157	45643	72152	135107	103636	192903	62731	49604
Los Muertos	Buffer	4	59854	6992	-6087	74489	-199	-26133	-24647	1862	64817	33346	122613	-7559	-20686
Crismon	Buffer	4	44670	-8192	-21271	59305	-15384	-41317	-39831	-13323	49632	18162	107429	-22743	-35870
Scottsdale	Buffer	4	27651	-25211	-38290	42285	-32403	-58336	-56850	-30342	32613	1142	90409	-39762	-52890
Riverview	Buffer	4	-34926	-87788	-100867	-20291	-94980	-120913	-119427	-92919	-29964	-61434	27833	-102339	-115466
Canal System 2	Buffer	4	-110677	-163539	-176618	-96042	-170730	-196663	-195177	-168669	-105714	-137185	-47918	-178089	-191217

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1200 Silk 1	1201 Silk 1	1202 Silk 1	1203 Silk 1	1204 Silk 1	1205 Silk 1	1206 Silk 1	1207 Silk 1	1208 Silk 1	1209 Silk 1	1210 Silk 1	1211 Silk 1	1212 Silk 1	1213 Silk 1
Start (E. Classic)			305458	252666	210494	141831	140211	91303	98833	143049	108883	199870	166936	161334	163091	112695
Coyote	SIU	3	304171	251379	209207	140544	138924	90016	97546	141762	107596	198583	165649	160047	161804	111408
Lehi	SIU	3	296518	243727	201554	132891	131271	82364	89893	134109	99944	190931	157996	152394	154151	103756
Los Muertos	SIU	3	270901	218109	175936	107273	105653	56746	64275	108491	74326	165313	132378	126776	128533	78138
Crismon	SIU	3	267535	214743	172570	103907	102287	53380	60909	105125	70960	161947	129012	123410	125167	74772
Scottsdale	SIU	3	264716	211925	169752	101089	99469	50562	58091	102307	68141	159129	126194	120592	122349	71954
Riverview	SIU	3	249979	197187	155014	86351	84731	35824	43353	87569	53404	144391	111456	105854	107611	57216
Canal System 2	SIU	3	230311	177519	135346	66683	65063	16156	23685	67901	33736	124723	91788	86186	87943	37548
Start (E. Classic)			305458	252666	210494	141831	140211	91303	98833	143049	108883	199870	166936	161334	163091	112695
Coyote	Buffer	3	301947	249155	206983	138319	136700	87792	95322	139537	105372	196359	163425	157823	159579	109184
Lehi	Buffer	3	273445	220653	178481	109817	108198	59290	66820	111035	76870	167857	134923	129321	131077	80682
Los Muertos	Buffer	3	220727	167936	125763	57100	55480	6573	14102	58318	24152	115140	82205	76603	78360	27965
Crismon	Buffer	3	209339	156547	114375	45711	44092	-4816	2714	46930	12764	103751	70817	65215	66971	16576
Scottsdale	Buffer	3	196575	143783	101610	32947	31328	-17580	-10051	34165	0	90987	58052	52450	54207	3812
Riverview	Buffer	3	149642	96850	54678	-13986	-15605	-64513	-56983	-12767	-46933	44054	11120	5518	7274	-43121
Canal System 2	Buffer	3	92829	40037	-2135	-70798	-72418	-121326	-113796	-69580	-103746	-12759	-45693	-51295	-49538	-99933
Start (E. Classic)			305458	252666	210494	141831	140211	91303	98833	143049	108883	199870	166936	161334	163091	112695
Coyote	SIU	4	303742	250950	208778	140115	138495	89587	97117	141333	107167	198154	165220	159618	161375	110979
Lehi	SIU	4	293539	240747	198574	129911	128291	79384	86913	131129	96964	187951	155016	149414	151171	100776
Los Muertos	SIU	4	259381	206590	164417	95754	94134	45227	52756	96972	62806	153794	120859	115257	117014	66619
Crismon	SIU	4	254893	202102	159929	91266	89646	40739	48268	92484	58318	149306	116371	110769	112526	62131
Scottsdale	SIU	4	251136	198344	156171	87508	85889	36981	44510	88726	54561	145548	112614	107012	108768	58373
Riverview	SIU	4	231485	178694	136521	67858	66238	17331	24860	69076	34910	125898	92963	87361	89118	38723
Canal System 2	SIU	4	205261	152470	110297	41634	40014	-8893	-1364	42852	8686	99674	66739	61137	62894	12499
Start (E. Classic)			305458	252666	210494	141831	140211	91303	98833	143049	108883	199870	166936	161334	163091	112695
Coyote	Buffer	4	300777	247985	205812	137149	135529	86622	94151	138367	104202	195189	162254	156652	158409	108014
Lehi	Buffer	4	262774	209982	167809	99146	97527	48619	56148	100364	66199	157186	124252	118650	120406	70011
Los Muertos	Buffer	4	192484	139692	97519	28856	27237	-21671	-14142	30074	-4091	86896	53962	48360	50116	-279
Crismon	Buffer	4	177299	124508	82335	13672	12052	-36855	-29326	14890	-19276	71712	38777	33175	34932	-15463
Scottsdale	Buffer	4	160280	107488	65316	-3347	-4967	-53875	-46345	-2129	-36295	54692	21758	16156	17913	-32483
Riverview	Buffer	4	97703	44912	2739	-65924	-67544	-116451	-108922	-64706	-98872	-7884	-40819	-46421	-44664	-95059
Canal System 2	Buffer	4	21953	-30839	-73011	-141675	-143294	-192202	-184672	-140457	-174622	-83635	-116569	-122171	-120415	-170810

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1214 Silk 1	1215 Silk 1	1216 Silk 1	1217 Silk 1	1218 Silk 1	1219 Silk 1	1220 Silk 1	1221 Silk 1	1222 Silk 1	1223 Silk 1	1224 Silk 1	1225 Silk 1	1226 Silk 1
Start (E. Classic)			74370	63584	66800	52270	119003	186023	106037	85353	105098	142293	124939	130082	141978
Coyote	SIU	3	73083	62297	65513	50983	117716	184736	104750	84066	103811	141006	123652	128795	140691
Lehi	SIU	3	65430	54644	57860	43330	110064	177083	97097	76413	96159	133354	115999	121142	133038
Los Muertos	SIU	3	39812	29026	32242	17712	84446	151465	71479	50795	70541	107736	90381	95524	107420
Crismon	SIU	3	36446	25660	28876	14346	81080	148099	68113	47429	67175	104370	87015	92158	104054
Scottsdale	SIU	3	33628	22842	26058	11528	78261	145281	65295	44611	64357	101551	84197	89340	101236
Riverview	SIU	3	18890	8104	11320	-3210	63524	130543	50557	29873	49619	86814	69459	74602	86498
Canal System 2	SIU	3	-778	-11564	-8348	-22878	43856	110875	30889	10205	29951	67146	49791	54934	66830
Start (E. Classic)			74370	63584	66800	52270	119003	186023	106037	85353	105098	142293	124939	130082	141978
Coyote	Buffer	3	70859	60073	63289	48758	115492	182512	102526	81841	101587	138782	121427	126571	138467
Lehi	Buffer	3	42357	31571	34787	20256	86990	154010	74023	53339	73085	110280	92925	98069	109964
Los Muertos	Buffer	3	-10361	-21147	-17931	-32461	34272	101292	21306	622	20368	57562	40208	45351	57247
Crismon	Buffer	3	-21749	-32535	-29319	-43850	22884	89904	9918	-10766	8979	46174	28820	33963	45859
Scottsdale	Buffer	3	-34513	-45300	-42083	-56614	10120	77139	-2847	-23531	-3785	33410	16055	21199	33094
Riverview	Buffer	3	-81446	-92232	-89016	-103547	-36813	30207	-49779	-70463	-50718	-13523	-30877	-25734	-13838
Canal System 2	Buffer	3	-138259	-149045	-145829	-160359	-93626	-26606	-106592	-127276	-107530	-70336	-87690	-82547	-70651
Start (E. Classic)			74370	63584	66800	52270	119003	186023	106037	85353	105098	142293	124939	130082	141978
Coyote	SIU	4	72654	61868	65084	50554	117287	184307	104321	83637	103382	140577	123223	128366	140262
Lehi	SIU	4	62450	51664	54880	40350	107084	174103	94117	73433	93179	130374	113019	118162	130058
Los Muertos	SIU	4	28293	17507	20723	6193	72926	139946	59960	39276	59022	96216	78862	84005	95901
Crismon	SIU	4	23805	13019	16235	1705	68438	135458	55472	34788	54534	91728	74374	79517	91413
Scottsdale	SIU	4	20048	9262	12478	-2053	64681	131700	51714	31030	50776	87971	70616	75760	87655
Riverview	SIU	4	397	-10389	-7173	-21703	45030	112050	32064	11380	31126	68320	50966	56109	68005
Canal System 2	SIU	4	-25827	-36613	-33397	-47927	18806	85826	5840	-14844	4902	42096	24742	29885	41781
Start (E. Classic)			74370	63584	66800	52270	119003	186023	106037	85353	105098	142293	124939	130082	141978
Coyote	Buffer	4	69688	58902	62118	47588	114322	181341	101355	80671	100417	137612	120257	125400	137296
Lehi	Buffer	4	31686	20900	24116	9585	76319	143338	63352	42668	62414	99609	82254	87398	99293
Los Muertos	Buffer	4	-38604	-49390	-46174	-60705	6029	73048	-6938	-27622	-7876	29319	11964	17108	29003
Crismon	Buffer	4	-53789	-64575	-61359	-75889	-9156	57864	-22122	-42806	-23060	14134	-3220	1923	13819
Scottsdale	Buffer	4	-70808	-81594	-78378	-92908	-26175	40845	-39141	-59825	-40080	-2885	-20239	-15096	-3200
Riverview	Buffer	4	-133385	-144171	-140955	-155485	-88752	-21732	-101718	-122402	-102656	-65462	-82816	-77673	-65777
Canal System 2	Buffer	4	-209135	-219921	-216705	-231236	-164502	-97482	-177468	-198153	-178407	-141212	-158567	-153423	-141527

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1227 Silk 1	1228 Silk 1	1229 Silk 1	1230 Silk 1	1231 Silk 1	1232 Silk 1	1233 Silk 1	1234 Silk 1	1235 Silk 1	1236 Silk 1	1237 Silk 1	1238 Silk 1	1239 Silk 1	1240 Silk 1
Start (E. Classic)			40917	278782	214088	168162	127416	226238	84997	94846	185422	94132	151989	210953	152499	93767
Coyote	SIU	3	39630	277495	212801	166875	126129	224951	83710	93559	184135	92845	150702	209666	151212	92480
Lehi	SIU	3	31978	269842	205149	159222	118476	217299	76058	85907	176482	85192	143049	202014	143559	84827
Los Muertos	SIU	3	6360	244224	179531	133605	92858	191681	50440	60289	150864	59574	117431	176396	117941	59209
Crismon	SIU	3	2994	240858	176165	130239	89492	188315	47074	56923	147498	56208	114065	173030	114575	55843
Scottsdale	SIU	3	176	238040	173347	127420	86674	185496	44255	54105	144680	53390	111247	170212	111757	53025
Riverview	SIU	3	-14562	223302	158609	112683	71936	170759	29518	39367	129942	38652	96509	155474	97019	38287
Canal System 2	SIU	3	-34230	203634	138941	93015	52268	151091	9850	19699	110274	18984	76841	135806	77351	18619
Start (E. Classic)			40917	278782	214088	168162	127416	226238	84997	94846	185422	94132	151989	210953	152499	93767
Coyote	Buffer	3	37406	275270	210577	164651	123904	222727	81486	91335	181911	90620	148477	207442	148987	90255
Lehi	Buffer	3	8904	246768	182075	136149	95402	194225	52984	62833	153409	62118	119975	178940	120485	61753
Los Muertos	Buffer	3	-43813	194051	129358	83431	42685	141507	266	10116	100691	9401	67258	126223	67768	9036
Crismon	Buffer	3	-55202	182663	117969	72043	31297	130119	-11122	-1273	89303	-1987	55869	114834	56380	-2352
Scottsdale	Buffer	3	-67966	169898	105205	59279	18532	117355	-23886	-14037	76538	-14752	43105	102070	43615	-15117
Riverview	Buffer	3	-114899	122966	58272	12346	-28400	70422	-70819	-60970	29606	-61684	-3828	55137	-3317	-62049
Canal System 2	Buffer	3	-171711	66153	1459	-44467	-85213	13609	-127632	-117783	-27207	-118497	-60640	-1676	-60130	-118862
Start (E. Classic)			40917	278782	214088	168162	127416	226238	84997	94846	185422	94132	151989	210953	152499	93767
Coyote	SIU	4	39201	277066	212372	166446	125700	224522	83281	93130	183706	92416	150273	209237	150783	92051
Lehi	SIU	4	28998	266862	202169	156243	115496	214319	73078	82927	173502	82212	140069	199034	140579	81847
Los Muertos	SIU	4	-5159	232705	168012	122085	81339	180161	38920	48770	139345	48055	105912	164877	106422	47690
Crismon	SIU	4	-9647	228217	163524	117597	76851	175673	34432	44282	134857	43567	101424	160389	101934	43202
Scottsdale	SIU	4	-13405	224459	159766	113840	73093	171916	30675	40524	131100	39809	97666	156631	98176	39444
Riverview	SIU	4	-33055	204809	140116	94189	53443	152265	11024	20874	111449	20159	78016	136981	78526	19794
Canal System 2	SIU	4	-59279	178585	113892	67965	27219	126041	-15200	-5350	85225	-6065	51792	110757	52302	-6430
Start (E. Classic)			40917	278782	214088	168162	127416	226238	84997	94846	185422	94132	151989	210953	152499	93767
Coyote	Buffer	4	36236	274100	209407	163481	122734	221557	80316	90165	180740	89450	147307	206272	147817	89085
Lehi	Buffer	4	-1767	236097	171404	125478	84731	183554	42313	52162	142738	51447	109304	168269	109814	51082
Los Muertos	Buffer	4	-72057	165807	101114	55188	14441	113264	-27977	-18128	72448	-18843	39014	97979	39524	-19208
Crismon	Buffer	4	-87241	150623	85930	40003	-743	98079	-43162	-33312	57263	-34027	23830	82795	24340	-34392
Scottsdale	Buffer	4	-104261	133604	68910	22984	-17762	81060	-60181	-50332	40244	-51046	6811	65775	7321	-51411
Riverview	Buffer	4	-166837	71027	6334	-39593	-80339	18483	-122758	-112908	-22333	-113623	-55766	3199	-55256	-113988
Canal System 2	Buffer	4	-242588	-4724	-69417	-115343	-156090	-57267	-198508	-188659	-98083	-189374	-131517	-72552	-131007	-189739

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1241 Silk 1	1242 Silk 1	1243 Silk 1	1244 Silk 1	1245 Silk 1	1246 Silk 1	1247 Silk 1	1248 Silk 1	1249 Silk 1	1250 Silk 1	1251 Silk 1	1252 Silk 1	1253 Silk 1
Start (E. Classic)			226778	152901	145739	141817	123880	73003	107700	212118	224670	97624	44479	119229	158427
Coyote	SIU	3	225491	151614	144452	140530	122593	71716	106413	210831	223383	96337	43192	117942	157140
Lehi	SIU	3	217838	143961	136800	132877	114940	64063	98760	203178	215730	88685	35540	110290	149487
Los Muertos	SIU	3	192220	118343	111182	107259	89322	38445	73142	177560	190113	63067	9922	84672	123869
Crismon	SIU	3	188854	114977	107816	103893	85956	35079	69776	174194	186747	59701	6556	81306	120503
Scottsdale	SIU	3	186036	112159	104998	101075	83138	32261	66958	171376	183928	56883	3738	78488	117685
Riverview	SIU	3	171298	97421	90260	86337	68400	17523	52220	156638	169191	42145	-11000	63750	102947
Canal System 2	SIU	3	151630	77753	70592	66669	48732	-2145	32552	136970	149523	22477	-30668	44082	83279
Start (E. Classic)			226778	152901	145739	141817	123880	73003	107700	212118	224670	97624	44479	119229	158427
Coyote	Buffer	3	223266	149390	142228	138306	120368	69492	104189	208607	221159	94113	40968	115718	154916
Lehi	Buffer	3	194764	120888	113726	109803	91866	40990	75687	180105	192657	65611	12466	87216	126414
Los Muertos	Buffer	3	142047	68170	61009	57086	39149	-11728	22969	127387	139939	12894	-40251	34499	73696
Crismon	Buffer	3	130658	56782	49620	45698	27761	-23116	11581	115999	128551	1505	-51640	23110	62308
Scottsdale	Buffer	3	117894	44017	36856	32933	14996	-35881	-1183	103234	115787	-11259	-64404	10346	49544
Riverview	Buffer	3	70961	-2915	-10077	-13999	-31936	-82813	-48116	56302	68854	-58192	-111337	-36587	2611
Canal System 2	Buffer	3	14149	-59728	-66889	-70812	-88749	-139626	-104929	-511	12041	-115004	-168150	-93400	-54202
Start (E. Classic)			226778	152901	145739	141817	123880	73003	107700	212118	224670	97624	44479	119229	158427
Coyote	SIU	4	225062	151185	144023	140101	122164	71287	105984	210402	222954	95908	42763	117513	156711
Lehi	SIU	4	214858	140981	133820	129897	111960	61083	95780	200198	212751	85705	32560	107310	146507
Los Muertos	SIU	4	180701	106824	99663	95740	77803	26926	61623	166041	178593	51548	-1597	73153	112350
Crismon	SIU	4	176213	102336	95175	91252	73315	22438	57135	161553	174105	47060	-6085	68665	107862
Scottsdale	SIU	4	172455	98579	91417	87494	69557	18680	53378	157796	170348	43302	-9843	64907	104105
Riverview	SIU	4	152805	78928	71767	67844	49907	-970	33727	138145	150697	23652	-29493	45257	84454
Canal System 2	SIU	4	126581	52704	45543	41620	23683	-27194	7503	111921	124473	-2572	-55717	19033	58230
Start (E. Classic)			226778	152901	145739	141817	123880	73003	107700	212118	224670	97624	44479	119229	158427
Coyote	Buffer	4	222096	148219	141058	137135	119198	68321	103018	207436	219989	92943	39798	114548	153745
Lehi	Buffer	4	184093	110217	103055	99132	81195	30318	65016	169434	181986	54940	1795	76545	115743
Los Muertos	Buffer	4	113803	39927	32765	28842	10905	-39972	-5274	99144	111696	-15350	-68495	6255	45453
Crismon	Buffer	4	98619	24742	17581	13658	-4279	-55156	-20459	83959	96511	-30534	-83679	-8929	30268
Scottsdale	Buffer	4	81600	7723	561	-3361	-21298	-72175	-37478	66940	79492	-47554	-100699	-25949	13249
Riverview	Buffer	4	19023	-54854	-62015	-65938	-83875	-134752	-100055	4363	16915	-110130	-163275	-88525	-49328
Canal System 2	Buffer	4	-56728	-130604	-137766	-141688	-159626	-210502	-175805	-71387	-58835	-185881	-239026	-164276	-125078

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1254 Silk 1	1255 Silk 1	1256 Silk 1	1257 Silk 1	1258 Silk 1	1259 Silk 1	1260 Silk 1	1261 Silk 1	1262 Silk 1	1263 Silk 1	1264 Silk 1	1265 Silk 1	1266 Silk 1
Start (E. Classic)			33866	225598	159641	130666	53713	458894	127620	148289	160029	57651	93526	132611	136659
Coyote	SIU	3	32579	224311	158354	129379	52426	457607	126333	147002	158742	56364	92239	131324	135372
Lehi	SIU	3	24926	216658	150702	121726	44773	449954	118680	139349	151089	48711	84587	123672	127720
Los Muertos	SIU	3	-692	191040	125084	96108	19155	424336	93062	113731	125471	23093	58969	98054	102102
Crismon	SIU	3	-4058	187674	121718	92742	15789	420970	89696	110365	122105	19727	55603	94688	98736
Scottsdale	SIU	3	-6876	184856	118899	89924	12971	418152	86878	107547	119287	16909	52785	91870	95917
Riverview	SIU	3	-21614	170118	104162	75186	-1767	403414	72140	92809	104549	2171	38047	77132	81180
Canal System 2	SIU	3	-41282	150450	84494	55518	-21435	383746	52472	73141	84881	-17497	18379	57464	61512
Start (E. Classic)			33866	225598	159641	130666	53713	458894	127620	148289	160029	57651	93526	132611	136659
Coyote	Buffer	3	30355	222087	156130	127154	50201	455382	124109	144778	156517	54139	90015	129100	133148
Lehi	Buffer	3	1852	193585	127628	98652	21699	426880	95606	116276	128015	25637	61513	100598	104646
Los Muertos	Buffer	3	-50865	140867	74910	45935	-31018	374163	42889	63558	75298	-27080	8796	47881	51928
Crismon	Buffer	3	-62253	129479	63522	34547	-42407	362774	31501	52170	63909	-38468	-2593	36492	40540
Scottsdale	Buffer	3	-75018	116714	50758	21782	-55171	350010	18736	39405	51145	-51233	-15357	23728	27776
Riverview	Buffer	3	-121950	69782	3825	-25150	-102104	303077	-28196	-7527	4212	-98165	-62290	-23205	-19157
Canal System 2	Buffer	3	-178763	12969	-52988	-81963	-158916	246265	-85009	-64340	-52600	-154978	-119103	-80018	-75970
Start (E. Classic)			33866	225598	159641	130666	53713	458894	127620	148289	160029	57651	93526	132611	136659
Coyote	SIU	4	32150	223882	157925	128950	51997	457178	125904	146573	158313	55935	91810	130895	134943
Lehi	SIU	4	21946	213678	147722	118746	41793	446974	115700	136369	148109	45731	81607	120692	124740
Los Muertos	SIU	4	-12211	179521	113564	84589	7636	412817	81543	102212	113952	11574	47450	86535	90582
Crismon	SIU	4	-16699	175033	109076	80101	3148	408329	77055	97724	109464	7086	42962	82047	86094
Scottsdale	SIU	4	-20457	171275	105319	76343	-610	404571	73297	93966	105706	3328	39204	78289	82337
Riverview	SIU	4	-40107	151625	85668	56693	-20260	384921	53647	74316	86056	-16322	19554	58639	62686
Canal System 2	SIU	4	-66331	125401	59444	30469	-46484	358697	27423	48092	59832	-42546	-6670	32415	36462
Start (E. Classic)			33866	225598	159641	130666	53713	458894	127620	148289	160029	57651	93526	132611	136659
Coyote	Buffer	4	29184	220916	154960	125984	49031	454212	122938	143607	155347	52969	88845	127930	131978
Lehi	Buffer	4	-8819	182913	116957	87981	11028	416209	84935	105604	117344	14966	50842	89927	93975
Los Muertos	Buffer	4	-79109	112623	46667	17691	-59262	345919	14645	35314	47054	-55324	-19448	19637	23685
Crismon	Buffer	4	-94293	97439	31482	2507	-74446	330735	-539	20130	31870	-70508	-34632	4453	8500
Scottsdale	Buffer	4	-111312	80420	14463	-14512	-91465	313716	-17558	3111	14851	-87527	-51652	-12567	-8519
Riverview	Buffer	4	-173889	17843	-48114	-77089	-154042	251139	-80135	-59466	-47726	-150104	-114228	-75143	-71096
Canal System 2	Buffer	4	-249639	-57907	-123864	-152840	-229793	175388	-155885	-135216	-123477	-225855	-189979	-150894	-146846

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1267 Silk 1	1268 Silk 1	1269 Silk 1	1270 Silk 1	1271 Silk 1	1272 Silk 1	1273 Silk 1	1274 Silk 1	1275 Silk 1	1276 Silk 1	1277 Silk 1	1278 Silk 1	1279 Silk 1
Start (E. Classic)			171658	215463	140451	86562	178456	128196	81843	130898	539424	53522	134425	82709	283208
Coyote	SIU	3	170371	214176	139164	85275	177169	126909	80556	129611	538137	52235	133138	81422	281921
Lehi	SIU	3	162718	206523	131511	77622	169516	119257	72903	121959	530484	44583	125485	73769	274269
Los Muertos	SIU	3	137100	180905	105893	52004	143898	93639	47285	96341	504866	18965	99867	48152	248651
Crismon	SIU	3	133734	177539	102527	48638	140532	90273	43919	92975	501500	15599	96501	44786	245285
Scottsdale	SIU	3	130916	174721	99709	45820	137714	87454	41101	90157	498682	12781	93683	41967	242467
Riverview	SIU	3	116178	159983	84971	31082	122976	72717	26363	75419	483944	-1957	78945	27230	227729
Canal System 2	SIU	3	96510	140315	65303	11414	103308	53049	6695	55751	464276	-21625	59277	7562	208061
Start (E. Classic)			171658	215463	140451	86562	178456	128196	81843	130898	539424	53522	134425	82709	283208
Coyote	Buffer	3	168146	211951	136940	83051	174945	124685	78332	127387	535913	50011	130913	79198	279697
Lehi	Buffer	3	139644	183449	108438	54549	146442	96183	49829	98885	507411	21509	102411	50696	251195
Los Muertos	Buffer	3	86927	130732	55720	1831	93725	43465	-2888	46168	454693	-31208	49694	-2022	198478
Crismon	Buffer	3	75539	119344	44332	-9557	82337	32077	-14276	34779	443305	-42597	38305	-13410	187089
Scottsdale	Buffer	3	62774	106579	31567	-22322	69572	19313	-27041	22015	430541	-55361	25541	-26174	174325
Riverview	Buffer	3	15842	59647	-15365	-69254	22640	-27620	-73973	-24918	383608	-102294	-21392	-73107	127392
Canal System 2	Buffer	3	-40971	2834	-72178	-126067	-34173	-84433	-130786	-81730	326795	-159107	-78204	-129920	70580
Start (E. Classic)			171658	215463	140451	86562	178456	128196	81843	130898	539424	53522	134425	82709	283208
Coyote	SIU	4	169942	213747	138735	84846	176740	126480	80127	129182	537708	51806	132709	80993	281492
Lehi	SIU	4	159738	203543	128531	74642	166536	116277	69923	118979	527504	41603	122505	70790	271289
Los Muertos	SIU	4	125581	169386	94374	40485	132379	82119	35766	84822	493347	7446	88348	36632	237132
Crismon	SIU	4	121093	164898	89886	35997	127891	77631	31278	80334	488859	2958	83860	32144	232644
Scottsdale	SIU	4	117335	161140	86128	32240	124133	73874	27520	76576	485102	-800	80102	28387	228886
Riverview	SIU	4	97685	141490	66478	12589	104483	54223	7870	56926	465451	-20450	60452	8736	209236
Canal System 2	SIU	4	71461	115266	40254	-13635	78259	27999	-18354	30702	439227	-46674	34228	-17488	183012
Start (E. Classic)			171658	215463	140451	86562	178456	128196	81843	130898	539424	53522	134425	82709	283208
Coyote	Buffer	4	166976	210781	135769	81880	173774	123515	77161	126217	534742	48841	129743	78028	278527
Lehi	Buffer	4	128973	172778	97766	43878	135771	85512	39158	88214	496740	10838	91740	40025	240524
Los Muertos	Buffer	4	58683	102488	27476	-26412	65481	15222	-31132	17924	426450	-59452	21450	-30265	170234
Crismon	Buffer	4	43499	87304	12292	-41597	50297	37	-46316	2740	411265	-74636	6266	-45450	155050
Scottsdale	Buffer	4	26480	70285	-4727	-58616	33278	-16982	-63335	-14280	394246	-91656	-10753	-62469	138030
Riverview	Buffer	4	-36097	7708	-67304	-121193	-29299	-79559	-125912	-76856	331669	-154232	-73330	-125046	75454
Canal System 2	Buffer	4	-111848	-68043	-143054	-196943	-105049	-155309	-201662	-152607	255919	-229983	-149081	-200796	-297

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1280 Silk 1	1281 Silk 1	1282 Silk 1	1283 Silk 1	1284 Silk 1	1285 Silk 1	1286 Silk 1	1287 Silk 1	1288 Silk 1	1289 Silk 1	1290 Silk 1	1291 Silk 1	1292 Silk 1
Start (E. Classic)			64290	154465	130122	71597	139593	111685	51163	119728	38446	123066	213929	109025	89072
Coyote	SIU	3	63003	153178	128835	70310	138306	110398	49876	118441	37159	121779	212642	107738	87785
Lehi	SIU	3	55350	145526	121183	62657	130653	102745	42224	110789	29506	114127	204989	100086	80133
Los Muertos	SIU	3	29732	119908	95565	37039	105035	77127	16606	85171	3888	88509	179372	74468	54515
Crismon	SIU	3	26366	116542	92199	33673	101669	73761	13240	81805	522	85143	176006	71102	51149
Scottsdale	SIU	3	23548	113724	89380	30855	98851	70943	10421	78987	-2296	82325	173187	68283	48331
Riverview	SIU	3	8810	98986	74643	16117	84113	56205	-4316	64249	-17034	67587	158450	53546	33593
Canal System 2	SIU	3	-10858	79318	54975	-3551	64445	36537	-23984	44581	-36702	47919	138782	33878	13925
Start (E. Classic)			64290	154465	130122	71597	139593	111685	51163	119728	38446	123066	213929	109025	89072
Coyote	Buffer	3	60778	150954	126611	68086	136082	108174	47652	116217	34935	119555	210418	105514	85561
Lehi	Buffer	3	32276	122452	98109	39584	107580	79672	19150	87715	6433	91053	181916	77012	57059
Los Muertos	Buffer	3	-20441	69735	45391	-13134	54862	26954	-33568	34998	-46285	38336	129198	24294	4342
Crismon	Buffer	3	-31830	58346	34003	-24522	43474	15566	-44956	23609	-57673	26947	117810	12906	-7047
Scottsdale	Buffer	3	-44594	45582	21239	-37286	30709	2801	-57720	10845	-70437	14183	105046	142	-19811
Riverview	Buffer	3	-91527	-1351	-25694	-84219	-16223	-44131	-104653	-36088	-117370	-32750	58113	-46791	-66744
Canal System 2	Buffer	3	-148339	-58164	-82507	-141032	-73036	-100944	-161466	-92900	-174183	-89562	1300	-103604	-123556
Start (E. Classic)			64290	154465	130122	71597	139593	111685	51163	119728	38446	123066	213929	109025	89072
Coyote	SIU	4	62574	152749	128406	69881	137877	109969	49447	118012	36730	121350	212213	107309	87356
Lehi	SIU	4	52370	142546	118203	59677	127673	99765	39244	107809	26526	111147	202010	97106	77153
Los Muertos	SIU	4	18213	108389	84045	25520	93516	65608	5086	73652	-7631	76990	167852	62948	42996
Crismon	SIU	4	13725	103901	79557	21032	89028	61120	598	69164	-12119	72502	163364	58460	38508
Scottsdale	SIU	4	9967	100143	75800	17275	85270	57362	-3159	65406	-15876	68744	159607	54703	34750
Riverview	SIU	4	-9683	80493	56149	-2376	65620	37712	-22810	45756	-35527	49094	139956	35052	15100
Canal System 2	SIU	4	-35907	54269	29925	-28600	39396	11488	-49034	19532	-61751	22870	113732	8828	-11124
Start (E. Classic)			64290	154465	130122	71597	139593	111685	51163	119728	38446	123066	213929	109025	89072
Coyote	Buffer	4	59608	149784	125441	66915	134911	107003	46482	115047	33764	118385	209248	104344	84391
Lehi	Buffer	4	21605	111781	87438	28913	96908	69000	8479	77044	-4238	80382	171245	66341	46388
Los Muertos	Buffer	4	-48685	41491	17148	-41377	26618	-1290	-61811	6754	-74528	10092	100955	-3949	-23902
Crismon	Buffer	4	-63869	26307	1963	-56562	11434	-16474	-76996	-8430	-89713	-5092	85770	-19134	-39086
Scottsdale	Buffer	4	-80888	9287	-15056	-73581	-5585	-33493	-94015	-25450	-106732	-22112	68751	-36153	-56106
Riverview	Buffer	4	-143465	-53289	-77633	-136158	-68162	-96070	-156592	-88026	-169309	-84688	6174	-98730	-118682
Canal System 2	Buffer	4	-219216	-129040	-153383	-211908	-143912	-171820	-232342	-163777	-245059	-160439	-69576	-174480	-194433

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1293 Silk 1	1294 Silk 1	1295 Silk 1	1296 Silk 1	1297 Silk 1	1298 Silk 1	1299 Silk 1	Total Deficits	1100 Plant 2	1101 Plant 2	1102 Plant 2	1103 Plant 2	1104 Plant 2
Start (E. Classic)			193398	109102	51319	211567	107901	331897	48847		58688	29344	43323	57807	35630
Coyote	SIU	3	192111	107815	50032	210280	106614	330610	47560	0	57401	28057	42036	56520	34343
Lehi	SIU	3	184458	100163	42380	202627	98961	322957	39907	0	49749	20405	34383	48867	26690
Los Muertos	SIU	3	158840	74545	16762	177009	73343	297339	14289	1	24131	-5213	8765	23249	1072
Crismon	SIU	3	155474	71179	13396	173643	69977	293973	10923	1	20765	-8579	5399	19883	-2294
Scottsdale	SIU	3	152656	68361	10577	170825	67159	291155	8105	2	17947	-11398	2581	17065	-5112
Riverview	SIU	3	137918	53623	-4160	156087	52421	276417	-6633	14	3209	-26135	-12157	2327	-19850
Canal System 2	SIU	3	118250	33955	-23828	136419	32753	256749	-26301	27	-16459	-45803	-31825	-17341	-39518
Start (E. Classic)			193398	109102	51319	211567	107901	331897	48847		58688	29344	43323	57807	35630
Coyote	Buffer	3	189887	105591	47808	208055	104389	328385	45336	0	55177	25833	39812	54296	32119
Lehi	Buffer	3	161385	77089	19306	179553	75887	299883	16834	0	26675	-2669	11310	25793	3616
Los Muertos	Buffer	3	108667	24372	-33412	126836	23170	247166	-35884	35	-26042	-55387	-41408	-26924	-49101
Crismon	Buffer	3	97279	12983	-44800	115448	11782	235778	-47272	54	-37431	-66775	-52796	-38312	-60489
Scottsdale	Buffer	3	84514	219	-57564	102683	-983	223013	-60036	71	-50195	-79539	-65561	-51077	-73254
Riverview	Buffer	3	37582	-46714	-104497	55751	-47915	176081	-106969	136	-97128	-126472	-112493	-98009	-120186
Canal System 2	Buffer	3	-19231	-103526	-161310	-1062	-104728	119268	-163782	179	-153940	-183285	-169306	-154822	-176999
Start (E. Classic)			193398	109102	51319	211567	107901	331897	48847		58688	29344	43323	57807	35630
Coyote	SIU	4	191682	107386	49603	209851	106185	330181	47131	0	56972	27628	41607	56091	33914
Lehi	SIU	4	181478	97183	39400	199647	95981	319977	36927	0	46769	17425	31403	45887	23710
Los Muertos	SIU	4	147321	63026	5242	165490	61824	285820	2770	4	12612	-16733	-2754	11730	-10447
Crismon	SIU	4	142833	58538	754	161002	57336	281332	-1718	7	8124	-21221	-7242	7242	-14935
Scottsdale	SIU	4	139076	54780	-3003	157244	53578	277574	-5475	12	4366	-24978	-11000	3484	-18693
Riverview	SIU	4	119425	35130	-22654	137594	33928	257924	-25126	25	-15284	-44629	-30650	-16166	-38343
Canal System 2	SIU	4	93201	8906	-48878	111370	7704	231700	-51350	57	-41508	-70853	-56874	-42390	-64567
Start (E. Classic)			193398	109102	51319	211567	107901	331897	48847		58688	29344	43323	57807	35630
Coyote	Buffer	4	188716	104421	46638	206885	103219	327215	44165	0	54007	24663	38641	53125	30948
Lehi	Buffer	4	150714	66418	8635	168882	65216	289212	6163	3	16004	-13340	638	15122	-7055
Los Muertos	Buffer	4	80424	-3872	-61655	98592	-5074	218922	-64127	81	-54286	-83630	-69652	-55168	-77345
Crismon	Buffer	4	65239	-19056	-76840	83408	-20258	203738	-79312	99	-69470	-98815	-84836	-70352	-92529
Scottsdale	Buffer	4	48220	-36076	-93859	66389	-37277	186719	-96331	120	-86490	-115834	-101855	-87371	-109548
Riverview	Buffer	4	-14357	-98652	-156436	3812	-99854	124142	-158908	174	-149066	-178411	-164432	-149948	-172125
Canal System 2	Buffer	4	-90107	-174403	-232186	-71939	-175605	48391	-234658	196	-224817	-254161	-240182	-225698	-247875

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1105 Plant 2	1106 Plant 2	1107 Plant 2	1108 Plant 2	1109 Plant 2	1110 Plant 2	1111 Plant 2	1112 Plant 2	1113 Plant 2	1114 Plant 2	1115 Plant 2	1116 Plant 2	1117 Plant 2
Start (E. Classic)			84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048	51336	59874
Coyote	SIU	3	83193	39153	26789	37906	57200	43139	43181	51559	32234	74907	53761	50049	58587
Lehi	SIU	3	75540	31501	19136	30253	49548	35487	35528	43907	24581	67254	46108	42396	50935
Los Muertos	SIU	3	49922	5883	-6482	4635	23930	9869	9910	18289	-1037	41636	20491	16778	25317
Crismon	SIU	3	46556	2517	-9848	1269	20564	6503	6544	14923	-4403	38270	17125	13412	21951
Scottsdale	SIU	3	43738	-301	-12666	-1549	17746	3684	3726	12105	-7221	35452	14306	10594	19133
Riverview	SIU	3	29000	-15039	-27404	-16287	3008	-11053	-11012	-2633	-21959	20714	-431	-4144	4395
Canal System 2	SIU	3	9332	-34707	-47072	-35955	-16660	-30721	-30680	-22301	-41627	1046	-20099	-23812	-15273
Start (E. Classic)			84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048	51336	59874
Coyote	Buffer	3	80969	36929	24565	35681	54976	40915	40956	49335	30010	72683	51537	47824	56363
Lehi	Buffer	3	52467	8427	-3938	7179	26474	12413	12454	20833	1508	44181	23035	19322	27861
Los Muertos	Buffer	3	-251	-44290	-56655	-45538	-26243	-40305	-40263	-31884	-51210	-8537	-29683	-33395	-24856
Crismon	Buffer	3	-11639	-55679	-68043	-56926	-37632	-51693	-51652	-43273	-62598	-19925	-41071	-44783	-36245
Scottsdale	Buffer	3	-24403	-68443	-80808	-69691	-50396	-64457	-64416	-56037	-75363	-32690	-53835	-57548	-49009
Riverview	Buffer	3	-71336	-115376	-127740	-116623	-97329	-111390	-111349	-102970	-122295	-79622	-100768	-104480	-95942
Canal System 2	Buffer	3	-128149	-172188	-184553	-173436	-154142	-168203	-168161	-159782	-179108	-136435	-157581	-161293	-152754
Start (E. Classic)			84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048	51336	59874
Coyote	SIU	4	82764	38724	26360	37477	56771	42710	42752	51130	31805	74478	53332	49620	58158
Lehi	SIU	4	72560	28521	16156	27273	46568	32507	32548	40927	21601	64274	43129	39416	47955
Los Muertos	SIU	4	38403	-5636	-18001	-6884	12411	-1651	-1609	6770	-12556	30117	8971	5259	13798
Crismon	SIU	4	33915	-10124	-22489	-11372	7923	-6139	-6097	2282	-17044	25629	4483	771	9310
Scottsdale	SIU	4	30158	-13882	-26247	-15130	4165	-9896	-9855	-1476	-20802	21872	726	-2987	5552
Riverview	SIU	4	10507	-33532	-45897	-34780	-15485	-29547	-29505	-21126	-40452	2221	-18925	-22637	-14098
Canal System 2	SIU	4	-15717	-59756	-72121	-61004	-41709	-55771	-55729	-47350	-66676	-24003	-45149	-48861	-40322
Start (E. Classic)			84480	40440	28076	39193	58487	44426	44468	52846	33521	76194	55048	51336	59874
Coyote	Buffer	4	79798	35759	23394	34511	53806	39745	39786	48165	28839	71512	50367	46654	55193
Lehi	Buffer	4	41796	-2244	-14609	-3492	15803	1742	1783	10162	-9164	33510	12364	8651	17190
Los Muertos	Buffer	4	-28494	-72534	-84899	-73782	-54487	-68548	-68507	-60128	-79454	-36780	-57926	-61639	-53100
Crismon	Buffer	4	-43679	-87718	-100083	-88966	-69671	-83733	-83691	-75312	-94638	-51965	-73111	-76823	-68284
Scottsdale	Buffer	4	-60698	-104738	-117102	-105985	-86691	-100752	-100710	-92332	-111657	-68984	-90130	-93842	-85304
Riverview	Buffer	4	-123275	-167314	-179679	-168562	-149267	-163329	-163287	-154908	-174234	-131561	-152707	-156419	-147880
Canal System 2	Buffer	4	-199025	-243065	-255429	-244313	-225018	-239079	-239038	-230659	-249984	-207311	-228457	-232170	-223631

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1118 Plant 2	1119 Plant 2	1120 Plant 2	1121 Plant 2	1122 Plant 2	1123 Plant 2	1124 Plant 2	1125 Plant 2	1126 Plant 2	1127 Plant 2	1128 Plant 2	1129 Plant 2	1130 Plant 2
Start (E. Classic)			43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794	53274
Coyote	SIU	3	42350	58897	26980	29032	77320	38983	55772	39917	43531	71478	54292	98507	51987
Lehi	SIU	3	34698	51244	19327	21379	69667	31331	48119	32264	35878	63825	46640	90854	44335
Los Muertos	SIU	3	9080	25626	-6291	-4239	44049	5713	22501	6646	10261	38207	21022	65237	18717
Crismon	SIU	3	5714	22260	-9657	-7605	40683	2347	19135	3280	6895	34841	17656	61871	15351
Scottsdale	SIU	3	2896	19442	-12475	-10423	37865	-471	16317	462	4076	32023	14837	59052	12533
Riverview	SIU	3	-11842	4704	-27213	-25161	23127	-15209	1579	-14276	-10661	17285	100	44315	-2205
Canal System 2	SIU	3	-31510	-14964	-46881	-44829	3459	-34877	-18089	-33944	-30329	-2383	-19568	24647	-21873
Start (E. Classic)			43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794	53274
Coyote	Buffer	3	40126	56673	24755	26808	75096	36759	53548	37692	41307	69254	52068	96283	49763
Lehi	Buffer	3	11624	28170	-3747	-1695	46594	8257	25046	9190	12805	40752	23566	67781	21261
Los Muertos	Buffer	3	-41093	-24547	-56464	-54412	-6124	-44460	-27672	-43527	-39913	-11966	-29152	15063	-31456
Crismon	Buffer	3	-52482	-35935	-67853	-65800	-17512	-55849	-39060	-54915	-51301	-23354	-40540	3675	-42845
Scottsdale	Buffer	3	-65246	-48700	-80617	-78565	-30276	-68613	-51824	-67680	-64065	-36118	-53304	-9089	-55609
Riverview	Buffer	3	-112179	-95632	-127550	-125497	-77209	-115546	-98757	-114612	-110998	-83051	-100237	-56022	-102542
Canal System 2	Buffer	3	-168992	-152445	-184362	-182310	-134022	-172359	-155570	-171425	-167811	-139864	-157050	-112835	-159354
Start (E. Classic)			43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794	53274
Coyote	SIU	4	41921	58468	26551	28603	76891	38554	55343	39488	43102	71049	53863	98078	51558
Lehi	SIU	4	31718	48264	16347	18399	66687	28351	45139	29284	32899	60845	43660	87875	41355
Los Muertos	SIU	4	-2439	14107	-17810	-15758	32530	-5806	10982	-4873	-1259	26688	9502	53717	7198
Crismon	SIU	4	-6927	9619	-22298	-20246	28042	-10294	6494	-9361	-5747	22200	5014	49229	2710
Scottsdale	SIU	4	-10685	5861	-26056	-24004	24285	-14052	2737	-13119	-9504	18443	1257	45472	-1048
Riverview	SIU	4	-30335	-13789	-45706	-43654	4634	-33702	-16914	-32769	-29155	-1208	-18394	25821	-20698
Canal System 2	SIU	4	-56559	-40013	-71930	-69878	-21590	-59926	-43138	-58993	-55379	-27432	-44618	-403	-46922
Start (E. Classic)			43637	60184	28267	30319	78607	40270	57059	41204	44818	72765	55579	99794	53274
Coyote	Buffer	4	38956	55502	23585	25637	73925	35589	52377	36522	40137	68083	50898	95113	48593
Lehi	Buffer	4	953	17499	-14418	-12366	35923	-2414	14375	-1481	2134	30081	12895	57110	10590
Los Muertos	Buffer	4	-69337	-52791	-84708	-82656	-34367	-72704	-55915	-71771	-68156	-40209	-57395	-13180	-59700
Crismon	Buffer	4	-84521	-67975	-99892	-97840	-49552	-87888	-71100	-86955	-83341	-55394	-72580	-28365	-74884
Scottsdale	Buffer	4	-101541	-84994	-116911	-114859	-66571	-104908	-88119	-103974	-100360	-72413	-89599	-45384	-91904
Riverview	Buffer	4	-164117	-147571	-179488	-177436	-129148	-167484	-150696	-166551	-162937	-134990	-152176	-107961	-154480
Canal System 2	Buffer	4	-239868	-223321	-255239	-253186	-204898	-243235	-226446	-242302	-238687	-210740	-227926	-183711	-230231

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1131 Plant 2	1132 Plant 2	1133 Plant 2	1134 Plant 2	1135 Plant 2	1136 Plant 2	1137 Plant 2	1138 Plant 2	1139 Plant 2	1140 Plant 2	1141 Plant 2	1142 Plant 2	1143 Plant 2
Start (E. Classic)			27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	SIU	3	26381	33672	23081	37421	41066	44490	30553	49806	54339	31780	58902	31141	38741
Lehi	SIU	3	18729	26020	15429	29768	33414	36838	22900	42154	46686	24127	51249	23488	31088
Los Muertos	SIU	3	-6889	402	-10189	4150	7796	11220	-2718	16536	21068	-1491	25631	-2130	5470
Crismon	SIU	3	-10255	-2964	-13555	784	4430	7854	-6084	13170	17702	-4857	22265	-5496	2104
Scottsdale	SIU	3	-13073	-5782	-16373	-2034	1612	5035	-8902	10352	14884	-7675	19447	-8314	-714
Riverview	SIU	3	-27811	-20520	-31111	-16772	-13126	-9702	-23640	-4386	146	-22413	4709	-23052	-15452
Canal System 2	SIU	3	-47479	-40188	-50779	-36440	-32794	-29370	-43308	-24054	-19522	-42081	-14959	-42720	-35120
Start (E. Classic)			27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	Buffer	3	24157	31448	20857	35197	38842	42266	28329	47582	52114	29556	56678	28916	36517
Lehi	Buffer	3	-4345	2946	-7645	6695	10340	13764	-173	19080	23612	1054	28176	414	8015
Los Muertos	Buffer	3	-57062	-49771	-60362	-46023	-42377	-38954	-52891	-33637	-29105	-51664	-24542	-52303	-44703
Crismon	Buffer	3	-68451	-61160	-71751	-57411	-53766	-50342	-64279	-45026	-40493	-63052	-35930	-63691	-56091
Scottsdale	Buffer	3	-81215	-73924	-84515	-70176	-66530	-63106	-77044	-57790	-53258	-75816	-48695	-76456	-68856
Riverview	Buffer	3	-128148	-120857	-131448	-117108	-113463	-110039	-123976	-104723	-100190	-122749	-95627	-123388	-115788
Canal System 2	Buffer	3	-184960	-177670	-188260	-173921	-170275	-166852	-180789	-161536	-157003	-179562	-152440	-180201	-172601
Start (E. Classic)			27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	SIU	4	25952	33243	22652	36992	40637	44061	30124	49377	53910	31351	58473	30712	38312
Lehi	SIU	4	15749	23040	12449	26788	30434	33858	19920	39174	43706	21147	48269	20508	28108
Los Muertos	SIU	4	-18408	-11117	-21708	-7369	-3723	-300	-14237	5017	9549	-13010	14112	-13649	-6049
Crismon	SIU	4	-22896	-15605	-26196	-11857	-8211	-4788	-18725	529	5061	-17498	9624	-18137	-10537
Scottsdale	SIU	4	-26654	-19363	-29954	-15614	-11969	-8545	-22483	-3229	1303	-21255	5867	-21895	-14294
Riverview	SIU	4	-46304	-39013	-49604	-35265	-31619	-28196	-42133	-22879	-18347	-40906	-13784	-41545	-33945
Canal System 2	SIU	4	-72528	-65237	-75828	-61489	-57843	-54420	-68357	-49103	-44571	-67130	-40008	-67769	-60169
Start (E. Classic)			27668	34959	24368	38708	42353	45777	31840	51093	55626	33067	60189	32428	40028
Coyote	Buffer	4	22987	30278	19687	34026	37672	41096	27158	46412	50944	28385	55507	27746	35346
Lehi	Buffer	4	-15016	-7725	-18316	-3976	-331	3093	-10845	8409	12941	-9617	17505	-10257	-2656
Los Muertos	Buffer	4	-85306	-78015	-88606	-74266	-70621	-67197	-81135	-61881	-57349	-79907	-52785	-80547	-72946
Crismon	Buffer	4	-100490	-93199	-103790	-89451	-85805	-82382	-96319	-77065	-72533	-95092	-67970	-95731	-88131
Scottsdale	Buffer	4	-117510	-110219	-120810	-106470	-102825	-99401	-113338	-94085	-89552	-112111	-84989	-112750	-105150
Riverview	Buffer	4	-180086	-172795	-183386	-169047	-165401	-161978	-175915	-156661	-152129	-174688	-147566	-175327	-167727
Canal System 2	Buffer	4	-255837	-248546	-259137	-244797	-241152	-237728	-251665	-232412	-227880	-250438	-223316	-251078	-243477

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1144 Plant 2	1145 Plant 2	1146 Plant 2	1147 Plant 2	1148 Plant 2	1149 Plant 2	1150 Plant 2	1151 Plant 2	1152 Plant 2	1153 Plant 2	1154 Plant 2	1155 Plant 2	1156 Plant 2
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012
Coyote	SIU	3	54334	53519	18936	82677	47656	59933	17203	38535	59237	56834	61985	61691	20725
Lehi	SIU	3	46681	45866	11283	75025	40003	52280	9551	30882	51584	49182	54333	54039	13072
Los Muertos	SIU	3	21063	20248	-14335	49407	14386	26663	-16067	5264	25967	23564	28715	28421	-12546
Crismon	SIU	3	17697	16882	-17701	46041	11020	23297	-19433	1898	22601	20198	25349	25055	-15912
Scottsdale	SIU	3	14879	14064	-20519	43223	8201	20478	-22251	-920	19782	17379	22531	22237	-18730
Riverview	SIU	3	141	-674	-35257	28485	-6536	5741	-36989	-15658	5045	2642	7793	7499	-33468
Canal System 2	SIU	3	-19527	-20342	-54925	8817	-26204	-13927	-56657	-35326	-14623	-17026	-11875	-12169	-53136
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012
Coyote	Buffer	3	52109	51295	16712	80453	45432	57709	14979	36311	57013	54610	59761	59467	18501
Lehi	Buffer	3	23607	22793	-11790	51951	16930	29207	-13523	7808	28511	26108	31259	30965	-10001
Los Muertos	Buffer	3	-29110	-29925	-64508	-766	-35788	-23511	-66240	-44909	-24207	-26610	-21458	-21752	-62719
Crismon	Buffer	3	-40499	-41313	-75896	-12155	-47176	-34899	-77629	-56297	-35595	-37998	-32847	-33141	-74107
Scottsdale	Buffer	3	-53263	-54078	-88661	-24919	-59940	-47663	-90393	-69062	-48359	-50762	-45611	-45905	-86871
Riverview	Buffer	3	-100196	-101010	-135593	-71852	-106873	-94596	-137326	-115994	-95292	-97695	-92544	-92838	-133804
Canal System 2	Buffer	3	-157008	-157823	-192406	-128664	-163686	-151409	-194139	-172807	-152105	-154508	-149357	-149650	-190617
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012
Coyote	SIU	4	53905	53090	18507	82248	47227	59504	16774	38106	58808	56405	61556	61262	20296
Lehi	SIU	4	43701	42886	8303	72045	37024	49301	6571	27902	48605	46202	51353	51059	10092
Los Muertos	SIU	4	9544	8729	-25854	37888	2866	15143	-27586	-6255	14447	12044	17196	16902	-24065
Crismon	SIU	4	5056	4241	-30342	33400	-1622	10655	-32074	-10743	9959	7556	12708	12414	-28553
Scottsdale	SIU	4	1298	483	-34100	29642	-5379	6898	-35832	-14501	6202	3799	8950	8656	-32310
Riverview	SIU	4	-18352	-19167	-53750	9992	-25030	-12753	-55482	-34151	-13449	-15852	-10700	-10994	-51961
Canal System 2	SIU	4	-44576	-45391	-79974	-16232	-51254	-38977	-81706	-60375	-39673	-42076	-36924	-37218	-78185
Start (E. Classic)			55621	54806	20223	83964	48943	61220	18490	39822	60524	58121	63272	62978	22012
Coyote	Buffer	4	50939	50124	15541	79283	44262	56539	13809	35140	55843	53440	58591	58297	17330
Lehi	Buffer	4	12936	12121	-22462	41280	6259	18536	-24194	-2863	17840	15437	20588	20294	-20672
Los Muertos	Buffer	4	-57354	-58169	-92752	-29010	-64031	-51754	-94484	-73153	-52450	-54853	-49702	-49996	-90962
Crismon	Buffer	4	-72538	-73353	-107936	-44194	-79216	-66939	-109668	-88337	-67635	-70038	-64886	-65180	-106147
Scottsdale	Buffer	4	-89557	-90372	-124955	-61214	-96235	-83958	-126688	-105356	-84654	-87057	-81906	-82200	-123166
Riverview	Buffer	4	-152134	-152949	-187532	-123790	-158812	-146535	-189264	-167933	-147231	-149634	-144482	-144776	-185743
Canal System 2	Buffer	4	-227885	-228699	-263282	-199541	-234562	-222285	-265015	-243683	-222981	-225384	-220233	-220527	-261493

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1157 Plant 2	1158 Plant 2	1159 Plant 2	1160 Plant 2	1161 Plant 2	1162 Plant 2	1163 Plant 2	1164 Plant 2	1165 Plant 2	1166 Plant 2	1167 Plant 2	1168 Plant 2	1169 Plant 2
Start (E. Classic)			56966	22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488
Coyote	SIU	3	55679	20813	54014	55133	28377	76335	62599	36936	66172	39525	65481	16703	26201
Lehi	SIU	3	48027	13160	46361	47480	20724	68683	54946	29284	58520	31872	57829	9050	18548
Los Muertos	SIU	3	22409	-12458	20743	21862	-4894	43065	29328	3666	32902	6254	32211	-16567	-7070
Crismon	SIU	3	19043	-15824	17377	18496	-8260	39699	25962	300	29536	2888	28845	-19933	-10436
Scottsdale	SIU	3	16224	-18642	14559	15678	-11078	36880	23144	-2518	26717	70	26027	-22752	-13254
Riverview	SIU	3	1487	-33380	-179	940	-25816	22143	8406	-17256	11980	-14668	11289	-37489	-27992
Canal System 2	SIU	3	-18181	-53048	-19847	-18728	-45484	2475	-11262	-36924	-7688	-34336	-8379	-57157	-47660
Start (E. Classic)			56966	22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488
Coyote	Buffer	3	53455	18589	51790	52909	26153	74111	60375	34712	63948	37301	63257	14479	23977
Lehi	Buffer	3	24953	-9914	23288	24406	-2349	45609	31873	6210	35446	8798	34755	-14023	-4525
Los Muertos	Buffer	3	-27765	-62631	-29430	-28311	-55067	-7109	-20845	-46507	-17272	-43919	-17962	-66741	-57243
Crismon	Buffer	3	-39153	-74019	-40818	-39699	-66455	-18497	-32233	-57896	-28660	-55307	-29351	-78129	-68631
Scottsdale	Buffer	3	-51917	-86784	-53583	-52464	-79220	-31261	-44998	-70660	-41424	-68072	-42115	-90893	-81396
Riverview	Buffer	3	-98850	-133716	-100515	-99396	-126152	-78194	-91930	-117593	-88357	-115004	-89048	-137826	-128328
Canal System 2	Buffer	3	-155663	-190529	-157328	-156209	-182965	-135007	-148743	-174406	-145170	-171817	-145861	-194639	-185141
Start (E. Classic)			56966	22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488
Coyote	SIU	4	55250	20384	53585	54704	27948	75906	62170	36507	65743	39096	65052	16274	25772
Lehi	SIU	4	45047	10180	43381	44500	17744	65703	51966	26304	55540	28892	54849	6071	15568
Los Muertos	SIU	4	10889	-23977	9224	10343	-16413	31545	17809	-7853	21382	-5265	20692	-28087	-18589
Crismon	SIU	4	6401	-28465	4736	5855	-20901	27057	13321	-12341	16894	-9753	16204	-32575	-23077
Scottsdale	SIU	4	2644	-32223	978	2097	-24658	23300	9564	-16099	13137	-13511	12446	-36332	-26834
Riverview	SIU	4	-17007	-51873	-18672	-17553	-44309	3649	-10087	-35749	-6514	-33161	-7204	-55983	-46485
Canal System 2	SIU	4	-43231	-78097	-44896	-43777	-70533	-22575	-36311	-61973	-32738	-59385	-33428	-82207	-72709
Start (E. Classic)			56966	22100	55301	56420	29664	77622	63886	38223	67459	40812	66768	17990	27488
Coyote	Buffer	4	52285	17418	50619	51738	24982	72941	59204	33542	62778	36130	62087	13309	22806
Lehi	Buffer	4	14282	-20585	12616	13735	-13020	34938	21202	-4461	24775	-1873	24084	-24694	-15196
Los Muertos	Buffer	4	-56008	-90875	-57674	-56555	-83310	-35352	-49088	-74751	-45515	-72163	-46206	-94984	-85486
Crismon	Buffer	4	-71193	-106059	-72858	-71739	-98495	-50537	-64273	-89935	-60700	-87347	-61390	-110169	-100671
Scottsdale	Buffer	4	-88212	-123078	-89877	-88758	-115514	-67556	-81292	-106955	-77719	-104366	-78410	-127188	-117690
Riverview	Buffer	4	-150789	-185655	-152454	-151335	-178091	-130133	-143869	-169531	-140296	-166943	-140986	-189765	-180267
Canal System 2	Buffer	4	-226539	-261405	-228204	-227085	-253841	-205883	-219619	-245282	-216046	-242693	-216737	-265515	-256017

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1170 Plant 2	1171 Plant 2	1172 Plant 2	1173 Plant 2	1174 Plant 2	1175 Plant 2	1176 Plant 2	1177 Plant 2	1178 Plant 2	1179 Plant 2	1180 Plant 2	1181 Plant 2	1182 Plant 2
Start (E. Classic)			41255	60921	65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038
Coyote	SIU	3	39968	59634	63847	76944	36978	18926	36070	24231	61691	33456	56829	64151	20751
Lehi	SIU	3	32315	51981	56194	69291	29325	11273	28417	16579	54039	25803	49176	56498	13098
Los Muertos	SIU	3	6698	26364	30576	43673	3707	-14345	2799	-9039	28421	185	23559	30880	-12520
Crismon	SIU	3	3332	22998	27210	40307	341	-17711	-567	-12405	25055	-3181	20193	27514	-15886
Scottsdale	SIU	3	513	20179	24392	37489	-2477	-20529	-3385	-15224	22237	-5999	17374	24696	-18704
Riverview	SIU	3	-14224	5442	9654	22751	-17215	-35267	-18123	-29961	7499	-20737	2637	9958	-33442
Canal System 2	SIU	3	-33892	-14226	-10014	3083	-36883	-54935	-37791	-49629	-12169	-40405	-17031	-9710	-53110
Start (E. Classic)			41255	60921	65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038
Coyote	Buffer	3	37744	57410	61623	74719	34753	16701	33846	22007	59467	31232	54605	61927	18527
Lehi	Buffer	3	9242	28908	33120	46217	6251	-11801	5344	-6495	30965	2730	26103	33425	-9975
Los Muertos	Buffer	3	-43476	-23810	-19597	-6500	-46466	-64518	-47374	-59213	-21752	-49988	-26615	-19293	-62693
Crismon	Buffer	3	-54864	-35198	-30985	-17888	-57855	-75907	-58762	-70601	-33141	-61376	-38003	-30681	-74081
Scottsdale	Buffer	3	-67628	-47962	-43750	-30653	-70619	-88671	-71526	-83365	-45905	-74141	-50767	-43445	-86846
Riverview	Buffer	3	-114561	-94895	-90682	-77585	-117552	-135604	-118459	-130298	-92838	-121073	-97700	-90378	-133778
Canal System 2	Buffer	3	-171374	-151708	-147495	-134398	-174364	-192416	-175272	-187111	-149650	-177886	-154513	-147191	-190591
Start (E. Classic)			41255	60921	65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038
Coyote	SIU	4	39539	59205	63418	76515	36549	18497	35641	23802	61262	33027	56400	63722	20322
Lehi	SIU	4	29336	49002	53214	66311	26345	8293	25437	13599	51059	22823	46197	53518	10118
Los Muertos	SIU	4	-4822	14844	19057	32154	-7812	-25864	-8720	-20559	16902	-11334	12039	19361	-24039
Crismon	SIU	4	-9310	10356	14569	27666	-12300	-30352	-13208	-25047	12414	-15822	7551	14873	-28527
Scottsdale	SIU	4	-13067	6599	10811	23908	-16058	-34110	-16965	-28804	8656	-19580	3794	11116	-32285
Riverview	SIU	4	-32718	-13052	-8839	4258	-35708	-53760	-36616	-48455	-10994	-39230	-15857	-8535	-51935
Canal System 2	SIU	4	-58942	-39276	-35063	-21966	-61932	-79984	-62840	-74679	-37218	-65454	-42081	-34759	-78159
Start (E. Classic)			41255	60921	65134	78231	38265	20213	37357	25518	62978	34743	58116	65438	22038
Coyote	Buffer	4	36574	56240	60452	73549	33583	15531	32675	20837	58297	30061	53435	60756	17356
Lehi	Buffer	4	-1429	18237	22449	35546	-4420	-22472	-5327	-17166	20294	-7942	15432	22754	-20647
Los Muertos	Buffer	4	-71719	-52053	-47841	-34744	-74710	-92762	-75617	-87456	-49996	-78232	-54858	-47536	-90937
Crismon	Buffer	4	-86904	-67238	-63025	-49928	-89894	-107946	-90802	-102641	-65180	-93416	-70043	-62721	-106121
Scottsdale	Buffer	4	-103923	-84257	-80044	-66947	-106913	-124965	-107821	-119660	-82200	-110435	-87062	-79740	-123140
Riverview	Buffer	4	-166500	-146834	-142621	-129524	-169490	-187542	-170398	-182237	-144776	-173012	-149639	-142317	-185717
Canal System 2	Buffer	4	-242250	-222584	-218371	-205275	-245241	-263293	-246148	-257987	-220527	-248762	-225389	-218067	-261467

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1183 Plant 2	1184 Plant 2	1185 Plant 2	1186 Plant 2	1187 Plant 2	1188 Plant 2	1189 Plant 2	1190 Plant 2	1191 Plant 2	1192 Plant 2	1193 Plant 2	1194 Plant 2	1195 Plant 2
Start (E. Classic)			58647	80185	42503	31381	63571	44127	39316	68955	41482	31943	32490	42240	65397
Coyote	SIU	3	57360	78898	41216	30094	62284	42840	38029	67668	40195	30656	31203	40953	64110
Lehi	SIU	3	49708	71245	33563	22441	54632	35188	30377	60015	32542	23003	23550	33300	56457
Los Muertos	SIU	3	24090	45627	7945	-3177	29014	9570	4759	34397	6924	-2615	-2068	7682	30839
Crismon	SIU	3	20724	42261	4579	-6543	25648	6204	1393	31031	3558	-5981	-5434	4316	27473
Scottsdale	SIU	3	17905	39443	1761	-9361	22830	3385	-1425	28213	740	-8799	-8252	1498	24655
Riverview	SIU	3	3168	24705	-12977	-24099	8092	-11352	-16163	13475	-13998	-23537	-22990	-13240	9917
Canal System 2	SIU	3	-16500	5037	-32645	-43767	-11576	-31020	-35831	-6193	-33666	-43205	-42658	-32908	-9751
Start (E. Classic)			58647	80185	42503	31381	63571	44127	39316	68955	41482	31943	32490	42240	65397
Coyote	Buffer	3	55136	76674	38992	27870	60060	40616	35805	65443	37971	28432	28978	38729	61886
Lehi	Buffer	3	26634	48172	10490	-632	31558	12114	7303	36941	9469	-70	476	10227	33383
Los Muertos	Buffer	3	-26084	-4546	-42228	-53350	-21159	-40604	-45414	-15776	-43249	-52788	-52241	-42491	-19334
Crismon	Buffer	3	-37472	-15934	-53616	-64738	-32548	-51992	-56803	-27165	-54637	-64176	-63630	-53879	-30722
Scottsdale	Buffer	3	-50236	-28699	-66381	-77503	-45312	-64756	-69567	-39929	-67401	-76941	-76394	-66643	-43487
Riverview	Buffer	3	-97169	-75631	-113313	-124435	-92245	-111689	-116500	-86862	-114334	-123873	-123327	-113576	-90419
Canal System 2	Buffer	3	-153982	-132444	-170126	-181248	-149057	-168502	-173312	-143674	-171147	-180686	-180139	-170389	-147232
Start (E. Classic)			58647	80185	42503	31381	63571	44127	39316	68955	41482	31943	32490	42240	65397
Coyote	SIU	4	56931	78469	40787	29665	61855	42411	37600	67239	39766	30227	30774	40524	63681
Lehi	SIU	4	46728	68265	30583	19461	51652	32208	27397	57035	29562	20023	20570	30320	53477
Los Muertos	SIU	4	12570	34108	-3574	-14696	17495	-1950	-6760	22878	-4595	-14134	-13587	-3837	19320
Crismon	SIU	4	8082	29620	-8062	-19184	13007	-6438	-11248	18390	-9083	-18622	-18075	-8325	14832
Scottsdale	SIU	4	4325	25862	-11819	-22941	9249	-10195	-15006	14632	-12840	-22379	-21833	-12082	11074
Riverview	SIU	4	-15326	6212	-31470	-42592	-10401	-29846	-34656	-5018	-32491	-42030	-41483	-31733	-8576
Canal System 2	SIU	4	-41550	-20012	-57694	-68816	-36625	-56070	-60880	-31242	-58715	-68254	-67707	-57957	-34800
Start (E. Classic)			58647	80185	42503	31381	63571	44127	39316	68955	41482	31943	32490	42240	65397
Coyote	Buffer	4	53966	75503	37821	26699	58890	39446	34635	64273	36800	27261	27808	37558	60715
Lehi	Buffer	4	15963	37500	-181	-11303	20887	1443	-3368	26270	-1202	-10741	-10195	-444	22712
Los Muertos	Buffer	4	-54327	-32790	-70471	-81593	-49403	-68847	-73658	-44020	-71492	-81031	-80485	-70734	-47578
Crismon	Buffer	4	-69512	-47974	-85656	-96778	-64587	-84032	-88842	-59204	-86677	-96216	-95669	-85919	-62762
Scottsdale	Buffer	4	-86531	-64993	-102675	-113797	-81607	-101051	-105862	-76223	-103696	-113235	-112688	-102938	-79781
Riverview	Buffer	4	-149108	-127570	-165252	-176374	-144183	-163628	-168438	-138800	-166273	-175812	-175265	-165515	-142358
Canal System 2	Buffer	4	-224858	-203320	-241002	-252124	-219934	-239378	-244189	-214551	-242023	-251562	-251016	-241265	-218108

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1196 Plant 2	1197 Plant 2	1198 Plant 2	1199 Plant 2	1200 Plant 2	1201 Plant 2	1202 Plant 2	1203 Plant 2	1204 Plant 2	1205 Plant 2	1206 Plant 2	1207 Plant 2	1208 Plant 2
Start (E. Classic)			53821	86656	38775	33946	112356	92938	77426	52169	51574	33584	36354	52617	40050
Coyote	SIU	3	52534	85369	37488	32659	111069	91651	76139	50882	50287	32297	35067	51330	38763
Lehi	SIU	3	44881	77716	29835	25007	103417	83998	68486	43230	42634	24644	27414	43678	31111
Los Muertos	SIU	3	19263	52098	4217	-611	77799	58381	42868	17612	17016	-974	1796	18060	5493
Crismon	SIU	3	15897	48732	851	-3977	74433	55015	39502	14246	13650	-4340	-1570	14694	2127
Scottsdale	SIU	3	13079	45914	-1967	-6795	71615	52196	36684	11428	10832	-7158	-4388	11876	-691
Riverview	SIU	3	-1659	31176	-16705	-21533	56877	37459	21946	-3310	-3906	-21896	-19126	-2862	-15429
Canal System 2	SIU	3	-21327	11508	-36373	-41201	37209	17791	2278	-22978	-23574	-41564	-38794	-22530	-35097
Start (E. Classic)			53821	86656	38775	33946	112356	92938	77426	52169	51574	33584	36354	52617	40050
Coyote	Buffer	3	50310	83145	35264	30435	108845	89427	73915	48658	48063	30073	32842	49106	36539
Lehi	Buffer	3	21808	54643	6762	1933	80343	60925	45413	20156	19560	1571	4340	20604	8037
Los Muertos	Buffer	3	-30910	1925	-45956	-50784	27626	8207	-7305	-32561	-33157	-51147	-48377	-32113	-44680
Crismon	Buffer	3	-42298	-9463	-57344	-62173	16237	-3181	-18693	-43950	-44545	-62535	-59765	-43502	-56069
Scottsdale	Buffer	3	-55063	-22228	-70108	-74937	3473	-15945	-31458	-56714	-57310	-75299	-72530	-56266	-68833
Riverview	Buffer	3	-101995	-69160	-117041	-121870	-43460	-62878	-78390	-103647	-104242	-122232	-119462	-103199	-115766
Canal System 2	Buffer	3	-158808	-125973	-173854	-178682	-100272	-119691	-135203	-160459	-161055	-179045	-176275	-160011	-172578
Start (E. Classic)			53821	86656	38775	33946	112356	92938	77426	52169	51574	33584	36354	52617	40050
Coyote	SIU	4	52105	84940	37059	32230	110640	91222	75710	50453	49858	31868	34638	50901	38334
Lehi	SIU	4	41901	74736	26855	22027	100437	81019	65506	40250	39654	21664	24434	40698	28131
Los Muertos	SIU	4	7744	40579	-7302	-12130	66280	46861	31349	6093	5497	-12493	-9723	6541	-6026
Crismon	SIU	4	3256	36091	-11790	-16618	61792	42373	26861	1605	1009	-16981	-14211	2053	-10514
Scottsdale	SIU	4	-501	32334	-15547	-20376	58034	38616	23103	-2153	-2749	-20738	-17969	-1705	-14272
Riverview	SIU	4	-20152	12683	-35198	-40026	38384	18965	3453	-21803	-22399	-40389	-37619	-21355	-33922
Canal System 2	SIU	4	-46376	-13541	-61422	-66250	12160	-7259	-22771	-48027	-48623	-66613	-63843	-47579	-60146
Start (E. Classic)			53821	86656	38775	33946	112356	92938	77426	52169	51574	33584	36354	52617	40050
Coyote	Buffer	4	49139	81974	34093	29265	107675	88257	72744	47488	46892	28902	31672	47936	35369
Lehi	Buffer	4	11137	43972	-3909	-8738	69672	50254	34741	9485	8889	-9100	-6331	9933	-2634
Los Muertos	Buffer	4	-59153	-26318	-74199	-79028	-618	-20036	-35549	-60805	-61401	-79390	-76621	-60357	-72924
Crismon	Buffer	4	-74338	-41503	-89384	-94212	-15802	-35221	-50733	-75989	-76585	-94575	-91805	-75541	-88108
Scottsdale	Buffer	4	-91357	-58522	-106403	-111232	-32822	-52240	-67752	-93009	-93604	-111594	-108824	-92561	-105128
Riverview	Buffer	4	-153934	-121099	-168980	-173808	-95398	-114817	-130329	-155585	-156181	-174171	-171401	-155137	-167704
Canal System 2	Buffer	4	-229684	-196849	-244730	-249559	-171149	-190567	-206079	-231336	-231931	-249921	-247152	-230888	-243455

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1209 Plant 2	1210 Plant 2	1211 Plant 2	1212 Plant 2	1213 Plant 2	1214 Plant 2	1215 Plant 2	1216 Plant 2	1217 Plant 2	1218 Plant 2	1219 Plant 2	1220 Plant 2	1221 Plant 2
Start (E. Classic)			73518	61404	59343	59989	41453	27355	23388	24571	19226	43773	68425	39003	31395
Coyote	SIU	3	72231	60117	58056	58702	40166	26068	22101	23284	17939	42486	67138	37716	30108
Lehi	SIU	3	64578	52464	50404	51050	32513	18416	14448	15631	10287	34833	59485	30064	22456
Los Muertos	SIU	3	38961	26846	24786	25432	6895	-7202	-11170	-9987	-15331	9215	33867	4446	-3162
Crismon	SIU	3	35595	23480	21420	22066	3529	-10568	-14536	-13353	-18697	5849	30501	1080	-6528
Scottsdale	SIU	3	32776	20662	18602	19248	711	-13386	-17354	-16171	-21516	3031	27683	-1738	-9347
Riverview	SIU	3	18039	5924	3864	4510	-14027	-28124	-32092	-30909	-36253	-11707	12945	-16476	-24084
Canal System 2	SIU	3	-1629	-13744	-15804	-15158	-33695	-47792	-51760	-50577	-55921	-31375	-6723	-36144	-43752
Start (E. Classic)			73518	61404	59343	59989	41453	27355	23388	24571	19226	43773	68425	39003	31395
Coyote	Buffer	3	70007	57893	55832	56478	37942	23844	19877	21060	15715	40262	64913	35492	27884
Lehi	Buffer	3	41505	29391	27330	27976	9439	-4658	-8625	-7442	-12787	11760	36411	6990	-618
Los Muertos	Buffer	3	-11213	-23327	-25387	-24741	-43278	-57375	-61343	-60160	-65505	-40958	-16306	-45727	-53336
Crismon	Buffer	3	-22601	-34715	-36776	-36130	-54666	-68764	-72731	-71548	-76893	-52346	-27694	-57116	-64724
Scottsdale	Buffer	3	-35365	-47480	-49540	-48894	-67431	-81528	-85495	-84312	-89657	-65111	-40459	-69880	-77488
Riverview	Buffer	3	-82298	-94412	-96473	-95827	-114363	-128461	-132428	-131245	-136590	-112043	-87391	-116813	-124421
Canal System 2	Buffer	3	-139111	-151225	-153286	-152639	-171176	-185273	-189241	-188058	-193403	-168856	-144204	-173625	-181234
Start (E. Classic)			73518	61404	59343	59989	41453	27355	23388	24571	19226	43773	68425	39003	31395
Coyote	SIU	4	71802	59688	57627	58273	39737	25639	21672	22855	17510	42057	66709	37287	29679
Lehi	SIU	4	61599	49484	47424	48070	29533	15436	11468	12651	7307	31853	56505	27084	19476
Los Muertos	SIU	4	27441	15327	13267	13913	-4624	-18721	-22689	-21506	-26851	-2304	22348	-7073	-14682
Crismon	SIU	4	22953	10839	8779	9425	-9112	-23209	-27177	-25994	-31339	-6792	17860	-11561	-19170
Scottsdale	SIU	4	19196	7082	5021	5667	-12870	-26967	-30934	-29751	-35096	-10549	14102	-15319	-22927
Riverview	SIU	4	-455	-12569	-14629	-13983	-32520	-46617	-50585	-49402	-54747	-30200	-5548	-34969	-42578
Canal System 2	SIU	4	-26679	-38793	-40853	-40207	-58744	-72841	-76809	-75626	-80971	-56424	-31772	-61193	-68802
Start (E. Classic)			73518	61404	59343	59989	41453	27355	23388	24571	19226	43773	68425	39003	31395
Coyote	Buffer	4	68837	56722	54662	55308	36771	22674	18706	19889	14545	39091	63743	34322	26714
Lehi	Buffer	4	30834	18720	16659	17305	-1232	-15329	-19296	-18113	-23458	1089	25740	-3681	-11289
Los Muertos	Buffer	4	-39456	-51570	-53631	-52985	-71522	-85619	-89586	-88403	-93748	-69201	-44550	-73971	-81579
Crismon	Buffer	4	-54641	-66755	-68815	-68169	-86706	-100803	-104771	-103588	-108933	-84386	-59734	-89155	-96764
Scottsdale	Buffer	4	-71660	-83774	-85835	-85189	-103725	-117823	-121790	-120607	-125952	-101405	-76753	-106175	-113783
Riverview	Buffer	4	-134237	-146351	-148411	-147765	-166302	-180399	-184367	-183184	-188529	-163982	-139330	-168751	-176360
Canal System 2	Buffer	4	-209987	-222101	-224162	-223516	-242052	-256150	-260117	-258934	-264279	-239732	-215081	-244502	-252110

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1222 Plant 2	1223 Plant 2	1224 Plant 2	1225 Plant 2	1226 Plant 2	1227 Plant 2	1228 Plant 2	1229 Plant 2	1230 Plant 2	1231 Plant 2	1232 Plant 2	1233 Plant 2	1234 Plant 2
Start (E. Classic)			38658	52340	45956	47848	52224	15051	102544	78748	61855	46867	83217	31264	34887
Coyote	SIU	3	37371	51053	44669	46561	50937	13764	101257	77461	60568	45580	81930	29977	33600
Lehi	SIU	3	29719	43400	37016	38908	43284	6111	93604	69808	52915	37928	74277	22325	25948
Los Muertos	SIU	3	4101	17782	11398	13290	17666	-19507	67986	44190	27297	12310	48659	-3293	330
Crismon	SIU	3	735	14416	8032	9924	14300	-22873	64620	40824	23931	8944	45293	-6659	-3036
Scottsdale	SIU	3	-2083	11598	5214	7106	11482	-25691	61802	38006	21113	6125	42475	-9477	-5855
Riverview	SIU	3	-16821	-3140	-9524	-7632	-3256	-40429	47064	23268	6375	-8612	27737	-24215	-20592
Canal System 2	SIU	3	-36489	-22808	-29192	-27300	-22924	-60097	27396	3600	-13293	-28280	8069	-43883	-40260
Start (E. Classic)			38658	52340	45956	47848	52224	15051	102544	78748	61855	46867	83217	31264	34887
Coyote	Buffer	3	35147	48828	42445	44337	48712	11539	99033	75237	58344	43356	79706	27753	31376
Lehi	Buffer	3	6645	20326	13943	15835	20210	-16963	70531	46735	29842	14854	51204	-749	2874
Los Muertos	Buffer	3	-46072	-32391	-38775	-36883	-32507	-69680	17813	-5983	-22876	-37864	-1514	-53466	-49844
Crismon	Buffer	3	-57461	-43779	-50163	-48271	-43895	-81068	6425	-17371	-34264	-49252	-12902	-64855	-61232
Scottsdale	Buffer	3	-70225	-56544	-62927	-61035	-56660	-93833	-6339	-30136	-47029	-62016	-25666	-77619	-73996
Riverview	Buffer	3	-117158	-103476	-109860	-107968	-103592	-140765	-53272	-77068	-93961	-108949	-72599	-124552	-120929
Canal System 2	Buffer	3	-173971	-160289	-166673	-164781	-160405	-197578	-110085	-133881	-150774	-165762	-129412	-181364	-177742
Start (E. Classic)			38658	52340	45956	47848	52224	15051	102544	78748	61855	46867	83217	31264	34887
Coyote	SIU	4	36942	50624	44240	46132	50508	13335	100828	77032	60139	45151	81501	29548	33171
Lehi	SIU	4	26739	40420	34036	35928	40304	3131	90624	66828	49935	34948	71297	19345	22968
Los Muertos	SIU	4	-7418	6263	-121	1771	6147	-31026	56467	32671	15778	790	37140	-14812	-11190
Crismon	SIU	4	-11906	1775	-4609	-2717	1659	-35514	51979	28183	11290	-3698	32652	-19300	-15678
Scottsdale	SIU	4	-15664	-1983	-8366	-6474	-2099	-39272	48222	24426	7533	-7455	28895	-23058	-19435
Riverview	SIU	4	-35314	-21633	-28017	-26125	-21749	-58922	28571	4775	-12118	-27106	9244	-42708	-39086
Canal System 2	SIU	4	-61538	-47857	-54241	-52349	-47973	-85146	2347	-21449	-38342	-53330	-16980	-68932	-65310
Start (E. Classic)			38658	52340	45956	47848	52224	15051	102544	78748	61855	46867	83217	31264	34887
Coyote	Buffer	4	33977	47658	41274	43166	47542	10369	97862	74066	57173	42186	78535	26583	30206
Lehi	Buffer	4	-4026	9655	3272	5164	9539	-27634	59860	36064	19171	4183	40533	-11420	-7797
Los Muertos	Buffer	4	-74316	-60635	-67018	-65126	-60751	-97924	-10430	-34226	-51119	-66107	-29757	-81710	-78087
Crismon	Buffer	4	-89500	-75819	-82203	-80311	-75935	-113108	-25615	-49411	-66304	-81292	-44942	-96894	-93272
Scottsdale	Buffer	4	-106520	-92838	-99222	-97330	-92954	-130127	-42634	-66430	-83323	-98311	-61961	-113914	-110291
Riverview	Buffer	4	-169096	-155415	-161799	-159907	-155531	-192704	-105211	-129007	-145900	-160888	-124538	-176490	-172868
Canal System 2	Buffer	4	-244847	-231166	-237549	-235657	-231282	-268455	-180961	-204757	-221650	-236638	-200288	-252241	-248618

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1235 Plant 2	1236 Plant 2	1237 Plant 2	1238 Plant 2	1239 Plant 2	1240 Plant 2	1241 Plant 2	1242 Plant 2	1243 Plant 2	1244 Plant 2	1245 Plant 2	1246 Plant 2	1247 Plant 2
Start (E. Classic)			68204	34624	55906	77595	56093	34490	83415	56241	53607	52164	45567	26853	39615
Coyote	SIU	3	66917	33337	54619	76308	54806	33203	82128	54954	52320	50877	44280	25566	38328
Lehi	SIU	3	59264	25685	46966	68655	47154	25550	74476	47302	44668	43225	36627	17913	30676
Los Muertos	SIU	3	33646	67	21348	43037	21536	-67	48858	21684	19050	17607	11009	-7705	5058
Crismon	SIU	3	30280	-3299	17982	39671	18170	-3433	45492	18318	15684	14241	7643	-11071	1692
Scottsdale	SIU	3	27462	-6117	15164	36853	15352	-6252	42674	15500	12865	11423	4825	-13889	-1127
Riverview	SIU	3	12724	-20855	426	22115	614	-20989	27936	762	-1872	-3315	-9913	-28627	-15864
Canal System 2	SIU	3	-6944	-40523	-19242	2447	-19054	-40657	8268	-18906	-21540	-22983	-29581	-48295	-35532
Start (E. Classic)			68204	34624	55906	77595	56093	34490	83415	56241	53607	52164	45567	26853	39615
Coyote	Buffer	3	64692	31113	52395	74084	52582	30979	79904	52730	50096	48653	42055	23341	36104
Lehi	Buffer	3	36190	2611	23893	45582	24080	2477	51402	24228	21594	20151	13553	-5161	7602
Los Muertos	Buffer	3	-16527	-50106	-28825	-7136	-28637	-50241	-1315	-28489	-31124	-32566	-39164	-57878	-45116
Crismon	Buffer	3	-27915	-61495	-40213	-18524	-40026	-61629	-12704	-39878	-42512	-43955	-50553	-69266	-56504
Scottsdale	Buffer	3	-40680	-74259	-52978	-31289	-52790	-74393	-25468	-52642	-55276	-56719	-63317	-82031	-69268
Riverview	Buffer	3	-87612	-121192	-99910	-78221	-99723	-121326	-72401	-99575	-102209	-103652	-110250	-128963	-116201
Canal System 2	Buffer	3	-144425	-178005	-156723	-135034	-156535	-178139	-129213	-156387	-159022	-160465	-167062	-185776	-173014
Start (E. Classic)			68204	34624	55906	77595	56093	34490	83415	56241	53607	52164	45567	26853	39615
Coyote	SIU	4	66488	32908	54190	75879	54377	32774	81699	54525	51891	50448	43851	25137	37899
Lehi	SIU	4	56284	22705	43986	65675	44174	22571	71496	44322	41688	40245	33647	14933	27696
Los Muertos	SIU	4	22127	-11452	9829	31518	10017	-11587	37339	10165	7530	6088	-510	-19224	-6462
Crismon	SIU	4	17639	-15940	5341	27030	5529	-16075	32851	5677	3042	1600	-4998	-23712	-10950
Scottsdale	SIU	4	13881	-19698	1583	23272	1771	-19832	29093	1919	-715	-2158	-8756	-27470	-14707
Riverview	SIU	4	-5769	-39348	-18067	3622	-17879	-39483	9443	-17731	-20366	-21808	-28406	-47120	-34358
Canal System 2	SIU	4	-31993	-65572	-44291	-22602	-44103	-65707	-16781	-43955	-46590	-48032	-54630	-73344	-60582
Start (E. Classic)			68204	34624	55906	77595	56093	34490	83415	56241	53607	52164	45567	26853	39615
Coyote	Buffer	4	63522	29943	51224	72913	51412	29809	78734	51560	48926	47483	40885	22171	34934
Lehi	Buffer	4	25519	-8060	13221	34910	13409	-8194	40731	13557	10923	9480	2882	-15832	-3069
Los Muertos	Buffer	4	-44771	-78350	-57069	-35380	-56881	-78484	-29559	-56733	-59367	-60810	-67408	-86122	-73359
Crismon	Buffer	4	-59955	-93534	-72253	-50564	-72065	-93669	-44743	-71917	-74552	-75994	-82592	-101306	-88544
Scottsdale	Buffer	4	-76974	-110554	-89272	-67583	-89085	-110688	-61763	-88937	-91571	-93014	-99611	-118325	-105563
Riverview	Buffer	4	-139551	-173130	-151849	-130160	-151661	-173265	-124339	-151513	-154148	-155590	-162188	-180902	-168140
Canal System 2	Buffer	4	-215302	-248881	-227599	-205910	-227412	-249015	-200090	-227264	-229898	-231341	-237939	-256653	-243890

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1248 Plant 2	1249 Plant 2	1250 Plant 2	1251 Plant 2	1252 Plant 2	1253 Plant 2	1254 Plant 2	1255 Plant 2	1256 Plant 2	1257 Plant 2	1258 Plant 2	1259 Plant 2	1260 Plant 2
Start (E. Classic)			78023	82640	35909	16361	43856	58274	12457	82982	58721	48063	19757	168795	46942
Coyote	SIU	3	76736	81353	34622	15074	42569	56987	11170	81695	57434	46776	18470	167508	45655
Lehi	SIU	3	69084	73701	26969	7421	34916	49334	3517	74042	49781	39123	10817	159855	38003
Los Muertos	SIU	3	43466	48083	1352	-18197	9298	23717	-22101	48424	24163	13505	-14801	134237	12385
Crismon	SIU	3	40100	44717	-2014	-21563	5932	20351	-25467	45058	20797	10139	-18167	130871	9019
Scottsdale	SIU	3	37281	41898	-4833	-24381	3114	17532	-28285	42240	17979	7321	-20985	128053	6200
Riverview	SIU	3	22544	27161	-19570	-39119	-11624	2795	-43023	27502	3241	-7417	-35723	113315	-8537
Canal System 2	SIU	3	2876	7493	-39238	-58787	-31292	-16873	-62691	7834	-16427	-27085	-55391	93647	-28205
Start (E. Classic)			78023	82640	35909	16361	43856	58274	12457	82982	58721	48063	19757	168795	46942
Coyote	Buffer	3	74512	79129	32398	12850	40345	54763	8946	79470	55210	44551	16246	165283	43431
Lehi	Buffer	3	46010	50627	3896	-15652	11843	26261	-19556	50968	26707	16049	-12256	136781	14929
Los Muertos	Buffer	3	-6708	-2091	-48822	-68370	-40875	-26457	-72274	-1749	-26010	-36668	-64974	84064	-37789
Crismon	Buffer	3	-18096	-13479	-60210	-79758	-52263	-37845	-83662	-13138	-37398	-48056	-76362	72675	-49177
Scottsdale	Buffer	3	-30860	-26243	-72974	-92523	-65027	-50609	-96427	-25902	-50163	-60821	-89126	59911	-61941
Riverview	Buffer	3	-77793	-73176	-119907	-139455	-111960	-97542	-143359	-72835	-97095	-107753	-136059	12978	-108874
Canal System 2	Buffer	3	-134606	-129989	-176720	-196268	-168773	-154355	-200172	-129647	-153908	-164566	-192872	-43834	-165687
Start (E. Classic)			78023	82640	35909	16361	43856	58274	12457	82982	58721	48063	19757	168795	46942
Coyote	SIU	4	76307	80924	34193	14645	42140	56558	10741	81266	57005	46347	18041	167079	45226
Lehi	SIU	4	66104	70721	23990	4441	31936	46355	537	71062	46801	36143	7837	156875	35023
Los Muertos	SIU	4	31946	36563	-10168	-29716	-2221	12197	-33620	36905	12644	1986	-26320	122718	865
Crismon	SIU	4	27458	32075	-14656	-34204	-6709	7709	-38108	32417	8156	-2502	-30808	118230	-3623
Scottsdale	SIU	4	23701	28318	-18413	-37962	-10466	3952	-41866	28659	4398	-6260	-34565	114472	-7380
Riverview	SIU	4	4050	8667	-38064	-57612	-30117	-15699	-61516	9009	-15252	-25910	-54216	94822	-27031
Canal System 2	SIU	4	-22174	-17557	-64288	-83836	-56341	-41923	-87740	-17215	-41476	-52134	-80440	68598	-53255
Start (E. Classic)			78023	82640	35909	16361	43856	58274	12457	82982	58721	48063	19757	168795	46942
Coyote	Buffer	4	73342	77959	31228	11679	39174	53593	7775	78300	54039	43381	15075	164113	42261
Lehi	Buffer	4	35339	39956	-6775	-26324	1172	15590	-30228	40297	16036	5378	-22927	126110	4258
Los Muertos	Buffer	4	-34951	-30334	-77065	-96614	-69118	-54700	-100518	-29993	-54254	-64912	-93217	55820	-66032
Crismon	Buffer	4	-50136	-45519	-92250	-111798	-84303	-69885	-115702	-45177	-69438	-80096	-108402	40636	-81217
Scottsdale	Buffer	4	-67155	-62538	-109269	-128817	-101322	-86904	-132721	-62196	-86457	-97115	-125421	23617	-98236
Riverview	Buffer	4	-129732	-125115	-171846	-191394	-163899	-149481	-195298	-124773	-149034	-159692	-187998	-38960	-160813
Canal System 2	Buffer	4	-205482	-200865	-247596	-267144	-239649	-225231	-271048	-200524	-224784	-235443	-263748	-114711	-236563

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1261 Plant 2	1262 Plant 2	1263 Plant 2	1264 Plant 2	1265 Plant 2	1266 Plant 2	1267 Plant 2	1268 Plant 2	1269 Plant 2	1270 Plant 2	1271 Plant 2	1272 Plant 2	1273 Plant 2
Start (E. Classic)			54545	58863	21206	34402	48778	50267	63141	79253	51662	31840	65641	47154	30104
Coyote	SIU	3	53258	57576	19919	33115	47491	48980	61854	77966	50375	30553	64354	45867	28817
Lehi	SIU	3	45605	49924	12266	25462	39839	41328	54201	70314	42722	22900	56702	38215	21164
Los Muertos	SIU	3	19987	24306	-13352	-156	14221	15710	28583	44696	17104	-2718	31084	12597	-4453
Crismon	SIU	3	16621	20940	-16718	-3522	10855	12344	25217	41330	13738	-6084	27718	9231	-7819
Scottsdale	SIU	3	13803	18121	-19536	-6340	8037	9525	22399	38512	10920	-8902	24899	6413	-10638
Riverview	SIU	3	-935	3384	-34274	-21078	-6701	-5212	7661	23774	-3818	-23640	10162	-8325	-25375
Canal System 2	SIU	3	-20603	-16284	-53942	-40746	-26369	-24880	-12007	4106	-23486	-43308	-9506	-27993	-45043
Start (E. Classic)			54545	58863	21206	34402	48778	50267	63141	79253	51662	31840	65641	47154	30104
Coyote	Buffer	3	51034	55352	17694	30891	45267	46756	59630	75742	48151	28329	62130	43643	26593
Lehi	Buffer	3	22532	26850	-10808	2388	16765	18254	31127	47240	19649	-173	33628	15141	-1909
Los Muertos	Buffer	3	-30186	-25868	-63525	-50329	-35952	-34464	-21590	-5477	-33069	-52891	-19090	-37576	-54627
Crismon	Buffer	3	-41574	-37256	-74913	-61717	-47341	-45852	-32978	-16866	-44457	-64279	-30478	-48965	-66015
Scottsdale	Buffer	3	-54338	-50020	-87678	-74482	-60105	-58616	-45743	-29630	-57222	-77043	-43242	-61729	-78779
Riverview	Buffer	3	-101271	-96953	-134610	-121414	-107038	-105549	-92675	-76563	-104154	-123976	-90175	-108662	-125712
Canal System 2	Buffer	3	-158084	-153766	-191423	-178227	-163851	-162362	-149488	-133375	-160967	-180789	-146988	-165475	-182525
Start (E. Classic)			54545	58863	21206	34402	48778	50267	63141	79253	51662	31840	65641	47154	30104
Coyote	SIU	4	52829	57147	19490	32686	47062	48551	61425	77537	49946	30124	63925	45438	28388
Lehi	SIU	4	42625	46944	9286	22482	36859	38348	51221	67334	39742	19920	53722	35235	18185
Los Muertos	SIU	4	8468	12786	-24871	-11675	2702	4190	17064	33177	5585	-14237	19564	1078	-15973
Crismon	SIU	4	3980	8298	-29359	-16163	-1786	-298	12576	28689	1097	-18725	15076	-3410	-20461
Scottsdale	SIU	4	223	4541	-33117	-19921	-5544	-4055	8818	24931	-2660	-22482	11319	-7168	-24218
Riverview	SIU	4	-19428	-15110	-52767	-39571	-25194	-23706	-10832	5281	-22311	-42133	-8332	-26818	-43869
Canal System 2	SIU	4	-45652	-41334	-78991	-65795	-51418	-49930	-37056	-20943	-48535	-68357	-34556	-53042	-70093
Start (E. Classic)			54545	58863	21206	34402	48778	50267	63141	79253	51662	31840	65641	47154	30104
Coyote	Buffer	4	49863	54182	16524	29720	44097	45586	58459	74572	46980	27158	60960	42473	25423
Lehi	Buffer	4	11861	16179	-21479	-8283	6094	7583	20456	36569	8978	-10844	22957	4470	-12580
Los Muertos	Buffer	4	-58429	-54111	-91769	-78573	-64196	-62707	-49834	-33721	-61312	-81134	-47333	-65820	-82870
Crismon	Buffer	4	-73614	-69296	-106953	-93757	-79380	-77892	-65018	-48905	-76497	-96319	-62518	-81004	-98055
Scottsdale	Buffer	4	-90633	-86315	-123972	-110776	-96400	-94911	-82037	-65925	-93516	-113338	-79537	-98024	-115074
Riverview	Buffer	4	-153210	-148892	-186549	-173353	-158976	-157488	-144614	-128501	-156093	-175915	-142114	-160600	-177651
Canal System 2	Buffer	4	-228960	-224642	-262300	-249103	-234727	-233238	-220364	-204252	-231843	-251665	-217864	-236351	-253401

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1274 Plant 2	1275 Plant 2	1276 Plant 2	1277 Plant 2	1278 Plant 2	1279 Plant 2	1280 Plant 2	1281 Plant 2	1282 Plant 2	1283 Plant 2	1284 Plant 2	1285 Plant 2	1286 Plant 2
Start (E. Classic)			48148	198416	19687	49445	30423	104172	23648	56817	47863	26335	51346	41081	18819
Coyote	SIU	3	46861	197129	18400	48158	29136	102885	22361	55530	46576	25048	50059	39794	17532
Lehi	SIU	3	39209	189476	10747	40506	21483	95233	14708	47877	38923	17396	42407	32141	9880
Los Muertos	SIU	3	13591	163858	-14871	14888	-4135	69615	-10910	22259	13305	-8222	16789	6523	-15738
Crismon	SIU	3	10225	160492	-18237	11522	-7501	66249	-14276	18893	9939	-11588	13423	3157	-19104
Scottsdale	SIU	3	7406	157674	-21055	8703	-10319	63431	-17094	16075	7121	-14406	10605	339	-21922
Riverview	SIU	3	-7331	142936	-35793	-6034	-25057	48693	-31832	1337	-7617	-29144	-4133	-14399	-36660
Canal System 2	SIU	3	-26999	123268	-55461	-25702	-44725	29025	-51500	-18331	-27285	-48812	-23801	-34067	-56328
Start (E. Classic)			48148	198416	19687	49445	30423	104172	23648	56817	47863	26335	51346	41081	18819
Coyote	Buffer	3	44637	194905	16176	45934	26912	100661	20136	53306	44352	22824	47835	37570	15308
Lehi	Buffer	3	16135	166403	-12326	17432	-1590	72159	-8366	24804	15849	-5678	19333	9068	-13194
Los Muertos	Buffer	3	-36583	113685	-65044	-35286	-54308	19442	-61083	-27914	-36868	-58395	-33384	-43650	-65911
Crismon	Buffer	3	-47971	102297	-76432	-46674	-65696	8053	-72472	-39302	-48256	-69784	-44773	-55038	-77300
Scottsdale	Buffer	3	-60735	89533	-89196	-59438	-78461	-4711	-85236	-52067	-61021	-82548	-57537	-67803	-90064
Riverview	Buffer	3	-107668	42600	-136129	-106371	-125393	-51644	-132169	-98999	-107953	-129481	-104470	-114735	-136997
Canal System 2	Buffer	3	-164481	-14213	-192942	-163184	-182206	-108457	-188981	-155812	-164766	-186293	-161283	-171548	-193810
Start (E. Classic)			48148	198416	19687	49445	30423	104172	23648	56817	47863	26335	51346	41081	18819
Coyote	SIU	4	46432	196700	17971	47729	28707	102456	21932	55101	46147	24619	49630	39365	17103
Lehi	SIU	4	36229	186496	7767	37526	18503	92253	11728	44897	35943	14416	39427	29161	6900
Los Muertos	SIU	4	2071	152339	-26390	3368	-15654	58096	-22429	10740	1786	-19741	5270	-4996	-27257
Crismon	SIU	4	-2417	147851	-30878	-1120	-20142	53608	-26917	6252	-2702	-24229	782	-9484	-31745
Scottsdale	SIU	4	-6174	144094	-34635	-4877	-23900	49850	-30675	2494	-6460	-27987	-2976	-13241	-35503
Riverview	SIU	4	-25825	124443	-54286	-24528	-43550	30200	-50325	-17156	-26110	-47637	-22626	-32892	-55153
Canal System 2	SIU	4	-52049	98219	-80510	-50752	-69774	3976	-76549	-43380	-52334	-73861	-48850	-59116	-81377
Start (E. Classic)			48148	198416	19687	49445	30423	104172	23648	56817	47863	26335	51346	41081	18819
Coyote	Buffer	4	43467	193734	15005	44764	25741	99491	18966	52135	43181	21654	46665	36399	14138
Lehi	Buffer	4	5464	155732	-22997	6761	-12262	61488	-19037	14132	5178	-16349	8662	-1603	-23865
Los Muertos	Buffer	4	-64826	85442	-93287	-63529	-82552	-8802	-89327	-56158	-65112	-86639	-61628	-71893	-94155
Crismon	Buffer	4	-80011	70257	-108472	-78714	-97736	-23986	-104511	-71342	-80296	-101823	-76812	-87078	-109339
Scottsdale	Buffer	4	-97030	53238	-125491	-95733	-114755	-41006	-121530	-88361	-97315	-118843	-93832	-104097	-126359
Riverview	Buffer	4	-159607	-9339	-188068	-158310	-177332	-103582	-184107	-150938	-159892	-181419	-156408	-166674	-188935
Canal System 2	Buffer	4	-235357	-85089	-263818	-234060	-253082	-179333	-259858	-226688	-235642	-257170	-232159	-242424	-264686

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1287 Plant 2	1288 Plant 2	1289 Plant 2	1290 Plant 2	1291 Plant 2	1292 Plant 2	1293 Plant 2	1294 Plant 2	1295 Plant 2	1296 Plant 2	1297 Plant 2	1298 Plant 2	1299 Plant 2
Start (E. Classic)			44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689	122081	17967
Coyote	SIU	3	42753	12855	43980	77402	38816	31476	69850	38844	17590	76533	38402	120794	16680
Lehi	SIU	3	35100	5202	36328	69750	31163	23824	62198	31191	9937	68881	30749	113142	9028
Los Muertos	SIU	3	9482	-20416	10710	44132	5545	-1794	36580	5573	-15681	43263	5131	87524	-16590
Crismon	SIU	3	6116	-23782	7344	40766	2179	-5160	33214	2207	-19047	39897	1765	84158	-19956
Scottsdale	SIU	3	3298	-26600	4526	37948	-639	-7978	30396	-611	-21865	37079	-1053	81340	-22774
Riverview	SIU	3	-11440	-41338	-10212	23210	-15377	-22716	15658	-15349	-36603	22341	-15791	66602	-37512
Canal System 2	SIU	3	-31108	-61006	-29880	3542	-35045	-42384	-4010	-35017	-56271	2673	-35459	46934	-57180
Start (E. Classic)			44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689	122081	17967
Coyote	Buffer	3	40528	10630	41756	75178	36591	29252	67626	36620	15366	74309	36178	118570	14456
Lehi	Buffer	3	12026	-17872	13254	46676	8089	750	39124	8118	-13137	45807	7676	90068	-14046
Los Muertos	Buffer	3	-40691	-70589	-39463	-6041	-44628	-51967	-13593	-44600	-65854	-6910	-45042	37351	-66763
Crismon	Buffer	3	-52079	-81977	-50852	-17430	-56016	-63356	-24982	-55988	-77242	-18299	-56430	25962	-78152
Scottsdale	Buffer	3	-64844	-94742	-63616	-30194	-68781	-76120	-37746	-68752	-90007	-31063	-69194	13198	-90916
Riverview	Buffer	3	-111776	-141674	-110549	-77127	-115713	-123053	-84679	-115685	-136939	-77996	-116127	-33735	-137849
Canal System 2	Buffer	3	-168589	-198487	-167361	-133939	-172526	-179865	-141491	-172498	-193752	-134808	-172940	-90548	-194662
Start (E. Classic)			44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689	122081	17967
Coyote	SIU	4	42324	12426	43551	76973	38387	31047	69421	38415	17161	76104	37973	120365	16251
Lehi	SIU	4	32120	2222	33348	66770	28183	20844	59218	28211	6957	65901	27769	110162	6048
Los Muertos	SIU	4	-2037	-31935	-809	32613	-5974	-13313	25061	-5946	-27200	31744	-6388	76005	-28109
Crismon	SIU	4	-6525	-36423	-5297	28125	-10462	-17801	20573	-10434	-31688	27256	-10876	71517	-32597
Scottsdale	SIU	4	-10283	-40181	-9055	24367	-14220	-21559	16815	-14191	-35446	23498	-14633	67759	-36355
Riverview	SIU	4	-29933	-59831	-28705	4717	-33870	-41209	-2835	-33842	-55096	3848	-34284	48109	-56005
Canal System 2	SIU	4	-56157	-86055	-54929	-21507	-60094	-67433	-29059	-60066	-81320	-22376	-60508	21885	-82229
Start (E. Classic)			44040	14142	45267	78689	40103	32763	71137	40131	18877	77820	39689	122081	17967
Coyote	Buffer	4	39358	9460	40586	74008	35421	28082	66456	35449	14195	73139	35007	117400	13286
Lehi	Buffer	4	1355	-28543	2583	36005	-2582	-9921	28453	-2553	-23808	35136	-2995	79397	-24717
Los Muertos	Buffer	4	-68935	-98833	-67707	-34285	-72872	-80211	-41837	-72843	-94098	-35154	-73285	9107	-95007
Crismon	Buffer	4	-84119	-114017	-82891	-49469	-88056	-95395	-57021	-88028	-109282	-50338	-88470	-6077	-110191
Scottsdale	Buffer	4	-101138	-131036	-99911	-66489	-105075	-112415	-74041	-105047	-126301	-67358	-105489	-23097	-127211
Riverview	Buffer	4	-163715	-193613	-162487	-129065	-167652	-174991	-136617	-167624	-188878	-129934	-168066	-85673	-189787
Canal System 2	Buffer	4	-239466	-269364	-238238	-204816	-243403	-250742	-212368	-243374	-264628	-205685	-243816	-161424	-265538

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	Total Deficits	1100 Silk 2	1101 Silk 2	1102 Silk 2	1103 Silk 2	1104 Silk 2	1105 Silk 2	1106 Silk 2	1107 Silk 2	1108 Silk 2	1109 Silk 2	1110 Silk 2
Start (E. Classic)				50221	25111	37073	49467	30489	72292	34606	24025	33538	50049	38017
Coyote	SIU	3	0	48934	23824	35786	48180	29202	71005	33319	22738	32251	48762	36730
Lehi	SIU	3	0	41282	16171	28133	40527	21550	63352	25666	15086	24599	41110	29077
Los Muertos	SIU	3	50	15664	-9447	2515	14909	-4068	37734	48	-10532	-1019	15492	3459
Crismon	SIU	3	58	12298	-12813	-851	11543	-7434	34368	-3318	-13898	-4385	12126	93
Scottsdale	SIU	3	75	9480	-15631	-3669	8725	-10252	31550	-6136	-16717	-7204	9307	-2725
Riverview	SIU	3	126	-5258	-30369	-18407	-6013	-24990	16812	-20874	-31454	-21941	-5430	-17463
Canal System 2	SIU	3	173	-24926	-50037	-38075	-25681	-44658	-2856	-40542	-51122	-41609	-25098	-37131
Start (E. Classic)				50221	25111	37073	49467	30489	72292	34606	24025	33538	50049	38017
Coyote	Buffer	3	0	46710	21599	33561	45956	26978	68781	31095	20514	30027	46538	34506
Lehi	Buffer	3	41	18208	-6903	5059	17454	-1524	40279	2593	-7988	1525	18036	6003
Los Muertos	Buffer	3	191	-34509	-59620	-47658	-35264	-54241	-12439	-50125	-60706	-51193	-34682	-46714
Crismon	Buffer	3	193	-45898	-71008	-59047	-46652	-65630	-23827	-61513	-72094	-62581	-46070	-58102
Scottsdale	Buffer	3	196	-58662	-83773	-71811	-59417	-78394	-36592	-74277	-84858	-75345	-58834	-70867
Riverview	Buffer	3	198	-105595	-130705	-118744	-106349	-125327	-83524	-121210	-131791	-122278	-105767	-117799
Canal System 2	Buffer	3	200	-162408	-187518	-175556	-163162	-182140	-140337	-178023	-188604	-179091	-162580	-174612
Start (E. Classic)				50221	25111	37073	49467	30489	72292	34606	24025	33538	50049	38017
Coyote	SIU	4	0	48505	23395	35357	47751	28773	70576	32890	22309	31822	48333	36301
Lehi	SIU	4	0	38302	13191	25153	37547	18570	60372	22686	12106	21619	38130	26097
Los Muertos	SIU	4	97	4145	-20966	-9004	3390	-15587	26215	-11471	-22052	-12539	3972	-8060
Crismon	SIU	4	108	-343	-25454	-13492	-1098	-20075	21727	-15959	-26540	-17027	-516	-12548
Scottsdale	SIU	4	122	-4101	-29212	-17250	-4856	-23833	17970	-19716	-30297	-20784	-4273	-16306
Riverview	SIU	4	173	-23751	-48862	-36900	-24506	-43483	-1681	-39367	-49948	-40435	-23924	-35956
Canal System 2	SIU	4	194	-49975	-75086	-63124	-50730	-69707	-27905	-65591	-76172	-66659	-50148	-62180
Start (E. Classic)				50221	25111	37073	49467	30489	72292	34606	24025	33538	50049	38017
Coyote	Buffer	4	0	45540	20429	32391	44785	25808	67610	29924	19344	28857	45368	33335
Lehi	Buffer	4	84	7537	-17574	-5612	6782	-12195	29608	-8078	-18659	-9146	7365	-4668
Los Muertos	Buffer	4	197	-62753	-87864	-75902	-63508	-82485	-40682	-78368	-88949	-79436	-62925	-74958
Crismon	Buffer	4	198	-77937	-103048	-91086	-78692	-97669	-55867	-93553	-104134	-94621	-78110	-90142
Scottsdale	Buffer	4	198	-94957	-120067	-108105	-95711	-114689	-72886	-110572	-121153	-111640	-95129	-107161
Riverview	Buffer	4	200	-157533	-182644	-170682	-158288	-177265	-135463	-173149	-183730	-174217	-157706	-169738
Canal System 2	Buffer	4	200	-233284	-258395	-246433	-234038	-253016	-211213	-248899	-259480	-249967	-233456	-245488

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1111 Silk 2	1112 Silk 2	1113 Silk 2	1114 Silk 2	1115 Silk 2	1116 Silk 2	1117 Silk 2	1118 Silk 2	1119 Silk 2	1120 Silk 2	1121 Silk 2	1122 Silk 2	1123 Silk 2
Start (E. Classic)			38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	SIU	3	36765	43935	27398	63914	45819	42642	49949	36055	50214	22901	24658	65979	33173
Lehi	SIU	3	29112	36282	19745	56262	38167	34990	42296	28402	42561	15249	17005	58327	25521
Los Muertos	SIU	3	3494	10665	-5873	30644	12549	9372	16679	2784	16943	-10369	-8613	32709	-97
Crismon	SIU	3	128	7299	-9239	27278	9183	6006	13313	-582	13577	-13735	-11979	29343	-3463
Scottsdale	SIU	3	-2690	4480	-12057	24459	6364	3188	10494	-3400	10759	-16553	-14797	26524	-6281
Riverview	SIU	3	-17428	-10257	-26795	9722	-8373	-11550	-4243	-18138	-3979	-31291	-29535	11787	-21019
Canal System 2	SIU	3	-37096	-29925	-46463	-9946	-28041	-31218	-23911	-37806	-23647	-50959	-49203	-7881	-40687
Start (E. Classic)			38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	Buffer	3	34541	41711	25173	61690	43595	40418	47725	33830	47990	20677	22433	63755	30949
Lehi	Buffer	3	6039	13209	-3329	33188	15093	11916	19223	5328	19488	-7825	-6069	35253	2447
Los Muertos	Buffer	3	-46679	-39509	-56046	-19530	-37625	-40801	-33495	-47389	-33230	-60542	-58786	-17465	-50270
Crismon	Buffer	3	-58067	-50897	-67434	-30918	-49013	-52190	-44883	-58777	-44618	-71931	-70174	-28853	-61659
Scottsdale	Buffer	3	-70831	-63661	-80199	-43682	-61777	-64954	-57647	-71542	-57383	-84695	-82939	-41617	-74423
Riverview	Buffer	3	-117764	-110594	-127131	-90615	-108710	-111887	-104580	-118474	-104315	-131628	-129871	-88550	-121356
Canal System 2	Buffer	3	-174577	-167407	-183944	-147428	-165523	-168700	-161393	-175287	-161128	-188440	-186684	-145363	-178168
Start (E. Classic)			38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	SIU	4	36336	43506	26969	63485	45390	42213	49520	35626	49785	22472	24229	65550	32744
Lehi	SIU	4	26132	33303	16765	53282	35187	32010	39317	25422	39581	12269	14025	55347	22541
Los Muertos	SIU	4	-8025	-855	-17392	19124	1029	-2147	5159	-8735	5424	-21888	-20132	21189	-11616
Crismon	SIU	4	-12513	-5343	-21880	14636	-3459	-6635	671	-13223	936	-26376	-24620	16701	-16104
Scottsdale	SIU	4	-16270	-9100	-25638	10879	-7216	-10393	-3086	-16981	-2821	-30134	-28378	12944	-19862
Riverview	SIU	4	-35921	-28751	-45288	-8772	-26867	-30043	-22737	-36631	-22472	-49784	-48028	-6707	-39512
Canal System 2	SIU	4	-62145	-54975	-71512	-34996	-53091	-56267	-48961	-62855	-48696	-76008	-74252	-32931	-65736
Start (E. Classic)			38052	45222	28685	65201	47106	43929	51236	37342	51501	24188	25945	67266	34460
Coyote	Buffer	4	33370	40541	24003	60520	42425	39248	46555	32660	46819	19507	21263	62585	29779
Lehi	Buffer	4	-4632	2538	-14000	22517	4422	1245	8552	-5343	8817	-18496	-16740	24582	-8224
Los Muertos	Buffer	4	-74922	-67752	-84290	-47773	-65868	-69045	-61738	-75633	-61473	-88786	-87030	-45708	-78514
Crismon	Buffer	4	-90107	-82937	-99474	-62958	-81053	-84229	-76923	-90817	-76658	-103970	-102214	-60893	-93698
Scottsdale	Buffer	4	-107126	-99956	-116493	-79977	-98072	-101249	-93942	-107836	-93677	-120990	-119233	-77912	-110718
Riverview	Buffer	4	-169703	-162533	-179070	-142554	-160649	-163825	-156519	-170413	-156254	-183566	-181810	-140489	-173294
Canal System 2	Buffer	4	-245453	-238283	-254821	-218304	-236399	-239576	-232269	-246164	-232004	-259317	-257561	-216239	-249045

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1124 Silk 2	1125 Silk 2	1126 Silk 2	1127 Silk 2	1128 Silk 2	1129 Silk 2	1130 Silk 2	1131 Silk 2	1132 Silk 2	1133 Silk 2	1134 Silk 2	1135 Silk 2	1136 Silk 2
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173
Coyote	SIU	3	47540	33972	37065	60980	46274	84110	44301	22390	28629	19566	31836	34956	37886
Lehi	SIU	3	39887	26319	29412	53327	38621	76457	36649	14737	20976	11913	24184	27303	30233
Los Muertos	SIU	3	14269	701	3795	27709	13003	50839	11031	-10881	-4642	-13705	-1434	1685	4615
Crismon	SIU	3	10903	-2665	429	24343	9637	47473	7665	-14247	-8008	-17071	-4800	-1681	1249
Scottsdale	SIU	3	8085	-5483	-2390	21525	6819	44655	4847	-17065	-10826	-19889	-7618	-4499	-1569
Riverview	SIU	3	-6653	-20221	-17127	6787	-7919	29917	-9891	-31803	-25564	-34627	-22356	-19237	-16307
Canal System 2	SIU	3	-26321	-39889	-36795	-12881	-27587	10249	-29559	-51471	-45232	-54295	-42024	-38905	-35975
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173
Coyote	Buffer	3	45316	31748	34841	58756	44049	81885	42077	20165	26405	17342	29612	32732	35662
Lehi	Buffer	3	16814	3246	6339	30254	15547	53383	13575	-8337	-2098	-11161	1110	4230	7160
Los Muertos	Buffer	3	-35904	-49472	-46379	-22464	-37170	666	-39142	-61054	-54815	-63878	-51607	-48488	-45558
Crismon	Buffer	3	-47292	-60860	-57767	-33852	-48558	-10723	-50531	-72442	-66203	-75266	-62996	-59876	-56946
Scottsdale	Buffer	3	-60056	-73624	-70531	-46616	-61323	-23487	-63295	-85207	-78968	-88031	-75760	-72640	-69711
Riverview	Buffer	3	-106989	-120557	-117464	-93549	-108255	-70420	-110228	-132139	-125900	-134963	-122693	-119573	-116643
Canal System 2	Buffer	3	-163802	-177370	-174277	-150362	-165068	-127232	-167041	-188952	-182713	-191776	-179505	-176386	-173456
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173
Coyote	SIU	4	47111	33543	36636	60551	45845	83681	43872	21961	28200	19137	31407	34527	37457
Lehi	SIU	4	36907	23339	26433	50347	35641	73477	33669	11757	17996	8933	21204	24323	27253
Los Muertos	SIU	4	2750	-10818	-7725	16190	1484	39320	-488	-22400	-16161	-25224	-12953	-9834	-6904
Crismon	SIU	4	-1738	-15306	-12213	11702	-3004	34832	-4976	-26888	-20649	-29712	-17441	-14322	-11392
Scottsdale	SIU	4	-5495	-19063	-15970	7945	-6762	31074	-8734	-30646	-24407	-33470	-21199	-18079	-15150
Riverview	SIU	4	-25146	-38714	-35621	-11706	-26412	11424	-28384	-50296	-44057	-53120	-40849	-37730	-34800
Canal System 2	SIU	4	-51370	-64938	-61845	-37930	-52636	-14800	-54608	-76520	-70281	-79344	-67073	-63954	-61024
Start (E. Classic)			48827	35259	38352	62267	47561	85397	45588	23677	29916	20853	33123	36243	39173
Coyote	Buffer	4	44145	30577	33671	57585	42879	80715	40907	18995	25234	16171	28442	31561	34491
Lehi	Buffer	4	6143	-7425	-4332	19583	4876	42712	2904	-19008	-12769	-21832	-9561	-6441	-3512
Los Muertos	Buffer	4	-64147	-77715	-74622	-50707	-65414	-27578	-67386	-89298	-83059	-92122	-79851	-76731	-73802
Crismon	Buffer	4	-79332	-92900	-89807	-65892	-80598	-42762	-82570	-104482	-98243	-107306	-95035	-91916	-88986
Scottsdale	Buffer	4	-96351	-109919	-106826	-82911	-97617	-59781	-99590	-121501	-115262	-124325	-112055	-108935	-106005
Riverview	Buffer	4	-158928	-172496	-169403	-145488	-160194	-122358	-162166	-184078	-177839	-186902	-174631	-171512	-168582
Canal System 2	Buffer	4	-234678	-248246	-245153	-221238	-235945	-198109	-237917	-259829	-253589	-262652	-250382	-247262	-244332

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1137 Silk 2	1138 Silk 2	1139 Silk 2	1140 Silk 2	1141 Silk 2	1142 Silk 2	1143 Silk 2	1144 Silk 2	1145 Silk 2	1146 Silk 2	1147 Silk 2	1148 Silk 2	1149 Silk 2
Start (E. Classic)			27246	43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388
Coyote	SIU	3	25959	42435	46313	27009	50218	26462	32966	46309	45612	16018	70564	40595	51101
Lehi	SIU	3	18307	34782	38661	19357	42566	18810	25313	38656	37959	8366	62911	32942	43448
Los Muertos	SIU	3	-7311	9164	13043	-6261	16948	-6808	-305	13038	12341	-17252	37293	7324	17830
Crismon	SIU	3	-10677	5798	9677	-9627	13582	-10174	-3671	9672	8975	-20618	33927	3958	14464
Scottsdale	SIU	3	-13496	2980	6859	-12445	10764	-12993	-6489	6854	6157	-23437	31109	1140	11646
Riverview	SIU	3	-28233	-11758	-7879	-27183	-3974	-27730	-21227	-7884	-8581	-38174	16371	-13598	-3092
Canal System 2	SIU	3	-47901	-31426	-27547	-46851	-23642	-47398	-40895	-27552	-28249	-57842	-3297	-33266	-22760
Start (E. Classic)			27246	43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388
Coyote	Buffer	3	23735	40211	44089	24785	47994	24238	30742	44085	43388	13794	68339	38371	48877
Lehi	Buffer	3	-4767	11709	15587	-3717	19492	-4264	2240	15583	14886	-14708	39837	9869	20375
Los Muertos	Buffer	3	-57485	-41009	-37130	-56434	-33225	-56982	-50478	-37135	-37832	-67426	-12880	-42849	-32343
Crismon	Buffer	3	-68873	-52397	-48519	-67823	-44614	-68370	-61866	-48523	-49220	-78814	-24268	-54237	-43731
Scottsdale	Buffer	3	-81637	-65162	-61283	-80587	-57378	-81134	-74630	-61288	-61985	-91578	-37033	-67001	-56496
Riverview	Buffer	3	-128570	-112094	-108216	-127520	-104311	-128067	-121563	-108220	-108917	-138511	-83965	-113934	-103428
Canal System 2	Buffer	3	-185383	-168907	-165028	-184333	-161124	-184880	-178376	-165033	-165730	-195324	-140778	-170747	-160241
Start (E. Classic)			27246	43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388
Coyote	SIU	4	25530	42006	45884	26580	49789	26033	32537	45880	45183	15589	70135	40166	50672
Lehi	SIU	4	15327	31802	35681	16377	39586	15830	22333	35676	34979	5386	59931	29962	40468
Los Muertos	SIU	4	-18831	-2355	1524	-17780	5429	-18328	-11824	1519	822	-28772	25774	-4195	6311
Crismon	SIU	4	-23319	-6843	-2964	-22268	941	-22816	-16312	-2969	-3666	-33260	21286	-8683	1823
Scottsdale	SIU	4	-27076	-10600	-6722	-26026	-2817	-26573	-20069	-6726	-7424	-37017	17528	-12440	-1935
Riverview	SIU	4	-46727	-30251	-26372	-45676	-22467	-46224	-39720	-26377	-27074	-56668	-2122	-32091	-21585
Canal System 2	SIU	4	-72951	-56475	-52596	-71900	-48691	-72448	-65944	-52601	-53298	-82892	-28346	-58315	-47809
Start (E. Classic)			27246	43722	47600	28296	51505	27749	34253	47596	46899	17305	71851	41882	52388
Coyote	Buffer	4	22565	39040	42919	23615	46824	23068	29571	42914	42217	12624	67169	37200	47706
Lehi	Buffer	4	-15438	1038	4916	-14388	8821	-14935	-8431	4912	4214	-25379	29166	-802	9703
Los Muertos	Buffer	4	-85728	-69252	-65374	-84678	-61469	-85225	-78721	-65378	-66076	-95669	-41124	-71092	-60587
Crismon	Buffer	4	-100913	-84437	-80558	-99862	-76653	-100410	-93906	-80563	-81260	-110854	-56308	-86277	-75771
Scottsdale	Buffer	4	-117932	-101456	-97578	-116882	-93673	-117429	-110925	-97582	-98279	-127873	-73327	-103296	-92790
Riverview	Buffer	4	-180509	-164033	-160154	-179458	-156249	-180006	-173502	-160159	-160856	-190450	-135904	-165873	-155367
Canal System 2	Buffer	4	-256259	-239783	-235905	-255209	-232000	-255756	-249252	-235909	-236606	-266200	-211655	-241623	-231117

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1150 Silk 2	1151 Silk 2	1152 Silk 2	1153 Silk 2	1154 Silk 2	1155 Silk 2	1156 Silk 2	1157 Silk 2	1158 Silk 2	1159 Silk 2	1160 Silk 2	1161 Silk 2	1162 Silk 2
Start (E. Classic)			15823	34077	51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423
Coyote	SIU	3	14536	32790	50505	48449	52857	52605	17549	47461	17624	46035	46993	24097	65136
Lehi	SIU	3	6883	25137	42852	40796	45204	44953	9897	39808	9972	38383	39340	16445	57484
Los Muertos	SIU	3	-18735	-481	17235	15178	19586	19335	-15721	14190	-15646	12765	13722	-9173	31866
Crismon	SIU	3	-22101	-3847	13869	11812	16220	15969	-19087	10824	-19012	9399	10356	-12539	28500
Scottsdale	SIU	3	-24919	-6665	11050	8994	13402	13151	-21905	8006	-21830	6581	7538	-15358	25682
Riverview	SIU	3	-39657	-21403	-3687	-5744	-1336	-1587	-36643	-6732	-36568	-8157	-7200	-30095	10944
Canal System 2	SIU	3	-59325	-41071	-23355	-25412	-21004	-21255	-56311	-26400	-56236	-27825	-26868	-49763	-8724
Start (E. Classic)			15823	34077	51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423
Coyote	Buffer	3	12311	30565	48281	46225	50633	50381	15325	45236	15400	43811	44769	21873	62912
Lehi	Buffer	3	-16191	2063	19779	17723	22131	21879	-13177	16734	-13102	15309	16267	-6629	34410
Los Muertos	Buffer	3	-68908	-50654	-32939	-34995	-30587	-30838	-65894	-35983	-65819	-37408	-36451	-59347	-18307
Crismon	Buffer	3	-80296	-62043	-44327	-46383	-41975	-42227	-77283	-47371	-77208	-48797	-47839	-70735	-29696
Scottsdale	Buffer	3	-93061	-74807	-57091	-59148	-54740	-54991	-90047	-60136	-89972	-61561	-60604	-83499	-42460
Riverview	Buffer	3	-139993	-121740	-104024	-106080	-101672	-101924	-136980	-107068	-136905	-108494	-107536	-130432	-89393
Canal System 2	Buffer	3	-196806	-178552	-160837	-162893	-158485	-158736	-193793	-163881	-193718	-165306	-164349	-187245	-146205
Start (E. Classic)			15823	34077	51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423
Coyote	SIU	4	14107	32361	50076	48020	52428	52176	17120	47032	17195	45606	46564	23668	64707
Lehi	SIU	4	3903	22157	39873	37816	42224	41973	6917	36828	6992	35403	36360	13465	54504
Los Muertos	SIU	4	-30254	-12000	5715	3659	8067	7816	-27240	2671	-27165	1246	2203	-20693	20347
Crismon	SIU	4	-34742	-16488	1227	-829	3579	3328	-31728	-1817	-31653	-3242	-2285	-25181	15859
Scottsdale	SIU	4	-38500	-20246	-2530	-4586	-178	-430	-35486	-5575	-35411	-7000	-6042	-28938	12101
Riverview	SIU	4	-58150	-39896	-22181	-24237	-19829	-20080	-55136	-25225	-55061	-26650	-25693	-48589	-7549
Canal System 2	SIU	4	-84374	-66120	-48405	-50461	-46053	-46304	-81360	-51449	-81285	-52874	-51917	-74813	-33773
Start (E. Classic)			15823	34077	51792	49736	54144	53892	18836	48748	18911	47322	48280	25384	66423
Coyote	Buffer	4	11141	29395	47111	45054	49462	49211	14155	44066	14230	42641	43598	20703	61742
Lehi	Buffer	4	-26862	-8608	9108	7052	11460	11208	-23848	6063	-23773	4638	5596	-17300	23739
Los Muertos	Buffer	4	-97152	-78898	-61182	-63238	-58830	-59082	-94138	-64227	-94063	-65652	-64694	-87590	-46551
Crismon	Buffer	4	-112336	-94082	-76367	-78423	-74015	-74266	-109322	-79411	-109247	-80836	-79879	-102775	-61735
Scottsdale	Buffer	4	-129355	-111101	-93386	-95442	-91034	-91286	-126342	-96430	-126267	-97856	-96898	-119794	-78755
Riverview	Buffer	4	-191932	-173678	-155963	-158019	-153611	-153862	-188918	-159007	-188843	-160432	-159475	-182371	-141331
Canal System 2	Buffer	4	-267683	-249429	-231713	-233769	-229361	-229613	-264669	-234758	-264594	-236183	-235225	-258121	-217082

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1163 Silk 2	1164 Silk 2	1165 Silk 2	1166 Silk 2	1167 Silk 2	1168 Silk 2	1169 Silk 2	1170 Silk 2	1171 Silk 2	1172 Silk 2	1173 Silk 2	1174 Silk 2	1175 Silk 2
Start (E. Classic)			54669	32709	57727	34924	57135	15395	23522	35303	52132	55737	66944	32744	17296
Coyote	SIU	3	53382	31422	56440	33637	55848	14108	22235	34016	50845	54450	65657	31457	16009
Lehi	SIU	3	45729	23769	48787	25984	48196	6455	14583	26363	43192	46797	58004	23804	8357
Los Muertos	SIU	3	20111	-1849	23169	366	22578	-19163	-11035	746	17574	21179	32387	-1814	-17261
Crismon	SIU	3	16745	-5215	19803	-3000	19212	-22529	-14401	-2620	14208	17813	29021	-5180	-20627
Scottsdale	SIU	3	13927	-8033	16985	-5818	16394	-25347	-17220	-5439	11390	14995	26202	-7998	-23445
Riverview	SIU	3	-811	-22771	2247	-20556	1656	-40085	-31957	-20176	-3348	257	11465	-22736	-38183
Canal System 2	SIU	3	-20479	-42439	-17421	-40224	-18012	-59753	-51625	-39844	-23016	-19411	-8203	-42404	-57851
Start (E. Classic)			54669	32709	57727	34924	57135	15395	23522	35303	52132	55737	66944	32744	17296
Coyote	Buffer	3	51158	29198	54216	31413	53624	11883	20011	31792	48621	52226	63433	29233	13785
Lehi	Buffer	3	22656	695	25713	2910	25122	-16619	-8491	3290	20119	23723	34931	731	-14717
Los Muertos	Buffer	3	-30062	-52022	-27004	-49807	-27595	-69336	-61209	-49428	-32599	-28994	-17787	-51987	-67434
Crismon	Buffer	3	-41450	-63410	-38392	-61195	-38984	-80724	-72597	-60816	-43987	-40382	-29175	-63375	-78823
Scottsdale	Buffer	3	-54215	-76175	-51157	-73960	-51748	-93489	-85361	-73580	-56752	-53147	-41939	-76139	-91587
Riverview	Buffer	3	-101147	-123107	-98089	-120892	-98681	-140421	-132294	-120513	-103684	-100079	-88872	-123072	-138520
Canal System 2	Buffer	3	-157960	-179920	-154902	-177705	-155493	-197234	-189107	-177326	-160497	-156892	-145685	-179885	-195332
Start (E. Classic)			54669	32709	57727	34924	57135	15395	23522	35303	52132	55737	66944	32744	17296
Coyote	SIU	4	52953	30993	56011	33208	55419	13679	21806	33587	50416	54021	65228	31028	15580
Lehi	SIU	4	42749	20789	45807	23004	45216	3475	11603	23384	40212	43817	55025	20824	5377
Los Muertos	SIU	4	8592	-13368	11650	-11153	11059	-30682	-22555	-10774	6055	9660	20867	-13333	-28780
Crismon	SIU	4	4104	-17856	7162	-15641	6571	-35170	-27043	-15262	1567	5172	16379	-17821	-33268
Scottsdale	SIU	4	347	-21614	3404	-19399	2813	-38928	-30800	-19019	-2191	1414	12622	-21578	-37026
Riverview	SIU	4	-19304	-41264	-16246	-39049	-16837	-58578	-50451	-38670	-21841	-18236	-7029	-41229	-56676
Canal System 2	SIU	4	-45528	-67488	-42470	-65273	-43061	-84802	-76675	-64894	-48065	-44460	-33253	-67453	-82900
Start (E. Classic)			54669	32709	57727	34924	57135	15395	23522	35303	52132	55737	66944	32744	17296
Coyote	Buffer	4	49987	28027	53045	30242	52454	10713	18841	30622	47450	51055	62263	28062	12615
Lehi	Buffer	4	11985	-9976	15042	-7761	14451	-27290	-19162	-7381	9447	13052	24260	-9940	-25388
Los Muertos	Buffer	4	-58305	-80266	-55248	-78051	-55839	-97580	-89452	-77671	-60843	-57238	-46030	-80230	-95678
Crismon	Buffer	4	-73490	-95450	-70432	-93235	-71023	-112764	-104637	-92856	-76027	-72422	-61215	-95415	-110862
Scottsdale	Buffer	4	-90509	-112469	-87451	-110254	-88043	-129783	-121656	-109875	-93046	-89441	-78234	-112434	-127882
Riverview	Buffer	4	-153086	-175046	-150028	-172831	-150619	-192360	-184233	-172452	-155623	-152018	-140811	-175011	-190458
Canal System 2	Buffer	4	-228836	-250796	-225778	-248581	-226370	-268111	-259983	-248202	-231373	-227768	-216561	-250761	-266209

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1176 Silk 2	1177 Silk 2	1178 Silk 2	1179 Silk 2	1180 Silk 2	1181 Silk 2	1182 Silk 2	1183 Silk 2	1184 Silk 2	1185 Silk 2	1186 Silk 2	1187 Silk 2	1188 Silk 2
Start (E. Classic)			31967	21837	53892	29730	49732	55997	18858	50186	68616	36371	26854	54400	37761
Coyote	SIU	3	30680	20550	52605	28443	48445	54710	17571	48899	67329	35084	25567	53113	36474
Lehi	SIU	3	23028	12897	44953	20791	40792	47057	9919	41246	59677	27431	17914	45460	28821
Los Muertos	SIU	3	-2590	-12721	19335	-4827	15174	21440	-15699	15628	34059	1813	-7704	19842	3203
Crismon	SIU	3	-5956	-16087	15969	-8193	11808	18074	-19065	12262	30693	-1553	-11070	16476	-163
Scottsdale	SIU	3	-8774	-18905	13151	-11011	8990	15255	-21883	9444	27875	-4371	-13888	13658	-2981
Riverview	SIU	3	-23512	-33643	-1587	-25749	-5748	518	-36621	-5294	13137	-19109	-28626	-1080	-17719
Canal System 2	SIU	3	-43180	-53311	-21255	-45417	-25416	-19150	-56289	-24962	-6531	-38777	-48294	-20748	-37387
Start (E. Classic)			31967	21837	53892	29730	49732	55997	18858	50186	68616	36371	26854	54400	37761
Coyote	Buffer	3	28456	18326	50381	26219	46220	52486	15347	46675	65105	32860	23342	50889	34250
Lehi	Buffer	3	-46	-10177	21879	-2283	17718	23984	-13155	18173	36603	4358	-5160	22387	5748
Los Muertos	Buffer	3	-52763	-62894	-30838	-55000	-34999	-28734	-65872	-34545	-16114	-48360	-57877	-30331	-46970
Crismon	Buffer	3	-64152	-74282	-42227	-66389	-46388	-40122	-77261	-45933	-27503	-59748	-69266	-41719	-58358
Scottsdale	Buffer	3	-76916	-87047	-54991	-79153	-59152	-52886	-90025	-58697	-40267	-72513	-82030	-54484	-71123
Riverview	Buffer	3	-123849	-133979	-101924	-126086	-106085	-99819	-136958	-105630	-87200	-119445	-128963	-101416	-118055
Canal System 2	Buffer	3	-180661	-190792	-158736	-182899	-162897	-156632	-193771	-162443	-144012	-176258	-185775	-158229	-174868
Start (E. Classic)			31967	21837	53892	29730	49732	55997	18858	50186	68616	36371	26854	54400	37761
Coyote	SIU	4	30251	20121	52176	28014	48016	54281	17142	48470	66900	34655	25138	52684	36045
Lehi	SIU	4	20048	9917	41973	17811	37812	44078	6939	38266	56697	24451	14934	42480	25841
Los Muertos	SIU	4	-14109	-24240	7816	-16346	3655	9920	-27218	4109	22540	-9706	-19223	8323	-8316
Crismon	SIU	4	-18597	-28728	3328	-20834	-833	5432	-31706	-379	18052	-14194	-23711	3835	-12804
Scottsdale	SIU	4	-22355	-32486	-430	-24592	-4591	1675	-35464	-4136	14294	-17951	-27469	77	-16562
Riverview	SIU	4	-42005	-52136	-20080	-44242	-24241	-17976	-55114	-23787	-5356	-37602	-47119	-19573	-36212
Canal System 2	SIU	4	-68229	-78360	-46304	-70466	-50465	-44200	-81338	-50011	-31580	-63826	-73343	-45797	-62436
Start (E. Classic)			31967	21837	53892	29730	49732	55997	18858	50186	68616	36371	26854	54400	37761
Coyote	Buffer	4	27286	17155	49211	25049	45050	51316	14177	45504	63935	31689	22172	49718	33079
Lehi	Buffer	4	-10717	-20848	11208	-12954	7047	13313	-23826	7502	25932	-6313	-15831	11715	-4924
Los Muertos	Buffer	4	-81007	-91138	-59082	-83244	-63243	-56977	-94116	-62788	-44358	-76603	-86121	-58575	-75214
Crismon	Buffer	4	-96191	-106322	-74266	-98428	-78427	-72162	-109300	-77973	-59542	-91788	-101305	-73759	-90398
Scottsdale	Buffer	4	-113211	-123341	-91286	-115448	-95446	-89181	-126320	-94992	-76562	-108807	-118324	-90778	-107417
Riverview	Buffer	4	-175787	-185918	-153862	-178024	-158023	-151758	-188896	-157569	-139138	-171384	-180901	-153355	-169994
Canal System 2	Buffer	4	-251538	-261668	-229613	-253775	-233774	-227508	-264647	-233319	-214889	-247134	-256652	-229105	-245744

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1189 Silk 2	1190 Silk 2	1191 Silk 2	1192 Silk 2	1193 Silk 2	1194 Silk 2	1195 Silk 2	1196 Silk 2	1197 Silk 2	1198 Silk 2	1199 Silk 2	1200 Silk 2	1201 Silk 2
Start (E. Classic)			33644	59006	35497	27334	27802	36146	55962	46056	74154	33181	29049	96147	79530
Coyote	SIU	3	32357	57719	34210	26047	26515	34859	54675	44769	72867	31894	27762	94860	78243
Lehi	SIU	3	24704	50067	26558	18395	18863	27206	47022	37116	65214	24241	20109	87207	70590
Los Muertos	SIU	3	-913	24449	940	-7223	-6755	1588	21404	11498	39596	-1377	-5509	61589	44972
Crismon	SIU	3	-4279	21083	-2426	-10589	-10121	-1778	18038	8132	36230	-4743	-8875	58223	41606
Scottsdale	SIU	3	-7098	18265	-5244	-13407	-12940	-4596	15220	5314	33412	-7561	-11693	55405	38788
Riverview	SIU	3	-21835	3527	-19982	-28145	-27677	-19334	482	-9424	18674	-22299	-26431	40667	24050
Canal System 2	SIU	3	-41503	-16141	-39650	-47813	-47345	-39002	-19186	-29092	-994	-41967	-46099	20999	4382
Start (E. Classic)			33644	59006	35497	27334	27802	36146	55962	46056	74154	33181	29049	96147	79530
Coyote	Buffer	3	30133	55495	31986	23823	24291	32635	52451	42545	70643	29670	25538	92635	76018
Lehi	Buffer	3	1631	26993	3484	-4679	-4211	4133	23949	14043	42141	1168	-2964	64133	47516
Los Muertos	Buffer	3	-51087	-25724	-49233	-57396	-56929	-48585	-28769	-38675	-10577	-51550	-55682	11416	-5201
Crismon	Buffer	3	-62475	-37113	-60622	-68785	-68317	-59973	-40157	-50063	-21965	-62938	-67070	27	-16589
Scottsdale	Buffer	3	-75239	-49877	-73386	-81549	-81081	-72738	-52922	-62827	-34730	-75703	-79835	-12737	-29354
Riverview	Buffer	3	-122172	-96810	-120319	-128482	-128014	-119670	-99854	-109760	-81662	-122635	-126767	-59670	-76286
Canal System 2	Buffer	3	-178985	-153623	-177132	-185294	-184827	-176483	-156667	-166573	-138475	-179448	-183580	-116482	-133099
Start (E. Classic)			33644	59006	35497	27334	27802	36146	55962	46056	74154	33181	29049	96147	79530
Coyote	SIU	4	31928	57290	33781	25618	26086	34430	54246	44340	72438	31465	27333	94431	77814
Lehi	SIU	4	21725	47087	23578	15415	15883	24226	44042	34136	62234	21261	17129	84227	67610
Los Muertos	SIU	4	-12433	12930	-10579	-18742	-18275	-9931	9885	-21	28077	-12896	-17028	50070	33453
Crismon	SIU	4	-16921	8442	-15067	-23230	-22763	-14419	5397	-4509	23589	-17384	-21516	45582	28965
Scottsdale	SIU	4	-20678	4684	-18825	-26988	-26520	-18176	1639	-8266	19832	-21142	-25274	41824	25207
Riverview	SIU	4	-40329	-14966	-38475	-46638	-46171	-37827	-18011	-27917	181	-40792	-44924	22174	5557
Canal System 2	SIU	4	-66553	-41190	-64699	-72862	-72395	-64051	-44235	-54141	-26043	-67016	-71148	-4050	-20667
Start (E. Classic)			33644	59006	35497	27334	27802	36146	55962	46056	74154	33181	29049	96147	79530
Coyote	Buffer	4	28963	54325	30816	22653	23121	31464	51280	41374	69472	28499	24367	91465	74848
Lehi	Buffer	4	-9040	16322	-7187	-15350	-14882	-6538	13277	3372	31470	-9504	-13636	53462	36845
Los Muertos	Buffer	4	-79330	-53968	-77477	-85640	-85172	-76828	-57013	-66918	-38820	-79794	-83926	-16828	-33445
Crismon	Buffer	4	-94515	-69152	-92661	-100824	-100357	-92013	-72197	-82103	-54005	-94978	-99110	-32012	-48629
Scottsdale	Buffer	4	-111534	-86172	-109681	-117844	-117376	-109032	-89216	-99122	-71024	-111997	-116129	-49031	-65648
Riverview	Buffer	4	-174111	-148748	-172257	-180420	-179953	-171609	-151793	-161699	-133601	-174574	-178706	-111608	-128225
Canal System 2	Buffer	4	-249861	-224499	-248008	-256171	-255703	-247359	-227543	-237449	-209351	-250324	-254456	-187359	-203976

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1202 Silk 2	1203 Silk 2	1204 Silk 2	1205 Silk 2	1206 Silk 2	1207 Silk 2	1208 Silk 2	1209 Silk 2	1210 Silk 2	1211 Silk 2	1212 Silk 2	1213 Silk 2	1214 Silk 2
Start (E. Classic)			66255	44643	44133	28739	31109	45026	34272	62912	52545	50782	51335	35472	23409
Coyote	SIU	3	64968	43356	42846	27452	29822	43739	32985	61625	51258	49495	50048	34185	22122
Lehi	SIU	3	57316	35703	35193	19799	22169	36087	25333	53972	43605	41842	42395	26533	14469
Los Muertos	SIU	3	31698	10085	9575	-5819	-3449	10469	-285	28354	17987	16224	16777	915	-11149
Crismon	SIU	3	28332	6719	6209	-9185	-6815	7103	-3651	24988	14621	12858	13411	-2451	-14515
Scottsdale	SIU	3	25514	3901	3391	-12003	-9633	4284	-6470	22170	11803	10040	10593	-5270	-17333
Riverview	SIU	3	10776	-10837	-11347	-26741	-24371	-10453	-21207	7432	-2935	-4698	-4145	-20007	-32071
Canal System 2	SIU	3	-8892	-30505	-31015	-46409	-44039	-30121	-40875	-12236	-22603	-24366	-23813	-39675	-51739
Start (E. Classic)			66255	44643	44133	28739	31109	45026	34272	62912	52545	50782	51335	35472	23409
Coyote	Buffer	3	62744	41132	40622	25228	27598	41515	30761	59400	49034	47271	47823	31961	19898
Lehi	Buffer	3	34242	12630	12120	-3274	-905	13013	2259	30898	20532	18768	19321	3459	-8604
Los Muertos	Buffer	3	-18475	-40088	-40598	-55992	-53622	-39705	-50459	-21819	-32186	-33949	-33396	-49259	-61322
Crismon	Buffer	3	-29864	-51476	-51986	-67380	-65010	-51093	-61847	-33208	-43574	-45337	-44784	-60647	-72710
Scottsdale	Buffer	3	-42628	-64241	-64750	-80145	-77775	-63857	-74611	-45972	-56338	-58102	-57549	-73411	-85475
Riverview	Buffer	3	-89561	-111173	-111683	-127077	-124707	-110790	-121544	-92905	-103271	-105034	-104481	-120344	-132407
Canal System 2	Buffer	3	-146373	-167986	-168496	-183890	-181520	-167603	-178357	-149717	-160084	-161847	-161294	-177157	-189220
Start (E. Classic)			66255	44643	44133	28739	31109	45026	34272	62912	52545	50782	51335	35472	23409
Coyote	SIU	4	64539	42927	42417	27023	29393	43310	32556	61196	50829	49066	49619	33756	21693
Lehi	SIU	4	54336	32723	32213	16819	19189	33107	22353	50992	40625	38862	39415	23553	11489
Los Muertos	SIU	4	20179	-1434	-1944	-17338	-14968	-1051	-11805	16835	6468	4705	5258	-10605	-22668
Crismon	SIU	4	15691	-5922	-6432	-21826	-19456	-5539	-16293	12347	1980	217	770	-15093	-27156
Scottsdale	SIU	4	11933	-9680	-10189	-25584	-23214	-9296	-20050	8589	-1777	-3541	-2988	-18850	-30914
Riverview	SIU	4	-7717	-29330	-29840	-45234	-42864	-28947	-39701	-11061	-21428	-23191	-22638	-38501	-50564
Canal System 2	SIU	4	-33941	-55554	-56064	-71458	-69088	-55171	-65925	-37285	-47652	-49415	-48862	-64725	-76788
Start (E. Classic)			66255	44643	44133	28739	31109	45026	34272	62912	52545	50782	51335	35472	23409
Coyote	Buffer	4	61574	39961	39451	24057	26427	40345	29591	58230	47863	46100	46653	30791	18727
Lehi	Buffer	4	23571	1958	1449	-13946	-11576	2342	-8412	20227	9861	8097	8650	-7212	-19276
Los Muertos	Buffer	4	-46719	-68332	-68841	-84236	-81866	-67948	-78702	-50063	-60429	-62193	-61640	-77502	-89566
Crismon	Buffer	4	-61903	-83516	-84026	-99420	-97050	-83133	-93887	-65247	-75614	-77377	-76824	-92687	-104750
Scottsdale	Buffer	4	-78923	-100535	-101045	-116439	-114069	-100152	-110906	-82266	-92633	-94396	-93843	-109706	-121769
Riverview	Buffer	4	-141499	-163112	-163622	-179016	-176646	-162729	-173483	-144843	-155210	-156973	-156420	-172283	-184346
Canal System 2	Buffer	4	-217250	-238862	-239372	-254766	-252396	-238479	-249233	-220594	-230960	-232723	-232171	-248033	-260096

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1215 Silk 2	1216 Silk 2	1217 Silk 2	1218 Silk 2	1219 Silk 2	1220 Silk 2	1221 Silk 2	1222 Silk 2	1223 Silk 2	1224 Silk 2	1225 Silk 2	1226 Silk 2	1227 Silk 2
Start (E. Classic)			20014	21026	16452	37458	58553	33376	26866	33081	44788	39326	40945	44689	12879
Coyote	SIU	3	18727	19739	15165	36171	57266	32089	25579	31794	43501	38039	39658	43402	11592
Lehi	SIU	3	11074	12086	7513	28518	49613	24437	17926	24141	35849	30386	32005	35749	3940
Los Muertos	SIU	3	-14544	-13532	-18105	2900	23995	-1181	-7692	-1477	10231	4768	6387	10132	-21678
Crismon	SIU	3	-17910	-16898	-21471	-466	20629	-4547	-11058	-4843	6865	1402	3021	6766	-25044
Scottsdale	SIU	3	-20728	-19716	-24289	-3284	17811	-7365	-13876	-7661	4047	-1416	203	3947	-27863
Riverview	SIU	3	-35466	-34454	-39027	-18022	3073	-22103	-28614	-22399	-10691	-16154	-14535	-10790	-42600
Canal System 2	SIU	3	-55134	-54122	-58695	-37690	-16595	-41771	-48282	-42067	-30359	-35822	-34203	-30458	-62268
Start (E. Classic)			20014	21026	16452	37458	58553	33376	26866	33081	44788	39326	40945	44689	12879
Coyote	Buffer	3	16503	17515	12941	33946	55042	29865	23355	29570	41277	35815	37434	41178	9368
Lehi	Buffer	3	-12000	-10987	-15561	5444	26540	1363	-5148	1068	12775	7313	8932	12676	-19134
Los Muertos	Buffer	3	-64717	-63705	-68278	-47273	-26178	-51354	-57865	-51650	-39942	-45405	-43786	-40042	-71852
Crismon	Buffer	3	-76105	-75093	-79667	-58661	-37566	-62743	-69253	-63038	-51331	-56793	-55174	-51430	-83240
Scottsdale	Buffer	3	-88870	-87857	-92431	-71426	-50331	-75507	-82018	-75803	-64095	-69558	-67939	-64194	-96004
Riverview	Buffer	3	-135802	-134790	-139364	-118358	-97263	-122440	-128950	-122735	-111028	-116490	-114871	-111127	-142937
Canal System 2	Buffer	3	-192615	-191603	-196176	-175171	-154076	-179253	-185763	-179548	-167840	-173303	-171684	-167940	-199750
Start (E. Classic)			20014	21026	16452	37458	58553	33376	26866	33081	44788	39326	40945	44689	12879
Coyote	SIU	4	18298	19310	14736	35742	56837	31660	25150	31365	43072	37610	39229	42973	11163
Lehi	SIU	4	8094	9106	4533	25538	46633	21457	14946	21161	32869	27406	29025	32770	960
Los Muertos	SIU	4	-26063	-25051	-29624	-8619	12476	-12700	-19211	-12996	-1288	-6751	-5132	-1388	-33198
Crismon	SIU	4	-30551	-29539	-34112	-13107	7988	-17188	-23699	-17484	-5776	-11239	-9620	-5876	-37686
Scottsdale	SIU	4	-34309	-33296	-37870	-16865	4230	-20946	-27457	-21241	-9534	-14997	-13378	-9633	-41443
Riverview	SIU	4	-53959	-52947	-57520	-36515	-15420	-40596	-47107	-40892	-29184	-34647	-33028	-29284	-61094
Canal System 2	SIU	4	-80183	-79171	-83744	-62739	-41644	-66820	-73331	-67116	-55408	-60871	-59252	-55508	-87318
Start (E. Classic)			20014	21026	16452	37458	58553	33376	26866	33081	44788	39326	40945	44689	12879
Coyote	Buffer	4	15332	16344	11771	32776	53871	28695	22184	28399	40107	34644	36263	40008	8198
Lehi	Buffer	4	-22671	-21658	-26232	-5227	15868	-9308	-15819	-9603	2104	-3359	-1740	2005	-29805
Los Muertos	Buffer	4	-92961	-91948	-96522	-75517	-54422	-79598	-86109	-79893	-68186	-73649	-72030	-68285	-100095
Crismon	Buffer	4	-108145	-107133	-111706	-90701	-69606	-94782	-101293	-95078	-83370	-88833	-87214	-83470	-115280
Scottsdale	Buffer	4	-125164	-124152	-128726	-107720	-86625	-111802	-118312	-112097	-100390	-105852	-104233	-100489	-132299
Riverview	Buffer	4	-187741	-186729	-191302	-170297	-149202	-174378	-180889	-174674	-162966	-168429	-166810	-163066	-194876
Canal System 2	Buffer	4	-263491	-262479	-267053	-246048	-224952	-250129	-256639	-250424	-238717	-244179	-242560	-238816	-270626

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1228 Silk 2	1229 Silk 2	1230 Silk 2	1231 Silk 2	1232 Silk 2	1233 Silk 2	1234 Silk 2	1235 Silk 2	1236 Silk 2	1237 Silk 2	1238 Silk 2	1239 Silk 2	1240 Silk 2
Start (E. Classic)			87750	67387	52931	40106	71211	26754	29854	58364	29629	47840	66400	48001	29514
Coyote	SIU	3	86463	66100	51644	38819	69924	25467	28567	57077	28342	46553	65113	46714	28227
Lehi	SIU	3	78810	58447	43991	31166	62271	17814	20914	49424	20689	38900	57460	39061	20574
Los Muertos	SIU	3	53192	32829	18373	5548	36654	-7804	-4704	23806	-4929	13283	31842	13443	-5043
Crismon	SIU	3	49826	29463	15007	2182	33288	-11170	-8070	20440	-8295	9917	28476	10077	-8409
Scottsdale	SIU	3	47008	26645	12189	-636	30469	-13988	-10888	17622	-11113	7098	25658	7259	-11228
Riverview	SIU	3	32270	11907	-2549	-15374	15732	-28726	-25626	2884	-25851	-7639	10920	-7479	-25965
Canal System 2	SIU	3	12602	-7761	-22217	-35042	-3936	-48394	-45294	-16784	-45519	-27307	-8748	-27147	-45633
Start (E. Classic)			87750	67387	52931	40106	71211	26754	29854	58364	29629	47840	66400	48001	29514
Coyote	Buffer	3	84239	63876	49420	36594	67700	23243	26343	54853	26118	44329	62889	44490	26003
Lehi	Buffer	3	55736	35374	20918	8092	39198	-5259	-2159	26350	-2384	15827	34387	15987	-2499
Los Muertos	Buffer	3	3019	-17344	-31800	-44625	-13520	-57977	-54877	-26367	-55102	-36891	-18331	-36730	-55217
Crismon	Buffer	3	-8369	-28732	-43188	-56014	-24908	-69365	-66265	-37755	-66490	-48279	-29719	-48118	-66605
Scottsdale	Buffer	3	-21134	-41497	-55952	-68778	-37672	-82130	-79030	-50520	-79254	-61043	-42483	-60883	-79369
Riverview	Buffer	3	-68066	-88429	-102885	-115711	-84605	-129062	-125962	-97452	-126187	-107976	-89416	-107815	-126302
Canal System 2	Buffer	3	-124879	-145242	-159698	-172523	-141418	-185875	-182775	-154265	-183000	-164789	-146229	-164628	-183115
Start (E. Classic)			87750	67387	52931	40106	71211	26754	29854	58364	29629	47840	66400	48001	29514
Coyote	SIU	4	86034	65671	51215	38390	69495	25038	28138	56648	27913	46124	64684	46285	27798
Lehi	SIU	4	75830	55467	41011	28186	59292	14834	17934	46444	17709	35921	54480	36081	17595
Los Muertos	SIU	4	41673	21310	6854	-5971	25134	-19323	-16223	12287	-16448	1763	20323	1924	-16563
Crismon	SIU	4	37185	16822	2366	-10459	20646	-23811	-20711	7799	-20936	-2725	15835	-2564	-21051
Scottsdale	SIU	4	33427	13064	-1391	-14217	16889	-27569	-24468	4041	-24693	-6482	12078	-6322	-24808
Riverview	SIU	4	13777	-6586	-21042	-33867	-2762	-47219	-44119	-15609	-44344	-26133	-7573	-25972	-44459
Canal System 2	SIU	4	-12447	-32810	-47266	-60091	-28986	-73443	-70343	-41833	-70568	-52357	-33797	-52196	-70683
Start (E. Classic)			87750	67387	52931	40106	71211	26754	29854	58364	29629	47840	66400	48001	29514
Coyote	Buffer	4	83068	62705	48249	35424	66530	22072	25172	53682	24947	43159	61718	43319	24833
Lehi	Buffer	4	45065	24702	10247	-2579	28527	-15931	-12830	15679	-13055	5156	23716	5316	-13170
Los Muertos	Buffer	4	-25225	-45588	-60043	-72869	-41763	-86221	-83120	-54611	-83345	-65134	-46574	-64974	-83460
Crismon	Buffer	4	-40409	-60772	-75228	-88053	-56948	-101405	-98305	-69795	-98530	-80319	-61759	-80158	-98645
Scottsdale	Buffer	4	-57428	-77791	-92247	-105072	-73967	-118424	-115324	-86814	-115549	-97338	-78778	-97177	-115664
Riverview	Buffer	4	-120005	-140368	-154824	-167649	-136544	-181001	-177901	-149391	-178126	-159915	-141355	-159754	-178241
Canal System 2	Buffer	4	-195755	-216118	-230574	-243400	-212294	-256751	-253651	-225141	-253876	-235665	-217105	-235504	-253991

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1241 Silk 2	1242 Silk 2	1243 Silk 2	1244 Silk 2	1245 Silk 2	1246 Silk 2	1247 Silk 2	1248 Silk 2	1249 Silk 2	1250 Silk 2	1251 Silk 2	1252 Silk 2	1253 Silk 2
Start (E. Classic)			71381	48127	45873	44638	38993	22979	33900	66767	70718	30728	14000	37529	49867
Coyote	SIU	3	70094	46840	44586	43351	37706	21692	32613	65480	69431	29441	12713	36242	48580
Lehi	SIU	3	62441	39188	36933	35699	30053	14039	24960	57827	61778	21789	5061	28589	40927
Los Muertos	SIU	3	36823	13570	11316	10081	4435	-11579	-658	32209	36160	-3829	-20557	2971	15309
Crismon	SIU	3	33457	10204	7950	6715	1069	-14945	-4024	28843	32794	-7195	-23923	-395	11943
Scottsdale	SIU	3	30639	7386	5131	3897	-1749	-17763	-6842	26025	29976	-10013	-26741	-3213	9125
Riverview	SIU	3	15901	-7352	-9606	-10841	-16487	-32501	-21580	11287	15238	-24751	-41479	-17951	-5613
Canal System 2	SIU	3	-3767	-27020	-29274	-30509	-36155	-52169	-41248	-8381	-4430	-44419	-61147	-37619	-25281
Start (E. Classic)			71381	48127	45873	44638	38993	22979	33900	66767	70718	30728	14000	37529	49867
Coyote	Buffer	3	67870	44616	42362	41127	35481	19467	30389	63255	67206	27217	10489	34018	46356
Lehi	Buffer	3	39368	16114	13860	12625	6979	-9035	1887	34753	38704	-1285	-18013	5516	17853
Los Muertos	Buffer	3	-13350	-36603	-38858	-40092	-45738	-61752	-50831	-17964	-14013	-54002	-70730	-47202	-34864
Crismon	Buffer	3	-24738	-47992	-50246	-51481	-57127	-73141	-62219	-29353	-25402	-65391	-82119	-58590	-46252
Scottsdale	Buffer	3	-37503	-60756	-63010	-64245	-69891	-85905	-74984	-42117	-38166	-78155	-94883	-71355	-59017
Riverview	Buffer	3	-84435	-107689	-109943	-111178	-116824	-132838	-121916	-89050	-85099	-125088	-141816	-118287	-105949
Canal System 2	Buffer	3	-141248	-164502	-166756	-167990	-173636	-189650	-178729	-145862	-141911	-181900	-198628	-175100	-162762
Start (E. Classic)			71381	48127	45873	44638	38993	22979	33900	66767	70718	30728	14000	37529	49867
Coyote	SIU	4	69665	46411	44157	42922	37277	21263	32184	65051	69002	29012	12284	35813	48151
Lehi	SIU	4	59461	36208	33954	32719	27073	11059	21980	54847	58798	18809	2081	25609	37947
Los Muertos	SIU	4	25304	2051	-204	-1438	-7084	-23098	-12177	20690	24641	-15348	-32076	-8548	3790
Crismon	SIU	4	20816	-2437	-4692	-5926	-11572	-27586	-16665	16202	20153	-19836	-36564	-13036	-698
Scottsdale	SIU	4	17058	-6195	-8449	-9684	-15330	-31344	-20423	12444	16395	-23594	-40322	-16794	-4456
Riverview	SIU	4	-2592	-25845	-28100	-29334	-34980	-50994	-40073	-7206	-3255	-43244	-59972	-36444	-24106
Canal System 2	SIU	4	-28816	-52069	-54324	-55558	-61204	-77218	-66297	-33430	-29479	-69468	-86196	-62668	-50330
Start (E. Classic)			71381	48127	45873	44638	38993	22979	33900	66767	70718	30728	14000	37529	49867
Coyote	Buffer	4	66699	43446	41192	39957	34311	18297	29218	62085	66036	26047	9319	32847	45185
Lehi	Buffer	4	28696	5443	3189	1954	-3692	-19706	-8785	24082	28033	-11956	-28684	-5156	7182
Los Muertos	Buffer	4	-41594	-64847	-67101	-68336	-73982	-89996	-79075	-46208	-42257	-82246	-98974	-75446	-63108
Crismon	Buffer	4	-56778	-80031	-82286	-83520	-89166	-105180	-94259	-61392	-57441	-97430	-114158	-90630	-78292
Scottsdale	Buffer	4	-73797	-97051	-99305	-100540	-106185	-122199	-111278	-78411	-74460	-114450	-131178	-107649	-95311
Riverview	Buffer	4	-136374	-159627	-161882	-163116	-168762	-184776	-173855	-140988	-137037	-177026	-193754	-170226	-157888
Canal System 2	Buffer	4	-212124	-235378	-237632	-238867	-244513	-260527	-249605	-216739	-212788	-252777	-269505	-245976	-233638

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1254 Silk 2	1255 Silk 2	1256 Silk 2	1257 Silk 2	1258 Silk 2	1259 Silk 2	1260 Silk 2	1261 Silk 2	1262 Silk 2	1263 Silk 2	1264 Silk 2	1265 Silk 2	1266 Silk 2
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	SIU	3	9373	69723	48962	39842	15620	143155	38883	45389	49084	16859	28152	40454	41728
Lehi	SIU	3	1720	62070	41309	32189	7967	135502	31230	37736	41431	9207	20499	32801	34075
Los Muertos	SIU	3	-23898	36452	15691	6571	-17651	109885	5612	12118	15813	-16411	-5119	7183	8457
Crismon	SIU	3	-27264	33086	12325	3205	-21017	106519	2246	8752	12447	-19777	-8485	3817	5091
Scottsdale	SIU	3	-30082	30268	9507	387	-23835	103700	-572	5934	9629	-22596	-11303	999	2273
Riverview	SIU	3	-44820	15530	-5231	-14351	-38573	88963	-15310	-8804	-5109	-37333	-26041	-13739	-12465
Canal System 2	SIU	3	-64488	-4138	-24899	-34019	-58241	69295	-34978	-28472	-24777	-57001	-45709	-33407	-32133
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	Buffer	3	7148	67498	46738	37617	13395	140931	36659	43164	46860	14635	25927	38230	39504
Lehi	Buffer	3	-21354	38996	18236	9115	-15107	112429	8157	14662	18358	-13867	-2575	9728	11002
Los Muertos	Buffer	3	-74071	-13721	-34482	-43602	-67824	59711	-44561	-38055	-34360	-66585	-55292	-42990	-41716
Crismon	Buffer	3	-85459	-25110	-45870	-54991	-79212	48323	-55949	-49443	-45748	-77973	-66681	-54378	-53104
Scottsdale	Buffer	3	-98224	-37874	-58635	-67755	-91977	35559	-68714	-62208	-58513	-90737	-79445	-67143	-65868
Riverview	Buffer	3	-145156	-84807	-105567	-114688	-138909	-11374	-115646	-109140	-105445	-137670	-126378	-114075	-112801
Canal System 2	Buffer	3	-201969	-141619	-162380	-171500	-195722	-68187	-172459	-165953	-162258	-194483	-183190	-170888	-169614
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	SIU	4	8944	69294	48533	39413	15191	142726	38454	44960	48655	16430	27723	40025	41299
Lehi	SIU	4	-1260	59090	38329	29209	4987	132523	28250	34756	38451	6227	17519	29821	31095
Los Muertos	SIU	4	-35417	24933	4172	-4948	-29170	98365	-5907	599	4294	-27931	-16638	-4336	-3062
Crismon	SIU	4	-39905	20445	-316	-9436	-33658	93877	-10395	-3889	-194	-32419	-21126	-8824	-7550
Scottsdale	SIU	4	-43663	16687	-4073	-13194	-37416	90120	-14153	-7647	-3952	-36176	-24884	-12581	-11307
Riverview	SIU	4	-63313	-2963	-23724	-32844	-57066	70469	-33803	-27297	-23602	-55827	-44534	-32232	-30958
Canal System 2	SIU	4	-89537	-29187	-49948	-59068	-83290	44245	-60027	-53521	-49826	-82051	-70758	-58456	-57182
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	Buffer	4	5978	66328	45567	36447	12225	139761	35488	41994	45689	13465	24757	37059	38333
Lehi	Buffer	4	-32025	28325	7565	-1556	-25778	101758	-2515	3991	7686	-24538	-13246	-943	331
Los Muertos	Buffer	4	-102315	-41965	-62725	-71846	-96068	31468	-72805	-66299	-62604	-94828	-83536	-71233	-69959
Crismon	Buffer	4	-117499	-57149	-77910	-87030	-111252	16283	-87989	-81483	-77788	-110013	-98720	-86418	-85144
Scottsdale	Buffer	4	-134518	-74168	-94929	-104049	-128271	-736	-105008	-98502	-94807	-127032	-115739	-103437	-102163
Riverview	Buffer	4	-197095	-136745	-157506	-166626	-190848	-63313	-167585	-161079	-157384	-189609	-178316	-166014	-164740
Canal System 2	Buffer	4	-272846	-212496	-233256	-242377	-266599	-139063	-243335	-236830	-233134	-265359	-254067	-241764	-240490

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1254 Silk 2	1255 Silk 2	1256 Silk 2	1257 Silk 2	1258 Silk 2	1259 Silk 2	1260 Silk 2	1261 Silk 2	1262 Silk 2	1263 Silk 2	1264 Silk 2	1265 Silk 2	1266 Silk 2
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	SIU	3	9373	69723	48962	39842	15620	143155	38883	45389	49084	16859	28152	40454	41728
Lehi	SIU	3	1720	62070	41309	32189	7967	135502	31230	37736	41431	9207	20499	32801	34075
Los Muertos	SIU	3	-23898	36452	15691	6571	-17651	109885	5612	12118	15813	-16411	-5119	7183	8457
Crismon	SIU	3	-27264	33086	12325	3205	-21017	106519	2246	8752	12447	-19777	-8485	3817	5091
Scottsdale	SIU	3	-30082	30268	9507	387	-23835	103700	-572	5934	9629	-22596	-11303	999	2273
Riverview	SIU	3	-44820	15530	-5231	-14351	-38573	88963	-15310	-8804	-5109	-37333	-26041	-13739	-12465
Canal System 2	SIU	3	-64488	-4138	-24899	-34019	-58241	69295	-34978	-28472	-24777	-57001	-45709	-33407	-32133
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	Buffer	3	7148	67498	46738	37617	13395	140931	36659	43164	46860	14635	25927	38230	39504
Lehi	Buffer	3	-21354	38996	18236	9115	-15107	112429	8157	14662	18358	-13867	-2575	9728	11002
Los Muertos	Buffer	3	-74071	-13721	-34482	-43602	-67824	59711	-44561	-38055	-34360	-66585	-55292	-42990	-41716
Crismon	Buffer	3	-85459	-25110	-45870	-54991	-79212	48323	-55949	-49443	-45748	-77973	-66681	-54378	-53104
Scottsdale	Buffer	3	-98224	-37874	-58635	-67755	-91977	35559	-68714	-62208	-58513	-90737	-79445	-67143	-65868
Riverview	Buffer	3	-145156	-84807	-105567	-114688	-138909	-11374	-115646	-109140	-105445	-137670	-126378	-114075	-112801
Canal System 2	Buffer	3	-201969	-141619	-162380	-171500	-195722	-68187	-172459	-165953	-162258	-194483	-183190	-170888	-169614
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	SIU	4	8944	69294	48533	39413	15191	142726	38454	44960	48655	16430	27723	40025	41299
Lehi	SIU	4	-1260	59090	38329	29209	4987	132523	28250	34756	38451	6227	17519	29821	31095
Los Muertos	SIU	4	-35417	24933	4172	-4948	-29170	98365	-5907	599	4294	-27931	-16638	-4336	-3062
Crismon	SIU	4	-39905	20445	-316	-9436	-33658	93877	-10395	-3889	-194	-32419	-21126	-8824	-7550
Scottsdale	SIU	4	-43663	16687	-4073	-13194	-37416	90120	-14153	-7647	-3952	-36176	-24884	-12581	-11307
Riverview	SIU	4	-63313	-2963	-23724	-32844	-57066	70469	-33803	-27297	-23602	-55827	-44534	-32232	-30958
Canal System 2	SIU	4	-89537	-29187	-49948	-59068	-83290	44245	-60027	-53521	-49826	-82051	-70758	-58456	-57182
Start (E. Classic)			10660	71010	50249	41129	16907	144442	40170	46676	50371	18146	29439	41741	43015
Coyote	Buffer	4	5978	66328	45567	36447	12225	139761	35488	41994	45689	13465	24757	37059	38333
Lehi	Buffer	4	-32025	28325	7565	-1556	-25778	101758	-2515	3991	7686	-24538	-13246	-943	331
Los Muertos	Buffer	4	-102315	-41965	-62725	-71846	-96068	31468	-72805	-66299	-62604	-94828	-83536	-71233	-69959
Crismon	Buffer	4	-117499	-57149	-77910	-87030	-111252	16283	-87989	-81483	-77788	-110013	-98720	-86418	-85144
Scottsdale	Buffer	4	-134518	-74168	-94929	-104049	-128271	-736	-105008	-98502	-94807	-127032	-115739	-103437	-102163
Riverview	Buffer	4	-197095	-136745	-157506	-166626	-190848	-63313	-167585	-161079	-157384	-189609	-178316	-166014	-164740
Canal System 2	Buffer	4	-272846	-212496	-233256	-242377	-266599	-139063	-243335	-236830	-233134	-265359	-254067	-241764	-240490

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1280 Silk 2	1281 Silk 2	1282 Silk 2	1283 Silk 2	1284 Silk 2	1285 Silk 2	1286 Silk 2	1287 Silk 2	1288 Silk 2	1289 Silk 2	1290 Silk 2	1291 Silk 2	1292 Silk 2
Start (E. Classic)			20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317	28037
Coyote	SIU	3	18949	47333	39670	21249	42651	33867	14817	36399	10814	37450	66050	33030	26750
Lehi	SIU	3	11296	39680	32018	13596	34999	26214	7165	28746	3162	29797	58397	25377	19097
Los Muertos	SIU	3	-14322	14062	6400	-12022	9381	597	-18453	3128	-22456	4179	32779	-241	-6521
Crismon	SIU	3	-17688	10696	3034	-15388	6015	-2769	-21819	-238	-25822	813	29413	-3607	-9887
Scottsdale	SIU	3	-20506	7878	216	-18206	3197	-5588	-24638	-3056	-28640	-2005	26595	-6425	-12705
Riverview	SIU	3	-35244	-6860	-14522	-32944	-11541	-20325	-39375	-17794	-43378	-16743	11857	-21163	-27443
Canal System 2	SIU	3	-54912	-26528	-34190	-52612	-31209	-39993	-59043	-37462	-63046	-36411	-7811	-40831	-47111
Start (E. Classic)			20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317	28037
Coyote	Buffer	3	16725	45109	37446	19025	40427	31643	12593	34175	8590	35225	63826	30806	24525
Lehi	Buffer	3	-11777	16606	8944	-9477	11925	3141	-15909	5673	-19912	6723	35323	2304	-3977
Los Muertos	Buffer	3	-64495	-36111	-43773	-62195	-40792	-49577	-68627	-47045	-72629	-45994	-17394	-50414	-56694
Crismon	Buffer	3	-75883	-47499	-55162	-73583	-52181	-60965	-80015	-58433	-84018	-57382	-28782	-61802	-68082
Scottsdale	Buffer	3	-88648	-60264	-67926	-86348	-64945	-73729	-92779	-71198	-96782	-70147	-41547	-74567	-80847
Riverview	Buffer	3	-135580	-107196	-114859	-133280	-111878	-120662	-139712	-118130	-143715	-117079	-88479	-121499	-127779
Canal System 2	Buffer	3	-192393	-164009	-171671	-190093	-168690	-177475	-196525	-174943	-200528	-173892	-145292	-178312	-184592
Start (E. Classic)			20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317	28037
Coyote	SIU	4	18520	46904	39241	20820	42222	33438	14388	35970	10385	37021	65621	32601	26321
Lehi	SIU	4	8316	36700	29038	10616	32019	23235	4185	25766	182	26817	55417	22397	16117
Los Muertos	SIU	4	-25841	2543	-5119	-23541	-2138	-10923	-29973	-8391	-33975	-7340	21260	-11760	-18040
Crismon	SIU	4	-30329	-1945	-9607	-28029	-6626	-15411	-34461	-12879	-38463	-11828	16772	-16248	-22528
Scottsdale	SIU	4	-34087	-5703	-13365	-31786	-10384	-19168	-38218	-16636	-42221	-15586	13014	-20005	-26286
Riverview	SIU	4	-53737	-25353	-33015	-51437	-30034	-38819	-57869	-36287	-61871	-35236	-6636	-39656	-45936
Canal System 2	SIU	4	-79961	-51577	-59239	-77661	-56258	-65043	-84093	-62511	-88095	-61460	-32860	-65880	-72160
Start (E. Classic)			20236	48620	40957	22536	43938	35154	16104	37686	12101	38737	67337	34317	28037
Coyote	Buffer	4	15554	43938	36276	17854	39257	30473	11423	33004	7420	34055	62655	29635	23355
Lehi	Buffer	4	-22449	5935	-1727	-20148	1254	-7530	-26580	-4998	-30583	-3948	24652	-8367	-14648
Los Muertos	Buffer	4	-92739	-64355	-72017	-90438	-69036	-77820	-96870	-75288	-100873	-74238	-45638	-78657	-84938
Crismon	Buffer	4	-107923	-79539	-87201	-105623	-84220	-93005	-112055	-90473	-116057	-89422	-60822	-93842	-100122
Scottsdale	Buffer	4	-124942	-96558	-104221	-122642	-101240	-110024	-129074	-107492	-133077	-106441	-77841	-110861	-117141
Riverview	Buffer	4	-187519	-159135	-166797	-185219	-163816	-172601	-191651	-170069	-195653	-169018	-140418	-173438	-179718
Canal System 2	Buffer	4	-263269	-234885	-242548	-260969	-239567	-248351	-267401	-245819	-271404	-244769	-216168	-249188	-255469

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1293 Silk 2	1294 Silk 2	1295 Silk 2	1296 Silk 2	1297 Silk 2	1298 Silk 2	1299 Silk 2	Total Deficits
Start (E. Classic)			60874	34341	16153	66593	33963	104468	15375	
Coyote	SIU	3	59587	33054	14866	65306	32676	103181	14088	0
Lehi	SIU	3	51935	25402	7214	57653	25023	95529	6435	0
Los Muertos	SIU	3	26317	-216	-18404	32035	-595	69911	-19182	74
Crismon	SIU	3	22951	-3582	-21770	28669	-3961	66545	-22548	90
Scottsdale	SIU	3	20132	-6401	-24588	25851	-6779	63727	-25367	100
Riverview	SIU	3	5395	-21138	-39326	11113	-21517	48989	-40104	161
Canal System 2	SIU	3	-14273	-40806	-58994	-8555	-41185	29321	-59772	192
Start (E. Classic)			60874	34341	16153	66593	33963	104468	15375	
Coyote	Buffer	3	57363	30830	12642	63082	30452	100957	11864	0
Lehi	Buffer	3	28861	2328	-15860	34580	1950	72455	-16638	58
Los Muertos	Buffer	3	-23857	-50390	-68577	-18138	-50768	19738	-69356	193
Crismon	Buffer	3	-35245	-61778	-79966	-29526	-62156	8349	-80744	196
Scottsdale	Buffer	3	-48009	-74542	-92730	-42290	-74920	-4415	-93508	198
Riverview	Buffer	3	-94942	-121475	-139663	-89223	-121853	-51348	-140441	199
Canal System 2	Buffer	3	-151755	-178288	-196476	-146036	-178666	-108161	-197254	200
Start (E. Classic)			60874	34341	16153	66593	33963	104468	15375	
Coyote	SIU	4	59158	32625	14437	64877	32247	102752	13659	0
Lehi	SIU	4	48955	22422	4234	54673	22043	92549	3456	1
Los Muertos	SIU	4	14797	-11736	-29923	20516	-12114	58392	-30702	122
Crismon	SIU	4	10309	-16224	-34411	16028	-16602	53904	-35190	145
Scottsdale	SIU	4	6552	-19981	-38169	12271	-20359	50146	-38947	159
Riverview	SIU	4	-13099	-39632	-57819	-7380	-40010	30496	-58598	191
Canal System 2	SIU	4	-39323	-65856	-84043	-33604	-66234	4272	-84822	197
Start (E. Classic)			60874	34341	16153	66593	33963	104468	15375	
Coyote	Buffer	4	56193	29660	11472	61911	29281	99787	10694	0
Lehi	Buffer	4	18190	-8343	-26531	23909	-8721	61784	-27309	107
Los Muertos	Buffer	4	-52100	-78633	-96821	-46381	-79011	-8506	-97599	198
Crismon	Buffer	4	-67285	-93818	-112005	-61566	-94196	-23690	-112784	198
Scottsdale	Buffer	4	-84304	-110837	-129025	-78585	-111215	-40710	-129803	199
Riverview	Buffer	4	-146881	-173414	-191601	-141162	-173792	-103286	-192380	200
Canal System 2	Buffer	4	-222631	-249164	-267352	-216912	-249542	-179037	-268130	200

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1300 Plant 1	1301 Plant 1	1302 Plant 1	1303 Plant 1	1304 Plant 1	1305 Plant 1	1306 Plant 1	1307 Plant 1	1308 Plant 1	1309 Plant 1	1310 Plant 1	1311 Plant 1	1312 Plant 1	1313 Plant 1
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	SIU	1	164793	302550	309555	267747	127978	382247	129009	74988	115760	252755	350477	166635	262876	301680
Los Muertos	SIU	1	156254	294011	301015	259208	119439	373708	120470	66449	107221	244216	341938	158096	254337	293141
Crismon	SIU	1	155132	292889	299893	258086	118317	372586	119348	65327	106099	243094	340816	156974	253215	292019
Scottsdale	SIU	1	154192	291949	298954	257147	117378	371646	118408	64387	105160	242154	339876	156035	252275	291080
Riverview	SIU	1	149280	287037	294041	252234	112465	366734	113496	59475	100247	237242	334964	151122	247363	286167
Canal System 2	SIU	1	142724	280481	287485	245678	105909	360178	106940	52919	93691	230686	328408	144566	240807	279611
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	Buffer	1	164052	301808	308813	267006	127237	381506	128268	74246	115019	252014	349736	165894	262134	300939
Los Muertos	Buffer	1	146479	284236	291241	249433	109664	363933	110695	56674	97446	234441	332163	148321	244562	283366
Crismon	Buffer	1	142683	280440	287445	245637	105868	360137	106899	52878	93650	230645	328367	144525	240766	279570
Scottsdale	Buffer	1	138428	276185	283190	241383	101614	355882	102644	48623	89395	226390	324112	140270	236511	275316
Riverview	Buffer	1	122784	260541	267546	225738	85969	340238	87000	32979	73751	210746	308468	124626	220867	259671
Canal System 2	Buffer	1	103847	241603	248608	206801	67032	321300	68062	14041	54814	191808	289530	105689	201929	240734
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	SIU	2	164364	302121	309126	267318	127549	381818	128580	74559	115331	252326	350048	166206	262447	301251
Los Muertos	SIU	2	147286	285042	292047	250240	110471	364739	111501	57480	98253	235247	332969	149128	245368	284173
Crismon	SIU	2	145042	282798	289803	247996	108227	362495	109257	55236	96009	233003	330725	146884	243124	281929
Scottsdale	SIU	2	143163	280919	287924	246117	106348	360617	107379	53357	94130	231125	328847	145005	241245	280050
Riverview	SIU	2	133338	271094	278099	236292	96523	350791	97553	43532	84305	221299	319021	135180	231420	270225
Canal System 2	SIU	2	120226	257982	264987	223180	83411	337679	84441	30420	71193	208187	305909	122068	218308	257113
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	Buffer	2	162881	300638	307643	265836	126067	380335	127097	73076	113848	250843	348565	164723	260964	299769
Los Muertos	Buffer	2	127736	265493	272498	230691	90922	345190	91952	37931	78703	215698	313420	129578	225819	264624
Crismon	Buffer	2	120144	257901	264906	223098	83329	337598	84360	30339	71111	208106	305828	121986	218227	257031
Scottsdale	Buffer	2	111635	249391	256396	214589	74820	329088	75850	21829	62602	199596	297318	113477	209717	248522
Riverview	Buffer	2	80346	218103	225108	183300	43531	297800	44562	-9459	31313	168308	266030	82188	178429	217233
Canal System 2	Buffer	2	42471	180228	187233	145425	5656	259925	6687	-47334	-6562	130433	228155	44313	140554	179358

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1314 Plant 1	1315 Plant 1	1316 Plant 1	1317 Plant 1	1318 Plant 1	1319 Plant 1	1320 Plant 1	1321 Plant 1	1322 Plant 1	1323 Plant 1	1324 Plant 1	1325 Plant 1	1326 Plant 1	1327 Plant 1
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	SIU	1	143338	75342	52736	222637	248929	176208	146419	260215	144368	113767	113753	292940	230604	119865
Los Muertos	SIU	1	134799	66802	44197	214098	240390	167668	137880	251676	135829	105227	105214	284401	222064	111326
Crismon	SIU	1	133677	65680	43075	212976	239268	166546	136758	250554	134707	104105	104092	283279	220942	110204
Scottsdale	SIU	1	132738	64741	42136	212036	238329	165607	135819	249615	133768	103166	103153	282339	220003	109265
Riverview	SIU	1	127825	59828	37223	207124	233416	160694	130906	244702	128855	98253	98240	277427	215090	104352
Canal System 2	SIU	1	121269	53272	30667	200568	226860	154138	124350	238146	122299	91697	91684	270871	208534	97796
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	Buffer	1	142597	74600	51995	221896	248188	175466	145678	259474	143627	113025	113012	292199	229862	119124
Los Muertos	Buffer	1	125024	57028	34423	204323	230615	157894	128105	241902	126055	95453	95439	274626	212290	101552
Crismon	Buffer	1	121228	53232	30626	200527	226819	154098	124309	238105	122258	91657	91643	270830	208494	97755
Scottsdale	Buffer	1	116973	48977	26372	196272	222564	149843	120054	233851	118004	87402	87389	266575	204239	93501
Riverview	Buffer	1	101329	33333	10727	180628	206920	134199	104410	218206	102359	71758	71744	250931	188595	77856
Canal System 2	Buffer	1	82392	14395	-8210	161691	187983	115261	85473	199269	83422	52820	52807	231993	169657	58919
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	SIU	2	142909	74913	52307	222208	248500	175779	145990	259786	143939	113338	113324	292511	230175	119436
Los Muertos	SIU	2	125831	57834	35229	205130	231422	158700	128912	242708	126861	96259	96246	275432	213096	102358
Crismon	SIU	2	123587	55590	32985	202886	229178	156456	126668	240464	124617	94015	94002	273188	210852	100114
Scottsdale	SIU	2	121708	53711	31106	201007	227299	154577	124789	238585	122738	92136	92123	271310	208973	98235
Riverview	SIU	2	111883	43886	21281	191182	217474	144752	114964	228760	112913	82311	82298	261484	199148	88410
Canal System 2	SIU	2	98771	30774	8169	178070	204362	131640	101852	215648	99801	69199	69186	248372	186036	75298
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	Buffer	2	141426	73430	50825	220725	247017	174296	144507	258304	142457	111855	111842	291028	228692	117954
Los Muertos	Buffer	2	106281	38285	15680	185580	211872	139151	109362	223159	107312	76710	76697	255883	193547	82809
Crismon	Buffer	2	98689	30693	8087	177988	204280	131559	101770	215566	99719	69118	69104	248291	185955	75216
Scottsdale	Buffer	2	90180	22183	-422	169479	195771	123049	93261	207057	91210	60608	60595	239781	177445	66707
Riverview	Buffer	2	58891	-9105	-31711	138190	164482	91761	61972	175768	59921	29320	29306	208493	146157	35418
Canal System 2	Buffer	2	21016	-46981	-69586	100315	126607	53885	24097	137893	22046	-8556	-8569	170618	108281	-2457

System	Acreage Method	Acre-feet	1328 Plant 1	1329 Plant 1	1330 Plant 1	1331 Plant 1	1332 Plant 1	1333 Plant 1	1334 Plant 1	1335 Plant 1	1336 Plant 1	1337 Plant 1	1338 Plant 1	1339 Plant 1	1340 Plant 1	1341 Plant 1
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	SIU	1	66950	110650	187190	163030	194026	256241	144596	70390	169138	166235	58432	160070	96453	61999
Los Muertos	SIU	1	58410	102111	178651	154490	185487	247701	136057	61851	160599	157696	49893	151531	87914	53460
Crismon	SIU	1	57288	100989	177529	153368	184365	246579	134935	60729	159477	156574	48771	150409	86792	52338
Scottsdale	SIU	1	56349	100049	176590	152429	183425	245640	133996	59790	158538	155634	47832	149469	85853	51398
Riverview	SIU	1	51436	95137	171677	147516	178513	240727	129083	54877	153625	150722	42919	144557	80940	46486
Canal System 2	SIU	1	44880	88581	165121	140960	171957	234171	122527	48321	147069	144166	36363	138001	74384	39930
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	Buffer	1	66208	109909	186449	162288	193285	255499	143855	69649	168397	165494	57691	159328	95712	61258
Los Muertos	Buffer	1	48636	92336	168876	144716	175712	237927	126283	52077	150824	147921	40118	141756	78139	43685
Crismon	Buffer	1	44840	88540	165080	140920	171916	234131	122486	48280	147028	144125	36322	137960	74343	39889
Scottsdale	Buffer	1	40585	84285	160826	136665	167661	229876	118232	44026	142774	139870	32068	133705	70088	35634
Riverview	Buffer	1	24941	68641	145181	121021	152017	214232	102587	28381	127129	124226	16423	118061	54444	19990
Canal System 2	Buffer	1	6003	49704	126244	102083	133079	195294	83650	9444	108192	105288	-2514	99123	35507	1053
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	SIU	2	66521	110221	186761	162601	193597	255812	144167	69961	168709	165806	58003	159641	96024	61570
Los Muertos	SIU	2	49442	93143	169683	145522	176518	238733	127089	52883	151631	148727	40925	142562	78946	44492
Crismon	SIU	2	47198	90899	167439	143278	174274	236489	124845	50639	149387	146483	38681	140318	76702	42248
Scottsdale	SIU	2	45319	89020	165560	141399	172396	234610	122966	48760	147508	144605	36802	138439	74823	40369
Riverview	SIU	2	35494	79195	155735	131574	162570	224785	113141	38935	137683	134779	26977	128614	64998	30544
Canal System 2	SIU	2	22382	66083	142623	118462	149458	211673	100029	25823	124571	121667	13865	115502	51886	17432
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	Buffer	2	65038	108738	185279	161118	192114	254329	142685	68479	167227	164323	56521	158158	94541	60087
Los Muertos	Buffer	2	29893	73593	150134	125973	156969	219184	107540	33334	132082	129178	21376	123013	59396	24942
Crismon	Buffer	2	22301	66001	142541	118381	149377	211592	99947	25741	124489	121586	13783	115421	51804	17350
Scottsdale	Buffer	2	13791	57492	134032	109871	140867	203082	91438	17232	115980	113076	5274	106911	43295	8841
Riverview	Buffer	2	-17497	26203	102743	78583	109579	171794	60149	-14057	84691	81788	-26015	75623	12006	-22448
Canal System 2	Buffer	2	-55373	-11672	64868	40707	71704	133918	22274	-51932	46816	43913	-63890	37748	-25869	-60323

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1342 Plant 1	1343 Plant 1	1344 Plant 1	1345 Plant 1	1346 Plant 1	1347 Plant 1	1348 Plant 1	1349 Plant 1	1350 Plant 1	1351 Plant 1	1352 Plant 1	1353 Plant 1	1354 Plant 1	1355 Plant 1
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	SIU	1	132045	122810	118874	125328	137400	61402	115554	176427	68774	93757	96981	183672	180704	52271
Los Muertos	SIU	1	123506	114271	110335	116789	128861	52863	107015	167888	60235	85218	88441	175133	172165	43732
Crismon	SIU	1	122384	113149	109213	115667	127739	51741	105893	166766	59113	84096	87319	174011	171043	42610
Scottsdale	SIU	1	121445	112209	108274	114727	126800	50801	104953	165827	58173	83156	86380	173072	170104	41671
Riverview	SIU	1	116532	107297	103361	109815	121887	45889	100041	160914	53261	78244	81467	168159	165191	36758
Canal System 2	SIU	1	109976	100741	96805	103259	115331	39333	93485	154358	46705	71688	74911	161603	158635	30202
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	Buffer	1	131304	122069	118133	124587	136659	60661	114812	175686	68033	93016	96239	182931	179963	51530
Los Muertos	Buffer	1	113732	104496	100560	107014	119086	43088	97240	158114	50460	75443	78667	165359	162390	33957
Crismon	Buffer	1	109935	100700	96764	103218	115290	39292	93444	154317	46664	71647	74871	161562	158594	30161
Scottsdale	Buffer	1	105681	96445	92509	98963	111035	35037	89189	150063	42409	67392	70616	157308	154339	25907
Riverview	Buffer	1	90036	80801	76865	83319	95391	19393	73545	134418	26765	51748	54972	141663	138695	10262
Canal System 2	Buffer	1	71099	61864	57928	64381	76454	456	54607	115481	7828	32811	36034	122726	119758	-8675
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	SIU	2	131616	122381	118445	124899	136971	60973	115125	175998	68345	93328	96552	183243	180275	51842
Los Muertos	SIU	2	114538	105303	101367	107820	119893	43895	98046	158920	51267	76250	79473	166165	163197	34764
Crismon	SIU	2	112294	103059	99123	105576	117649	41651	95802	156676	49023	74006	77229	163921	160953	32520
Scottsdale	SIU	2	110415	101180	97244	103698	115770	39772	93923	154797	47144	72127	75350	162042	159074	30641
Riverview	SIU	2	100590	91355	87419	93872	105945	29947	84098	144972	37319	62302	65525	152217	149249	20816
Canal System 2	SIU	2	87478	78243	74307	80760	92833	16835	70986	131860	24207	49190	52413	139105	136137	7704
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	Buffer	2	130134	120898	116962	123416	135488	59490	113642	174516	66862	91845	95069	181761	178792	50360
Los Muertos	Buffer	2	94989	85753	81817	88271	100343	24345	78497	139371	31717	56700	59924	146616	143647	15215
Crismon	Buffer	2	87396	78161	74225	80679	92751	16753	70905	131778	24125	49108	52332	139023	136055	7622
Scottsdale	Buffer	2	78887	69652	65716	72169	84242	8244	62395	123269	15616	40599	43822	130514	127546	-887
Riverview	Buffer	2	47598	38363	34427	40881	52953	-23045	31107	91980	-15673	9310	12534	99225	96257	-32176
Canal System 2	Buffer	2	9723	488	-3448	3006	15078	-60920	-6768	54105	-53548	-28565	-25342	61350	58382	-70051

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1356 Plant 1	1357 Plant 1	1358 Plant 1	1359 Plant 1	1360 Plant 1	1361 Plant 1	1362 Plant 1	1363 Plant 1	1364 Plant 1	1365 Plant 1	1366 Plant 1	1367 Plant 1	1368 Plant 1	1369 Plant 1
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	SIU	1	180639	190538	305272	176050	59377	105234	125604	76510	152362	112691	180858	113651	199678	85189
Los Muertos	SIU	1	172100	181999	296733	167511	50838	96695	117065	67970	143822	104152	172318	105112	191139	76650
Crismon	SIU	1	170978	180877	295611	166389	49716	95573	115943	66848	142700	103030	171196	103990	190017	75528
Scottsdale	SIU	1	170038	179938	294672	165449	48777	94634	115003	65909	141761	102090	170257	103051	189077	74589
Riverview	SIU	1	165126	175025	289759	160537	43864	89721	110091	60996	136848	97178	165344	98138	184165	69676
Canal System 2	SIU	1	158570	168469	283203	153981	37308	83165	103535	54440	130292	90622	158788	91582	177609	63120
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	Buffer	1	179898	189797	304531	175309	58636	104493	124863	75768	151620	111950	180116	112910	198937	84448
Los Muertos	Buffer	1	162325	172224	286958	157736	41064	86921	107290	58196	134048	94377	162544	95337	181364	66875
Crismon	Buffer	1	158529	168428	283162	153940	37267	83124	103494	54400	130252	90581	158748	91541	177568	63079
Scottsdale	Buffer	1	154274	164173	278907	149685	33013	78870	99239	50145	125997	86326	154493	87286	173313	58825
Riverview	Buffer	1	138630	148529	263263	134041	17368	63225	83595	34501	110353	70682	138849	71642	157669	43180
Canal System 2	Buffer	1	119692	129592	244326	115103	-1569	44288	64658	15563	91415	51745	119911	52705	138732	24243
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	SIU	2	180210	190109	304843	175621	58948	104805	125175	76081	151933	112262	180429	113222	199249	84760
Los Muertos	SIU	2	163131	173031	287765	158542	41870	87727	108097	59002	134854	95184	163350	96144	182171	67682
Crismon	SIU	2	160887	170787	285521	156298	39626	85483	105853	56758	132610	92940	161106	93900	179927	65438
Scottsdale	SIU	2	159009	168908	283642	154420	37747	83604	103974	54879	130731	91061	159227	92021	178048	63559
Riverview	SIU	2	149183	159083	273817	144594	27922	73779	94149	45054	120906	81236	149402	82196	168223	53734
Canal System 2	SIU	2	136071	145971	260705	131482	14810	60667	81037	31942	107794	68124	136290	69084	155111	40622
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	Buffer	2	178727	188626	303360	174138	57466	103323	123692	74598	150450	110779	178946	111739	197766	83278
Los Muertos	Buffer	2	143582	153481	268215	138993	22321	68178	88547	39453	115305	75634	143801	76594	162621	48133
Crismon	Buffer	2	135990	145889	260623	131401	14728	60585	80955	31861	107713	68042	136209	69002	155029	40540
Scottsdale	Buffer	2	127480	137380	252114	122891	6219	52076	72446	23351	99203	59533	127699	60493	146520	32031
Riverview	Buffer	2	96192	106091	220825	91603	-25070	20787	41157	-7937	67915	28244	96411	29204	115231	742
Canal System 2	Buffer	2	58317	68216	182950	53728	-62945	-17088	3282	-45813	30039	-9631	58536	-8671	77356	-37133

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1370 Plant 1	1371 Plant 1	1372 Plant 1	1373 Plant 1	1374 Plant 1	1375 Plant 1	1376 Plant 1	1377 Plant 1	1378 Plant 1	1379 Plant 1	1380 Plant 1	1381 Plant 1	1382 Plant 1	1383 Plant 1
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	SIU	1	220835	94034	144708	210561	216909	112293	80177	133791	102448	70251	290668	139122	158745	139312
Los Muertos	SIU	1	212296	85495	136169	202022	208370	103753	71637	125251	93908	61712	282128	130583	150206	130773
Crismon	SIU	1	211174	84373	135047	200900	207248	102631	70515	124129	92786	60590	281006	129461	149084	129651
Scottsdale	SIU	1	210235	83433	134108	199961	206308	101692	69576	123190	91847	59650	280067	128521	148144	128711
Riverview	SIU	1	205322	78521	129195	195048	201396	96779	64663	118277	86934	54738	275154	123609	143232	123799
Canal System 2	SIU	1	198766	71965	122639	188492	194840	90223	58107	111721	80378	48182	268598	117053	136676	117243
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	Buffer	1	220094	93292	143967	209820	216167	111551	79435	133049	101706	69510	289926	138380	158003	138571
Los Muertos	Buffer	1	202521	75720	126395	192247	198595	93979	61863	115477	84134	51937	272354	120808	140431	120998
Crismon	Buffer	1	198725	71924	122598	188451	194799	90183	58067	111681	80338	48141	268558	117012	136635	117202
Scottsdale	Buffer	1	194471	67669	118344	184197	190544	85928	53812	107426	76083	43886	264303	112757	132380	112947
Riverview	Buffer	1	178826	52025	102699	168552	174900	70284	38168	91782	60439	28242	248659	97113	116736	97303
Canal System 2	Buffer	1	159889	33087	83762	149615	155962	51346	19230	72844	41501	9304	229721	78175	97798	78365
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	SIU	2	220406	93605	144279	210132	216480	111864	79748	133362	102019	69822	290239	138693	158316	138883
Los Muertos	SIU	2	203328	76526	127201	193054	199401	94785	62669	116283	84940	52743	273160	121614	141237	121804
Crismon	SIU	2	201084	74282	124957	190810	197157	92541	60425	114039	82696	50499	270916	119370	138993	119560
Scottsdale	SIU	2	199205	72403	123078	188931	195278	90662	58546	112160	80817	48621	269037	117491	137114	117682
Riverview	SIU	2	189380	62578	113253	179106	185453	80837	48721	102335	70992	38795	259212	107666	127289	107856
Canal System 2	SIU	2	176268	49466	100141	165994	172341	67725	35609	89223	57880	25683	246100	94554	114177	94744
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	Buffer	2	218924	92122	142797	208650	214997	110381	78265	131879	100536	68339	288756	137210	156833	137400
Los Muertos	Buffer	2	183779	56977	107652	173505	179852	75236	43120	96734	65391	33194	253611	102065	121688	102255
Crismon	Buffer	2	176186	49385	100059	165912	172260	67644	35528	89142	57799	25602	246019	94473	114096	94663
Scottsdale	Buffer	2	167677	40875	91550	157403	163750	59134	27018	80632	49289	17092	237509	85963	105586	86153
Riverview	Buffer	2	136388	9587	60261	126114	132462	27846	-4270	49344	18001	-14196	206221	54675	74298	54865
Canal System 2	Buffer	2	98513	-28288	22386	88239	94587	-10029	-42146	11468	-19874	-52071	168345	16800	36423	16990

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1384 Plant 1	1385 Plant 1	1386 Plant 1	1387 Plant 1	1388 Plant 1	1389 Plant 1	1390 Plant 1	1391 Plant 1	1392 Plant 1	1393 Plant 1	1394 Plant 1	1395 Plant 1	1396 Plant 1	1397 Plant 1
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696	91177
Coyote	SIU	1	140413	141479	150811	122091	113187	100467	88959	111938	190370	102759	171573	106772	151267	90748
Los Muertos	SIU	1	131873	132940	142271	113552	104648	91928	80419	103399	181831	94220	163034	98233	142728	82209
Crismon	SIU	1	130751	131818	141149	112430	103526	90806	79297	102277	180709	93098	161912	97111	141606	81087
Scottsdale	SIU	1	129812	130878	140210	111490	102586	89866	78358	101338	179769	92158	160973	96172	140666	80148
Riverview	SIU	1	124899	125966	135297	106578	97674	84954	73445	96425	174857	87246	156060	91259	135754	75235
Canal System 2	SIU	1	118343	119410	128741	100022	91118	78398	66889	89869	168301	80690	149504	84703	129198	68679
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696	91177
Coyote	Buffer	1	139671	140738	150069	121349	112446	99726	88217	111197	189629	102017	170832	106031	150526	90007
Los Muertos	Buffer	1	122099	123165	132497	103777	94873	82153	70645	93624	172056	84445	153259	88458	132953	72435
Crismon	Buffer	1	118303	119369	128701	99981	91077	78357	66849	89828	168260	80649	149463	84662	129157	68638
Scottsdale	Buffer	1	114048	115114	124446	95726	86822	74102	62594	85573	164005	76394	145209	80407	124902	64384
Riverview	Buffer	1	98404	99470	108802	80082	71178	58458	46950	69929	148361	60750	129564	64763	109258	48739
Canal System 2	Buffer	1	79466	80532	89864	61144	52240	39521	28012	50992	129424	41812	110627	45826	90320	29802
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696	91177
Coyote	SIU	2	139984	141050	150382	121662	112758	100038	88530	111509	189941	102330	171144	106343	150838	90319
Los Muertos	SIU	2	122905	123971	133303	104583	95679	82960	71451	94431	172863	85251	154066	89265	133759	73241
Crismon	SIU	2	120661	121727	131059	102339	93435	80716	69207	92187	170619	83007	151822	87021	131515	70997
Scottsdale	SIU	2	118782	119849	129180	100460	91557	78837	67328	90308	168740	81128	149943	85142	129637	69118
Riverview	SIU	2	108957	110023	119355	90635	81731	69012	57503	80483	158915	71303	140118	75317	119811	59293
Canal System 2	SIU	2	95845	96911	106243	77523	68619	55900	44391	67371	145803	58191	127006	62205	106699	46181
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696	91177
Coyote	Buffer	2	138501	139567	148899	120179	111275	98555	87047	110026	188458	100847	169662	104860	149355	88837
Los Muertos	Buffer	2	103356	104422	113754	85034	76130	63410	51902	74881	153313	65702	134517	69715	114210	53692
Crismon	Buffer	2	95764	96830	106162	77442	68538	55818	44310	67289	145721	58110	126924	62123	106618	46099
Scottsdale	Buffer	2	87254	88320	97652	68932	60028	47309	35800	58780	137212	49600	118415	53614	98108	37590
Riverview	Buffer	2	55966	57032	66364	37644	28740	16020	4512	27491	105923	18312	87126	22325	66820	6301
Canal System 2	Buffer	2	18090	19157	28489	-231	-9135	-21855	-33364	-10384	68048	-19563	49251	-15550	28945	-31574

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1398 Plant 1	1399 Plant 1	1400 Plant 1	1401 Plant 1	1402 Plant 1	1403 Plant 1	1404 Plant 1	1405 Plant 1	1406 Plant 1	1407 Plant 1	1408 Plant 1	1409 Plant 1	1410 Plant 1	1411 Plant 1
Start (L. Classic)			123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524	73506	86007
Coyote	SIU	1	123459	106398	132033	131157	110982	117211	236762	117391	156982	63123	139174	224095	73077	85578
Los Muertos	SIU	1	114920	97858	123494	122617	102443	108672	228223	108852	148442	54583	130634	215556	64538	77039
Crismon	SIU	1	113798	96736	122372	121495	101321	107550	227101	107730	147320	53461	129512	214434	63416	75917
Scottsdale	SIU	1	112858	95797	121432	120556	100381	106611	226161	106791	146381	52522	128573	213494	62477	74977
Riverview	SIU	1	107946	90884	116520	115643	95469	101698	221249	101878	141468	47609	123660	208582	57564	70065
Canal System 2	SIU	1	101390	84328	109964	109087	88913	95142	214693	95322	134912	41053	117104	202026	51008	63509
Start (L. Classic)			123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524	73506	86007
Coyote	Buffer	1	122718	105656	131292	130415	110241	116470	236021	116650	156240	62381	138432	223354	72336	84836
Los Muertos	Buffer	1	105145	88084	113719	112843	92668	98897	218448	99077	138668	44809	120860	205781	54763	67264
Crismon	Buffer	1	101349	84288	109923	109047	88872	95101	214652	95281	134872	41013	117064	201985	50967	63468
Scottsdale	Buffer	1	97094	80033	105668	104792	84617	90847	210397	91027	130617	36758	112809	197730	46712	59213
Riverview	Buffer	1	81450	64389	90024	89148	68973	75202	194753	75382	114973	21114	97165	182086	31068	43569
Canal System 2	Buffer	1	62512	45451	71086	70210	50035	56265	175816	56445	96035	2176	78227	163149	12131	24631
Start (L. Classic)			123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524	73506	86007
Coyote	SIU	2	123030	105969	131604	130728	110553	116782	236333	116962	156553	62694	138745	223666	72648	85149
Los Muertos	SIU	2	105951	88890	114525	113649	93474	99704	219255	99884	139474	45615	121666	206588	55570	68070
Crismon	SIU	2	103707	86646	112281	111405	91230	97460	217011	97640	137230	43371	119422	204344	53326	65826
Scottsdale	SIU	2	101829	84767	110403	109526	89352	95581	215132	95761	135351	41492	117543	202465	51447	63947
Riverview	SIU	2	92003	74942	100577	99701	79526	85756	205307	85936	125526	31667	107718	192640	41622	54122
Canal System 2	SIU	2	78891	61830	87465	86589	66414	72644	192195	72824	112414	18555	94606	179528	28510	41010
Start (L. Classic)			123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524	73506	86007
Coyote	Buffer	2	121547	104486	130121	129245	109070	115300	234850	115480	155070	61211	137262	222183	71165	83666
Los Muertos	Buffer	2	86402	69341	94976	94100	73925	80155	199705	80335	119925	26066	102117	187038	36020	48521
Crismon	Buffer	2	78810	61749	87384	86508	66333	72562	192113	72742	112333	18474	94525	179446	28428	40929
Scottsdale	Buffer	2	70300	53239	78874	77998	57823	64053	183604	64233	103823	9964	86015	170937	19919	32419
Riverview	Buffer	2	39012	21951	47586	46710	26535	32764	152315	32944	72535	-21324	54727	139648	-11370	1131
Canal System 2	Buffer	2	1137	-15925	9711	8834	-11340	-5111	114440	-4931	34660	-59199	16852	101773	-49245	-36744

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1412 Plant 1	1413 Plant 1	1414 Plant 1	1415 Plant 1	1416 Plant 1	1417 Plant 1	1418 Plant 1	1419 Plant 1	1420 Plant 1	1421 Plant 1	1422 Plant 1	1423 Plant 1	1424 Plant 1	1425 Plant 1
Start (L. Classic)			160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037	151461	136401
Coyote	SIU	1	160554	75688	239551	83634	113331	165684	107123	111658	175466	60741	150145	66608	151032	135972
Los Muertos	SIU	1	152015	67149	231011	75095	104791	157144	98584	103118	166927	52201	141606	58068	142493	127433
Crismon	SIU	1	150893	66027	229889	73973	103669	156022	97462	101996	165805	51079	140484	56946	141371	126311
Scottsdale	SIU	1	149953	65088	228950	73033	102730	155083	96523	101057	164865	50140	139545	56007	140431	125372
Riverview	SIU	1	145041	60175	224037	68121	97817	150170	91610	96144	159953	45227	134632	51094	135519	120459
Canal System 2	SIU	1	138485	53619	217481	61565	91261	143614	85054	89588	153397	38671	128076	44538	128963	113903
Start (L. Classic)			160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037	151461	136401
Coyote	Buffer	1	159813	74947	238809	82892	112589	164942	106382	110916	174725	59999	149404	65866	150291	135231
Los Muertos	Buffer	1	142240	57375	221237	65320	95017	147370	88809	93344	157152	42427	131831	48294	132718	117658
Crismon	Buffer	1	138444	53578	217441	61524	91221	143574	85013	89548	153356	38631	128035	44498	128922	113862
Scottsdale	Buffer	1	134189	49324	213186	57269	86966	139319	80759	85293	149101	34376	123780	40243	124667	109608
Riverview	Buffer	1	118545	33679	197542	41625	71322	123675	65114	69649	133457	18732	108136	24599	109023	93963
Canal System 2	Buffer	1	99608	14742	178604	22687	52384	104737	46177	50711	114519	-206	89199	5661	90085	75026
Start (L. Classic)			160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037	151461	136401
Coyote	SIU	2	160125	75259	239122	83205	112902	165255	106694	111229	175037	60312	149716	66179	150603	135543
Los Muertos	SIU	2	143047	58181	222043	66126	95823	148176	89616	94150	157958	43233	132638	49100	133524	118465
Crismon	SIU	2	140803	55937	219799	63882	93579	145932	87372	91906	155714	40989	130394	46856	131280	116221
Scottsdale	SIU	2	138924	54058	217920	62003	91700	144053	85493	90027	153836	39110	128515	44977	129402	114342
Riverview	SIU	2	129099	44233	208095	52178	81875	134228	75668	80202	144010	29285	118690	35152	119576	104517
Canal System 2	SIU	2	115987	31121	194983	39066	68763	121116	62556	67090	130898	16173	105578	22040	106464	91405
Start (L. Classic)			160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037	151461	136401
Coyote	Buffer	2	158642	73777	237639	81722	111419	163772	105212	109746	173554	58829	148233	64696	149120	134061
Los Muertos	Buffer	2	123497	38632	202494	46577	76274	128627	70067	74601	138409	23684	113088	29551	113975	98916
Crismon	Buffer	2	115905	31039	194902	38985	68682	121035	62474	67009	130817	16092	105496	21959	106383	91323
Scottsdale	Buffer	2	107396	22530	186392	30475	60172	112525	53965	58499	122307	7582	96987	13449	97873	82814
Riverview	Buffer	2	76107	-8759	155104	-813	28884	81237	22676	27211	91019	-23706	65698	-17839	66585	51525
Canal System 2	Buffer	2	38232	-46634	117228	-38688	-8992	43361	-15199	-10665	53144	-61582	27823	-55715	28710	13650

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1426 Plant 1	1427 Plant 1	1428 Plant 1	1429 Plant 1	1430 Plant 1	1431 Plant 1	1432 Plant 1	1433 Plant 1	1434 Plant 1	1435 Plant 1	1436 Plant 1	1437 Plant 1	1438 Plant 1	1439 Plant 1
Start (L. Classic)			213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945	70286	115415
Coyote	SIU	1	212971	210891	241589	133213	131854	176263	118701	226443	173112	80475	90110	99516	69857	114986
Los Muertos	SIU	1	204432	202352	233049	124674	123314	167723	110161	217904	164573	71935	81571	90977	61318	106447
Crismon	SIU	1	203310	201230	231927	123552	122192	166601	109039	216782	163451	70813	80449	89855	60196	105325
Scottsdale	SIU	1	202371	200290	230988	122612	121253	165662	108100	215842	162512	69874	79510	88916	59256	104386
Riverview	SIU	1	197458	195378	226075	117700	116340	160749	103187	210930	157599	64961	74597	84003	54344	99473
Canal System 2	SIU	1	190902	188822	219519	111144	109784	154193	96631	204374	151043	58405	68041	77447	47788	92917
Start (L. Classic)			213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945	70286	115415
Coyote	Buffer	1	212230	210149	240847	132472	131112	175521	117959	225702	172371	79733	89369	98775	69115	114245
Los Muertos	Buffer	1	194658	192577	223275	114899	113540	157949	100387	208129	154799	62161	71796	81203	51543	96672
Crismon	Buffer	1	190861	188781	219479	111103	109744	154153	96591	204333	151002	58365	68000	77406	47747	92876
Scottsdale	Buffer	1	186607	184526	215224	106848	105489	149898	92336	200078	146748	54110	63745	73152	43492	88622
Riverview	Buffer	1	170962	168882	199580	91204	89845	134254	76692	184434	131103	38466	48101	57507	27848	72977
Canal System 2	Buffer	1	152025	149944	180642	72266	70907	115316	57754	165496	112166	19528	29164	38570	8910	54040
Start (L. Classic)			213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945	70286	115415
Coyote	SIU	2	212542	210462	241160	132784	131425	175834	118272	226014	172683	80046	89681	99087	69428	114557
Los Muertos	SIU	2	195464	193383	224081	115705	114346	158755	101193	208935	155605	62967	72603	82009	52349	97479
Crismon	SIU	2	193220	191139	221837	113461	112102	156511	98949	206691	153361	60723	70359	79765	50105	95235
Scottsdale	SIU	2	191341	189260	219958	111583	110223	154632	97070	204813	151482	58844	68480	77886	48226	93356
Riverview	SIU	2	181516	179435	210133	101757	100398	144807	87245	194987	141657	49019	58655	68061	38401	83531
Canal System 2	SIU	2	168404	166323	197021	88645	87286	131695	74133	181875	128545	35907	45543	54949	25289	70419
Start (L. Classic)			213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945	70286	115415
Coyote	Buffer	2	211060	208979	239677	131301	129942	174351	116789	224531	171201	78563	88198	97605	67945	113075
Los Muertos	Buffer	2	175915	173834	204532	96156	94797	139206	81644	189386	136056	43418	53053	62460	32800	77930
Crismon	Buffer	2	168322	166242	196940	88564	87205	131614	74052	181794	128463	35826	45461	54867	25208	70337
Scottsdale	Buffer	2	159813	157732	188430	80054	78695	123104	65542	173284	119954	27316	36952	46358	16698	61828
Riverview	Buffer	2	128524	126444	157142	48766	47407	91816	34254	141996	88665	-3972	5663	15069	-14590	30539
Canal System 2	Buffer	2	90649	88569	119267	10891	9531	53940	-3622	104121	50790	-41847	-32212	-22806	-52465	-7336

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1440 Plant 1	1441 Plant 1	1442 Plant 1	1443 Plant 1	1444 Plant 1	1445 Plant 1	1446 Plant 1	1447 Plant 1	1448 Plant 1	1449 Plant 1	1450 Plant 1	Total Deficits	1300 Silk 1
Start (L. Classic)			140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858		165496
Coyote	SIU	1	140435	212318	74797	115190	121565	93493	101837	127342	65590	102155	77429	0	165067
Los Muertos	SIU	1	131896	203779	66257	106651	113026	84953	93298	118803	57051	93616	68890	0	156528
Crismon	SIU	1	130774	202657	65135	105529	111904	83831	92176	117681	55929	92494	67768	0	155406
Scottsdale	SIU	1	129835	201717	64196	104589	110965	82892	91236	116741	54990	91554	66828	0	154467
Riverview	SIU	1	124922	196805	59283	99677	106052	77979	86324	111829	50077	86642	61916	0	149554
Canal System 2	SIU	1	118366	190249	52727	93121	99496	71423	79768	105273	43521	80086	55360	0	142998
Start (L. Classic)			140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858		165496
Coyote	Buffer	1	139694	211577	74055	114448	120824	92751	101095	126600	64849	101413	76688	0	164326
Los Muertos	Buffer	1	122121	194004	56483	96876	103251	75179	83523	109028	47276	83841	59115	0	146754
Crismon	Buffer	1	118325	190208	52687	93080	99455	71383	79727	105232	43480	80045	55319	0	142957
Scottsdale	Buffer	1	114070	185953	48432	88825	95200	67128	75472	100977	39225	75790	51064	0	138703
Riverview	Buffer	1	98426	170309	32788	73181	79556	51484	59828	85333	23581	60146	35420	0	123058
Canal System 2	Buffer	1	79489	151372	13850	54243	60619	32546	40890	66395	4644	41208	16482	5	104121
Start (L. Classic)			140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858		165496
Coyote	SIU	2	140006	211889	74368	114761	121136	93064	101408	126913	65161	101726	77000	0	164638
Los Muertos	SIU	2	122928	194811	57289	97682	104058	75985	84329	109834	48083	84647	59921	0	147560
Crismon	SIU	2	120684	192567	55045	95438	101814	73741	82085	107590	45839	82403	57677	0	145316
Scottsdale	SIU	2	118805	190688	53166	93559	99935	71862	80206	105711	43960	80524	55799	0	143437
Riverview	SIU	2	108980	180863	43341	83734	90110	62037	70381	95886	34135	70699	45973	0	133612
Canal System 2	SIU	2	95868	167751	30229	70622	76998	48925	57269	82774	21023	57587	32861	0	120500
Start (L. Classic)			140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858		165496
Coyote	Buffer	2	138523	210406	72885	113278	119653	91581	99925	125430	63678	100243	75517	0	163156
Los Muertos	Buffer	2	103378	175261	37740	78133	84508	56436	64780	90285	28533	65098	40372	0	128011
Crismon	Buffer	2	95786	167669	30148	70541	76916	48844	57188	82693	20941	57506	32780	0	120418
Scottsdale	Buffer	2	87277	159160	21638	62031	68407	40334	48678	74183	12432	48996	24270	2	111909
Riverview	Buffer	2	55988	127871	-9650	30743	37118	9046	17390	42895	-18857	17708	-7018	25	80620
Canal System 2	Buffer	2	18113	89996	-47526	-7132	-757	-28830	-20485	5020	-56732	-20167	-44893	67	42745

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1301 Silk 1	1302 Silk 1	1303 Silk 1	1304 Silk 1	1305 Silk 1	1306 Silk 1	1307 Silk 1	1308 Silk 1	1309 Silk 1	1310 Silk 1	1311 Silk 1	1312 Silk 1	1313 Silk 1	1314 Silk 1
Start (L. Classic)			303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742	302611	144006
Coyote	SIU	1	303053	310070	268193	128192	382882	129224	75113	115953	253175	351060	166913	263313	302182	143577
Los Muertos	SIU	1	294514	301530	259653	119652	374343	120685	66574	107414	244636	342521	158373	254774	293643	135038
Crismon	SIU	1	293392	300408	258531	118530	373221	119563	65452	106292	243514	341399	157251	253652	292521	133916
Scottsdale	SIU	1	292452	299469	257592	117591	372282	118623	64512	105352	242575	340459	156312	252712	291581	132976
Riverview	SIU	1	287540	294556	252679	112678	367369	113711	59600	100440	237662	335547	151399	247800	286669	128064
Canal System 2	SIU	1	280984	288000	246123	106122	360813	107155	53044	93884	231106	328991	144843	241244	280113	121508
Start (L. Classic)			303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742	302611	144006
Coyote	Buffer	1	302312	309328	267451	127450	382141	128483	74372	115212	252434	350318	166171	262572	301441	142836
Los Muertos	Buffer	1	284739	291756	249879	109878	364569	110910	56799	97639	234862	332746	148599	244999	283868	125263
Crismon	Buffer	1	280943	287960	246083	106082	360772	107114	53003	93843	231065	328950	144803	241203	280072	121467
Scottsdale	Buffer	1	276688	283705	241828	101827	356518	102859	48748	89588	226811	324695	140548	236948	275817	117212
Riverview	Buffer	1	261044	268061	226184	86183	340873	87215	33104	73944	211166	309051	124904	221304	260173	101568
Canal System 2	Buffer	1	242106	249123	207246	67245	321936	68277	14166	55007	192229	290113	105966	202366	241235	82630
Start (L. Classic)			303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742	302611	144006
Coyote	SIU	2	302624	309641	267764	127763	382453	128795	74684	115524	252746	350631	166484	262884	301753	143148
Los Muertos	SIU	2	285545	292562	250685	110684	365375	111716	57605	98446	235668	333552	149405	245805	284674	126069
Crismon	SIU	2	283301	290318	248441	108440	363131	109472	55361	96202	233424	331308	147161	243561	282430	123825
Scottsdale	SIU	2	281423	288439	246562	106561	361252	107594	53483	94323	231545	329429	145282	241683	280552	121947
Riverview	SIU	2	271597	278614	236737	96736	351427	97768	43657	84498	221720	319604	135457	231857	270726	112121
Canal System 2	SIU	2	258485	265502	223625	83624	338315	84656	30545	71386	208608	306492	122345	218745	257614	99009
Start (L. Classic)			303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742	302611	144006
Coyote	Buffer	2	301141	308158	266281	126280	380971	127312	73201	114041	251264	349148	165001	261401	300270	141665
Los Muertos	Buffer	2	265996	273013	231136	91135	345826	92167	38056	78896	216119	314003	129856	226256	265125	106520
Crismon	Buffer	2	258404	265421	223544	83543	338233	84575	30464	71304	208526	306411	122264	218664	257533	98928
Scottsdale	Buffer	2	249894	256911	215034	75033	329724	76065	21954	62795	200017	297901	113754	210154	249023	90418
Riverview	Buffer	2	218606	225623	183746	43745	298435	44777	-9334	31506	168728	266613	82466	178866	217735	59130
Canal System 2	Buffer	2	180731	187747	145870	5869	260560	6902	-47209	-6369	130853	228738	44590	140991	179860	21255

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1315 Silk 1	1316 Silk 1	1317 Silk 1	1318 Silk 1	1319 Silk 1	1320 Silk 1	1321 Silk 1	1322 Silk 1	1323 Silk 1	1324 Silk 1	1325 Silk 1	1326 Silk 1	1327 Silk 1	1328 Silk 1
Start (L. Classic)			75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416	120494	67490
Coyote	SIU	1	75467	52825	223008	249343	176501	146663	260648	144609	113956	113943	293427	230987	120065	67061
Los Muertos	SIU	1	66928	44285	214468	240804	167962	138124	252109	136070	105417	105404	284888	222448	111526	58522
Crismon	SIU	1	65806	43163	213346	239682	166840	137002	250987	134948	104295	104282	283766	221326	110404	57400
Scottsdale	SIU	1	64867	42224	212407	238743	165900	136062	250048	134008	103355	103342	282826	220387	109465	56461
Riverview	SIU	1	59954	37311	207494	233830	160988	131150	245135	129096	98443	98430	277914	215474	104552	51548
Canal System 2	SIU	1	53398	30755	200938	227274	154432	124594	238579	122540	91887	91874	271358	208918	97996	44992
Start (L. Classic)			75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416	120494	67490
Coyote	Buffer	1	74726	52083	222266	248602	175760	145922	259907	143868	113215	113202	292686	230246	119324	66320
Los Muertos	Buffer	1	57153	34511	204694	231029	158187	128349	242334	126295	95642	95629	275113	212673	101751	48748
Crismon	Buffer	1	53357	30715	200898	227233	154391	124553	238538	122499	91846	91833	271317	208877	97955	44951
Scottsdale	Buffer	1	49103	26460	196643	222979	150136	120298	234284	118244	87591	87578	267062	204622	93700	40697
Riverview	Buffer	1	33458	10816	180999	207334	134492	104654	218639	102600	71947	71934	251418	188978	78056	25052
Canal System 2	Buffer	1	14521	-8122	162061	188397	115554	85717	199702	83662	53010	52996	232481	170041	59119	6115
Start (L. Classic)			75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416	120494	67490
Coyote	SIU	2	75038	52396	222579	248914	176072	146234	260219	144180	113527	113514	292998	230558	119636	66632
Los Muertos	SIU	2	57960	35317	205500	231836	158993	129156	243141	127101	96449	96435	275920	213480	102558	49554
Crismon	SIU	2	55716	33073	203256	229592	156749	126912	240897	124857	94205	94191	273676	211236	100314	47310
Scottsdale	SIU	2	53837	31194	201377	227713	154871	125033	239018	122979	92326	92313	271797	209357	98435	45431
Riverview	SIU	2	44012	21369	191552	217888	145045	115208	229193	113153	82501	82487	261972	199532	88610	35606
Canal System 2	SIU	2	30900	8257	178440	204776	131933	102096	216081	100041	69389	69375	248860	186420	75498	22494
Start (L. Classic)			75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416	120494	67490
Coyote	Buffer	2	73556	50913	221096	247432	174589	144751	258737	142697	112044	112031	291515	229075	118153	65150
Los Muertos	Buffer	2	38411	15768	185951	212287	139444	109606	223592	107552	76899	76886	256370	193930	83008	30005
Crismon	Buffer	2	30818	8176	178359	204694	131852	102014	215999	99960	69307	69294	248778	186338	75416	22412
Scottsdale	Buffer	2	22309	-334	169849	196185	123342	93505	207490	91450	60798	60784	240269	177829	66907	13903
Riverview	Buffer	2	-8980	-31622	138561	164896	92054	62216	176201	60162	29509	29496	208980	146540	35618	-17386
Canal System 2	Buffer	2	-46855	-69497	100685	127021	54179	24341	138326	22287	-8366	-8379	171105	108665	-2257	-55261

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1329 Silk 1	1330 Silk 1	1331 Silk 1	1332 Silk 1	1333 Silk 1	1334 Silk 1	1335 Silk 1	1336 Silk 1	1337 Silk 1	1338 Silk 1	1339 Silk 1	1340 Silk 1	1341 Silk 1	1342 Silk 1
Start (L. Classic)			111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043	62532	132694
Coyote	SIU	1	110835	187502	163301	194349	256667	144837	70508	169420	166512	58530	160336	96614	62103	132265
Los Muertos	SIU	1	102295	178963	154762	185810	248127	136298	61969	160881	157973	49991	151797	88075	53564	123726
Crismon	SIU	1	101173	177841	153640	184688	247005	135176	60847	159759	156851	48869	150675	86953	52442	122604
Scottsdale	SIU	1	100234	176901	152700	183748	246066	134237	59907	158819	155911	47929	149736	86013	51502	121665
Riverview	SIU	1	95321	171989	147788	178836	241153	129324	54995	153907	150999	43017	144823	81101	46590	116752
Canal System 2	SIU	1	88765	165433	141232	172280	234597	122768	48439	147351	144443	36461	138267	74545	40034	110196
Start (L. Classic)			111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043	62532	132694
Coyote	Buffer	1	110093	186761	162560	193608	255925	144096	69767	168679	165770	57789	159595	95873	61361	131524
Los Muertos	Buffer	1	92521	169188	144987	176035	238353	126523	52194	151106	148198	40216	142022	78300	43789	113952
Crismon	Buffer	1	88725	165392	141191	172239	234557	122727	48398	147310	144402	36420	138226	74504	39993	110155
Scottsdale	Buffer	1	84470	161137	136936	167984	230302	118473	44143	143055	140147	32165	133972	70249	35738	105901
Riverview	Buffer	1	68826	145493	121292	152340	214658	102828	28499	127411	124503	16521	118327	54605	20094	90256
Canal System 2	Buffer	1	49888	126555	102354	133402	195720	83891	9561	108473	105565	-2416	99390	35668	1156	71319
Start (L. Classic)			111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043	62532	132694
Coyote	SIU	2	110406	187073	162872	193920	256238	144408	70079	168991	166083	58101	159907	96185	61674	131836
Los Muertos	SIU	2	93327	169994	145793	176841	239159	127330	53000	151912	149004	41023	142829	79107	44595	114758
Crismon	SIU	2	91083	167750	143549	174597	236915	125086	50756	149668	146760	38779	140585	76863	42351	112514
Scottsdale	SIU	2	89204	165872	141671	172719	235036	123207	48878	147790	144881	36900	138706	74984	40472	110635
Riverview	SIU	2	79379	156046	131845	162893	225211	113382	39052	137964	135056	27075	128881	65159	30647	100810
Canal System 2	SIU	2	66267	142934	118733	149781	212099	100270	25940	124852	121944	13963	115769	52047	17535	87698
Start (L. Classic)			111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043	62532	132694
Coyote	Buffer	2	108923	185590	161389	192437	254755	142926	68596	167508	164600	56618	158425	94702	60191	130354
Los Muertos	Buffer	2	73778	150445	126244	157292	219610	107781	33451	132363	129455	21473	123280	59557	25046	95209
Crismon	Buffer	2	66186	142853	118652	149700	212018	100188	25859	124771	121863	13881	115687	51965	17454	87616
Scottsdale	Buffer	2	57676	134343	110142	141190	203508	91679	17349	116261	113353	5372	107178	43456	8944	79107
Riverview	Buffer	2	26388	103055	78854	109902	172220	60390	-13939	84973	82065	-25917	75889	12167	-22344	47818
Canal System 2	Buffer	2	-11488	65180	40979	72027	134345	22515	-51814	47098	44190	-63792	38014	-25708	-60219	9943

System	Acreage Method	Acre-feet	1343 Silk 1	1344 Silk 1	1345 Silk 1	1346 Silk 1	1347 Silk 1	1348 Silk 1	1349 Silk 1	1350 Silk 1	1351 Silk 1	1352 Silk 1	1353 Silk 1	1354 Silk 1	1355 Silk 1	1356 Silk 1
Start (L. Classic)			123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434	52788	181369
Coyote	SIU	1	123015	119072	125537	137629	61505	115746	176721	68889	93914	97142	183978	181005	52359	180940
Los Muertos	SIU	1	114476	110533	116997	129090	52966	107207	168182	60350	85374	88603	175439	172466	43820	172400
Crismon	SIU	1	113354	109411	115875	127968	51844	106085	167060	59228	84252	87481	174317	171344	42698	171278
Scottsdale	SIU	1	112414	108472	114936	127028	50904	105146	166120	58288	83313	86542	173377	170404	41758	170339
Riverview	SIU	1	107502	103559	110023	122116	45992	100233	161208	53376	78400	81629	168465	165492	36846	165426
Canal System 2	SIU	1	100946	97003	103467	115560	39436	93677	154652	46820	71844	75073	161909	158936	30290	158870
Start (L. Classic)			123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434	52788	181369
Coyote	Buffer	1	122273	118331	124795	136888	60763	115005	175980	68148	93172	96401	183237	180264	51617	180198
Los Muertos	Buffer	1	104701	100759	107223	119315	43191	97433	158407	50575	75600	78828	165664	162691	34045	162626
Crismon	Buffer	1	100905	96962	103427	115519	39395	93636	154611	46779	71804	75032	161868	158895	30249	158830
Scottsdale	Buffer	1	96650	92708	99172	111264	35140	89382	150356	42524	67549	70777	157613	154640	25994	154575
Riverview	Buffer	1	81006	77063	83528	95620	19496	73737	134712	26880	51905	55133	141969	138996	10350	138931
Canal System 2	Buffer	1	62068	58126	64590	76683	558	54800	115775	7942	32967	36196	123032	120058	-8588	119993
Start (L. Classic)			123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434	52788	181369
Coyote	SIU	2	122586	118643	125108	137200	61076	115317	176292	68460	93485	96713	183549	180576	51930	180511
Los Muertos	SIU	2	105507	101565	108029	120122	43997	98239	159214	51381	76406	79635	166471	163497	34851	163432
Crismon	SIU	2	103263	99321	105785	117878	41753	95995	156970	49137	74162	77391	164227	161253	32607	161188
Scottsdale	SIU	2	101384	97442	103906	115999	39874	94116	155091	47259	72283	75512	162348	159375	30728	159309
Riverview	SIU	2	91559	87617	94081	106174	30049	84291	145266	37433	62458	65687	152523	149549	20903	149484
Canal System 2	SIU	2	78447	74505	80969	93062	16937	71179	132154	24321	49346	52575	139411	136437	7791	136372
Start (L. Classic)			123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434	52788	181369
Coyote	Buffer	2	121103	117161	123625	135717	59593	113835	174809	66977	92002	95230	182066	179093	50447	179028
Los Muertos	Buffer	2	85958	82016	88480	100572	24448	78690	139664	31832	56857	60085	146921	143948	15302	143883
Crismon	Buffer	2	78366	74423	80888	92980	16856	71097	132072	24240	49265	52493	139329	136356	7710	136291
Scottsdale	Buffer	2	69856	65914	72378	84471	8346	62588	123563	15730	40755	43984	130820	127846	-800	127781
Riverview	Buffer	2	38568	34625	41090	53182	-22942	31299	92274	-15558	9467	12695	99531	96558	-32088	96493
Canal System 2	Buffer	2	693	-3250	3215	15307	-60817	-6576	54399	-53433	-28409	-25180	61656	58683	-69963	58617

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1357 Silk 1	1358 Silk 1	1359 Silk 1	1360 Silk 1	1361 Silk 1	1362 Silk 1	1363 Silk 1	1364 Silk 1	1365 Silk 1	1366 Silk 1	1367 Silk 1	1368 Silk 1	1369 Silk 1	1370 Silk 1
Start (L. Classic)			191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439	85761	221632
Coyote	SIU	1	190855	305780	176343	59477	105410	125813	76637	152615	112879	181159	113841	200010	85332	221203
Los Muertos	SIU	1	182316	297241	167804	50937	96871	117274	68098	144076	104340	172620	105301	191471	76792	212663
Crismon	SIU	1	181194	296119	166682	49815	95749	116152	66976	142954	103218	171498	104179	190349	75670	211541
Scottsdale	SIU	1	180255	295179	165742	48876	94809	115213	66037	142015	102278	170558	103240	189410	74731	210602
Riverview	SIU	1	175342	290267	160830	43963	89897	110300	61124	137102	97366	165646	98327	184497	69818	205689
Canal System 2	SIU	1	168786	283711	154274	37407	83341	103744	54568	130546	90810	159090	91771	177941	63262	199133
Start (L. Classic)			191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439	85761	221632
Coyote	Buffer	1	190114	305039	175602	58735	104669	125072	75896	151874	112138	180417	113099	199269	84590	220461
Los Muertos	Buffer	1	172542	287466	158029	41163	87096	107500	58323	134301	94565	162845	95527	181697	67018	202889
Crismon	Buffer	1	168745	283670	154233	37367	83300	103703	54527	130505	90769	159049	91731	177900	63222	199093
Scottsdale	Buffer	1	164491	279415	149978	33112	79045	99449	50273	126250	86514	154794	87476	173646	58967	194838
Riverview	Buffer	1	148846	263771	134334	17468	63401	83804	34628	110606	70870	139150	71832	158001	43323	179194
Canal System 2	Buffer	1	129909	244833	115397	-1470	44463	64867	15691	91669	51932	120212	52894	139064	24385	160256
Start (L. Classic)			191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439	85761	221632
Coyote	SIU	2	190426	305351	175914	59048	104981	125384	76208	152186	112450	180730	113412	199581	84903	220774
Los Muertos	SIU	2	173348	288272	158836	41969	87902	108306	59130	135108	95371	163651	96333	182503	67824	203695
Crismon	SIU	2	171104	286028	156592	39725	85658	106062	56886	132864	93127	161407	94089	180259	65580	201451
Scottsdale	SIU	2	169225	284150	154713	37846	83780	104183	55007	130985	91249	159528	92210	178380	63701	199572
Riverview	SIU	2	159400	274324	144888	28021	73954	94358	45182	121160	81423	149703	82385	168555	53876	189747
Canal System 2	SIU	2	146288	261212	131776	14909	60842	81246	32070	108048	68311	136591	69273	155443	40764	176635
Start (L. Classic)			191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439	85761	221632
Coyote	Buffer	2	188944	303868	174431	57565	103498	123902	74726	150703	110967	179247	111929	198099	83420	219291
Los Muertos	Buffer	2	153799	268723	139286	22420	68353	88757	39581	115558	75822	144102	76784	162954	48275	184146
Crismon	Buffer	2	146206	261131	131694	14828	60761	81164	31988	107966	68230	136510	69192	155361	40683	176554
Scottsdale	Buffer	2	137697	252621	123185	6318	52251	72655	23479	99457	59720	128000	60682	146852	32173	168044
Riverview	Buffer	2	106408	221333	91896	-24970	20963	41366	-7810	68168	28432	96712	29394	115563	885	136756
Canal System 2	Buffer	2	68533	183458	54021	-62845	-16912	3491	-45685	30293	-9443	58837	-8481	77688	-36991	98881

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1371 Silk 1	1372 Silk 1	1373 Silk 1	1374 Silk 1	1375 Silk 1	1376 Silk 1	1377 Silk 1	1378 Silk 1	1379 Silk 1	1380 Silk 1	1381 Silk 1	1382 Silk 1	1383 Silk 1	1384 Silk 1
Start (L. Classic)			94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973	141075
Coyote	SIU	1	94191	144950	210912	217270	112480	80310	134014	102619	70368	291151	139354	159009	139544	140646
Los Muertos	SIU	1	85651	136410	202372	208731	103941	71771	125474	94079	61829	282612	130814	150470	131005	132107
Crismon	SIU	1	84529	135288	201250	207609	102819	70649	124352	92957	60707	281490	129692	149348	129883	130985
Scottsdale	SIU	1	83590	134349	200311	206669	101879	69710	123413	92018	59768	280550	128753	148408	128943	130046
Riverview	SIU	1	78677	129436	195398	201757	96967	64797	118500	87105	54855	275638	123840	143496	124031	125133
Canal System 2	SIU	1	72121	122880	188842	195201	90411	58241	111944	80549	48299	269082	117284	136940	117475	118577
Start (L. Classic)			94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973	141075
Coyote	Buffer	1	93449	144208	210170	216528	111739	79569	133272	101877	69627	290410	138612	158268	138803	139905
Los Muertos	Buffer	1	75877	126636	192598	198956	94166	61997	115700	84305	52054	272837	121040	140695	121230	122333
Crismon	Buffer	1	72081	122840	188802	195160	90370	58200	111904	80509	48258	269041	117244	136899	117434	118536
Scottsdale	Buffer	1	67826	118585	184547	190905	86115	53946	107649	76254	44004	264786	112989	132644	113179	114282
Riverview	Buffer	1	52182	102941	168903	175261	70471	38301	92005	60610	28359	249142	97345	117000	97535	98637
Canal System 2	Buffer	1	33244	84003	149965	156323	51533	19364	73067	41672	9422	230204	78407	98063	78597	79700
Start (L. Classic)			94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973	141075
Coyote	SIU	2	93762	144521	210483	216841	112051	79881	133585	102190	69939	290722	138925	158580	139115	140217
Los Muertos	SIU	2	76683	127442	193404	199762	94972	62803	116506	85111	52861	273643	121846	141502	122036	123139
Crismon	SIU	2	74439	125198	191160	197518	92728	60559	114262	82867	50617	271399	119602	139258	119792	120895
Scottsdale	SIU	2	72560	123319	189281	195639	90850	58680	112383	80988	48738	269521	117723	137379	117914	119016
Riverview	SIU	2	62735	113494	179456	185814	81024	48855	102558	71163	38913	259695	107898	127554	108088	109191
Canal System 2	SIU	2	49623	100382	166344	172702	67912	35743	89446	58051	25801	246583	94786	114442	94976	96079
Start (L. Classic)			94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973	141075
Coyote	Buffer	2	92279	143038	209000	215358	110568	78399	132102	100707	68457	289239	137442	157097	137632	138735
Los Muertos	Buffer	2	57134	107893	173855	180213	75423	43254	96957	65562	33312	254094	102297	121952	102487	103590
Crismon	Buffer	2	49542	100301	166263	172621	67831	35661	89365	57970	25719	246502	94705	114360	94895	95997
Scottsdale	Buffer	2	41032	91791	157753	164111	59321	27152	80855	49460	17210	237992	86195	105851	86385	87488
Riverview	Buffer	2	9744	60503	126465	132823	28033	-4137	49567	18172	-14079	206704	54907	74562	55097	56199
Canal System 2	Buffer	2	-28131	22627	88590	94948	-9842	-42012	11691	-19704	-51954	168829	17031	36687	17222	18324

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1385 Silk 1	1386 Silk 1	1387 Silk 1	1388 Silk 1	1389 Silk 1	1390 Silk 1	1391 Silk 1	1392 Silk 1	1393 Silk 1	1394 Silk 1	1395 Silk 1	1396 Silk 1	1397 Silk 1	1398 Silk 1
Start (L. Classic)			142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329	124094
Coyote	SIU	1	141715	151062	122294	113376	100635	89107	112125	190687	102930	171859	106950	151519	90900	123665
Los Muertos	SIU	1	133175	142523	113755	104836	92095	80568	103586	182148	94391	163320	98411	142980	82361	115125
Crismon	SIU	1	132053	141401	112633	103714	90973	79446	102464	181026	93269	162198	97289	141858	81239	114003
Scottsdale	SIU	1	131114	140461	111694	102775	90034	78506	101524	180086	92329	161258	96350	140918	80299	113064
Riverview	SIU	1	126201	135549	106781	97862	85121	73594	96612	175174	87417	156346	91437	136006	75387	108151
Canal System 2	SIU	1	119645	128993	100225	91306	78565	67038	90056	168618	80861	149790	84881	129450	68831	101595
Start (L. Classic)			142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329	124094
Coyote	Buffer	1	140973	150321	121553	112634	99893	88366	111383	189946	102189	171118	106209	150778	90158	122923
Los Muertos	Buffer	1	123401	132748	103980	95062	82321	70793	93811	172373	84616	153545	88636	133205	72586	105351
Crismon	Buffer	1	119605	128952	100184	91266	78525	66997	90015	168577	80820	149749	84840	129409	68790	101555
Scottsdale	Buffer	1	115350	124697	95929	87011	74270	62742	85760	164322	76565	145494	80585	125154	64535	97300
Riverview	Buffer	1	99706	109053	80285	71367	58626	47098	70116	148678	60921	129850	64941	109510	48891	81656
Canal System 2	Buffer	1	80768	90115	61348	52429	39688	28160	51178	129740	41984	110912	46004	90572	29953	62718
Start (L. Classic)			142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329	124094
Coyote	SIU	2	141286	150633	121865	112947	100206	88678	111696	190258	102501	171430	106521	151090	90471	123236
Los Muertos	SIU	2	124207	133554	104787	95868	83127	71599	94617	173179	85423	154351	89443	134011	73392	106157
Crismon	SIU	2	121963	131310	102543	93624	80883	69355	92373	170935	83179	152107	87199	131767	71148	103913
Scottsdale	SIU	2	120084	129432	100664	91745	79004	67477	90494	169057	81300	150229	85320	129889	69269	102034
Riverview	SIU	2	110259	119606	90839	81920	69179	57651	80669	159231	71475	140403	75495	120063	59444	92209
Canal System 2	SIU	2	97147	106494	77727	68808	56067	44539	67557	146119	58363	127291	62383	106951	46332	79097
Start (L. Classic)			142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329	124094
Coyote	Buffer	2	139803	149150	120382	111464	98723	87195	110213	188775	101018	169947	105038	149607	88988	121753
Los Muertos	Buffer	2	104658	114005	85237	76319	63578	52050	75068	153630	65873	134802	69893	114462	53843	86608
Crismon	Buffer	2	97066	106413	77645	68727	55986	44458	67476	146038	58281	127210	62301	106870	46251	79016
Scottsdale	Buffer	2	88556	97903	69136	60217	47476	35948	58966	137528	49772	118700	53792	98360	37741	70506
Riverview	Buffer	2	57268	66615	37847	28929	16188	4660	27678	106240	18483	87412	22503	67072	6453	39218
Canal System 2	Buffer	2	19393	28740	-28	-8947	-21688	-33215	-10197	68365	-19392	49537	-15372	29197	-31422	1342

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1399 Silk 1	1400 Silk 1	1401 Silk 1	1402 Silk 1	1403 Silk 1	1404 Silk 1	1405 Silk 1	1406 Silk 1	1407 Silk 1	1408 Silk 1	1409 Silk 1	1410 Silk 1	1411 Silk 1	1412 Silk 1
Start (L. Classic)			107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	SIU	1	106575	132253	131375	111167	117407	237156	117587	157243	63228	139406	224468	73199	85721	160822
Los Muertos	SIU	1	98036	123714	122836	102628	108867	228617	109048	148704	54689	130866	215929	64660	77181	152282
Crismon	SIU	1	96914	122592	121714	101506	107745	227495	107926	147582	53567	129744	214807	63538	76059	151160
Scottsdale	SIU	1	95974	121652	120774	100566	106806	226555	106986	146642	52628	128805	213867	62599	75120	150221
Riverview	SIU	1	91062	116740	115862	95654	101893	221643	102074	141730	47715	123892	208955	57686	70207	145308
Canal System 2	SIU	1	84506	110184	109306	89098	95337	215087	95518	135174	41159	117336	202399	51130	63651	138752
Start (L. Classic)			107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	Buffer	1	105834	131512	130634	110426	116665	236415	116846	156502	62487	138664	223727	72458	84979	160080
Los Muertos	Buffer	1	88261	113939	113061	92853	99093	218842	99273	138929	44914	121092	206154	54885	67407	142508
Crismon	Buffer	1	84465	110143	109265	89057	95297	215046	95477	135133	41118	117296	202358	51089	63611	138712
Scottsdale	Buffer	1	80210	105888	105010	84802	91042	210791	91222	130878	36863	113041	198103	46835	59356	134457
Riverview	Buffer	1	64566	90244	89366	69158	75398	195147	75578	115234	21219	97397	182459	31190	43712	118813
Canal System 2	Buffer	1	45628	71306	70429	50220	56460	176210	56640	96297	2282	78459	163521	12253	24774	99875
Start (L. Classic)			107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	SIU	2	106146	131824	130946	110738	116978	236727	117158	156814	62799	138977	224039	72770	85292	160393
Los Muertos	SIU	2	89067	114745	113868	93659	99899	219649	100079	139736	45721	121898	206960	55692	68213	143314
Crismon	SIU	2	86823	112501	111624	91415	97655	217405	97835	137492	43477	119654	204716	53448	65969	141070
Scottsdale	SIU	2	84945	110623	109745	89537	95776	215526	95957	135613	41598	117775	202838	51569	64090	139191
Riverview	SIU	2	75119	100797	99920	79711	85951	205701	86131	125788	31773	107950	193012	41744	54265	129366
Canal System 2	SIU	2	62007	87685	86808	66599	72839	192589	73019	112676	18661	94838	179900	28632	41153	116254
Start (L. Classic)			107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	Buffer	2	104663	130341	129463	109255	115495	235244	115675	155331	61316	137494	222556	71288	83809	158910
Los Muertos	Buffer	2	69518	95196	94318	74110	80350	200099	80530	120186	26171	102349	187411	36143	48664	123765
Crismon	Buffer	2	61926	87604	86726	66518	72758	192507	72938	112594	18579	94757	179819	28550	41072	116173
Scottsdale	Buffer	2	53416	79094	78217	58008	64248	183998	64428	104085	10070	86247	171309	20041	32562	107663
Riverview	Buffer	2	22128	47806	46928	26720	32960	152709	33140	72796	-21219	54959	140021	-11248	1274	76375
Canal System 2	Buffer	2	-15747	9931	9053	-11155	-4916	114834	-4735	34921	-59094	17083	102146	-49123	-36602	38499

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1413 Silk 1	1414 Silk 1	1415 Silk 1	1416 Silk 1	1417 Silk 1	1418 Silk 1	1419 Silk 1	1420 Silk 1	1421 Silk 1	1422 Silk 1	1423 Silk 1	1424 Silk 1	1425 Silk 1	1426 Silk 1
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	SIU	1	75815	239949	83773	113519	165960	107302	111844	175758	60842	150395	66719	151283	136199	213326
Los Muertos	SIU	1	67276	231410	75234	104980	157420	98763	103304	167219	52303	141856	58180	142744	127660	204787
Crismon	SIU	1	66154	230288	74112	103858	156298	97641	102182	166097	51181	140734	57058	141622	126538	203665
Scottsdale	SIU	1	65214	229348	73173	102919	155359	96701	101243	165157	50242	139795	56118	140683	125598	202725
Riverview	SIU	1	60302	224436	68260	98006	150446	91789	96330	160245	45329	134882	51206	135770	120686	197813
Canal System 2	SIU	1	53746	217880	61704	91450	143890	85233	89774	153689	38773	128326	44650	129214	114130	191257
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	Buffer	1	75073	239208	83032	112778	165218	106561	111102	175017	60101	149654	65978	150542	135457	212584
Los Muertos	Buffer	1	57501	221635	65460	95206	147646	88988	93530	157444	42528	132081	48405	132970	117885	195012
Crismon	Buffer	1	53705	217839	61663	91409	143850	85192	89734	153648	38732	128285	44609	129173	114089	191216
Scottsdale	Buffer	1	49450	213584	57409	87155	139595	80937	85479	149393	34477	124030	40354	124919	109834	186961
Riverview	Buffer	1	33806	197940	41764	71510	123951	65293	69835	133749	18833	108386	24710	109274	94190	171317
Canal System 2	Buffer	1	14868	179002	22827	52573	105013	46355	50897	114811	-104	89449	5772	90337	75252	152379
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	SIU	2	75386	239520	83344	113090	165531	106873	111415	175329	60413	149966	66290	150854	135770	212897
Los Muertos	SIU	2	58307	222441	66266	96012	148452	89794	94336	158250	43335	132888	49211	133776	118691	195818
Crismon	SIU	2	56063	220197	64022	93768	146208	87550	92092	156006	41091	130644	46967	131532	116447	193574
Scottsdale	SIU	2	54184	218319	62143	91889	144329	85672	90213	154128	39212	128765	45089	129653	114568	191695
Riverview	SIU	2	44359	208493	52318	82064	134504	75846	80388	144302	29387	118940	35263	119828	104743	181870
Canal System 2	SIU	2	31247	195381	39206	68952	121392	62734	67276	131190	16275	105828	22151	106716	91631	168758
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	Buffer	2	73903	238037	81862	111608	164048	105390	109932	173846	58930	148483	64807	149372	134287	211414
Los Muertos	Buffer	2	38758	202892	46717	76463	128903	70245	74787	138701	23785	113338	29662	114227	99142	176269
Crismon	Buffer	2	31166	195300	39124	68870	121311	62653	67195	131109	16193	105746	22070	106634	91550	168677
Scottsdale	Buffer	2	22656	186790	30615	60361	112801	54143	58685	122599	7684	97237	13560	98125	83040	160167
Riverview	Buffer	2	-8632	155502	-674	29072	81513	22855	27397	91311	-23605	65948	-17728	66836	51752	128879
Canal System 2	Buffer	2	-46507	117627	-38549	-8803	43637	-15020	-10478	53436	-61480	28073	-55603	28961	13877	91004

System	Acreage Method	Acre-feet	1427 Silk 1	1428 Silk 1	1429 Silk 1	1430 Silk 1	1431 Silk 1	1432 Silk 1	1433 Silk 1	1434 Silk 1	1435 Silk 1	1436 Silk 1	1437 Silk 1	1438 Silk 1	1439 Silk 1	1440 Silk 1
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	SIU	1	211242	241991	133435	132073	176556	118898	226820	173401	80609	90261	99682	69974	115178	140669
Los Muertos	SIU	1	202703	233451	124896	123534	168017	110359	218280	164861	72070	81721	91143	61434	106639	132130
Crismon	SIU	1	201581	232329	123774	122412	166895	109237	217158	163739	70948	80599	90021	60312	105517	131008
Scottsdale	SIU	1	200641	231390	122834	121473	165955	108298	216219	162800	70008	79660	89082	59373	104577	130068
Riverview	SIU	1	195729	226477	117922	116560	161043	103385	211306	157887	65096	74747	84169	54460	99665	125156
Canal System 2	SIU	1	189173	219921	111366	110004	154487	96829	204750	151331	58540	68191	77613	47904	93109	118600
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	Buffer	1	210500	241249	132694	131332	175815	118157	226078	172659	79868	89519	98941	69232	114437	139928
Los Muertos	Buffer	1	192928	223677	115121	113759	158242	100584	208506	155087	62295	71947	81369	51660	96864	122355
Crismon	Buffer	1	189132	219881	111325	109963	154446	96788	204710	151291	58499	68151	77572	47864	93068	118559
Scottsdale	Buffer	1	184877	215626	107070	105708	150191	92534	200455	147036	54244	63896	73318	43609	88813	114304
Riverview	Buffer	1	169233	199982	91426	90064	134547	76889	184811	131392	38600	48252	57673	27965	73169	98660
Canal System 2	Buffer	1	150295	181044	72488	71127	115609	57952	165873	112454	19663	29314	38736	9027	54231	79723
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	SIU	2	210813	241562	133006	131644	176127	118469	226391	172972	80180	89832	99253	69545	114749	140240
Los Muertos	SIU	2	193734	224483	115927	114566	159048	101391	209312	155893	63102	72753	82175	52466	97670	123162
Crismon	SIU	2	191490	222239	113683	112322	156804	99147	207068	153649	60858	70509	79931	50222	95426	120918
Scottsdale	SIU	2	189611	220360	111805	110443	154926	97268	205189	151770	58979	68630	78052	48343	93548	119039
Riverview	SIU	2	179786	210535	101979	100618	145100	87443	195364	141945	49154	58805	68227	38518	83722	109214
Canal System 2	SIU	2	166674	197423	88867	87506	131988	74331	182252	128833	36042	45693	55115	25406	70610	96102
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	Buffer	2	209330	240079	131523	130161	174644	116987	224908	171489	78697	88349	97771	68062	113266	138757
Los Muertos	Buffer	2	174185	204934	96378	95016	139499	81842	189763	136344	43552	53204	62626	32917	78121	103612
Crismon	Buffer	2	166593	197342	88786	87424	131907	74249	182171	128752	35960	45612	55033	25325	70529	96020
Scottsdale	Buffer	2	158083	188832	80276	78915	123397	65740	173661	120242	27451	37102	46524	16815	62019	87511
Riverview	Buffer	2	126795	157544	48988	47626	92109	34451	142373	88954	-3838	5814	15235	-14473	30731	56222
Canal System 2	Buffer	2	88920	119668	11113	9751	54234	-3424	104498	51078	-41713	-32062	-22640	-52349	-7144	18347

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1441 Silk 1	1442 Silk 1	1443 Silk 1	1444 Silk 1	1445 Silk 1	1446 Silk 1	1447 Silk 1	1448 Silk 1	1449 Silk 1	1450 Silk 1	Total Deficits	1300 Plant 2	1301 Plant 2
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	SIU	1	212671	74922	115382	121768	93649	102007	127554	65700	102325	77558	0	60445	111201
Los Muertos	SIU	1	204132	66382	106843	113229	85109	93467	119015	57161	93786	69019	0	51906	102661
Crismon	SIU	1	203010	65260	105721	112107	83987	92345	117893	56039	92664	67897	0	50784	101539
Scottsdale	SIU	1	202071	64321	104781	111167	83048	91406	116953	55099	91724	66958	0	49845	100600
Riverview	SIU	1	197158	59408	99869	106255	78135	86493	112041	50187	86812	62045	0	44932	95687
Canal System 2	SIU	1	190602	52852	93313	99699	71579	79937	105485	43631	80256	55489	0	38376	89131
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	Buffer	1	211930	74180	114640	121026	92907	101265	126813	64958	101584	76817	0	59704	110459
Los Muertos	Buffer	1	194358	56608	97068	103454	75335	83693	109240	47386	84011	59244	0	42132	92887
Crismon	Buffer	1	190561	52812	93272	99658	71539	79897	105444	43590	80215	55448	0	38335	89091
Scottsdale	Buffer	1	186307	48557	89017	95403	67284	75642	101189	39335	75960	51194	0	34081	84836
Riverview	Buffer	1	170662	32913	73373	79759	51640	59998	85545	23691	60316	35549	0	18436	69192
Canal System 2	Buffer	1	151725	13975	54435	60821	32702	41060	66607	4753	41379	16612	5	-501	50254
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	SIU	2	212242	74493	114953	121339	93220	101578	127125	65271	101896	77129	0	60016	110772
Los Muertos	SIU	2	195164	57414	97874	104260	76141	84499	110046	48192	84818	60051	0	42938	93693
Crismon	SIU	2	192920	55170	95630	102016	73897	82255	107802	45948	82574	57807	0	40694	91449
Scottsdale	SIU	2	191041	53291	93751	100137	72018	80376	105924	44069	80695	55928	0	38815	89570
Riverview	SIU	2	181216	43466	83926	90312	62193	70551	96098	34244	70870	46103	0	28990	79745
Canal System 2	SIU	2	168104	30354	70814	77200	49081	57439	82986	21132	57758	32991	0	15878	66633
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	Buffer	2	210760	73010	113470	119856	91737	100095	125642	63788	100413	75647	0	58534	109289
Los Muertos	Buffer	2	175615	37865	78325	84711	56592	64950	90497	28643	65268	40502	0	23389	74144
Crismon	Buffer	2	168022	30273	70733	77119	49000	57358	82905	21051	57676	32909	0	15796	66552
Scottsdale	Buffer	2	159513	21763	62223	68609	40490	48848	74395	12541	49167	24400	2	7287	58042
Riverview	Buffer	2	128224	-9525	30935	37321	9202	17560	43107	-18747	17878	-6889	25	-24002	26754
Canal System 2	Buffer	2	90349	-47401	-6940	-554	-28674	-20315	5232	-56622	-19997	-44764	67	-61877	-11122

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1302 Plant 2	1303 Plant 2	1304 Plant 2	1305 Plant 2	1306 Plant 2	1307 Plant 2	1308 Plant 2	1309 Plant 2	1310 Plant 2	1311 Plant 2	1312 Plant 2	1313 Plant 2	1314 Plant 2	1315 Plant 2
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	SIU	1	113782	98378	46881	140564	47261	27358	42380	92854	128859	61124	96583	110880	52541	27488
Los Muertos	SIU	1	105242	89839	38342	132025	38722	18818	33840	84315	120320	52585	88044	102341	44001	18949
Crismon	SIU	1	104120	88717	37220	130903	37600	17696	32718	83193	119198	51463	86922	101219	42879	17827
Scottsdale	SIU	1	103181	87777	36281	129964	36660	16757	31779	82253	118258	50523	85982	100280	41940	16887
Riverview	SIU	1	98268	82865	31368	125051	31748	11844	26866	77341	113346	45611	81070	95367	37027	11975
Canal System 2	SIU	1	91712	76309	24812	118495	25192	5288	20310	70785	106790	39055	74514	88811	30471	5419
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	Buffer	1	113040	97637	46140	139823	46520	26616	41638	92113	128118	60383	95842	110139	51799	26747
Los Muertos	Buffer	1	95468	80064	28568	122250	28947	9044	24066	74540	110545	42810	78269	92566	34227	9174
Crismon	Buffer	1	91672	76268	24771	118454	25151	5248	20270	70744	106749	39014	74473	88770	30431	5378
Scottsdale	Buffer	1	87417	72013	20517	114199	20896	993	16015	66489	102494	34759	70218	84515	26176	1123
Riverview	Buffer	1	71773	56369	4872	98555	5252	-14651	371	50845	86850	19115	54574	68871	10532	-14521
Canal System 2	Buffer	1	52835	37431	-14065	79618	-13685	-33589	-18567	31908	67912	178	35636	49934	-8406	-33459
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	SIU	2	113353	97949	46452	140135	46832	26929	41951	92425	128430	60695	96154	110451	52112	27059
Los Muertos	SIU	2	96274	80870	29374	123057	29754	9850	24872	75347	111351	43617	79075	93373	35033	9980
Crismon	SIU	2	94030	78626	27130	120813	27510	7606	22628	73103	109107	41373	76831	91129	32789	7736
Scottsdale	SIU	2	92151	76748	25251	118934	25631	5727	20749	71224	107229	39494	74953	89250	30910	5858
Riverview	SIU	2	82326	66922	15426	109109	15806	-4098	10924	61399	97403	29669	65127	79425	21085	-3968
Canal System 2	SIU	2	69214	53810	2314	95997	2694	-17210	-2188	48287	84291	16557	52015	66313	7973	-17080
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	Buffer	2	111870	96466	44970	138652	45349	25446	40468	90942	126947	59212	94671	108968	50629	25576
Los Muertos	Buffer	2	76725	61321	9825	103507	10204	-9699	5323	55797	91802	24067	59526	73823	15484	-9569
Crismon	Buffer	2	69133	53729	2232	95915	2612	-17291	-2269	48205	84210	16475	51934	66231	7892	-17161
Scottsdale	Buffer	2	60623	45219	-6277	87406	-5897	-25801	-10779	39696	75700	7966	43424	57722	-618	-25671
Riverview	Buffer	2	29335	13931	-37566	56117	-37186	-57089	-42067	8407	44412	-23323	12136	26433	-31906	-56959
Canal System 2	Buffer	2	-8541	-23944	-75441	18242	-75061	-94965	-79942	-29468	6537	-61198	-25739	-11442	-69782	-94834

System	Acreage Method	Acre-feet	1316 Plant 2	1317 Plant 2	1318 Plant 2	1319 Plant 2	1320 Plant 2	1321 Plant 2	1322 Plant 2	1323 Plant 2	1324 Plant 2	1325 Plant 2	1326 Plant 2	1327 Plant 2	1328 Plant 2	1329 Plant 2
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	SIU	1	19159	81758	91445	64651	53676	95603	52920	41645	41640	107660	84693	43892	24396	40497
Los Muertos	SIU	1	10620	73218	82905	56112	45137	87064	44381	33106	33101	99121	76153	35353	15857	31958
Crismon	SIU	1	9498	72096	81783	54990	44015	85942	43259	31984	31979	97999	75031	34231	14735	30836
Scottsdale	SIU	1	8559	71157	80844	54050	43075	85002	42320	31045	31040	97059	74092	33292	13795	29896
Riverview	SIU	1	3646	66244	75931	49138	38163	80090	37407	26132	26127	92147	69179	28379	8883	24984
Canal System 2	SIU	1	-2910	59688	69375	42582	31607	73534	30851	19576	19571	85591	62623	21823	2327	18428
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	Buffer	1	18418	81016	90703	63910	52934	94862	52179	40904	40899	106919	83951	43151	23655	39756
Los Muertos	Buffer	1	845	63444	73131	46337	35362	77289	34606	23331	23326	89346	66379	25578	6082	22183
Crismon	Buffer	1	-2951	59648	69335	42541	31566	73493	30810	19535	19530	85550	62583	21782	2286	18387
Scottsdale	Buffer	1	-7205	55393	65080	38286	27311	69238	26555	15280	15276	81295	58328	17528	-1969	14132
Riverview	Buffer	1	-22850	39749	49436	22642	11667	53594	10911	-364	-369	65651	42684	1883	-17613	-1512
Canal System 2	Buffer	1	-41787	20811	30498	3704	-7271	34656	-8026	-19301	-19306	46713	23746	-17054	-36551	-20450
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	SIU	2	18730	81329	91016	64222	53247	95174	52491	41216	41211	107231	84264	43463	23967	40068
Los Muertos	SIU	2	1652	64250	73937	47143	36168	78095	35413	24138	24133	90152	67185	26385	6888	22989
Crismon	SIU	2	-592	62006	71693	44899	33924	75851	33169	21894	21889	87908	64941	24141	4644	20745
Scottsdale	SIU	2	-2471	60127	69814	43021	32045	73973	31290	20015	20010	86030	63062	22262	2766	18867
Riverview	SIU	2	-12296	50302	59989	33195	22220	64147	21465	10190	10185	76204	53237	12437	-7060	9041
Canal System 2	SIU	2	-25408	37190	46877	20083	9108	51035	8353	-2922	-2927	63092	40125	-675	-20172	-4071
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	Buffer	2	17248	79846	89533	62739	51764	93691	51008	39733	39729	105748	82781	41981	22484	38585
Los Muertos	Buffer	2	-17897	44701	54388	27594	16619	58546	15863	4588	4584	70603	47636	6836	-12661	3440
Crismon	Buffer	2	-25490	37109	46796	20002	9027	50954	8271	-3004	-3009	63011	40044	-757	-20253	-4152
Scottsdale	Buffer	2	-33999	28599	38286	11492	517	42444	-238	-11513	-11518	54501	31534	-9266	-28763	-12662
Riverview	Buffer	2	-65288	-2689	6998	-19796	-30771	11156	-31527	-42802	-42807	23213	246	-40555	-60051	-43950
Canal System 2	Buffer	2	-103163	-40565	-30878	-57671	-68646	-26719	-69402	-80677	-80682	-14662	-37630	-78430	-97926	-81825

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1330 Plant 2	1331 Plant 2	1332 Plant 2	1333 Plant 2	1334 Plant 2	1335 Plant 2	1336 Plant 2	1337 Plant 2	1338 Plant 2	1339 Plant 2	1340 Plant 2	1341 Plant 2	1342 Plant 2	1343 Plant 2
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	SIU	1	68698	59796	71216	94138	53004	25664	62046	60977	21258	58705	35266	22572	48380	44977
Los Muertos	SIU	1	60158	51256	62677	85599	44465	17124	53507	52437	12719	50166	26727	14033	39841	36438
Crismon	SIU	1	59036	50134	61555	84477	43343	16002	52385	51315	11597	49044	25605	12911	38719	35316
Scottsdale	SIU	1	58097	49195	60615	83538	42404	15063	51446	50376	10657	48105	24666	11971	37779	34377
Riverview	SIU	1	53184	44282	55703	78625	37491	10150	46533	45463	5745	43192	19753	7059	32867	29464
Canal System 2	SIU	1	46628	37726	49147	72069	30935	3594	39977	38907	-811	36636	13197	503	26311	22908
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	Buffer	1	67956	59054	70475	93397	52263	24922	61305	60235	20517	57964	34525	21831	47639	44236
Los Muertos	Buffer	1	50384	41482	52902	75824	34690	7350	43733	42663	2944	40391	16952	4258	30066	26663
Crismon	Buffer	1	46588	37686	49106	72028	30894	3554	39936	38867	-852	36595	13156	462	26270	22867
Scottsdale	Buffer	1	42333	33431	44851	67774	26639	-701	35682	34612	-5107	32340	8902	-3793	22015	18612
Riverview	Buffer	1	26689	17787	29207	52129	10995	-16345	20037	18968	-20751	16696	-6743	-19437	6371	2968
Canal System 2	Buffer	1	7751	-1151	10269	33192	-7942	-35283	1100	30	-39689	-2241	-25680	-38375	-12567	-15969
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	SIU	2	68269	59367	70787	93709	52575	25235	61617	60548	20829	58276	34837	22143	47951	44548
Los Muertos	SIU	2	51190	42288	53708	76631	35497	8156	44539	43469	3750	41198	17759	5064	30872	27470
Crismon	SIU	2	48946	40044	51464	74387	33253	5912	42295	41225	1506	38954	15515	2820	28628	25226
Scottsdale	SIU	2	47067	38165	49586	72508	31374	4033	40416	39346	-372	37075	13636	942	26750	23347
Riverview	SIU	2	37242	28340	39760	62683	21549	-5792	30591	29521	-10198	27250	3811	-8884	16924	13522
Canal System 2	SIU	2	24130	15228	26648	49571	8437	-18904	17479	16409	-23310	14138	-9301	-21996	3812	410
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	Buffer	2	66786	57884	69304	92227	51092	23752	60135	59065	19346	56793	33355	20660	46468	43065
Los Muertos	Buffer	2	31641	22739	34159	57082	15947	-11393	24990	23920	-15799	21648	-1790	-14485	11323	7920
Crismon	Buffer	2	24049	15147	26567	49489	8355	-18985	17397	16328	-23391	14056	-9383	-22077	3731	328
Scottsdale	Buffer	2	15539	6637	18057	40980	-154	-27495	8888	7818	-31901	5547	-17892	-30587	-4779	-8181
Riverview	Buffer	2	-15749	-24651	-13231	9691	-31443	-58783	-22401	-23470	-63189	-25742	-49181	-61875	-36067	-39470
Canal System 2	Buffer	2	-53625	-62526	-51106	-28184	-69318	-96658	-60276	-61345	-101064	-63617	-87056	-99750	-73942	-77345

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1344 Plant 2	1345 Plant 2	1346 Plant 2	1347 Plant 2	1348 Plant 2	1349 Plant 2	1350 Plant 2	1351 Plant 2	1352 Plant 2	1353 Plant 2	1354 Plant 2	1355 Plant 2	1356 Plant 2	1357 Plant 2
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	SIU	1	43527	45905	50353	22352	42304	64732	25068	34273	35461	67401	66308	18988	66284	69931
Los Muertos	SIU	1	34988	37366	41814	13813	33764	56193	16529	25734	26921	58862	57768	10449	57744	61392
Crismon	SIU	1	33866	36244	40692	12691	32642	55071	15407	24612	25799	57740	56646	9327	56622	60270
Scottsdale	SIU	1	32926	35304	39752	11751	31703	54131	14468	23672	24860	56801	55707	8387	55683	59330
Riverview	SIU	1	28014	30392	34840	6839	26790	49219	9555	18760	19947	51888	50794	3475	50770	54418
Canal System 2	SIU	1	21458	23836	28284	283	20234	42663	2999	12204	13391	45332	44238	-3081	44214	47862
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	Buffer	1	42786	45164	49611	21611	41562	63991	24327	33532	34719	66660	65566	18247	65542	69190
Los Muertos	Buffer	1	25213	27591	32039	4038	23990	46418	6754	15959	17147	49087	47994	674	47970	51617
Crismon	Buffer	1	21417	23795	28243	242	20194	42622	2958	12163	13351	45291	44198	-3122	44174	47821
Scottsdale	Buffer	1	17162	19540	23988	-4013	15939	38367	-1297	7908	9096	41037	39943	-7377	39919	43566
Riverview	Buffer	1	1518	3896	8344	-19657	295	22723	-16941	-7736	-6548	25392	24299	-23021	24275	27922
Canal System 2	Buffer	1	-17419	-15042	-10594	-38594	-18643	3785	-35878	-26674	-25486	6455	5361	-41959	5337	8984
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	SIU	2	43098	45476	49924	21923	41875	64303	24639	33844	35032	66972	65879	18559	65855	69502
Los Muertos	SIU	2	26020	28397	32845	4845	24796	47224	7561	16765	17953	49894	48800	1480	48776	52423
Crismon	SIU	2	23776	26153	30601	2601	22552	44980	5317	14521	15709	47650	46556	-764	46532	50179
Scottsdale	SIU	2	21897	24275	28722	722	20673	43102	3438	12643	13830	45771	44677	-2642	44653	48301
Riverview	SIU	2	12072	14449	18897	-9103	10848	33276	-6387	2817	4005	35946	34852	-12468	34828	38475
Canal System 2	SIU	2	-1040	1337	5785	-22215	-2264	20164	-19499	-10295	-9107	22834	21740	-25580	21716	25363
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	Buffer	2	41615	43993	48441	20440	40392	62820	23156	32361	33549	65490	64396	17076	64372	68019
Los Muertos	Buffer	2	6470	8848	13296	-14705	5247	27675	-11989	-2784	-1596	30345	29251	-18069	29227	32874
Crismon	Buffer	2	-1122	1256	5704	-22297	-2345	20083	-19581	-10376	-9188	22752	21659	-25661	21635	25282
Scottsdale	Buffer	2	-9631	-7254	-2806	-30806	-10855	11573	-28090	-18886	-17698	14243	13149	-34171	13125	16772
Riverview	Buffer	2	-40920	-38542	-34094	-62095	-42143	-19715	-59379	-50174	-48986	-17046	-18139	-65459	-18163	-14516
Canal System 2	Buffer	2	-78795	-76417	-71969	-99970	-80018	-57590	-97254	-88049	-86862	-54921	-56014	-103334	-56038	-52391

System	Acreage Method	Acre-feet	1358 Plant 2	1359 Plant 2	1360 Plant 2	1361 Plant 2	1362 Plant 2	1363 Plant 2	1364 Plant 2	1365 Plant 2	1366 Plant 2	1367 Plant 2	1368 Plant 2	1369 Plant 2	1370 Plant 2	1371 Plant 2
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	SIU	1	112204	64593	21606	38502	46007	27918	55865	41249	66364	41603	73299	31116	81094	34375
Los Muertos	SIU	1	103664	56054	13067	29962	37467	19379	47326	32710	57825	33063	64759	22577	72554	25836
Crismon	SIU	1	102542	54932	11945	28840	36345	18257	46204	31588	56703	31941	63637	21455	71432	24714
Scottsdale	SIU	1	101603	53992	11005	27901	35406	17318	45264	30648	55764	31002	62698	20516	70493	23774
Riverview	SIU	1	96690	49080	6093	22988	30493	12405	40352	25736	50851	26089	57785	15603	65580	18862
Canal System 2	SIU	1	90134	42524	-463	16432	23937	5849	33796	19180	44295	19533	51229	9047	59024	12306
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	Buffer	1	111462	63852	20865	37760	45265	27177	55124	40508	65623	40861	72557	30375	80352	33634
Los Muertos	Buffer	1	93890	46279	3292	20188	27693	9604	37551	22935	48050	23289	54985	12802	62780	16061
Crismon	Buffer	1	90094	42483	-504	16392	23897	5808	33755	19139	44254	19493	51189	9006	58984	12265
Scottsdale	Buffer	1	85839	38228	-4759	12137	19642	1553	29500	14884	40000	15238	46934	4751	54729	8010
Riverview	Buffer	1	70195	22584	-20403	-3507	3998	-14091	13856	-760	24355	-406	31290	-10893	39085	-7634
Canal System 2	Buffer	1	51257	3646	-39340	-22445	-14940	-33028	-5081	-19698	5418	-19344	12352	-29830	20147	-26572
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	SIU	2	111775	64164	21177	38073	45578	27489	55436	40820	65935	41174	72870	30687	80665	33946
Los Muertos	SIU	2	94696	47085	4099	20994	28499	10411	38358	23741	48857	24095	55791	13609	63586	16867
Crismon	SIU	2	92452	44841	1855	18750	26255	8167	36114	21497	46613	21851	53547	11365	61342	14623
Scottsdale	SIU	2	90573	42963	-24	16871	24376	6288	34235	19619	44734	19972	51668	9486	59463	12745
Riverview	SIU	2	80748	33137	-9849	7046	14551	-3537	24410	9793	34909	10147	41843	-339	49638	2919
Canal System 2	SIU	2	67636	20025	-22961	-6066	1439	-16649	11298	-3319	21797	-2965	28731	-13451	36526	-10193
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	Buffer	2	110292	62681	19694	36590	44095	26006	53953	39337	64453	39691	71387	29204	79182	32463
Los Muertos	Buffer	2	75147	27536	-15451	1445	8950	-9139	18808	4192	29308	4546	36242	-5941	44037	-2682
Crismon	Buffer	2	67555	19944	-23043	-6147	1358	-16731	11216	-3400	21715	-3046	28650	-13533	36445	-10274
Scottsdale	Buffer	2	59045	11434	-31552	-14657	-7152	-25240	2707	-11910	13206	-11556	20140	-22042	27935	-18784
Riverview	Buffer	2	27757	-19854	-62841	-45945	-38440	-56529	-28582	-43198	-18083	-42844	-11148	-53331	-3353	-50072
Canal System 2	Buffer	2	-10119	-57729	-100716	-83821	-76316	-94404	-66457	-81073	-55958	-80719	-49024	-91206	-41229	-87947

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1372 Plant 2	1373 Plant 2	1374 Plant 2	1375 Plant 2	1376 Plant 2	1377 Plant 2	1378 Plant 2	1379 Plant 2	1380 Plant 2	1381 Plant 2	1382 Plant 2	1383 Plant 2	1384 Plant 2	1385 Plant 2
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	SIU	1	53045	77308	79647	41102	29269	49023	37475	25612	106823	50987	58217	51057	51463	51856
Los Muertos	SIU	1	44506	68769	71108	32563	20730	40484	28936	17073	98283	42448	49678	42518	42923	43316
Crismon	SIU	1	43384	67647	69986	31441	19608	39362	27814	15951	97161	41326	48556	41396	41801	42194
Scottsdale	SIU	1	42445	66708	69046	30502	18669	38422	26874	15012	96222	40386	47616	40457	40862	41255
Riverview	SIU	1	37532	61795	64134	25589	13756	33510	21962	10099	91309	35474	42704	35544	35949	36342
Canal System 2	SIU	1	30976	55239	57578	19033	7200	26954	15406	3543	84753	28918	36148	28988	29393	29786
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	Buffer	1	52304	76567	78906	40361	28528	48282	36734	24871	106081	50246	57476	50316	50721	51114
Los Muertos	Buffer	1	34732	58994	61333	22788	10955	30709	19161	7298	88509	32673	39903	32743	33149	33542
Crismon	Buffer	1	30935	55198	57537	18992	7159	26913	15365	3502	84713	28877	36107	28947	29353	29746
Scottsdale	Buffer	1	26681	50944	53282	14737	2905	22658	11110	-752	80458	24622	31852	24692	25098	25491
Riverview	Buffer	1	11036	35299	37638	-907	-12740	7014	-4534	-16397	64814	8978	16208	9048	9454	9847
Canal System 2	Buffer	1	-7901	16362	18700	-19844	-31677	-11924	-23472	-35334	45876	-9959	-2730	-9889	-9484	-9091
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	SIU	2	52616	76879	79218	40673	28840	48594	37046	25183	106394	50558	57788	50628	51034	51427
Los Muertos	SIU	2	35538	59801	62139	23595	11762	31515	19967	8105	89315	33480	40709	33550	33955	34348
Crismon	SIU	2	33294	57557	59895	21351	9518	29271	17723	5861	87071	31236	38465	31306	31711	32104
Scottsdale	SIU	2	31415	55678	58017	19472	7639	27393	15845	3982	85192	29357	36587	29427	29832	30225
Riverview	SIU	2	21590	45853	48191	9647	-2186	17567	6019	-5843	75367	19532	26761	19602	20007	20400
Canal System 2	SIU	2	8478	32741	35079	-3465	-15298	4455	-7093	-18955	62255	6420	13649	6490	6895	7288
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	Buffer	2	51134	75397	77735	39190	27358	47111	35563	23701	104911	49075	56305	49145	49551	49944
Los Muertos	Buffer	2	15989	40252	42590	4045	-7787	11966	418	-11444	69766	13930	21160	14000	14406	14799
Crismon	Buffer	2	8396	32659	34998	-3547	-15380	4374	-7174	-19037	62174	6338	13568	6408	6814	7207
Scottsdale	Buffer	2	-113	24150	26488	-12056	-23889	-4136	-15684	-27546	53664	-2171	5058	-2101	-1696	-1303
Riverview	Buffer	2	-31402	-7139	-4800	-43345	-55178	-35424	-46972	-58835	22376	-33460	-26230	-33390	-32984	-32591
Canal System 2	Buffer	2	-69277	-45014	-42675	-81220	-93053	-73299	-84847	-96710	-15499	-71335	-64105	-71265	-70860	-70467

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1386 Plant 2	1387 Plant 2	1388 Plant 2	1389 Plant 2	1390 Plant 2	1391 Plant 2	1392 Plant 2	1393 Plant 2	1394 Plant 2	1395 Plant 2	1396 Plant 2	1397 Plant 2	1398 Plant 2	1399 Plant 2
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	SIU	1	55294	44712	41432	36745	32505	40972	69869	37590	62944	39068	55462	33164	45216	38930
Los Muertos	SIU	1	46755	36173	32892	28206	23966	32432	61330	29050	54404	30529	46923	24625	36677	30391
Crismon	SIU	1	45633	35051	31770	27084	22844	31310	60208	27928	53282	29407	45801	23503	35555	29269
Scottsdale	SIU	1	44693	34112	30831	26144	21904	30371	59268	26989	52343	28468	44861	22564	34616	28329
Riverview	SIU	1	39781	29199	25918	21232	16992	25458	54356	22076	47430	23555	39949	17651	29703	23417
Canal System 2	SIU	1	33225	22643	19362	14676	10436	18902	47800	15520	40874	16999	33393	11095	23147	16861
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	Buffer	1	54552	43971	40690	36004	31764	40230	69128	36848	62202	38327	54721	32423	44475	38189
Los Muertos	Buffer	1	36980	26398	23118	18431	14191	22658	51555	19276	44630	20754	37148	14851	26902	20616
Crismon	Buffer	1	33184	22602	19322	14635	10395	18862	47759	15480	40834	16958	33352	11054	23106	16820
Scottsdale	Buffer	1	28929	18347	15067	10380	6140	14607	43504	11225	36579	12703	29097	6800	18852	12565
Riverview	Buffer	1	13285	2703	-577	-5264	-9504	-1037	27860	-4419	20935	-2941	13453	-8845	3207	-3079
Canal System 2	Buffer	1	-5653	-16234	-19515	-24201	-28442	-19975	8922	-23357	1997	-21878	-5485	-27782	-15730	-22016
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	SIU	2	54865	44283	41003	36316	32076	40543	69440	37161	62515	38639	55033	32735	44787	38501
Los Muertos	SIU	2	37786	27205	23924	19238	14997	23464	52361	20082	45436	21561	37954	15657	27709	21423
Crismon	SIU	2	35542	24961	21680	16994	12753	21220	50117	17838	43192	19317	35710	13413	25465	19179
Scottsdale	SIU	2	33663	23082	19801	15115	10875	19341	48239	15959	41313	17438	33832	11534	23586	17300
Riverview	SIU	2	23838	13257	9976	5290	1049	9516	38413	6134	31488	7613	24006	1709	13761	7475
Canal System 2	SIU	2	10726	145	-3136	-7822	-12063	-3596	25301	-6978	18376	-5499	10894	-11403	649	-5637
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	Buffer	2	53382	42800	39520	34833	30593	39060	67957	35678	61032	37156	53550	31253	43305	37018
Los Muertos	Buffer	2	18237	7655	4375	-312	-4552	3915	32812	533	25887	2011	18405	-3892	8160	1873
Crismon	Buffer	2	10645	63	-3217	-7904	-12144	-3677	25220	-7059	18295	-5581	10813	-11485	567	-5719
Scottsdale	Buffer	2	2135	-8446	-11727	-16413	-20654	-12187	16710	-15569	9785	-14090	2303	-19994	-7942	-14228
Riverview	Buffer	2	-29153	-39735	-43015	-47702	-51942	-43475	-14578	-46857	-21503	-45379	-28985	-51283	-39231	-45517
Canal System 2	Buffer	2	-67028	-77610	-80890	-85577	-89817	-81351	-52453	-84733	-59379	-83254	-66860	-89158	-77106	-83392

System	Acreage Method	Acre-feet	1400 Plant 2	1401 Plant 2	1402 Plant 2	1403 Plant 2	1404 Plant 2	1405 Plant 2	1406 Plant 2	1407 Plant 2	1408 Plant 2	1409 Plant 2	1410 Plant 2	1411 Plant 2	1412 Plant 2	1413 Plant 2
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	SIU	1	48375	48052	40619	42914	86962	42981	57567	22986	51006	82295	26654	31259	58884	27616
Los Muertos	SIU	1	39836	39513	32080	34375	78422	34441	49028	14447	42467	73755	18114	22720	50344	19076
Crismon	SIU	1	38714	38391	30958	33253	77300	33319	47906	13325	41345	72633	16992	21598	49222	17954
Scottsdale	SIU	1	37775	37452	30019	32314	76361	32380	46967	12385	40406	71694	16053	20659	48283	17015
Riverview	SIU	1	32862	32539	25106	27401	71448	27467	42054	7473	35493	66781	11140	15746	43370	12102
Canal System 2	SIU	1	26306	25983	18550	20845	64892	20911	35498	917	28937	60225	4584	9190	36814	5546
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	Buffer	1	47634	47311	39878	42173	86220	42239	56826	22245	50265	81553	25912	30518	58142	26874
Los Muertos	Buffer	1	30061	29739	22305	24601	68648	24667	39254	4672	32692	63981	8340	12945	40570	9302
Crismon	Buffer	1	26265	25942	18509	20804	64852	20871	35457	876	28896	60185	4544	9149	36774	5506
Scottsdale	Buffer	1	22011	21688	14254	16550	60597	16616	31203	-3379	24641	55930	289	4895	32519	1251
Riverview	Buffer	1	6366	6043	-1390	905	44953	972	15558	-19023	8997	40286	-15355	-10750	16875	-14393
Canal System 2	Buffer	1	-12571	-12894	-20327	-18032	26015	-17966	-3379	-37961	-9940	21348	-34293	-29687	-2063	-33331
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	SIU	2	47946	47623	40190	42485	86533	42552	57138	22557	50577	81866	26225	30830	58455	27187
Los Muertos	SIU	2	30868	30545	23112	25407	69454	25473	40060	5478	33499	64787	9146	13752	41376	10108
Crismon	SIU	2	28624	28301	20868	23163	67210	23229	37816	3234	31255	62543	6902	11508	39132	7864
Scottsdale	SIU	2	26745	26422	18989	21284	65331	21350	35937	1356	29376	60664	5023	9629	37253	5985
Riverview	SIU	2	16920	16597	9164	11459	55506	11525	26112	-8470	19551	50839	-4802	-196	27428	-3840
Canal System 2	SIU	2	3808	3485	-3948	-1653	42394	-1587	13000	-21582	6439	37727	-17914	-13308	14316	-16952
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	Buffer	2	46464	46141	38707	41003	85050	41069	55656	21074	49094	80383	24742	29348	56972	25704
Los Muertos	Buffer	2	11319	10996	3562	5858	49905	5924	20511	-14071	13949	45238	-10403	-5797	21827	-9441
Crismon	Buffer	2	3726	3403	-4030	-1735	42313	-1668	12918	-21663	6357	37646	-17995	-13390	14235	-17033
Scottsdale	Buffer	2	-4783	-5106	-12539	-10244	33803	-10178	4409	-30173	-2152	29136	-26505	-21899	5725	-25543
Riverview	Buffer	2	-36072	-36395	-43828	-41533	2515	-41466	-26880	-61461	-33441	-2152	-57793	-53188	-25563	-56831
Canal System 2	Buffer	2	-73947	-74270	-81703	-79408	-35360	-79341	-64755	-99336	-71316	-40027	-95669	-91063	-63439	-94706

System	Acreage Method	Acre-feet	1414 Plant 2	1415 Plant 2	1416 Plant 2	1417 Plant 2	1418 Plant 2	1419 Plant 2	1420 Plant 2	1421 Plant 2	1422 Plant 2	1423 Plant 2	1424 Plant 2	1425 Plant 2	1426 Plant 2	1427 Plant 2
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	SIU	1	87989	30543	41485	60774	39198	40868	64378	22108	55049	24270	55375	49827	78196	77430
Los Muertos	SIU	1	79450	22004	32945	52234	30658	32329	55838	13569	46509	15731	46836	41287	69657	68890
Crismon	SIU	1	78328	20882	31823	51112	29536	31207	54716	12447	45387	14609	45714	40165	68535	67768
Scottsdale	SIU	1	77388	19942	30884	50173	28597	30268	53777	11508	44448	13669	44775	39226	67596	66829
Riverview	SIU	1	72476	15030	25971	45260	23684	25355	48864	6595	39535	8757	39862	34313	62683	61916
Canal System 2	SIU	1	65920	8474	19415	38704	17128	18799	42308	39	32979	2201	33306	27757	56127	55360
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	Buffer	1	87248	29802	40743	60032	38456	40127	63636	21367	54307	23529	54634	49085	77455	76688
Los Muertos	Buffer	1	69675	12229	23171	42460	20884	22554	46064	3794	36735	5956	37061	31513	59882	59116
Crismon	Buffer	1	65879	8433	19375	38664	17088	18758	42268	-2	32939	2160	33265	27717	56086	55320
Scottsdale	Buffer	1	61624	4178	15120	34409	12833	14503	38013	-4256	28684	-2095	29011	23462	51832	51065
Riverview	Buffer	1	45980	-11466	-524	18765	-2811	-1141	22369	-19901	13040	-17739	13366	7818	36187	35421
Canal System 2	Buffer	1	27043	-30403	-19462	-173	-21749	-20078	3431	-38838	-5898	-36677	-5571	-11120	17250	16483
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	SIU	2	87560	30114	41056	60345	38769	40439	63949	21679	54620	23841	54946	49398	77767	77001
Los Muertos	SIU	2	70482	13036	23977	43266	21690	23361	46870	4601	37541	6762	37868	32319	60689	59922
Crismon	SIU	2	68238	10792	21733	41022	19446	21117	44626	2357	35297	4518	35624	30075	58445	57678
Scottsdale	SIU	2	66359	8913	19854	39143	17567	19238	42747	478	33418	2640	33745	28196	56566	55799
Riverview	SIU	2	56534	-912	10029	29318	7742	9413	32922	-9347	23593	-7186	23920	18371	46741	45974
Canal System 2	SIU	2	43422	-14024	-3083	16206	-5370	-3699	19810	-22459	10481	-20298	10808	5259	33629	32862
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	Buffer	2	86077	28631	39573	58862	37286	38956	62466	20197	53137	22358	53464	47915	76285	75518
Los Muertos	Buffer	2	50932	-6514	4428	23717	2141	3811	27321	-14948	17992	-12787	18319	12770	41140	40373
Crismon	Buffer	2	43340	-14106	-3164	16125	-5451	-3781	19729	-22541	10400	-20379	10726	5178	33547	32781
Scottsdale	Buffer	2	34831	-22615	-11674	7615	-13961	-12290	11219	-31050	1890	-28889	2217	-3332	25038	24271
Riverview	Buffer	2	3542	-53904	-42962	-23673	-45249	-43579	-20069	-62339	-29398	-60177	-29072	-34620	-6251	-7017
Canal System 2	Buffer	2	-34333	-91779	-80838	-61549	-83125	-81454	-57944	-100214	-67274	-98052	-66947	-72495	-44126	-44892

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1428 Plant 2	1429 Plant 2	1430 Plant 2	1431 Plant 2	1432 Plant 2	1433 Plant 2	1434 Plant 2	1435 Plant 2	1436 Plant 2	1437 Plant 2	1438 Plant 2	1439 Plant 2	1440 Plant 2	1441 Plant 2
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	SIU	1	88740	48810	48309	64671	43463	83160	63511	29379	32929	36395	25467	42095	51471	77956
Los Muertos	SIU	1	80201	40271	39770	56132	34924	74620	54971	20840	24390	27856	16928	33555	42932	69416
Crismon	SIU	1	79079	39149	38648	55010	33802	73498	53849	19718	23268	26734	15806	32433	41810	68294
Scottsdale	SIU	1	78139	38209	37709	54071	32862	72559	52910	18779	22329	25794	14866	31494	40870	67355
Riverview	SIU	1	73227	33297	32796	49158	27950	67646	47997	13866	17416	20882	9954	26581	35958	62442
Canal System 2	SIU	1	66671	26741	26240	42602	21394	61090	41441	7310	10860	14326	3398	20025	29402	55886
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	Buffer	1	87999	48069	47568	63930	42722	82418	62769	28638	32188	35654	24726	41353	50730	77214
Los Muertos	Buffer	1	70426	30496	29995	46357	25149	64846	45197	11065	14615	18081	7153	23781	33157	59642
Crismon	Buffer	1	66630	26700	26199	42561	21353	61050	41401	7269	10819	14285	3357	19985	29361	55846
Scottsdale	Buffer	1	62375	22445	21944	38306	17098	56795	37146	3014	6564	10030	-898	15730	25106	51591
Riverview	Buffer	1	46731	6801	6300	22662	1454	41151	21502	-12630	-9080	-5614	-16542	86	9462	35947
Canal System 2	Buffer	1	27793	-12137	-12637	3725	-17483	22213	2564	-31567	-28017	-24552	-35479	-18852	-9476	17009
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	SIU	2	88311	48381	47880	64242	43034	82731	63082	28950	32500	35966	25038	41666	51042	77527
Los Muertos	SIU	2	71232	31302	30802	47164	25956	65652	46003	11872	15422	18887	7960	24587	33963	60448
Crismon	SIU	2	68988	29058	28558	44920	23712	63408	43759	9628	13178	16643	5716	22343	31719	58204
Scottsdale	SIU	2	67110	27180	26679	43041	21833	61529	41880	7749	11299	14765	3837	20464	29841	56325
Riverview	SIU	2	57284	17354	16854	33216	12008	51704	32055	-2076	1474	4939	-5988	10639	20015	46500
Canal System 2	SIU	2	44172	4242	3742	20104	-1104	38592	18943	-15188	-11638	-8173	-19100	-2473	6903	33388
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	Buffer	2	86828	46898	46397	62759	41551	81248	61599	27467	31017	34483	23555	40183	49559	76044
Los Muertos	Buffer	2	51683	11753	11252	27614	6406	46103	26454	-7678	-4128	-662	-11590	5038	14414	40899
Crismon	Buffer	2	44091	4161	3660	20022	-1186	38511	18862	-15270	-11720	-8254	-19182	-2554	6822	33307
Scottsdale	Buffer	2	35581	-4349	-4849	11513	-9695	30001	10352	-23779	-20229	-16764	-27691	-11064	-1688	24797
Riverview	Buffer	2	4293	-35637	-36138	-19776	-40984	-1287	-20936	-55068	-51518	-48052	-58980	-42352	-32976	-6491
Canal System 2	Buffer	2	-33582	-73512	-74013	-57651	-78859	-39162	-58812	-92943	-89393	-85927	-96855	-80228	-70851	-44367

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1442 Plant 2	1443 Plant 2	1444 Plant 2	1445 Plant 2	1446 Plant 2	1447 Plant 2	1448 Plant 2	1449 Plant 2	1450 Plant 2	Total Deficits	1300 Silk 2	1301 Silk 2	1302 Silk 2
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	SIU	1	27287	42170	44519	34176	37250	46647	23895	37367	28257	0	51663	95096	97304
Los Muertos	SIU	1	18748	33630	35979	25636	28711	38108	15356	28828	19718	0	43124	86556	88765
Crismon	SIU	1	17626	32508	34857	24514	27589	36986	14234	27706	18596	0	42002	85434	87643
Scottsdale	SIU	1	16686	31569	33918	23575	26649	36046	13294	26766	17656	0	41062	84495	86703
Riverview	SIU	1	11774	26656	29005	18662	21737	31134	8382	21854	12744	0	36150	79582	81791
Canal System 2	SIU	1	5218	20100	22449	12106	15181	24578	1826	15298	6188	4	29594	73026	75235
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	Buffer	1	26546	41428	43777	33434	36508	45906	23154	36626	27516	0	50922	94354	96563
Los Muertos	Buffer	1	8973	23856	26205	15862	18936	28333	5581	19053	9943	0	33349	76782	78990
Crismon	Buffer	1	5177	20060	22409	12066	15140	24537	1785	15257	6147	5	29553	72986	75194
Scottsdale	Buffer	1	922	15805	18154	7811	10885	20282	-2470	11002	1892	15	25298	68731	70939
Riverview	Buffer	1	-14722	161	2510	-7833	-4759	4638	-18114	-4642	-13752	56	9654	53087	55295
Canal System 2	Buffer	1	-33659	-18777	-16428	-26771	-23697	-14300	-37051	-23580	-32690	105	-9284	34149	36357
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	SIU	2	26858	41741	44090	33747	36821	46218	23466	36938	27828	0	51234	94667	96875
Los Muertos	SIU	2	9780	24662	27011	16668	19742	29139	6388	19859	10749	0	34155	77588	79796
Crismon	SIU	2	7536	22418	24767	14424	17498	26895	4144	17615	8505	2	31911	75344	77552
Scottsdale	SIU	2	5657	20539	22888	12545	15619	25017	2265	15737	6627	4	30033	73465	75674
Riverview	SIU	2	-4168	10714	13063	2720	5794	15191	-7560	5911	-3199	27	20207	63640	65848
Canal System 2	SIU	2	-17280	-2398	-49	-10392	-7318	2079	-20672	-7201	-16311	66	7095	50528	52736
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	Buffer	2	25375	40258	42607	32264	35338	44735	21983	35455	26345	0	49751	93184	95392
Los Muertos	Buffer	2	-9770	5113	7462	-2881	193	9590	-13162	310	-8800	37	14606	58039	60247
Crismon	Buffer	2	-17362	-2479	-130	-10473	-7399	1998	-20754	-7282	-16392	66	7014	50447	52655
Scottsdale	Buffer	2	-25871	-10989	-8640	-18983	-15909	-6512	-29263	-15792	-24902	92	-1496	41937	44145
Riverview	Buffer	2	-57160	-42277	-39928	-50271	-47197	-37800	-60552	-47080	-56190	133	-32784	10649	12857
Canal System 2	Buffer	2	-95035	-80153	-77804	-88147	-85072	-75675	-98427	-84955	-94065	149	-70659	-27227	-25018

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1303 Silk 2	1304 Silk 2	1305 Silk 2	1306 Silk 2	1307 Silk 2	1308 Silk 2	1309 Silk 2	1310 Silk 2	1311 Silk 2	1312 Silk 2	1313 Silk 2	1314 Silk 2	1315 Silk 2	1316 Silk 2
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	SIU	1	84123	40056	120223	40381	23349	36204	79396	110206	52244	82587	94821	44899	23460	16333
Los Muertos	SIU	1	75584	31517	111683	31841	14809	27664	70857	101667	43704	74048	86282	36359	14921	7794
Crismon	SIU	1	74462	30395	110561	30719	13687	26542	69735	100545	42582	72926	85160	35237	13799	6672
Scottsdale	SIU	1	73522	29455	109622	29780	12748	25603	68795	99606	41643	71986	84221	34298	12860	5733
Riverview	SIU	1	68610	24543	104709	24867	7835	20690	63883	94693	36730	67074	79308	29385	7947	820
Canal System 2	SIU	1	62054	17987	98153	18311	1279	14134	57327	88137	30174	60518	72752	22829	1391	-5736
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	Buffer	1	83381	39314	119481	39639	22607	35462	78655	109465	51502	81846	94080	44157	22719	15592
Los Muertos	Buffer	1	65809	21742	101909	22067	5035	17890	61082	91892	33930	64273	76507	26585	5146	-1981
Crismon	Buffer	1	62013	17946	98113	18271	1239	14094	57286	88096	30134	60477	72711	22789	1350	-5777
Scottsdale	Buffer	1	57758	13691	93858	14016	-3016	9839	53031	83841	25879	56222	68457	18534	-2905	-10032
Riverview	Buffer	1	42114	-1953	78214	-1628	-18660	-5805	37387	68197	10235	40578	52812	2890	-18549	-25676
Canal System 2	Buffer	1	23176	-20891	59276	-20566	-37598	-24743	18449	49260	-8703	21640	33875	-16048	-37486	-44613
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	SIU	2	83694	39627	119794	39952	22920	35775	78967	109777	51815	82158	94392	44470	23031	15904
Los Muertos	SIU	2	66615	22548	102715	22873	5841	18696	61888	92699	34736	65079	77314	27391	5953	-1174
Crismon	SIU	2	64371	20304	100471	20629	3597	16452	59644	90455	32492	62835	75070	25147	3709	-3418
Scottsdale	SIU	2	62492	18425	98592	18750	1718	14573	57766	88576	30613	60957	73191	23268	1830	-5297
Riverview	SIU	2	52667	8600	88767	8925	-8107	4748	47940	78751	20788	51131	63366	13443	-7995	-15122
Canal System 2	SIU	2	39555	-4512	75655	-4187	-21219	-8364	34828	65639	7676	38019	50254	331	-21107	-28234
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	Buffer	2	82211	38144	118311	38469	21437	34292	77484	108294	50332	80675	92910	42987	21548	14421
Los Muertos	Buffer	2	47066	2999	83166	3324	-13708	-853	42339	73149	15187	45530	57765	7842	-13597	-20724
Crismon	Buffer	2	39474	-4593	75574	-4268	-21300	-8445	34747	65557	7595	37938	50172	250	-21189	-28316
Scottsdale	Buffer	2	30964	-13103	67064	-12778	-29810	-16955	26237	57048	-915	29428	41663	-8260	-29698	-36825
Riverview	Buffer	2	-324	-44391	35776	-44066	-61098	-48243	-5051	25759	-32203	-1860	10374	-39548	-60987	-68114
Canal System 2	Buffer	2	-38199	-82266	-2099	-81941	-98973	-86119	-42926	-12116	-70078	-39735	-27501	-77424	-98862	-105989

System	Acreage Method	Acre-feet	1317 Silk 2	1318 Silk 2	1319 Silk 2	1320 Silk 2	1321 Silk 2	1322 Silk 2	1323 Silk 2	1324 Silk 2	1325 Silk 2	1326 Silk 2	1327 Silk 2	1328 Silk 2	1329 Silk 2	1330 Silk 2
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	SIU	1	69900	78190	55262	45870	81748	45223	35575	35571	92066	72412	37498	20814	34593	58724
Los Muertos	SIU	1	61361	69650	46722	37331	73209	36684	27036	27032	83526	63873	28959	12275	26053	50185
Crismon	SIU	1	60239	68528	45600	36209	72087	35562	25914	25910	82404	62751	27837	11153	24931	49063
Scottsdale	SIU	1	59300	67589	44661	35269	71147	34623	24974	24970	81465	61811	26897	10214	23992	48124
Riverview	SIU	1	54387	62676	39748	30357	66235	29710	20062	20058	76552	56899	21985	5301	19079	43211
Canal System 2	SIU	1	47831	56120	33192	23801	59679	23154	13506	13502	69996	50343	15429	-1255	12523	36655
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	Buffer	1	69159	77448	54520	45129	81007	44482	34834	34830	91324	71671	36757	20073	33851	57983
Los Muertos	Buffer	1	51586	59876	36948	27556	63434	26909	17261	17257	73752	54098	19184	2501	16279	40411
Crismon	Buffer	1	47790	56080	33152	23760	59638	23113	13465	13461	69956	50302	15388	-1296	12483	36614
Scottsdale	Buffer	1	43536	51825	28897	19505	55383	18859	9210	9206	65701	46047	11133	-5550	8228	32360
Riverview	Buffer	1	27891	36181	13253	3861	39739	3214	-6434	-6438	50057	30403	-4511	-21195	-7416	16715
Canal System 2	Buffer	1	8954	17243	-5685	-15077	20802	-15723	-25372	-25376	31119	11465	-23449	-40132	-26354	-2222
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	SIU	2	69471	77761	54833	45441	81319	44794	35146	35142	91637	71983	37069	20385	34164	58295
Los Muertos	SIU	2	52393	60682	37754	28362	64241	27716	18067	18063	74558	54904	19990	3307	17085	41217
Crismon	SIU	2	50149	58438	35510	26118	61997	25472	15823	15819	72314	52660	17746	1063	14841	38973
Scottsdale	SIU	2	48270	56559	33631	24240	60118	23593	13945	13941	70435	50782	15868	-816	12962	37094
Riverview	SIU	2	38445	46734	23806	14414	50293	13768	4119	4115	60610	40956	6042	-10641	3137	27269
Canal System 2	SIU	2	25333	33622	10694	1302	37181	656	-8993	-8997	47498	27844	-7070	-23753	-9975	14157
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	Buffer	2	67989	76278	53350	43958	79836	43312	33663	33659	90154	70500	35586	18903	32681	56813
Los Muertos	Buffer	2	32844	41133	18205	8813	44691	8167	-1482	-1486	55009	35355	441	-16242	-2464	21668
Crismon	Buffer	2	25251	33541	10613	1221	37099	574	-9074	-9078	47417	27763	-7151	-23835	-10056	14075
Scottsdale	Buffer	2	16742	25031	2103	-7289	28590	-7935	-17584	-17588	38907	19253	-15661	-32344	-18566	5566
Riverview	Buffer	2	-14547	-6257	-29185	-38577	-2699	-39224	-48872	-48876	7619	-12035	-46949	-63633	-49854	-25723
Canal System 2	Buffer	2	-52422	-44132	-67060	-76452	-40574	-77099	-86747	-86751	-30257	-49910	-84824	-101508	-87730	-63598

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1331 Silk 2	1332 Silk 2	1333 Silk 2	1334 Silk 2	1335 Silk 2	1336 Silk 2	1337 Silk 2	1338 Silk 2	1339 Silk 2	1340 Silk 2	1341 Silk 2	1342 Silk 2	1343 Silk 2	1344 Silk 2
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	SIU	1	51107	60880	80495	45295	21899	53033	52118	18129	50174	30116	19254	41338	38426	37185
Los Muertos	SIU	1	42568	52340	71956	36756	13360	44494	43578	9590	41634	21577	10714	32799	29887	28646
Crismon	SIU	1	41446	51218	70834	35634	12238	43372	42456	8468	40512	20455	9592	31677	28765	27524
Scottsdale	SIU	1	40506	50279	69894	34695	11299	42432	41517	7528	39573	19516	8653	30737	27826	26585
Riverview	SIU	1	35594	45366	64982	29782	6386	37520	36604	2616	34660	14603	3740	25825	22913	21672
Canal System 2	SIU	1	29038	38810	58426	23226	-170	30964	30048	-3940	28104	8047	-2816	19269	16357	15116
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	Buffer	1	50366	60138	79754	44554	21158	52292	51376	17388	49432	29375	18512	40597	37685	36444
Los Muertos	Buffer	1	32793	42566	62181	26981	3585	34719	33804	-185	31860	11803	940	23024	20113	18872
Crismon	Buffer	1	28997	38770	58385	23185	-211	30923	30008	-3981	28064	8006	-2856	19228	16316	15075
Scottsdale	Buffer	1	24742	34515	54130	18930	-4466	26668	25753	-8236	23809	3752	-7111	14973	12062	10821
Riverview	Buffer	1	9098	18871	38486	3286	-20110	11024	10109	-23880	8165	-11893	-22755	-671	-3583	-4824
Canal System 2	Buffer	1	-9840	-67	19548	-15651	-39047	-7914	-8829	-42818	-10773	-30830	-41693	-19608	-22520	-23761
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	SIU	2	50678	60451	80066	44866	21470	52604	51689	17700	49745	29687	18825	40909	37997	36756
Los Muertos	SIU	2	33599	43372	62987	27788	4392	35525	34610	621	32666	12609	1746	23831	20919	19678
Crismon	SIU	2	31355	41128	60743	25544	2148	33281	32366	-1623	30422	10365	-498	21587	18675	17434
Scottsdale	SIU	2	29477	39249	58865	23665	269	31403	30487	-3501	28543	8486	-2377	19708	16796	15555
Riverview	SIU	2	19651	29424	49039	13840	-9556	21577	20662	-13327	18718	-1339	-12202	9883	6971	5730
Canal System 2	SIU	2	6539	16312	35927	728	-22668	8465	7550	-26439	5606	-14451	-25314	-3229	-6141	-7382
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	Buffer	2	49195	58968	78583	43383	19987	51121	50206	16217	48262	28205	17342	39426	36515	35274
Los Muertos	Buffer	2	14050	23823	43438	8238	-15158	15976	15061	-18928	13117	-6940	-17803	4281	1370	129
Crismon	Buffer	2	6458	16231	35846	646	-22750	8384	7469	-26520	5525	-14533	-25395	-3311	-6223	-7464
Scottsdale	Buffer	2	-2052	7721	27336	-7863	-31259	-126	-1041	-35030	-2985	-23042	-33905	-11820	-14732	-15973
Riverview	Buffer	2	-33340	-23567	-3952	-39152	-62548	-31414	-32329	-66318	-34273	-54331	-65193	-43109	-46021	-47262
Canal System 2	Buffer	2	-71215	-61443	-41827	-77027	-100423	-69289	-70205	-104193	-72148	-92206	-103069	-80984	-83896	-85137

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1345 Silk 2	1346 Silk 2	1347 Silk 2	1348 Silk 2	1349 Silk 2	1350 Silk 2	1351 Silk 2	1352 Silk 2	1353 Silk 2	1354 Silk 2	1355 Silk 2	1356 Silk 2	1357 Silk 2	1358 Silk 2
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	SIU	1	39220	43026	19065	36139	55331	21390	29266	30283	57615	56680	16187	56659	59780	95954
Los Muertos	SIU	1	30681	34487	10526	27599	46792	12850	20727	21743	49076	48140	7647	48120	51241	87415
Crismon	SIU	1	29559	33365	9404	26477	45670	11728	19605	20621	47954	47018	6525	46998	50119	86293
Scottsdale	SIU	1	28620	32426	8465	25538	44730	10789	18666	19682	47015	46079	5586	46058	49179	85353
Riverview	SIU	1	23707	27513	3552	20625	39818	5876	13753	14769	42102	41166	673	41146	44267	80441
Canal System 2	SIU	1	17151	20957	-3004	14069	33262	-680	7197	8213	35546	34610	-5883	34590	37711	73885
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	Buffer	1	38479	42285	18324	35397	54590	20648	28525	29541	56874	55938	15445	55918	59039	95212
Los Muertos	Buffer	1	20906	24713	752	17825	37017	3076	10953	11969	39301	38366	-2127	38345	41466	77640
Crismon	Buffer	1	17110	20916	-3045	14029	33221	-720	7156	8173	35505	34570	-5923	34549	37670	73844
Scottsdale	Buffer	1	12855	16662	-7299	9774	28966	-4975	2902	3918	31251	30315	-10178	30294	33415	69589
Riverview	Buffer	1	-2789	1017	-22944	-5870	13322	-20619	-12743	-11726	15606	14671	-25822	14650	17771	53945
Canal System 2	Buffer	1	-21726	-17920	-41881	-24808	-5616	-39557	-31680	-30664	-3331	-4267	-44760	-4288	-1167	35007
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	SIU	2	38791	42597	18636	35710	54902	20961	28837	29854	57186	56251	15758	56230	59351	95525
Los Muertos	SIU	2	21713	25519	1558	18631	37823	3882	11759	12775	40108	39172	-1321	39151	42272	78446
Crismon	SIU	2	19469	23275	-686	16387	35579	1638	9515	10531	37864	36928	-3565	36907	40028	76202
Scottsdale	SIU	2	17590	21396	-2565	14508	33701	-241	7636	8652	35985	35049	-5444	35029	38150	74323
Riverview	SIU	2	7765	11571	-12390	4683	23875	-10066	-2189	-1173	26160	25224	-15269	25203	28324	64498
Canal System 2	SIU	2	-5347	-1541	-25502	-8429	10763	-23178	-15301	-14285	13048	12112	-28381	12091	15212	51386
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	Buffer	2	37308	41115	17154	34227	53419	19478	27355	28371	55704	54768	14275	54747	57868	94042
Los Muertos	Buffer	2	2163	5970	-17991	-918	18274	-15667	-7790	-6774	20559	19623	-20870	19602	22723	58897
Crismon	Buffer	2	-5429	-1623	-25584	-8510	10682	-23259	-15383	-14366	12966	12031	-28462	12010	15131	51305
Scottsdale	Buffer	2	-13938	-10132	-34093	-17020	2172	-31769	-23892	-22876	4457	3521	-36972	3500	6621	42795
Riverview	Buffer	2	-45227	-41421	-65382	-48308	-29116	-63057	-55181	-54164	-26832	-27767	-68260	-27788	-24667	11507
Canal System 2	Buffer	2	-83102	-79296	-103257	-86184	-66991	-100933	-93056	-92039	-64707	-65643	-106136	-65663	-62542	-26368

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1359 Silk 2	1360 Silk 2	1361 Silk 2	1362 Silk 2	1363 Silk 2	1364 Silk 2	1365 Silk 2	1366 Silk 2	1367 Silk 2	1368 Silk 2	1369 Silk 2	1370 Silk 2	1371 Silk 2	1372 Silk 2
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	SIU	1	55212	18427	32885	39307	23829	47743	35236	56728	35539	62662	26565	69332	29354	45331
Los Muertos	SIU	1	46673	9888	24346	30768	15289	39204	26697	48189	26999	54122	18026	60793	20814	36791
Crismon	SIU	1	45551	8766	23224	29646	14167	38082	25575	47067	25877	53000	16904	59671	19692	35669
Scottsdale	SIU	1	44611	7826	22284	28707	13228	37143	24635	46127	24938	52061	15964	58731	18753	34730
Riverview	SIU	1	39699	2914	17372	23794	8315	32230	19723	41215	20025	47148	11052	53819	13840	29817
Canal System 2	SIU	1	33143	-3642	10816	17238	1759	25674	13167	34659	13469	40592	4496	47263	7284	23261
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	Buffer	1	54471	17686	32144	38566	23087	47002	34495	55986	34797	61920	25824	68591	28612	44589
Los Muertos	Buffer	1	36898	113	14571	20993	5515	29430	16922	38414	17225	44348	8251	51018	11040	27017
Crismon	Buffer	1	33102	-3683	10775	17197	1719	25633	13126	34618	13429	40552	4455	47222	7244	23221
Scottsdale	Buffer	1	28847	-7938	6520	12942	-2536	21379	8871	30363	9174	36297	200	42967	2989	18966
Riverview	Buffer	1	13203	-23582	-9124	-2702	-18180	5734	-6773	14719	-6470	20653	-15444	27323	-12655	3322
Canal System 2	Buffer	1	-5735	-42520	-28062	-21639	-37118	-13203	-25711	-4219	-25408	1715	-34381	8386	-31593	-15616
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	SIU	2	54783	17998	32456	38878	23400	47314	34807	56299	35110	62233	26136	68903	28925	44902
Los Muertos	SIU	2	37704	919	15377	21800	6321	30236	17728	39220	18031	45154	9058	51825	11846	27823
Crismon	SIU	2	35460	-1325	13133	19556	4077	27992	15484	36976	15787	42910	6814	49581	9602	25579
Scottsdale	SIU	2	33582	-3203	11255	17677	2198	26113	13606	35097	13908	41031	4935	47702	7723	23700
Riverview	SIU	2	23756	-13029	1429	7852	-7627	16288	3780	25272	4083	31206	-4890	37877	-2102	13875
Canal System 2	SIU	2	10644	-26141	-11683	-5260	-20739	3176	-9332	12160	-9029	18094	-18002	24765	-15214	763
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	Buffer	2	53300	16515	30973	37395	21917	45832	33324	54816	33627	60750	24653	67420	27442	43419
Los Muertos	Buffer	2	18155	-18630	-4172	2250	-13228	10687	-1821	19671	-1518	25605	-10492	32275	-7703	8274
Crismon	Buffer	2	10563	-26222	-11764	-5342	-20820	3094	-9413	12079	-9110	18013	-18084	24683	-15295	682
Scottsdale	Buffer	2	2053	-34732	-20274	-13851	-29330	-5415	-17923	3569	-17620	9503	-26593	16174	-23805	-7828
Riverview	Buffer	2	-29235	-66020	-51562	-45140	-60618	-36704	-49211	-27719	-48908	-21785	-57882	-15115	-55093	-39116
Canal System 2	Buffer	2	-67110	-103895	-89437	-83015	-98494	-74579	-87086	-65594	-86783	-59661	-95757	-52990	-92969	-76992

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1373 Silk 2	1374 Silk 2	1375 Silk 2	1376 Silk 2	1377 Silk 2	1378 Silk 2	1379 Silk 2	1380 Silk 2	1381 Silk 2	1382 Silk 2	1383 Silk 2	1384 Silk 2	1385 Silk 2	1386 Silk 2
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	SIU	1	66093	68094	35110	24985	41888	32006	21855	91349	43569	49756	43629	43976	44312	47255
Los Muertos	SIU	1	57554	59555	26571	16445	33349	23467	13316	82810	35030	41217	35090	35437	35773	38715
Crismon	SIU	1	56432	58433	25449	15323	32227	22345	12194	81688	33908	40095	33968	34315	34651	37593
Scottsdale	SIU	1	55492	57494	24510	14384	31288	21406	11255	80749	32969	39155	33028	33375	33712	36654
Riverview	SIU	1	50580	52581	19597	9471	26375	16493	6342	75836	28056	34243	28116	28463	28799	31741
Canal System 2	SIU	1	44024	46025	13041	2915	19819	9937	-214	69280	21500	27687	21560	21907	22243	25185
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	Buffer	1	65352	67353	34369	24243	41147	31265	21114	90608	42828	49015	42888	43235	43571	46513
Los Muertos	Buffer	1	47779	49780	16797	6671	23574	13693	3541	73035	25255	31442	25315	25662	25999	28941
Crismon	Buffer	1	43983	45984	13000	2875	19778	9896	-255	69239	21459	27646	21519	21866	22202	25145
Scottsdale	Buffer	1	39728	41729	8746	-1380	15524	5642	-4509	64984	17204	23391	17264	17611	17948	20890
Riverview	Buffer	1	24084	26085	-6899	-17024	-121	-10003	-20154	49340	1560	7747	1620	1967	2303	5246
Canal System 2	Buffer	1	5146	7148	-25836	-35962	-19058	-28940	-39091	30403	-17377	-11191	-17317	-16970	-16634	-13692
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	SIU	2	65664	67665	34681	24556	41459	31577	21426	90920	43140	49327	43200	43547	43883	46826
Los Muertos	SIU	2	48585	50587	17603	7477	24381	14499	4348	73842	26062	32248	26122	26469	26805	29747
Crismon	SIU	2	46341	48343	15359	5233	22137	12255	2104	71598	23818	30004	23878	24225	24561	27503
Scottsdale	SIU	2	44463	46464	13480	3354	20258	10376	225	69719	21939	28126	21999	22346	22682	25624
Riverview	SIU	2	34637	36639	3655	-6471	10433	551	-9600	59894	12114	18300	12174	12521	12857	15799
Canal System 2	SIU	2	21525	23527	-9457	-19583	-2679	-12561	-22712	46782	-998	5188	-938	-591	-255	2687
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	Buffer	2	64181	66182	33199	23073	39977	30095	19944	89437	41657	47844	41717	42064	42401	45343
Los Muertos	Buffer	2	29036	31037	-1946	-12072	4832	-5050	-15201	54292	6512	12699	6572	6919	7256	10198
Crismon	Buffer	2	21444	23445	-9539	-19664	-2761	-12643	-22794	46700	-1080	5107	-1020	-673	-337	2606
Scottsdale	Buffer	2	12934	14936	-18048	-28174	-11270	-21152	-31303	38191	-9589	-3403	-9529	-9182	-8846	-5904
Riverview	Buffer	2	-18354	-16353	-49337	-59462	-42559	-52441	-62592	6902	-40878	-34691	-40818	-40471	-40135	-37192
Canal System 2	Buffer	2	-56229	-54228	-87212	-97338	-80434	-90316	-100467	-30973	-78753	-72566	-78693	-78346	-78010	-75068

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1387 Silk 2	1388 Silk 2	1389 Silk 2	1390 Silk 2	1391 Silk 2	1392 Silk 2	1393 Silk 2	1394 Silk 2	1395 Silk 2	1396 Silk 2	1397 Silk 2	1398 Silk 2	1399 Silk 2	1400 Silk 2
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	SIU	1	38200	35392	31382	27754	34999	59727	32105	53801	33370	47398	28318	38631	33252	41334
Los Muertos	SIU	1	29660	26853	22843	19214	26459	51188	23565	45261	24831	38859	19779	30092	24712	32795
Crismon	SIU	1	28538	25731	21721	18092	25337	50066	22443	44139	23709	37737	18657	28970	23590	31673
Scottsdale	SIU	1	27599	24792	20781	17153	24398	49126	21504	43200	22769	36798	17717	28030	22651	30733
Riverview	SIU	1	22686	19879	15869	12240	19485	44214	16591	38287	17857	31885	12805	23118	17738	25821
Canal System 2	SIU	1	16130	13323	9313	5684	12929	37658	10035	31731	11301	25329	6249	16562	11182	19265
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	Buffer	1	37458	34651	30641	27012	34257	58986	31363	53059	32628	46657	27576	37890	32510	40593
Los Muertos	Buffer	1	19886	17078	13068	9440	16685	41413	13791	35487	15056	29085	10004	20317	14938	23020
Crismon	Buffer	1	16090	13282	9272	5644	12889	37617	9995	31691	11260	25288	6208	16521	11142	19224
Scottsdale	Buffer	1	11835	9028	5017	1389	8634	33362	5740	27436	7005	21034	1953	12266	6887	14969
Riverview	Buffer	1	-3809	-6617	-10627	-14255	-7010	17718	-9904	11792	-8639	5389	-13691	-3378	-8757	-675
Canal System 2	Buffer	1	-22747	-25554	-29565	-33193	-25948	-1220	-28842	-7146	-27577	-13548	-32629	-22316	-27695	-19612
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	SIU	2	37771	34963	30953	27325	34570	59298	31676	53372	32941	46969	27889	38202	32823	40905
Los Muertos	SIU	2	20692	17885	13874	10246	17491	42219	14597	36293	15862	29891	10810	21123	15744	23827
Crismon	SIU	2	18448	15641	11630	8002	15247	39975	12353	34049	13618	27647	8566	18879	13500	21583
Scottsdale	SIU	2	16569	13762	9752	6123	13368	38097	10474	32170	11739	25768	6687	17001	11621	19704
Riverview	SIU	2	6744	3937	-74	-3702	3543	28271	649	22345	1914	15943	-3138	7175	1796	9879
Canal System 2	SIU	2	-6368	-9175	-13186	-16814	-9569	15159	-12463	9233	-11198	2831	-16250	-5937	-11316	-3233
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	Buffer	2	36288	33481	29470	25842	33087	57815	30193	51889	31458	45487	26406	36719	31340	39422
Los Muertos	Buffer	2	1143	-1664	-5675	-9303	-2058	22670	-4952	16744	-3687	10342	-8739	1574	-3805	4277
Crismon	Buffer	2	-6449	-9257	-13267	-16895	-9650	15078	-12544	9152	-11279	2749	-16331	-6018	-11397	-3315
Scottsdale	Buffer	2	-14959	-17766	-21777	-25405	-18160	6568	-21054	642	-19789	-5760	-24841	-14528	-19907	-11824
Riverview	Buffer	2	-46247	-49055	-53065	-56693	-49448	-24720	-52342	-30646	-51077	-37049	-56129	-45816	-51195	-43113
Canal System 2	Buffer	2	-84123	-86930	-90940	-94569	-87324	-62595	-90218	-68522	-88952	-74924	-94004	-83691	-89070	-80988

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1401 Silk 2	1402 Silk 2	1403 Silk 2	1404 Silk 2	1405 Silk 2	1406 Silk 2	1407 Silk 2	1408 Silk 2	1409 Silk 2	1410 Silk 2	1411 Silk 2	1412 Silk 2	1413 Silk 2	1414 Silk 2
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	SIU	1	41058	34697	36661	74354	36718	49200	19608	43586	70360	22746	26688	50326	23570	75233
Los Muertos	SIU	1	32519	26158	28122	65814	28179	40661	11069	35046	61821	14207	18148	41787	15030	66694
Crismon	SIU	1	31397	25036	27000	64692	27057	39539	9947	33924	60699	13085	17026	40665	13908	65572
Scottsdale	SIU	1	30457	24096	26060	63753	26117	38599	9007	32985	59759	12146	16087	39726	12969	64632
Riverview	SIU	1	25545	19184	21148	58840	21205	33687	4095	28072	54847	7233	11174	34813	8056	59720
Canal System 2	SIU	1	18989	12628	14592	52284	14649	27131	-2461	21516	48291	677	4618	28257	1500	53164
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	Buffer	1	40316	33956	35920	73612	35977	48459	18866	42844	69619	22005	25946	49585	22828	74491
Los Muertos	Buffer	1	22744	16383	18347	56040	18404	30886	1294	25272	52046	4432	8374	32013	5256	56919
Crismon	Buffer	1	18948	12587	14551	52244	14608	27090	-2502	21476	48250	636	4578	28216	1460	53123
Scottsdale	Buffer	1	14693	8332	10296	47989	10353	22835	-6757	17221	43995	-3618	323	23962	-2795	48868
Riverview	Buffer	1	-951	-7312	-5348	32345	-5291	7191	-22401	1577	28351	-19263	-15321	8317	-18439	33224
Canal System 2	Buffer	1	-19889	-26249	-24285	13407	-24229	-11746	-41339	-17361	9413	-38200	-34259	-10620	-37377	14286
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	SIU	2	40629	34268	36232	73925	36289	48771	19179	43157	69931	22317	26259	49897	23141	74804
Los Muertos	SIU	2	23550	17190	19154	56846	19210	31693	2100	26078	52852	5239	9180	32819	6062	57725
Crismon	SIU	2	21306	14946	16910	54602	16966	29449	-144	23834	50608	2995	6936	30575	3818	55481
Scottsdale	SIU	2	19427	13067	15031	52723	15088	27570	-2023	21955	48730	1116	5057	28696	1939	53602
Riverview	SIU	2	9602	3242	5206	42898	5262	17745	-11848	12130	38904	-8709	-4768	18871	-7886	43777
Canal System 2	SIU	2	-3510	-9870	-7906	29786	-7850	4633	-24960	-982	25792	-21821	-17880	5759	-20998	30665
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	Buffer	2	39146	32785	34749	72442	34806	47288	17696	41674	68448	20835	24776	48415	21658	73321
Los Muertos	Buffer	2	4001	-2360	-396	37297	-339	12143	-17449	6529	33303	-14310	-10369	13270	-13487	38176
Crismon	Buffer	2	-3591	-9952	-7988	29705	-7931	4551	-25041	-1063	25711	-21903	-17961	5677	-21079	30584
Scottsdale	Buffer	2	-12101	-18461	-16497	21195	-16441	-3958	-33551	-9573	17201	-30412	-26471	-2832	-29589	22074
Riverview	Buffer	2	-43389	-49750	-47786	-10093	-47729	-35247	-64839	-40861	-14087	-61701	-57759	-34121	-60877	-9214
Canal System 2	Buffer	2	-81264	-87625	-85661	-47969	-85604	-73122	-102714	-78737	-51962	-99576	-95635	-71996	-98753	-47089

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1415 Silk 2	1416 Silk 2	1417 Silk 2	1418 Silk 2	1419 Silk 2	1420 Silk 2	1421 Silk 2	1422 Silk 2	1423 Silk 2	1424 Silk 2	1425 Silk 2	1426 Silk 2	1427 Silk 2	1428 Silk 2
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	SIU	1	26075	35438	51944	33481	34910	55028	18857	47045	20707	47324	42576	66853	66197	75875
Los Muertos	SIU	1	17535	26898	43404	24941	26371	46489	10318	38505	12167	38785	34037	58314	57658	67336
Crismon	SIU	1	16413	25776	42282	23819	25249	45367	9196	37383	11045	37663	32915	57192	56536	66214
Scottsdale	SIU	1	15474	24837	41343	22880	24309	44427	8256	36444	10106	36724	31976	56252	55596	65275
Riverview	SIU	1	10561	19924	36430	17967	19397	39515	3344	31531	5193	31811	27063	51340	50684	60362
Canal System 2	SIU	1	4005	13368	29874	11411	12841	32959	-3212	24975	-1363	25255	20507	44784	44128	53806
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	Buffer	1	25333	34696	51202	32739	34169	54287	18115	46303	19965	46583	41835	66111	65455	75134
Los Muertos	Buffer	1	7761	17124	33630	15167	16596	36714	543	28731	2393	29010	24262	48539	47883	57562
Crismon	Buffer	1	3965	13328	29834	11371	12800	32918	-3253	24935	-1403	25214	20466	44743	44087	53765
Scottsdale	Buffer	1	-290	9073	25579	7116	8545	28663	-7508	20680	-5658	20959	16211	40488	39832	49511
Riverview	Buffer	1	-15934	-6571	9935	-8528	-7099	13019	-23152	5036	-21302	5315	567	24844	24188	33866
Canal System 2	Buffer	1	-34872	-25509	-9003	-27466	-26036	-5919	-42090	-13902	-40240	-13622	-18370	5906	5250	14929
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	SIU	2	25646	35009	51515	33052	34481	54599	18428	46616	20278	46895	42147	66424	65768	75446
Los Muertos	SIU	2	8567	17930	34436	15973	17403	37520	1349	29537	3199	29817	25069	49345	48689	58368
Crismon	SIU	2	6323	15686	32192	13729	15159	35276	-895	27293	955	27573	22825	47101	46445	56124
Scottsdale	SIU	2	4444	13807	30313	11850	13280	33398	-2774	25414	-924	25694	20946	45222	44566	54245
Riverview	SIU	2	-5381	3982	20488	2025	3455	23572	-12599	15589	-10749	15869	11121	35397	34741	44420
Canal System 2	SIU	2	-18493	-9130	7376	-11087	-9657	10460	-25711	2477	-23861	2757	-1991	22285	21629	31308
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	Buffer	2	24163	33526	50032	31569	32998	53116	16945	45133	18795	45412	40664	64941	64285	73964
Los Muertos	Buffer	2	-10982	-1619	14887	-3576	-2147	17971	-18200	9988	-16350	10267	5519	29796	29140	38819
Crismon	Buffer	2	-18574	-9211	7295	-11168	-9739	10379	-25792	2396	-23942	2675	-2073	22204	21548	31226
Scottsdale	Buffer	2	-27084	-17721	-1215	-19678	-18248	1869	-34302	-6114	-32452	-5834	-10582	13694	13038	22717
Riverview	Buffer	2	-58372	-49009	-32503	-50966	-49537	-29419	-65590	-37402	-63740	-37123	-41871	-17594	-18250	-8572
Canal System 2	Buffer	2	-96247	-86885	-70378	-88842	-87412	-67294	-103465	-75277	-101616	-74998	-79746	-55469	-56125	-46447

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1429 Silk 2	1430 Silk 2	1431 Silk 2	1432 Silk 2	1433 Silk 2	1434 Silk 2	1435 Silk 2	1436 Silk 2	1437 Silk 2	1438 Silk 2	1439 Silk 2	1440 Silk 2	1441 Silk 2	1442 Silk 2
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	SIU	1	41706	41278	55279	37131	71100	54286	25079	28117	31082	21731	35960	43983	66647	23288
Los Muertos	SIU	1	33167	32738	46740	28591	62561	45747	16539	19577	22543	13192	27420	35444	58108	14749
Crismon	SIU	1	32045	31616	45618	27469	61439	44625	15417	18455	21421	12070	26298	34322	56986	13627
Scottsdale	SIU	1	31106	30677	44678	26530	60500	43685	14478	17516	20482	11130	25359	33383	56046	12688
Riverview	SIU	1	26193	25764	39766	21617	55587	38773	9565	12603	15569	6218	20446	28470	51134	7775
Canal System 2	SIU	1	19637	19208	33210	15061	49031	32217	3009	6047	9013	-338	13890	21914	44578	1219
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	Buffer	1	40965	40536	54538	36389	70359	53545	24337	27375	30341	20990	35218	43242	65905	22547
Los Muertos	Buffer	1	23392	22964	36965	18817	52786	35972	6765	9803	12768	3417	17646	25669	48333	4975
Crismon	Buffer	1	19596	19168	33169	15021	48990	32176	2969	6007	8972	-379	13850	21873	44537	1178
Scottsdale	Buffer	1	15341	14913	28914	10766	44735	27921	-1286	1752	4717	-4634	9595	17618	40282	-3076
Riverview	Buffer	1	-303	-731	13270	-4878	29091	12277	-16930	-13892	-10927	-20278	-6049	1974	24638	-18721
Canal System 2	Buffer	1	-19240	-19669	-5668	-23816	10154	-6661	-35868	-32830	-29864	-39216	-24987	-16963	5700	-37658
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	SIU	2	41277	40849	54850	36702	70671	53857	24650	27688	30653	21302	35531	43554	66218	22859
Los Muertos	SIU	2	24199	23770	37771	19623	53593	36778	7571	10609	13575	4223	18452	26476	49139	5781
Crismon	SIU	2	21955	21526	35527	17379	51349	34534	5327	8365	11331	1979	16208	24232	46895	3537
Scottsdale	SIU	2	20076	19647	33649	15500	49470	32656	3448	6486	9452	101	14329	22353	45016	1658
Riverview	SIU	2	10251	9822	23823	5675	39645	22830	-6377	-3339	-373	-9725	4504	12528	35191	-8167
Canal System 2	SIU	2	-2861	-3290	10711	-7437	26533	9718	-19489	-16451	-13485	-22837	-8608	-584	22079	-21279
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	Buffer	2	39794	39366	53367	35219	69188	52374	23167	26205	29170	19819	34048	42071	64735	21377
Los Muertos	Buffer	2	4649	4221	18222	74	34043	17229	-11978	-8940	-5975	-15326	-1097	6926	29590	-13768
Crismon	Buffer	2	-2943	-3371	10630	-7518	26451	9637	-19570	-16532	-13567	-22918	-8689	-666	21998	-21361
Scottsdale	Buffer	2	-11452	-11881	2120	-16028	17942	1127	-28080	-25042	-22076	-31428	-17199	-9175	13488	-29870
Riverview	Buffer	2	-42741	-43169	-29168	-47316	-13347	-30161	-59368	-56330	-53365	-62716	-48487	-40464	-17800	-61159
Canal System 2	Buffer	2	-80616	-81045	-67043	-85192	-51222	-68036	-97244	-94206	-91240	-100591	-86363	-78339	-55675	-99034

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1443 Silk 2	1444 Silk 2	1445 Silk 2	1446 Silk 2	1447 Silk 2	1448 Silk 2	1449 Silk 2	1450 Silk 2	Total Deficits
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	SIU	1	36024	38034	29183	31814	39855	20386	31914	24118	0
Los Muertos	SIU	1	27485	29495	20644	23275	31316	11847	23375	15579	0
Crismon	SIU	1	26363	28373	19522	22153	30194	10725	22253	14457	0
Scottsdale	SIU	1	25423	27433	18582	21213	29254	9785	21313	13518	0
Riverview	SIU	1	20511	22521	13670	16301	24342	4873	16401	8605	0
Canal System 2	SIU	1	13955	15965	7114	9745	17786	-1683	9845	2049	15
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	Buffer	1	35282	37292	28442	31072	39114	19644	31173	23377	0
Los Muertos	Buffer	1	17710	19720	10869	13500	21541	2072	13600	5805	3
Crismon	Buffer	1	13914	15924	7073	9704	17745	-1724	9804	2008	15
Scottsdale	Buffer	1	9659	11669	2818	5449	13490	-5979	5549	-2246	25
Riverview	Buffer	1	-5985	-3975	-12826	-10195	-2154	-21623	-10095	-17891	80
Canal System 2	Buffer	1	-24923	-22913	-31764	-29133	-21091	-40561	-29033	-36828	123
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	SIU	2	35595	37605	28754	31385	39426	19957	31485	23689	0
Los Muertos	SIU	2	18516	20526	11675	14306	22348	2878	14406	6611	2
Crismon	SIU	2	16272	18282	9431	12062	20104	634	12162	4367	8
Scottsdale	SIU	2	14393	16403	7553	10183	18225	-1245	10284	2488	12
Riverview	SIU	2	4568	6578	-2273	358	8400	-11070	458	-7337	37
Canal System 2	SIU	2	-8544	-6534	-15385	-12754	-4712	-24182	-12654	-20449	88
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	Buffer	2	34112	36122	27271	29902	37943	18474	30002	22207	0
Los Muertos	Buffer	2	-1033	977	-7874	-5243	2798	-16671	-5143	-12938	62
Crismon	Buffer	2	-8625	-6615	-15466	-12835	-4794	-24263	-12735	-20531	88
Scottsdale	Buffer	2	-17135	-15125	-23976	-21345	-13303	-32773	-21245	-29040	108
Riverview	Buffer	2	-48423	-46413	-55264	-52633	-44592	-64061	-52533	-60329	143
Canal System 2	Buffer	2	-86298	-84288	-93139	-90508	-82467	-101936	-90408	-98204	151

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1300 Plant 1	1301 Plant 1	1302 Plant 1	1303 Plant 1	1304 Plant 1	1305 Plant 1	1306 Plant 1	1307 Plant 1	1308 Plant 1	1309 Plant 1	1310 Plant 1	1311 Plant 1	1312 Plant 1	1313 Plant 1
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	SIU	3	163935	301692	308697	266889	127120	381389	128151	74130	114902	251897	349619	165777	262018	300822
Los Muertos	SIU	3	138317	276074	283079	241271	101502	355771	102533	48512	89284	226279	324001	140159	236400	275204
Crismon	SIU	3	134951	272708	279713	237905	98136	352405	99167	45146	85918	222913	320635	136793	233034	271838
Scottsdale	SIU	3	132133	269890	276895	235087	95318	349587	96349	42328	83100	220095	317817	133975	230216	269020
Riverview	SIU	3	117395	255152	262157	220349	80580	334849	81611	27590	68362	205357	303079	119237	215478	254282
Canal System 2	SIU	3	97727	235484	242489	200681	60912	315181	61943	7922	48694	185689	283411	99569	195810	234614
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	Buffer	3	161711	299468	306473	264665	124896	379165	125927	71906	112678	249673	347395	163553	259794	298598
Los Muertos	Buffer	3	108993	246750	253755	211948	72179	326447	73209	19188	59961	196955	294677	110836	207076	245881
Crismon	Buffer	3	97605	235362	242367	200559	60790	315059	61821	7800	48572	185567	283289	99447	195688	234492
Scottsdale	Buffer	3	84841	222597	229602	187795	48026	302295	49057	-4965	35808	172803	270525	86683	182923	221728
Riverview	Buffer	3	37908	175665	182670	140862	1093	255362	2124	-51897	-11125	125870	223592	39750	135991	174795
Canal System 2	Buffer	3	-18905	118852	125857	84050	-55719	198549	-54689	-108710	-67938	69057	166779	-17063	79178	117983
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	SIU	4	163506	301263	308268	266460	126691	380960	127722	73701	114473	251468	349190	165348	261589	300393
Los Muertos	SIU	4	129349	267106	274111	232303	92534	346803	93565	39544	80316	217311	315033	131191	227432	266236
Crismon	SIU	4	124861	262618	269623	227815	88046	342315	89077	35056	75828	212823	310545	126703	222944	261748
Scottsdale	SIU	4	121103	258860	265865	224058	84289	338557	85319	31298	72070	209065	306787	122945	219186	257991
Riverview	SIU	4	101453	239210	246215	204407	64638	318907	65669	11648	52420	189415	287137	103295	199536	238340
Canal System 2	SIU	4	75229	212986	219991	178183	38414	292683	39445	-14576	26196	163191	260913	77071	173312	212116
Start (L. Classic)			165222	302979	309984	268176	128407	382676	129438	75417	116189	253184	350906	167064	263305	302109
Coyote	Buffer	4	160541	298297	305302	263495	123726	377994	124756	70735	111508	248502	346224	162383	258623	297428
Los Muertos	Buffer	4	90251	228007	235012	193205	53436	307704	54466	445	41218	178212	275934	92093	188333	227138
Crismon	Buffer	4	75066	212823	219828	178020	38251	292520	39282	-14739	26033	163028	260750	76908	173149	211953
Scottsdale	Buffer	4	58047	195804	202809	161001	21232	275501	22263	-31758	9014	146009	243731	59889	156130	194934
Riverview	Buffer	4	-4530	133227	140232	98424	-41345	212924	-40314	-94335	-53563	83432	181154	-2688	93553	132357
Canal System 2	Buffer	4	-80280	57476	64481	22674	-117095	137174	-116064	-170086	-129313	7682	105404	-78438	17802	56607

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1314 Plant 1	1315 Plant 1	1316 Plant 1	1317 Plant 1	1318 Plant 1	1319 Plant 1	1320 Plant 1	1321 Plant 1	1322 Plant 1	1323 Plant 1	1324 Plant 1	1325 Plant 1	1326 Plant 1	1327 Plant 1
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	SIU	3	142480	74484	51878	221779	248071	175350	145561	259357	143510	112909	112895	292082	229746	119007
Los Muertos	SIU	3	116862	48866	26261	196161	222453	149732	119943	233740	117893	87291	87277	266464	204128	93390
Crismon	SIU	3	113496	45500	22895	192795	219087	146366	116577	230374	114527	83925	83911	263098	200762	90024
Scottsdale	SIU	3	110678	42681	20076	189977	216269	143548	113759	227555	111708	81106	81093	260280	197943	87205
Riverview	SIU	3	95940	27944	5339	175239	201531	128810	99021	212818	96971	66369	66355	245542	183206	72468
Canal System 2	SIU	3	76272	8276	-14329	155571	181863	109142	79353	193150	77303	46701	46687	225874	163538	52800
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	Buffer	3	140256	72259	49654	219555	245847	173125	143337	257133	141286	110684	110671	289858	227521	116783
Los Muertos	Buffer	3	87539	19542	-3063	166837	193130	120408	90620	204416	88569	57967	57954	237140	174804	64066
Crismon	Buffer	3	76150	8154	-14452	155449	181741	109020	79231	193027	77180	46579	46565	225752	163416	52677
Scottsdale	Buffer	3	63386	-4611	-27216	142685	168977	96255	66467	180263	64416	33814	33801	212988	150651	39913
Riverview	Buffer	3	16453	-51543	-74149	95752	122044	49323	19534	133330	17483	-13118	-13132	166055	103719	-7020
Canal System 2	Buffer	3	-40360	-108356	-130961	38939	65231	-7490	-37279	76518	-39329	-69931	-69944	109242	46906	-63832
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	SIU	4	142051	74055	51449	221350	247642	174921	145132	258928	143081	112480	112466	291653	229317	118578
Los Muertos	SIU	4	107894	39897	17292	187193	213485	140763	110975	224771	108924	78322	78309	257496	195159	84421
Crismon	SIU	4	103406	35409	12804	182705	208997	136275	106487	220283	104436	73834	73821	253008	190671	79933
Scottsdale	SIU	4	99648	31652	9047	178947	205239	132518	102729	216526	100679	70077	70064	249250	186914	76176
Riverview	SIU	4	79998	12001	-10604	159297	185589	112867	83079	196875	81028	50426	50413	229600	167263	56525
Canal System 2	SIU	4	53774	-14223	-36828	133073	159365	86643	56855	170651	54804	24202	24189	203376	141039	30301
Start (L. Classic)			143767	75771	53165	223066	249358	176637	146848	260644	144797	114196	114182	293369	231033	120294
Coyote	Buffer	4	139086	71089	48484	218385	244677	171955	142167	255963	140116	109514	109501	288687	226351	115613
Los Muertos	Buffer	4	68796	799	-21806	148095	174387	101665	71877	185673	69826	39224	39211	218397	156061	45323
Crismon	Buffer	4	53611	-14385	-36991	132910	159202	86481	56692	170488	54641	24040	24026	203213	140877	30138
Scottsdale	Buffer	4	36592	-31405	-54010	115891	142183	69461	39673	153469	37622	7020	7007	186194	123857	13119
Riverview	Buffer	4	-25985	-93981	-116587	53314	79606	6885	-22904	90892	-24955	-55556	-55570	123617	61281	-49458
Canal System 2	Buffer	4	-101735	-169732	-192337	-22436	3856	-68866	-98654	15142	-100705	-131307	-131320	47867	-14470	-125208

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1328 Plant 1	1329 Plant 1	1330 Plant 1	1331 Plant 1	1332 Plant 1	1333 Plant 1	1334 Plant 1	1335 Plant 1	1336 Plant 1	1337 Plant 1	1338 Plant 1	1339 Plant 1	1340 Plant 1	1341 Plant 1
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	SIU	3	66092	109792	186332	162172	193168	255383	143738	69532	168280	165377	57574	159212	95595	61141
Los Muertos	SIU	3	40474	84174	160714	136554	167550	229765	118121	43915	142662	139759	31956	133594	69977	35523
Crismon	SIU	3	37108	80808	157348	133188	164184	226399	114755	40549	139296	136393	28590	130228	66611	32157
Scottsdale	SIU	3	34289	77990	154530	130369	161366	223580	111936	37730	136478	133575	25772	127410	63793	29339
Riverview	SIU	3	19552	63252	139792	115632	146628	208843	97199	22993	121740	118837	11034	112672	49055	14601
Canal System 2	SIU	3	-116	43584	120124	95964	126960	189175	77531	3325	102072	99169	-8634	93004	29387	-5067
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	Buffer	3	63867	107568	184108	159947	190944	253158	141514	67308	166056	163153	55350	156988	93371	58917
Los Muertos	Buffer	3	11150	54850	131391	107230	138226	200441	88797	14591	113339	110435	2633	104270	40654	6199
Crismon	Buffer	3	-238	43462	120002	95842	126838	189053	77408	3202	101950	99047	-8756	92882	29265	-5189
Scottsdale	Buffer	3	-13003	30698	107238	83077	114074	176288	64644	-9562	89186	86283	-21520	80117	16501	-17953
Riverview	Buffer	3	-59935	-16235	60305	36145	67141	129356	17711	-56495	42253	39350	-68453	33185	-30432	-64886
Canal System 2	Buffer	3	-116748	-73048	3493	-20668	10328	72543	-39101	-113307	-14559	-17463	-125265	-23628	-87245	-121699
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	SIU	4	65663	109363	185903	161743	192739	254954	143309	69103	167851	164948	57145	158783	95166	60712
Los Muertos	SIU	4	31505	75206	151746	127585	158582	220796	109152	34946	133694	130791	22988	124626	61009	26555
Crismon	SIU	4	27017	70718	147258	123097	154094	216308	104664	30458	129206	126303	18500	120138	56521	22067
Scottsdale	SIU	4	23260	66960	143501	119340	150336	212551	100907	26701	125449	122545	14743	116380	52763	18309
Riverview	SIU	4	3609	47310	123850	99689	130686	192900	81256	7050	105798	102895	-4908	96730	33113	-1341
Canal System 2	SIU	4	-22615	21086	97626	73465	104462	166676	55032	-19174	79574	76671	-31132	70506	6889	-27565
Start (L. Classic)			67379	111079	187619	163459	194455	256670	145025	70819	169567	166664	58861	160499	96882	62428
Coyote	Buffer	4	62697	106398	182938	158777	189773	251988	140344	66138	164886	161982	54180	155817	92201	57747
Los Muertos	Buffer	4	-7593	36108	112648	88487	119483	181698	70054	-4152	94596	91692	-16110	85527	21911	-12543
Crismon	Buffer	4	-22777	20923	97463	73303	104299	166514	54869	-19337	79411	76508	-31295	70343	6726	-27728
Scottsdale	Buffer	4	-39797	3904	80444	56283	87280	149494	37850	-36356	62392	59489	-48314	53324	-10293	-44747
Riverview	Buffer	4	-102373	-58673	17867	-6293	24703	86918	-24727	-98933	-185	-3088	-110891	-9253	-72870	-107324
Canal System 2	Buffer	4	-178124	-134423	-57883	-82044	-51047	11167	-100477	-174683	-75935	-78838	-186641	-85004	-148620	-183074

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1342 Plant 1	1343 Plant 1	1344 Plant 1	1345 Plant 1	1346 Plant 1	1347 Plant 1	1348 Plant 1	1349 Plant 1	1350 Plant 1	1351 Plant 1	1352 Plant 1	1353 Plant 1	1354 Plant 1	1355 Plant 1
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	SIU	3	131187	121952	118016	124470	136542	60544	114696	175569	67916	92899	96123	182814	179846	51413
Los Muertos	SIU	3	105570	96334	92398	98852	110924	34926	89078	149952	42298	67281	70505	157197	154228	25795
Crismon	SIU	3	102204	92968	89032	95486	107558	31560	85712	146586	38932	63915	67139	153831	150862	22429
Scottsdale	SIU	3	99385	90150	86214	92668	104740	28742	82894	143767	36114	61097	64320	151012	148044	19611
Riverview	SIU	3	84648	75412	71476	77930	90002	14004	68156	129030	21376	46359	49583	136275	133306	4873
Canal System 2	SIU	3	64980	55744	51808	58262	70334	-5664	48488	109362	1708	26691	29915	116607	113638	-14795
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	Buffer	3	128963	119728	115792	122246	134318	58320	112472	173345	65692	90675	93898	180590	177622	49189
Los Muertos	Buffer	3	76246	67010	63075	69528	81601	5602	59754	120628	12974	37957	41181	127873	124905	-3528
Crismon	Buffer	3	64857	55622	51686	58140	70212	-5786	48366	109239	1586	26569	29793	116484	113516	-14917
Scottsdale	Buffer	3	52093	42858	38922	45376	57448	-18550	35601	96475	-11178	13805	17028	103720	100752	-27681
Riverview	Buffer	3	5160	-4075	-8011	-1557	10515	-65483	-11331	49542	-58111	-33128	-29904	56787	53819	-74614
Canal System 2	Buffer	3	-51652	-60888	-64824	-58370	-46298	-122296	-68144	-7270	-114924	-89941	-86717	-25	-2994	-131426
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	SIU	4	130758	121523	117587	124041	136113	60115	114267	175140	67487	92470	95694	182385	179417	50984
Los Muertos	SIU	4	96601	87366	83430	89884	101956	25958	80110	140983	33330	58313	61536	148228	145260	16827
Crismon	SIU	4	92113	82878	78942	85396	97468	21470	75622	136495	28842	53825	57048	143740	140772	12339
Scottsdale	SIU	4	88356	79120	75184	81638	93710	17712	71864	132738	25084	50067	53291	139983	137014	8582
Riverview	SIU	4	68705	59470	55534	61988	74060	-1938	52214	113087	5434	30417	33640	120332	117364	-11069
Canal System 2	SIU	4	42481	33246	29310	35764	47836	-28162	25990	86863	-20790	4193	7416	94108	91140	-37293
Start (L. Classic)			132474	123239	119303	125757	137829	61831	115983	176856	69203	94186	97410	184101	181133	52700
Coyote	Buffer	4	127793	118558	114622	121075	133148	57150	111301	172175	64522	89505	92728	179420	176452	48019
Los Muertos	Buffer	4	57503	48268	44332	50785	62858	-13140	41011	101885	-5768	19215	22438	109130	106162	-22271
Crismon	Buffer	4	42318	33083	29147	35601	47673	-28325	25827	86700	-20953	4030	7254	93945	90977	-37456
Scottsdale	Buffer	4	25299	16064	12128	18582	30654	-45344	8808	69681	-37972	-12989	-9766	76926	73958	-54475
Riverview	Buffer	4	-37278	-46513	-50449	-43995	-31923	-107921	-53769	7104	-100549	-75566	-72342	14349	11381	-117052
Canal System 2	Buffer	4	-113028	-122263	-126199	-119745	-107673	-183671	-129520	-68646	-176299	-151316	-148093	-61401	-64369	-192802

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1356 Plant 1	1357 Plant 1	1358 Plant 1	1359 Plant 1	1360 Plant 1	1361 Plant 1	1362 Plant 1	1363 Plant 1	1364 Plant 1	1365 Plant 1	1366 Plant 1	1367 Plant 1	1368 Plant 1	1369 Plant 1
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	SIU	3	179781	189680	304414	175192	58519	104376	124746	75652	151504	111833	180000	112793	198820	84331
Los Muertos	SIU	3	154163	164062	278796	149574	32902	78759	99128	50034	125886	86215	154382	87175	173202	58713
Crismon	SIU	3	150797	160696	275430	146208	29536	75393	95762	46668	122520	82849	151016	83809	169836	55347
Scottsdale	SIU	3	147979	157878	272612	143390	26717	72574	92944	43850	119701	80031	148198	80991	167018	52529
Riverview	SIU	3	133241	143140	257874	128652	11980	57837	78206	29112	104964	65293	133460	66253	152280	37791
Canal System 2	SIU	3	113573	123472	238206	108984	-7688	38169	58538	9444	85296	45625	113792	46585	132612	18123
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	Buffer	3	177557	187456	302190	172968	56295	102152	122522	73427	149279	109609	177776	110569	196596	82107
Los Muertos	Buffer	3	124839	134739	249473	120250	3578	49435	69804	20710	96562	56891	125058	57852	143878	29390
Crismon	Buffer	3	113451	123350	238084	108862	-7811	38046	58416	9322	85174	45503	113670	46463	132490	18001
Scottsdale	Buffer	3	100687	110586	225320	96098	-20575	25282	45652	-3443	72409	32739	100905	33699	119726	5237
Riverview	Buffer	3	53754	63653	178387	49165	-67508	-21651	-1281	-50375	25477	-14194	53973	-13234	72793	-41696
Canal System 2	Buffer	3	-3059	6840	121574	-7648	-124320	-78463	-58094	-107188	-31336	-71007	-2840	-70047	15980	-98508
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	SIU	4	179352	189251	303985	174763	58090	103947	124317	75223	151075	111404	179571	112364	198391	83902
Los Muertos	SIU	4	145195	155094	269828	140606	23933	69790	90160	41065	116917	77247	145414	78207	164234	49745
Crismon	SIU	4	140707	150606	265340	136118	19445	65302	85672	36577	112429	72759	140926	73719	159746	45257
Scottsdale	SIU	4	136949	146848	261582	132360	15688	61545	81914	32820	108672	69001	137168	69961	155988	41500
Riverview	SIU	4	117299	127198	241932	112710	-3963	41894	62264	13169	89021	49351	117518	50311	136338	21849
Canal System 2	SIU	4	91075	100974	215708	86486	-30187	15670	36040	-13055	62797	23127	91294	24087	110114	-4375
Start (L. Classic)			181068	190967	305701	176479	59806	105663	126033	76939	152791	113120	181287	114080	200107	85618
Coyote	Buffer	4	176386	186286	301020	171797	55125	100982	121352	72257	148109	108439	176605	109399	195426	80937
Los Muertos	Buffer	4	106096	115996	230730	101507	-15165	30692	51062	1967	77819	38149	106315	39109	125136	10647
Crismon	Buffer	4	90912	100811	215545	86323	-30350	15507	35877	-13217	62635	22964	91131	23924	109951	-4538
Scottsdale	Buffer	4	73893	83792	198526	69304	-47369	-1512	18858	-30237	45615	5945	74112	6905	92932	-21557
Riverview	Buffer	4	11316	21215	135949	6727	-109946	-64089	-43719	-92813	-16961	-56632	11535	-55672	30355	-84134
Canal System 2	Buffer	4	-64434	-54535	60199	-69023	-185696	-139839	-119469	-168564	-92712	-132382	-64216	-131422	-45395	-159884

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1370 Plant 1	1371 Plant 1	1372 Plant 1	1373 Plant 1	1374 Plant 1	1375 Plant 1	1376 Plant 1	1377 Plant 1	1378 Plant 1	1379 Plant 1	1380 Plant 1	1381 Plant 1	1382 Plant 1	1383 Plant 1
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	SIU	3	219977	93176	143850	209703	216051	111435	79319	132933	101590	69393	289810	138264	157887	138454
Los Muertos	SIU	3	194359	67558	118233	184085	190433	85817	53701	107315	75972	43775	264192	112646	132269	112836
Crismon	SIU	3	190993	64192	114867	180719	187067	82451	50335	103949	72606	40409	260826	109280	128903	109470
Scottsdale	SIU	3	188175	61374	112048	177901	184249	79633	47517	101131	69788	37591	258008	106462	126085	106652
Riverview	SIU	3	173437	46636	97311	163163	169511	64895	32779	86393	55050	22853	243270	91724	111347	91914
Canal System 2	SIU	3	153769	26968	77643	143495	149843	45227	13111	66725	35382	3185	223602	72056	91679	72246
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	Buffer	3	217753	90952	141626	207479	213827	109211	77094	130708	99366	67169	287585	136040	155663	136230
Los Muertos	Buffer	3	165036	38234	88909	154762	161109	56493	24377	77991	46648	14451	234868	83322	102945	83512
Crismon	Buffer	3	153647	26846	77520	143373	149721	45105	12989	66603	35260	3063	223480	71934	91557	72124
Scottsdale	Buffer	3	140883	14081	64756	130609	136956	32340	224	53838	22495	-9701	210715	59169	78792	59360
Riverview	Buffer	3	93950	-32851	17823	83676	90024	-14592	-46708	6906	-24437	-56634	163783	12237	31860	12427
Canal System 2	Buffer	3	37138	-89664	-38989	26864	33211	-71405	-103521	-49907	-81250	-113447	106970	-44576	-24953	-44386
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	SIU	4	219548	92747	143421	209274	215622	111006	78890	132504	101161	68964	289381	137835	157458	138025
Los Muertos	SIU	4	185391	58590	109264	175117	181465	76849	44732	98346	67004	34807	255223	103678	123301	103868
Crismon	SIU	4	180903	54102	104776	170629	176977	72361	40244	93858	62516	30319	250735	99190	118813	99380
Scottsdale	SIU	4	177146	50344	101019	166872	173219	68603	36487	90101	58758	26561	246978	95432	115055	95622
Riverview	SIU	4	157495	30694	81368	147221	153569	48953	16836	70450	39108	6911	227327	75782	95405	75972
Canal System 2	SIU	4	131271	4470	55144	120997	127345	22729	-9388	44226	12884	-19313	201103	49558	69181	49748
Start (L. Classic)			221264	94463	145137	210990	217338	112722	80606	134220	102877	70680	291097	139551	159174	139741
Coyote	Buffer	4	216583	89781	140456	206309	212656	108040	75924	129538	98195	65998	286415	134869	154492	135059
Los Muertos	Buffer	4	146293	19491	70166	136019	142366	37750	5634	59248	27905	-4292	216125	64579	84202	64769
Crismon	Buffer	4	131108	4307	54981	120834	127182	22566	-9550	44064	12721	-19476	200941	49395	69018	49585
Scottsdale	Buffer	4	114089	-12712	37962	103815	110163	5547	-26570	27044	-4298	-36495	183921	32376	51999	32566
Riverview	Buffer	4	51512	-75289	-24615	41238	47586	-57030	-89146	-35532	-66875	-99072	121345	-30201	-10578	-30011
Canal System 2	Buffer	4	-24238	-151040	-100365	-34512	-28165	-132781	-164897	-111283	-142626	-174822	45594	-105952	-86329	-105761

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1384 Plant 1	1385 Plant 1	1386 Plant 1	1387 Plant 1	1388 Plant 1	1389 Plant 1	1390 Plant 1	1391 Plant 1	1392 Plant 1	1393 Plant 1	1394 Plant 1	1395 Plant 1	1396 Plant 1
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696
Coyote	SIU	3	139555	140621	149953	121233	112329	99609	88101	111080	189512	101901	170715	105914	150409
Los Muertos	SIU	3	113937	115003	124335	95615	86711	73991	62483	85462	163894	76283	145097	80296	124791
Crismon	SIU	3	110571	111637	120969	92249	83345	70625	59117	82096	160528	72917	141731	76930	121425
Scottsdale	SIU	3	107752	108819	118151	89431	80527	67807	56298	79278	157710	70099	138913	74112	118607
Riverview	SIU	3	93015	94081	103413	74693	65789	53069	41561	64540	142972	55361	124175	59374	103869
Canal System 2	SIU	3	73347	74413	83745	55025	46121	33401	21893	44872	123304	35693	104507	39706	84201
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696
Coyote	Buffer	3	137330	138397	147729	119009	110105	97385	85876	108856	187288	99677	168491	103690	148185
Los Muertos	Buffer	3	84613	85679	95011	66291	57387	44667	33159	56139	134570	46959	115774	50973	95467
Crismon	Buffer	3	73225	74291	83623	54903	45999	33279	21771	44750	123182	35571	104385	39584	84079
Scottsdale	Buffer	3	60460	61527	70858	42138	33235	20515	9006	31986	110418	22806	91621	26820	71315
Riverview	Buffer	3	13528	14594	23926	-4794	-13698	-26418	-37926	-14947	63485	-24126	44688	-20113	24382
Canal System 2	Buffer	3	-43285	-42219	-32887	-61607	-70511	-83231	-94739	-71760	6672	-80939	-12124	-76926	-32431
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696
Coyote	SIU	4	139126	140192	149524	120804	111900	99180	87672	110651	189083	101472	170286	105485	149980
Los Muertos	SIU	4	104968	106035	115367	86647	77743	65023	53514	76494	154926	67315	136129	71328	115823
Crismon	SIU	4	100480	101547	110879	82159	73255	60535	49026	72006	150438	62827	131641	66840	111335
Scottsdale	SIU	4	96723	97789	107121	78401	69497	56777	45269	68248	146680	59069	127884	63082	107577
Riverview	SIU	4	77072	78139	87471	58751	49847	37127	25618	48598	127030	39419	108233	43432	87927
Canal System 2	SIU	4	50848	51915	61247	32527	23623	10903	-606	22374	100806	13195	82009	17208	61703
Start (L. Classic)			140842	141908	151240	122520	113616	100896	89388	112367	190799	103188	172002	107201	151696
Coyote	Buffer	4	136160	137226	146558	117838	108934	96215	84706	107686	186118	98506	167321	102520	147014
Los Muertos	Buffer	4	65870	66936	76268	47548	38644	25925	14416	37396	115828	28216	97031	32230	76724
Crismon	Buffer	4	50686	51752	61084	32364	23460	10740	-768	22211	100643	13032	81846	17045	61540
Scottsdale	Buffer	4	33666	34733	44065	15345	6441	-6279	-17788	5192	83624	-3987	64827	26	44521
Riverview	Buffer	4	-28910	-27844	-18512	-47232	-56136	-68856	-80364	-57385	21047	-66564	2250	-62551	-18056
Canal System 2	Buffer	4	-104661	-103594	-94263	-122983	-131886	-144606	-156115	-133135	-54703	-142315	-73500	-138301	-93806

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1397 Plant 1	1398 Plant 1	1399 Plant 1	1400 Plant 1	1401 Plant 1	1402 Plant 1	1403 Plant 1	1404 Plant 1	1405 Plant 1	1406 Plant 1	1407 Plant 1	1408 Plant 1	1409 Plant 1
Start (L. Classic)			91177	123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524
Coyote	SIU	3	89890	122601	105540	131175	130299	110124	116353	235904	116533	156124	62265	138316	223237
Los Muertos	SIU	3	64273	96983	79922	105557	104681	84506	90735	210286	90915	130506	36647	112698	197619
Crismon	SIU	3	60907	93617	76556	102191	101315	81140	87369	206920	87549	127140	33281	109332	194253
Scottsdale	SIU	3	58088	90799	73737	99373	98497	78322	84551	204102	84731	124322	30463	106514	191435
Riverview	SIU	3	43351	76061	59000	84635	83759	63584	69813	189364	69993	109584	15725	91776	176697
Canal System 2	SIU	3	23683	56393	39332	64967	64091	43916	50145	169696	50325	89916	-3943	72108	157029
Start (L. Classic)			91177	123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524
Coyote	Buffer	3	87666	120377	103315	128951	128074	107900	114129	233680	114309	153900	60041	136092	221013
Los Muertos	Buffer	3	34949	67659	50598	76233	75357	55182	61412	180962	61592	101182	7323	83374	168295
Crismon	Buffer	3	23560	56271	39210	64845	63969	43794	50023	169574	50203	89794	-4065	71986	156907
Scottsdale	Buffer	3	10796	43507	26445	52081	51204	31030	37259	156810	37439	77029	-16830	59221	144143
Riverview	Buffer	3	-36137	-3426	-20487	5148	4272	-15903	-9674	109877	-9494	30097	-63762	12289	97210
Canal System 2	Buffer	3	-92949	-60239	-77300	-51665	-52541	-72716	-66486	53064	-66306	-26716	-120575	-44524	40397
Start (L. Classic)			91177	123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524
Coyote	SIU	4	89461	122172	105111	130746	129870	109695	115924	235475	116104	155695	61836	137887	222808
Los Muertos	SIU	4	55304	88015	70953	96589	95712	75538	81767	201318	81947	121538	27679	103730	188651
Crismon	SIU	4	50816	83527	66465	92101	91224	71050	77279	196830	77459	117050	23191	99242	184163
Scottsdale	SIU	4	47059	79769	62708	88343	87467	67292	73522	193072	73702	113292	19433	95484	180405
Riverview	SIU	4	27408	60119	43057	68693	67816	47642	53871	173422	54051	93642	-217	75834	160755
Canal System 2	SIU	4	1184	33895	16833	42469	41592	21418	27647	147198	27827	67418	-26441	49610	134531
Start (L. Classic)			91177	123888	106827	132462	131586	111411	117640	237191	117820	157411	63552	139603	224524
Coyote	Buffer	4	86496	119206	102145	127780	126904	106729	112959	232510	113139	152729	58870	134921	219843
Los Muertos	Buffer	4	16206	48916	31855	57490	56614	36439	42669	162220	42849	82439	-11420	64631	149553
Crismon	Buffer	4	1021	33732	16671	42306	41430	21255	27484	147035	27664	67255	-26604	49447	134368
Scottsdale	Buffer	4	-15998	16713	-349	25287	24410	4236	10465	130016	10645	50236	-43623	32428	117349
Riverview	Buffer	4	-78575	-45864	-62925	-37290	-38166	-58341	-52112	67439	-51932	-12341	-106200	-30149	54772
Canal System 2	Buffer	4	-154325	-121614	-138676	-113040	-113917	-134091	-127862	-8311	-127682	-88092	-181951	-105900	-20978

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1410 Plant 1	1411 Plant 1	1412 Plant 1	1413 Plant 1	1414 Plant 1	1415 Plant 1	1416 Plant 1	1417 Plant 1	1418 Plant 1	1419 Plant 1	1420 Plant 1	1421 Plant 1	1422 Plant 1	1423 Plant 1
Start (L. Classic)			73506	86007	160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037
Coyote	SIU	3	72219	84720	159696	74830	238693	82776	112473	164826	106265	110800	174608	59883	149287	65750
Los Muertos	SIU	3	46601	59102	134078	49213	213075	57158	86855	139208	80647	85182	148990	34265	123669	40132
Crismon	SIU	3	43235	55736	130712	45847	209709	53792	83489	135842	77281	81816	145624	30899	120303	36766
Scottsdale	SIU	3	40417	52918	127894	43028	206890	50974	80670	133024	74463	78997	142806	28081	117485	33948
Riverview	SIU	3	25679	38180	113156	28291	192153	36236	65933	118286	59725	64260	128068	13343	102747	19210
Canal System 2	SIU	3	6011	18512	93488	8623	172485	16568	46265	98618	40057	44592	108400	-6325	83079	-458
Start (L. Classic)			73506	86007	160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037
Coyote	Buffer	3	69995	82496	157472	72606	236468	80552	110248	162601	104041	108575	172384	57658	147063	63525
Los Muertos	Buffer	3	17278	29778	104754	19889	183751	27834	57531	109884	51324	55858	119666	4941	94346	10808
Crismon	Buffer	3	5889	18390	93366	8500	172363	16446	46143	98496	39935	44470	108278	-6447	82957	-580
Scottsdale	Buffer	3	-6875	5625	80602	-4264	159598	3681	33378	85731	27171	31705	95514	-19212	70193	-13345
Riverview	Buffer	3	-53808	-41307	33669	-51197	112666	-43251	-13554	38799	-19762	-15227	48581	-66144	23260	-60277
Canal System 2	Buffer	3	-110621	-98120	-23144	-108009	55853	-100064	-70367	-18014	-76574	-72040	-8232	-122957	-33553	-117090
Start (L. Classic)			73506	86007	160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037
Coyote	SIU	4	71790	84291	159267	74401	238264	82347	112044	164397	105836	110371	174179	59454	148858	65321
Los Muertos	SIU	4	37633	50134	125110	40244	204106	48190	77886	130239	71679	76213	140022	25296	114701	31163
Crismon	SIU	4	33145	45646	120622	35756	199618	43702	73398	125751	67191	71725	135534	20808	110213	26675
Scottsdale	SIU	4	29387	41888	116864	31999	195861	39944	69641	121994	63434	67968	131776	17051	106455	22918
Riverview	SIU	4	9737	22238	97214	12348	176210	20294	49990	102343	43783	48317	112126	-2600	86805	3267
Canal System 2	SIU	4	-16487	-3986	70990	-13876	149986	-5930	23766	76119	17559	22093	85902	-28824	60581	-22957
Start (L. Classic)			73506	86007	160983	76117	239980	84063	113760	166113	107552	112087	175895	61170	150574	67037
Coyote	Buffer	4	68825	81325	156302	71436	235298	79381	109078	161431	102871	107405	171213	56488	145893	62355
Los Muertos	Buffer	4	-1465	11035	86012	1146	165008	9091	38788	91141	32581	37115	100923	-13802	75603	-7935
Crismon	Buffer	4	-16650	-4149	70827	-14039	149824	-6093	23604	75957	17396	21931	85739	-28986	60418	-23119
Scottsdale	Buffer	4	-33669	-21168	53808	-31058	132804	-23112	6584	58937	377	4911	68720	-46006	43399	-40139
Riverview	Buffer	4	-96246	-83745	-8769	-93635	70228	-85689	-55992	-3639	-62200	-57665	6143	-108582	-19178	-102715
Canal System 2	Buffer	4	-171996	-159496	-84519	-169385	-5523	-161440	-131743	-79390	-137950	-133416	-69607	-184333	-94928	-178466

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1424 Plant 1	1425 Plant 1	1426 Plant 1	1427 Plant 1	1428 Plant 1	1429 Plant 1	1430 Plant 1	1431 Plant 1	1432 Plant 1	1433 Plant 1	1434 Plant 1	1435 Plant 1	1436 Plant 1	1437 Plant 1
Start (L. Classic)			151461	136401	213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945
Coyote	SIU	3	150174	135114	212113	210033	240731	132355	130996	175405	117843	225585	172254	79617	89252	98658
Los Muertos	SIU	3	124556	109496	186496	184415	215113	106737	105378	149787	92225	199967	146637	53999	63634	73041
Crismon	SIU	3	121190	106130	183130	181049	211747	103371	102012	146421	88859	196601	143271	50633	60268	69675
Scottsdale	SIU	3	118372	103312	180311	178231	208929	100553	99194	143602	86040	193783	140452	47815	57450	66856
Riverview	SIU	3	103634	88574	165574	163493	194191	85815	84456	128865	71303	179045	125715	33077	42712	52119
Canal System 2	SIU	3	83966	68906	145906	143825	174523	66147	64788	109197	51635	159377	106047	13409	23044	32451
Start (L. Classic)			151461	136401	213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945
Coyote	Buffer	3	147950	132890	209889	207809	238507	130131	128771	173180	115618	223361	170030	77393	87028	96434
Los Muertos	Buffer	3	95232	80173	157172	155091	185789	77413	76054	120463	62901	170643	117313	24675	34311	43717
Crismon	Buffer	3	83844	68784	145783	143703	174401	66025	64666	109075	51513	159255	105924	13287	22922	32328
Scottsdale	Buffer	3	71080	56020	133019	130938	161636	53261	51901	96310	38748	146491	93160	522	10158	19564
Riverview	Buffer	3	24147	9087	86086	84006	114704	6328	4969	49378	-8184	99558	46227	-46410	-36775	-27369
Canal System 2	Buffer	3	-32666	-47725	29274	27193	57891	-50485	-51844	-7435	-64997	42745	-10585	-103223	-93588	-84181
Start (L. Classic)			151461	136401	213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945
Coyote	SIU	4	149745	134685	211684	209604	240302	131926	130567	174976	117414	225156	171825	79188	88823	98229
Los Muertos	SIU	4	115588	100528	177527	175447	206145	97769	96409	140818	83256	190999	137668	45031	54666	64072
Crismon	SIU	4	111100	96040	173039	170959	201657	93281	91921	136330	78768	186511	133180	40543	50178	59584
Scottsdale	SIU	4	107342	92283	169282	167201	197899	89523	88164	132573	75011	182753	129423	36785	46420	55827
Riverview	SIU	4	87692	72632	149631	147551	178249	69873	68513	112922	55360	163103	109772	17135	26770	36176
Canal System 2	SIU	4	61468	46408	123407	121327	152025	43649	42289	86698	29136	136879	83548	-9089	546	9952
Start (L. Classic)			151461	136401	213400	211320	242018	133642	132283	176692	119130	226872	173541	80904	90539	99945
Coyote	Buffer	4	146779	131720	208719	206638	237336	128960	127601	172010	114448	222190	168860	76222	85858	95264
Los Muertos	Buffer	4	76489	61430	138429	136348	167046	58670	57311	101720	44158	151900	98570	5932	15568	24974
Crismon	Buffer	4	61305	46245	123244	121164	151862	43486	42127	86536	28974	136716	83385	-9252	383	9789
Scottsdale	Buffer	4	44286	29226	106225	104145	134843	26467	25107	69516	11954	119697	66366	-26271	-16636	-7230
Riverview	Buffer	4	-18291	-33351	43648	41568	72266	-36110	-37469	6940	-50622	57120	3789	-88848	-79213	-69807
Canal System 2	Buffer	4	-94041	-109101	-32102	-34183	-3485	-111860	-113220	-68811	-126373	-18630	-71961	-164599	-154963	-145557

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1438 Plant 1	1439 Plant 1	1440 Plant 1	1441 Plant 1	1442 Plant 1	1443 Plant 1	1444 Plant 1	1445 Plant 1	1446 Plant 1	1447 Plant 1	1448 Plant 1	1449 Plant 1	1450 Plant 1	Total Deficits
Start (L. Classic)			70286	115415	140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858	
Coyote	SIU	3	68999	114128	139577	211460	73939	114332	120707	92635	100979	126484	64732	101297	76571	0
Los Muertos	SIU	3	43381	88510	113959	185842	48321	88714	95089	67017	75361	100866	39114	75679	50953	0
Crismon	SIU	3	40015	85144	110593	182476	44955	85348	91723	63651	71995	97500	35748	72313	47587	0
Scottsdale	SIU	3	37197	82326	107775	179658	42137	82530	88905	60833	69177	94682	32930	69495	44769	0
Riverview	SIU	3	22459	67588	93037	164920	27399	67792	74167	46095	54439	79944	18192	54757	30031	0
Canal System 2	SIU	3	2791	47920	73369	145252	7731	48124	54499	26427	34771	60276	-1476	35089	10363	11
Start (L. Classic)			70286	115415	140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858	
Coyote	Buffer	3	66775	111904	137353	209236	71714	112108	118483	90410	98755	124260	62508	99073	74347	0
Los Muertos	Buffer	3	14057	59187	84636	156518	18997	59390	65766	37693	46037	71542	9791	46355	21629	2
Crismon	Buffer	3	2669	47798	73247	145130	7609	48002	54377	26305	34649	60154	-1598	34967	10241	11
Scottsdale	Buffer	3	-10096	35034	60483	132366	-5156	35237	41613	13540	21884	47389	-14362	22202	-2523	22
Riverview	Buffer	3	-57028	-11899	13550	85433	-52088	-11695	-5320	-33392	-25048	457	-61295	-24730	-49456	71
Canal System 2	Buffer	3	-113841	-68711	-43263	28620	-108901	-68508	-62133	-90205	-81861	-56356	-118108	-81543	-106269	119
Start (L. Classic)			70286	115415	140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858	
Coyote	SIU	4	68570	113699	139148	211031	73510	113903	120278	92206	100550	126055	64303	100868	76142	0
Los Muertos	SIU	4	34413	79542	104991	176874	39352	79746	86121	58048	66393	91898	30146	66711	41985	0
Crismon	SIU	4	29925	75054	100503	172386	34864	75258	81633	53560	61905	87410	25658	62223	37497	0
Scottsdale	SIU	4	26167	71297	96745	168628	31107	71500	77875	49803	58147	83652	21900	58465	33739	0
Riverview	SIU	4	6517	51646	77095	148978	11456	51850	58225	30152	38497	64002	2250	38815	14089	8
Canal System 2	SIU	4	-19707	25422	50871	122754	-14768	25626	32001	3928	12273	37778	-23974	12591	-12135	28
Start (L. Classic)			70286	115415	140864	212747	75226	115619	121994	93922	102266	127771	66019	102584	77858	
Coyote	Buffer	4	65604	110734	136183	208066	70544	110937	117313	89240	97584	123089	61338	97902	73176	0
Los Muertos	Buffer	4	-4686	40444	65893	137776	254	40647	47023	18950	27294	52799	-8952	27612	2886	16
Crismon	Buffer	4	-19870	25259	50708	122591	-14930	25463	31838	3766	12110	37615	-24137	12428	-12298	28
Scottsdale	Buffer	4	-36889	8240	33689	105572	-31950	8444	14819	-13254	-4909	20596	-41156	-4591	-29317	43
Riverview	Buffer	4	-99466	-54337	-28888	42995	-94526	-54133	-47758	-75830	-67486	-41981	-103733	-67168	-91894	108
Canal System 2	Buffer	4	-175217	-130087	-104638	-32755	-170277	-129884	-123508	-151581	-143237	-117732	-179483	-142919	-167644	137

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1300 Silk 1	1301 Silk 1	1302 Silk 1	1303 Silk 1	1304 Silk 1	1305 Silk 1	1306 Silk 1	1307 Silk 1	1308 Silk 1	1309 Silk 1	1310 Silk 1	1311 Silk 1	1312 Silk 1
Start (L. Classic)			165496	303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742
Coyote	SIU	3	164209	302195	309212	267335	127334	382024	128366	74255	115095	252317	350202	166055	262455
Los Muertos	SIU	3	138592	276577	283594	241717	101716	356407	102748	48637	89477	226700	324584	140437	236837
Crismon	SIU	3	135226	273211	280228	238351	98350	353041	99382	45271	86111	223334	321218	137071	233471
Scottsdale	SIU	3	132407	270393	277409	235533	95531	350222	96564	42453	83293	220515	318400	134253	230653
Riverview	SIU	3	117670	255655	262672	220795	80794	335485	81826	27715	68555	205778	303662	119515	215915
Canal System 2	SIU	3	98002	235987	243004	201127	61126	315817	62158	8047	48887	186110	283994	99847	196247
Start (L. Classic)			165496	303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742
Coyote	Buffer	3	161985	299971	306987	265110	125109	379800	126142	72031	112871	250093	347978	163830	260231
Los Muertos	Buffer	3	109268	247253	254270	212393	72392	327083	73424	19313	60153	197376	295260	111113	207513
Crismon	Buffer	3	97879	235865	242882	201005	61004	315694	62036	7925	48765	185987	283872	99725	196125
Scottsdale	Buffer	3	85115	223101	230117	188240	48239	302930	49272	-4839	36001	173223	271107	86960	183361
Riverview	Buffer	3	38182	176168	183185	141308	1307	255997	2339	-51772	-10932	126290	224175	40028	136428
Canal System 2	Buffer	3	-18630	119355	126372	84495	-55506	199185	-54474	-108585	-67745	69478	167362	-16785	79615
Start (L. Classic)			165496	303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742
Coyote	SIU	4	163780	301766	308783	266906	126905	381595	127937	73826	114666	251888	349773	165626	262026
Los Muertos	SIU	4	129623	267609	274625	232748	92747	347438	93780	39669	80509	217731	315616	131468	227869
Crismon	SIU	4	125135	263121	270137	228260	88259	342950	89292	35181	76021	213243	311128	126980	223381
Scottsdale	SIU	4	121378	259363	266380	224503	84502	339193	85534	31423	72263	209486	307370	123223	219623
Riverview	SIU	4	101727	239713	246729	204852	64851	319542	65884	11773	52613	189835	287720	103572	199973
Canal System 2	SIU	4	75503	213489	220505	178628	38627	293318	39660	-14451	26389	163611	261496	77348	173749
Start (L. Classic)			165496	303482	310499	268622	128621	383311	129653	75542	116382	253604	351489	167342	263742
Coyote	Buffer	4	160815	298800	305817	263940	123939	378630	124971	70860	111701	248923	346807	162660	259060
Los Muertos	Buffer	4	90525	228510	235527	193650	53649	308340	54681	570	41411	178633	276517	92370	188770
Crismon	Buffer	4	75340	213326	220343	178466	38465	293155	39497	-14614	26226	163448	261333	77186	173586
Scottsdale	Buffer	4	58321	196307	203323	161446	21445	276136	22478	-31633	9207	146429	244314	60166	156567
Riverview	Buffer	4	-4256	133730	140747	98870	-41131	213559	-40099	-94210	-53370	83852	181737	-2410	93990
Canal System 2	Buffer	4	-80006	57980	64996	23119	-116882	137809	-115849	-169960	-129120	8102	105986	-78161	18240

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1313 Silk 1	1314 Silk 1	1315 Silk 1	1316 Silk 1	1317 Silk 1	1318 Silk 1	1319 Silk 1	1320 Silk 1	1321 Silk 1	1322 Silk 1	1323 Silk 1	1324 Silk 1	1325 Silk 1	1326 Silk 1
Start (L. Classic)			302611	144006	75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416
Coyote	SIU	3	301324	142719	74609	51967	222150	248485	175643	145805	259790	143751	113098	113085	292569	230129
Los Muertos	SIU	3	275706	117101	48991	26349	196532	222867	150025	120187	234172	118133	87480	87467	266951	204511
Crismon	SIU	3	272340	113735	45625	22983	193166	219501	146659	116821	230806	114767	84114	84101	263585	201145
Scottsdale	SIU	3	269522	110917	42807	20165	190348	216683	143841	114003	227988	111949	81296	81283	260767	198327
Riverview	SIU	3	254784	96179	28069	5427	175610	201945	129103	99265	213250	97211	66558	66545	246029	183589
Canal System 2	SIU	3	235116	76511	8401	-14241	155942	182277	109435	79597	193582	77543	46890	46877	226361	163921
Start (L. Classic)			302611	144006	75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416
Coyote	Buffer	3	299100	140495	72385	49743	219925	246261	173419	143581	257566	141527	110874	110861	290345	227905
Los Muertos	Buffer	3	246382	87777	19668	-2975	167208	193544	120701	90863	204849	88809	58156	58143	237627	175188
Crismon	Buffer	3	234994	76389	8279	-14363	155820	182155	109313	79475	193460	77421	46768	46755	226239	163799
Scottsdale	Buffer	3	222230	63625	-4485	-27128	143055	169391	96549	66711	180696	64657	34004	33991	213475	151035
Riverview	Buffer	3	175297	16692	-51418	-74060	96123	122458	49616	19778	133763	17724	-12929	-12942	166542	104102
Canal System 2	Buffer	3	118484	-40121	-108230	-130873	39310	65646	-7197	-37035	76951	-39089	-69742	-69755	109729	47289
Start (L. Classic)			302611	144006	75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416
Coyote	SIU	4	300895	142290	74180	51538	221721	248056	175214	145376	259361	143322	112669	112656	292140	229700
Los Muertos	SIU	4	266738	108133	40023	17381	187563	213899	141057	111219	225204	109165	78512	78499	257983	195543
Crismon	SIU	4	262250	103645	35535	12893	183075	209411	136569	106731	220716	104677	74024	74011	253495	191055
Scottsdale	SIU	4	258492	99887	31778	9135	179318	205654	132811	102973	216959	100919	70266	70253	249737	187297
Riverview	SIU	4	238842	80237	12127	-10515	159667	186003	113161	83323	197308	81269	50616	50603	230087	167647
Canal System 2	SIU	4	212618	54013	-14097	-36739	133443	159779	86937	57099	171084	55045	24392	24379	203863	141423
Start (L. Classic)			302611	144006	75896	53254	223437	249772	176930	147092	261077	145038	114385	114372	293856	231416
Coyote	Buffer	4	297929	139324	71215	48572	218755	245091	172248	142411	256396	140356	109704	109690	289175	226735
Los Muertos	Buffer	4	227639	69034	925	-21718	148465	174801	101958	72121	186106	70066	39414	39400	218885	156445
Crismon	Buffer	4	212455	53850	-14260	-36902	133281	159616	86774	56936	170921	54882	24229	24216	203700	141260
Scottsdale	Buffer	4	195436	36831	-31279	-53921	116261	142597	69755	39917	153902	37863	7210	7197	186681	124241
Riverview	Buffer	4	132859	-25746	-93856	-116498	53685	80020	7178	-22660	91325	-24714	-55367	-55380	124104	61664
Canal System 2	Buffer	4	57109	-101496	-169606	-192249	-22066	4270	-68572	-98410	15575	-100464	-131117	-131130	48354	-14086

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1327 Silk 1	1328 Silk 1	1329 Silk 1	1330 Silk 1	1331 Silk 1	1332 Silk 1	1333 Silk 1	1334 Silk 1	1335 Silk 1	1336 Silk 1	1337 Silk 1	1338 Silk 1	1339 Silk 1	1340 Silk 1
Start (L. Classic)			120494	67490	111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043
Coyote	SIU	3	119207	66203	109977	186644	162443	193491	255809	143979	69650	168562	165654	57672	159478	95756
Los Muertos	SIU	3	93589	40586	84359	161026	136825	167873	230191	118361	44032	142944	140036	32054	133860	70138
Crismon	SIU	3	90223	37220	80993	157660	133459	164507	226825	114995	40666	139578	136670	28688	130494	66772
Scottsdale	SIU	3	87405	34401	78175	154842	130641	161689	224007	112177	37848	136760	133852	25870	127676	63954
Riverview	SIU	3	72667	19664	63437	140104	115903	146951	209269	97439	23110	122022	119114	11132	112938	49216
Canal System 2	SIU	3	52999	-4	43769	120436	96235	127283	189601	77771	3442	102354	99446	-8536	93270	29548
Start (L. Classic)			120494	67490	111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043
Coyote	Buffer	3	116983	63979	107752	184420	160219	191267	253585	141755	67426	166338	163430	55448	157254	93532
Los Muertos	Buffer	3	64266	11262	55035	131702	107501	138549	200867	89038	14708	113620	110712	2730	104537	40814
Crismon	Buffer	3	52877	-127	43647	120314	96113	127161	189479	77649	3320	102232	99324	-8658	93148	29426
Scottsdale	Buffer	3	40113	-12891	30882	107550	83349	114397	176714	64885	-9444	89468	86559	-21422	80384	16662
Riverview	Buffer	3	-6820	-59824	-16050	60617	36416	67464	129782	17952	-56377	42535	39627	-68355	33451	-30271
Canal System 2	Buffer	3	-63633	-116636	-72863	3804	-20397	10651	72969	-38860	-113190	-14278	-17186	-125168	-23361	-87084
Start (L. Classic)			120494	67490	111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043
Coyote	SIU	4	118778	65774	109548	186215	162014	193062	255380	143550	69221	168133	165225	57243	159049	95327
Los Muertos	SIU	4	84621	31617	75390	152058	127857	158905	221223	109393	35064	133976	131068	23086	124892	61170
Crismon	SIU	4	80133	27129	70902	147570	123369	154417	216735	104905	30576	129488	126580	18598	120404	56682
Scottsdale	SIU	4	76375	23372	67145	143812	119611	150659	212977	101148	26818	125730	122822	14840	116647	52924
Riverview	SIU	4	56725	3721	47494	124162	99961	131009	193327	81497	7168	106080	103172	-4810	96996	33274
Canal System 2	SIU	4	30501	-22503	21270	97938	73737	104785	167103	55273	-19056	79856	76948	-31034	70772	7050
Start (L. Classic)			120494	67490	111264	187931	163730	194778	257096	145266	70937	169849	166941	58959	160765	97043
Coyote	Buffer	4	115813	62809	106582	183249	159048	190096	252414	140585	66255	165167	162259	54278	156084	92362
Los Muertos	Buffer	4	45523	-7481	36292	112959	88758	119806	182124	70295	-4035	94877	91969	-16012	85794	22072
Crismon	Buffer	4	30338	-22666	21108	97775	73574	104622	166940	55110	-19219	79693	76785	-31197	70609	6887
Scottsdale	Buffer	4	13319	-39685	4088	80756	56555	87603	149921	38091	-36238	62674	59766	-48216	53590	-10132
Riverview	Buffer	4	-49258	-102262	-58488	18179	-6022	25026	87344	-24486	-98815	97	-2811	-110793	-8987	-72709
Canal System 2	Buffer	4	-125008	-178012	-134239	-57571	-81772	-50724	11593	-100236	-174565	-75653	-78562	-186543	-84737	-148459

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1341 Silk 1	1342 Silk 1	1343 Silk 1	1344 Silk 1	1345 Silk 1	1346 Silk 1	1347 Silk 1	1348 Silk 1	1349 Silk 1	1350 Silk 1	1351 Silk 1	1352 Silk 1	1353 Silk 1	1354 Silk 1
Start (L. Classic)			62532	132694	123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434
Coyote	SIU	3	61245	131407	122157	118214	124679	136771	60647	114888	175863	68031	93056	96284	183120	180147
Los Muertos	SIU	3	35627	105790	96539	92597	99061	111153	35029	89271	150245	42413	67438	70666	157502	154529
Crismon	SIU	3	32261	102424	93173	89231	95695	107787	31663	85905	146879	39047	64072	67300	154136	151163
Scottsdale	SIU	3	29443	99605	90355	86412	92877	104969	28845	83086	144061	36229	61253	64482	151318	148345
Riverview	SIU	3	14705	84868	75617	71675	78139	90231	14107	68349	129323	21491	46516	49744	136580	133607
Canal System 2	SIU	3	-4963	65200	55949	52007	58471	70563	-5561	48681	109655	1823	26848	30076	116912	113939
Start (L. Classic)			62532	132694	123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434
Coyote	Buffer	3	59021	129183	119933	115990	122455	134547	58423	112664	173639	65807	90831	94060	180896	177923
Los Muertos	Buffer	3	6303	76466	67215	63273	69737	81829	5705	59947	120921	13089	38114	41343	128178	125205
Crismon	Buffer	3	-5085	65077	55827	51884	58349	70441	-5683	48558	109533	1701	26726	29954	116790	113817
Scottsdale	Buffer	3	-17850	52313	43062	39120	45584	57677	-18448	35794	96769	-11063	13961	17190	104026	101053
Riverview	Buffer	3	-64782	5380	-3870	-7813	-1348	10744	-65380	-11139	49836	-57996	-32971	-29743	57093	54120
Canal System 2	Buffer	3	-121595	-51432	-60683	-64625	-58161	-46069	-122193	-67951	-6977	-114809	-89784	-86556	280	-2693
Start (L. Classic)			62532	132694	123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434
Coyote	SIU	4	60816	130978	121728	117785	124250	136342	60218	114459	175434	67602	92627	95855	182691	179718
Los Muertos	SIU	4	26659	96821	87571	83628	90093	102185	26061	80302	141277	33445	58469	61698	148534	145561
Crismon	SIU	4	22171	92333	83083	79140	85605	97697	21573	75814	136789	28957	53981	57210	144046	141073
Scottsdale	SIU	4	18413	88576	79325	75383	81847	93939	17815	72057	133031	25199	50224	53452	140288	137315
Riverview	SIU	4	-1237	68925	59675	55732	62197	74289	-1835	52406	113381	5549	30573	33802	120638	117665
Canal System 2	SIU	4	-27461	42701	33451	29508	35973	48065	-28059	26182	87157	-20675	4349	7578	94414	91441
Start (L. Classic)			62532	132694	123444	119501	125966	138058	61934	116175	177150	69318	94343	97571	184407	181434
Coyote	Buffer	4	57850	128013	118762	114820	121284	133377	57252	111494	172469	64636	89661	92890	179726	176752
Los Muertos	Buffer	4	-12440	57723	48472	44530	50994	63087	-13038	41204	102179	-5654	19371	22600	109436	106462
Crismon	Buffer	4	-27624	42538	33288	29345	35810	47902	-28222	26019	86994	-20838	4187	7415	94251	91278
Scottsdale	Buffer	4	-44643	25519	16269	12326	18791	30883	-45241	9000	69975	-37857	-12833	-9604	77232	74259
Riverview	Buffer	4	-107220	-37058	-46308	-50251	-43786	-31694	-107818	-53577	7398	-100434	-75409	-72181	14655	11682
Canal System 2	Buffer	4	-182971	-112808	-122059	-126001	-119537	-107444	-183569	-129327	-68352	-176184	-151160	-147931	-61095	-64068

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1355 Silk 1	1356 Silk 1	1357 Silk 1	1358 Silk 1	1359 Silk 1	1360 Silk 1	1361 Silk 1	1362 Silk 1	1363 Silk 1	1364 Silk 1	1365 Silk 1	1366 Silk 1	1367 Silk 1	1368 Silk 1
Start (L. Classic)			52788	181369	191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439
Coyote	SIU	3	51501	180082	189997	304922	175485	58619	104552	124955	75779	151757	112021	180301	112983	199152
Los Muertos	SIU	3	25883	154464	164380	279304	149867	33001	78934	99338	50161	126139	86403	154683	87365	173535
Crismon	SIU	3	22517	151098	161014	275938	146501	29635	75568	95972	46795	122773	83037	151317	83999	170169
Scottsdale	SIU	3	19699	148280	158195	273120	143683	26817	72750	93153	43977	119955	80219	148499	81181	167350
Riverview	SIU	3	4961	133542	143458	258382	128945	12079	58012	78416	29239	105217	65481	133761	66443	152613
Canal System 2	SIU	3	-14707	113874	123790	238714	109277	-7589	38344	58748	9571	85549	45813	114093	46775	132945
Start (L. Classic)			52788	181369	191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439
Coyote	Buffer	3	49277	177857	187773	302698	173261	56395	102328	122731	73555	149533	109797	178077	110759	196928
Los Muertos	Buffer	3	-3441	125140	135056	249980	120543	3677	49610	70014	20838	96816	57079	125359	58041	144211
Crismon	Buffer	3	-14829	113752	123667	238592	109155	-7711	38222	58625	9449	85427	45691	113971	46653	132822
Scottsdale	Buffer	3	-27594	100987	110903	225828	96391	-20476	25458	45861	-3315	72663	32927	101206	33888	120058
Riverview	Buffer	3	-74526	54055	63970	178895	49458	-67408	-21475	-1072	-50248	25730	-14006	54274	-13044	73125
Canal System 2	Buffer	3	-131339	-2758	7158	122082	-7355	-124221	-78288	-57884	-107060	-31083	-70819	-2539	-69857	16313
Start (L. Classic)			52788	181369	191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439
Coyote	SIU	4	51072	179653	189568	304493	175056	58190	104123	124526	75350	151328	111592	179872	112554	198723
Los Muertos	SIU	4	16915	145495	155411	270336	140899	24033	69966	90369	41193	117171	77435	145715	78397	164566
Crismon	SIU	4	12427	141007	150923	265848	136411	19545	65478	85881	36705	112683	72947	141227	73909	160078
Scottsdale	SIU	4	8669	137250	147166	262090	132653	15787	61720	82124	32948	108925	69189	137469	70151	156321
Riverview	SIU	4	-10981	117599	127515	242440	113003	-3863	42070	62473	13297	89275	49539	117819	50501	136670
Canal System 2	SIU	4	-37205	91375	101291	216216	86779	-30087	15846	36249	-12927	63051	23315	91595	24277	110446
Start (L. Classic)			52788	181369	191284	306209	176772	59906	105839	126242	77066	153044	113308	181588	114270	200439
Coyote	Buffer	4	48106	176687	186603	301527	172091	55224	101157	121561	72385	148363	108626	176906	109588	195758
Los Muertos	Buffer	4	-22184	106397	116313	231237	101801	-15066	30867	51271	2095	78073	38336	106616	39298	125468
Crismon	Buffer	4	-37368	91213	101128	216053	86616	-30250	15683	36086	-13090	62888	23152	91432	24114	110283
Scottsdale	Buffer	4	-54387	74193	84109	199034	69597	-47269	-1336	19067	-30109	45869	6133	74413	7095	93264
Riverview	Buffer	4	-116964	11617	21532	136457	7020	-109846	-63913	-43510	-92686	-16708	-56444	11836	-55482	30687
Canal System 2	Buffer	4	-192715	-64134	-54218	60707	-68730	-185597	-139663	-119260	-168436	-92458	-132194	-63915	-131233	-45063

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1369 Silk 1	1370 Silk 1	1371 Silk 1	1372 Silk 1	1373 Silk 1	1374 Silk 1	1375 Silk 1	1376 Silk 1	1377 Silk 1	1378 Silk 1	1379 Silk 1	1380 Silk 1	1381 Silk 1	1382 Silk 1	1383 Silk 1
Start (L. Classic)			85761	221632	94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973
Coyote	SIU	3	84474	220345	93333	144092	210054	216412	111622	79452	133156	101761	69510	290293	138496	158151	138686
Los Muertos	SIU	3	58856	194727	67715	118474	184436	190794	86004	53835	107538	76143	43892	264675	112878	132533	113068
Crismon	SIU	3	55490	191361	64349	115108	181070	187428	82638	50469	104172	72777	40526	261309	109512	129167	109702
Scottsdale	SIU	3	52671	188543	61531	112289	178252	184610	79820	47650	101353	69958	37708	258491	106694	126349	106884
Riverview	SIU	3	37934	173805	46793	97552	163514	169872	65082	32913	86616	55221	22970	243753	91956	111611	92146
Canal System 2	SIU	3	18266	154137	27125	77884	143846	150204	45414	13245	66948	35553	3302	224085	72288	91943	72478
Start (L. Classic)			85761	221632	94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973
Coyote	Buffer	3	82249	218121	91109	141867	207830	214188	109398	77228	130931	99536	67286	288069	136271	155927	136462
Los Muertos	Buffer	3	29532	165403	38391	89150	155112	161470	56680	24511	78214	46819	14569	235351	83554	103209	83744
Crismon	Buffer	3	18144	154015	27003	77762	143724	150082	45292	13122	66826	35431	3180	223963	72166	91821	72356
Scottsdale	Buffer	3	5379	141250	14238	64997	130959	137317	32528	358	54061	22666	-9584	211199	59401	79057	59592
Riverview	Buffer	3	-41553	94318	-32694	18065	84027	90385	-14405	-46575	7129	-24266	-56517	164266	12469	32124	12659
Canal System 2	Buffer	3	-98366	37505	-89507	-38748	27214	33572	-71218	-103387	-49684	-81079	-113329	107453	-44344	-24689	-44154
Start (L. Classic)			85761	221632	94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973
Coyote	SIU	4	84045	219916	92904	143663	209625	215983	111193	79023	132727	101332	69081	289864	138067	157722	138257
Los Muertos	SIU	4	49887	185759	58747	109505	175468	181826	77036	44866	98569	67174	34924	255707	103909	123565	104100
Crismon	SIU	4	45399	181271	54259	105017	170980	177338	72548	40378	94081	62686	30436	251219	99421	119077	99612
Scottsdale	SIU	4	41642	177513	50501	101260	167222	173580	68790	36621	90324	58929	26679	247461	95664	115319	95854
Riverview	SIU	4	21991	157863	30851	81609	147572	153930	49140	16970	70673	39278	7028	227811	76013	95669	76204
Canal System 2	SIU	4	-4233	131639	4627	55385	121348	127706	22916	-9254	44449	13054	-19196	201587	49789	69445	49980
Start (L. Classic)			85761	221632	94620	145379	211341	217699	112909	80739	134443	103048	70797	291580	139783	159438	139973
Coyote	Buffer	4	81079	216950	89938	140697	206659	213017	108227	76058	129761	98366	66116	286898	135101	154757	135291
Los Muertos	Buffer	4	10789	146660	19648	70407	136369	142727	37937	5768	59471	28076	-4174	216608	64811	84467	65001
Crismon	Buffer	4	-4395	131476	4464	55223	121185	127543	22753	-9417	44287	12892	-19359	201424	49627	69282	49817
Scottsdale	Buffer	4	-21415	114457	-12555	38203	104166	110524	5734	-26436	27267	-4128	-36378	184405	32607	52263	32798
Riverview	Buffer	4	-83991	51880	-75132	-24373	41589	47947	-56843	-89013	-35309	-66704	-98955	121828	-29969	-10314	-29779
Canal System 2	Buffer	4	-159742	-23871	-150883	-100124	-34162	-27804	-132593	-164763	-111060	-142455	-174705	46078	-105720	-86064	-105529

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1384 Silk 1	1385 Silk 1	1386 Silk 1	1387 Silk 1	1388 Silk 1	1389 Silk 1	1390 Silk 1	1391 Silk 1	1392 Silk 1	1393 Silk 1	1394 Silk 1	1395 Silk 1	1396 Silk 1	1397 Silk 1
Start (L. Classic)			141075	142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329
Coyote	SIU	3	139788	140857	150204	121436	112518	99777	88249	111267	189829	102072	171001	106092	150661	90042
Los Muertos	SIU	3	114171	115239	124586	95818	86900	74159	62631	85649	164211	76454	145383	80474	125043	64424
Crismon	SIU	3	110805	111873	121220	92452	83534	70793	59265	82283	160845	73088	142017	77108	121677	61058
Scottsdale	SIU	3	107986	109055	118402	89634	80716	67975	56447	79465	158027	70270	139199	74290	118859	58240
Riverview	SIU	3	93249	94317	103664	74896	65978	53237	41709	64727	143289	55532	124461	59552	104121	43502
Canal System 2	SIU	3	73581	74649	83996	55228	46310	33569	22041	45059	123621	35864	104793	39884	84453	23834
Start (L. Classic)			141075	142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329
Coyote	Buffer	3	137564	138633	147980	119212	110293	97552	86025	109043	187605	99848	168777	103868	148437	87818
Los Muertos	Buffer	3	84847	85915	95262	66495	57576	44835	33307	56325	134887	47130	116059	51151	95719	35100
Crismon	Buffer	3	73458	74527	83874	55106	46188	33447	21919	44937	123499	35742	104671	39762	84331	23712
Scottsdale	Buffer	3	60694	61762	71110	42342	33423	20682	9155	32172	110735	22978	91907	26998	71567	10947
Riverview	Buffer	3	13761	14830	24177	-4591	-13509	-26250	-37778	-14760	63802	-23955	44974	-19935	24634	-35985
Canal System 2	Buffer	3	-43051	-41983	-32636	-61404	-70322	-83063	-94591	-71573	6989	-80768	-11839	-76748	-32179	-92798
Start (L. Classic)			141075	142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329
Coyote	SIU	4	139359	140428	149775	121007	112089	99348	87820	110838	189400	101643	170572	105663	150232	89613
Los Muertos	SIU	4	105202	106271	115618	86850	77931	65190	53663	76681	155243	67486	136415	71506	116075	55456
Crismon	SIU	4	100714	101783	111130	82362	73443	60702	49175	72193	150755	62998	131927	67018	111587	50968
Scottsdale	SIU	4	96957	98025	107372	78604	69686	56945	45417	68435	146997	59240	128169	63260	107829	47210
Riverview	SIU	4	77306	78375	87722	58954	50035	37294	25767	48785	127347	39590	108519	43610	88179	27560
Canal System 2	SIU	4	51082	52151	61498	32730	23811	11070	-457	22561	101123	13366	82295	17386	61955	1336
Start (L. Classic)			141075	142144	151491	122723	113805	101064	89536	112554	191116	103359	172288	107379	151948	91329
Coyote	Buffer	4	136394	137462	146809	118042	109123	96382	84854	107872	186434	98678	167606	102698	147266	86647
Los Muertos	Buffer	4	66104	67172	76519	47752	38833	26092	14564	37582	116144	28388	97316	32408	76976	16357
Crismon	Buffer	4	50919	51988	61335	32567	23649	10908	-620	22398	100960	13203	82132	17223	61792	1173
Scottsdale	Buffer	4	33900	34969	44316	15548	6629	-6112	-17639	5379	83941	-3816	65113	204	44773	-15846
Riverview	Buffer	4	-28677	-27608	-18261	-47029	-55947	-68688	-80216	-57198	21364	-66393	2536	-62373	-17804	-78423
Canal System 2	Buffer	4	-104427	-103359	-94011	-122779	-131698	-144439	-155966	-132949	-54386	-142143	-73214	-138123	-93554	-154174

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1398 Silk 1	1399 Silk 1	1400 Silk 1	1401 Silk 1	1402 Silk 1	1403 Silk 1	1404 Silk 1	1405 Silk 1	1406 Silk 1	1407 Silk 1	1408 Silk 1	1409 Silk 1	1410 Silk 1	1411 Silk 1	1412 Silk 1
Start (L. Classic)			124094	107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	SIU	3	122807	105717	131395	130517	110309	116549	236298	116729	156385	62370	138548	223610	72341	84863	159964
Los Muertos	SIU	3	97189	80099	105777	104899	84691	90931	210680	91111	130767	36752	112930	197992	46723	59245	134346
Crismon	SIU	3	93823	76733	102411	101533	81325	87565	207314	87745	127401	33386	109564	194626	43357	55879	130980
Scottsdale	SIU	3	91005	73915	99593	98715	78507	84747	204496	84927	124583	30568	106745	191808	40539	53061	128161
Riverview	SIU	3	76267	59177	84855	83977	63769	70009	189758	70189	109845	15830	92008	177070	25801	38323	113424
Canal System 2	SIU	3	56599	39509	65187	64309	44101	50341	170090	50521	90177	-3838	72340	157402	6133	18655	93756
Start (L. Classic)			124094	107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	Buffer	3	120582	103493	129171	128293	108085	114324	234074	114505	154161	60146	136323	221386	70117	82638	157739
Los Muertos	Buffer	3	67865	50775	76453	75575	55367	61607	181356	61787	101443	7429	83606	168668	17400	29921	105022
Crismon	Buffer	3	56477	39387	65065	64187	43979	50219	169968	50399	90055	-3960	72218	157280	6011	18533	93634
Scottsdale	Buffer	3	43712	26623	52301	51423	31215	37454	157204	37635	77291	-16724	59453	144516	-6753	5768	80869
Riverview	Buffer	3	-3220	-20310	5368	4490	-15718	-9478	110271	-9298	30358	-63657	12521	97583	-53686	-41164	33937
Canal System 2	Buffer	3	-60033	-77123	-51445	-52323	-72531	-66291	53458	-66111	-26455	-120470	-44292	40770	-110498	-97977	-22876
Start (L. Classic)			124094	107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	SIU	4	122378	105288	130966	130088	109880	116120	235869	116300	155956	61941	138119	223181	71912	84434	159535
Los Muertos	SIU	4	88220	71131	96809	95931	75723	81962	201712	82143	121799	27784	103961	189024	37755	50276	125377
Crismon	SIU	4	83732	66643	92321	91443	71235	77474	197224	77655	117311	23296	99473	184536	33267	45788	120889
Scottsdale	SIU	4	79975	62885	88563	87685	67477	73717	193466	73897	113553	19538	95716	180778	29510	42031	117132
Riverview	SIU	4	60324	43235	68913	68035	47827	54066	173816	54247	93903	-112	76065	161128	9859	22380	97481
Canal System 2	SIU	4	34100	17011	42689	41811	21603	27842	147592	28023	67679	-26336	49841	134904	-16365	-3844	71257
Start (L. Classic)			124094	107004	132682	131804	111596	117836	237585	118016	157672	63657	139835	224897	73628	86150	161251
Coyote	Buffer	4	119412	102322	128000	127123	106914	113154	232904	113334	152991	58976	135153	220215	68947	81468	156569
Los Muertos	Buffer	4	49122	32032	57710	56833	36624	42864	162614	43044	82701	-11314	64863	149925	-1343	11178	86279
Crismon	Buffer	4	33938	16848	42526	41648	21440	27680	147429	27860	67516	-26499	49679	134741	-16528	-4006	71095
Scottsdale	Buffer	4	16918	-171	25507	24629	4421	10660	130410	10841	50497	-43518	32659	117722	-33547	-21026	54075
Riverview	Buffer	4	-45658	-62748	-37070	-37948	-58156	-51916	67833	-51736	-12080	-106095	-29917	55145	-96124	-83602	-8501
Canal System 2	Buffer	4	-121409	-138498	-112820	-113698	-133906	-127667	-7917	-127486	-87830	-181845	-105668	-20605	-171874	-159353	-84252

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1413 Silk 1	1414 Silk 1	1415 Silk 1	1416 Silk 1	1417 Silk 1	1418 Silk 1	1419 Silk 1	1420 Silk 1	1421 Silk 1	1422 Silk 1	1423 Silk 1	1424 Silk 1	1425 Silk 1	1426 Silk 1
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	SIU	3	74957	239091	82915	112661	165102	106444	110986	174900	59984	149537	65861	150425	135341	212468
Los Muertos	SIU	3	49339	213473	57298	87044	139484	80826	85368	149282	34366	123919	40243	124808	109723	186850
Crismon	SIU	3	45973	210107	53932	83678	136118	77460	82002	145916	31000	120553	36877	121442	106357	183484
Scottsdale	SIU	3	43155	207289	51113	80859	133299	74642	79184	143098	28182	117735	34059	118623	103539	180666
Riverview	SIU	3	28417	192551	36376	66122	118562	59904	64446	128360	13444	102997	19321	103886	88801	165928
Canal System 2	SIU	3	8749	172883	16708	46454	98894	40236	44778	108692	-6224	83329	-347	84218	69133	146260
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	Buffer	3	72733	236867	80691	110437	162877	104220	108762	172676	57760	147313	63637	148201	133117	210244
Los Muertos	Buffer	3	20015	184149	27974	57720	110160	51502	56044	119958	5043	94596	10919	95484	80399	157526
Crismon	Buffer	3	8627	172761	16585	46331	98772	40114	44656	108570	-6346	83207	-469	84095	69011	146138
Scottsdale	Buffer	3	-4138	159997	3821	33567	86007	27350	31891	95806	-19110	70443	-13233	71331	56246	133373
Riverview	Buffer	3	-51070	113064	-43112	-13366	39075	-19583	-15041	48873	-66043	23510	-60166	24398	9314	86441
Canal System 2	Buffer	3	-107883	56251	-99924	-70178	-17738	-76396	-71854	-7940	-122856	-33303	-116979	-32414	-47499	29628
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	SIU	4	74528	238662	82486	112232	164673	106015	110557	174471	59555	149108	65432	149996	134912	212039
Los Muertos	SIU	4	40371	204505	48329	78075	130515	71858	76400	140314	25398	114951	31275	115839	100755	177882
Crismon	SIU	4	35883	200017	43841	73587	126027	67370	71912	135826	20910	110463	26787	111351	96267	173394
Scottsdale	SIU	4	32125	196259	40084	69830	122270	63612	68154	132068	17152	106705	23029	107594	92509	169636
Riverview	SIU	4	12475	176609	20433	50179	102619	43962	48504	112418	-2498	87055	3379	87943	72859	149986
Canal System 2	SIU	4	-13749	150385	-5791	23955	76395	17738	22280	86194	-28722	60831	-22845	61719	46635	123762
Start (L. Classic)			76244	240378	84202	113948	166389	107731	112273	176187	61271	150824	67148	151712	136628	213755
Coyote	Buffer	4	71562	235696	79521	109267	161707	103049	107591	171505	56590	146143	62466	147031	131946	209073
Los Muertos	Buffer	4	1272	165406	9231	38977	91417	32759	37301	101215	-13700	75853	-7824	76741	61656	138783
Crismon	Buffer	4	-13912	150222	-5954	23792	76233	17575	22117	86031	-28885	60668	-23008	61556	46472	123599
Scottsdale	Buffer	4	-30931	133203	-22973	6773	59213	556	5098	69012	-45904	43649	-40027	44537	29453	106580
Riverview	Buffer	4	-93508	70626	-85550	-55804	-3363	-62021	-57479	6435	-108481	-18928	-102604	-18040	-33124	44003
Canal System 2	Buffer	4	-169259	-5124	-161300	-131554	-79114	-137771	-133230	-69315	-184231	-94678	-178354	-93790	-108875	-31748

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1427 Silk 1	1428 Silk 1	1429 Silk 1	1430 Silk 1	1431 Silk 1	1432 Silk 1	1433 Silk 1	1434 Silk 1	1435 Silk 1	1436 Silk 1	1437 Silk 1	1438 Silk 1	1439 Silk 1	1440 Silk 1
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	SIU	3	210384	241133	132577	131215	175698	118040	225962	172543	79751	89403	98824	69116	114320	139811
Los Muertos	SIU	3	184766	215515	106959	105597	150080	92422	200344	146925	54133	63785	73207	43498	88702	114193
Crismon	SIU	3	181400	212149	103593	102231	146714	89056	196978	143559	50767	60419	69841	40132	85336	110827
Scottsdale	SIU	3	178582	209331	100775	99413	143896	86238	194160	140741	47949	57600	67022	37313	82518	108009
Riverview	SIU	3	163844	194593	86037	84675	129158	71500	179422	126003	33211	42863	52285	22576	67780	93271
Canal System 2	SIU	3	144176	174925	66369	65007	109490	51832	159754	106335	13543	23195	32617	2908	48112	73603
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	Buffer	3	208160	238908	130353	128991	173474	115816	223738	170318	77527	87178	96600	66891	112096	137587
Los Muertos	Buffer	3	155442	186191	77635	76274	120756	63099	171020	117601	24809	34461	43883	14174	59378	84869
Crismon	Buffer	3	144054	174803	66247	64885	109368	51710	159632	106213	13421	23073	32494	2786	47990	73481
Scottsdale	Buffer	3	131289	162038	53483	52121	96604	38946	146867	93448	657	10308	19730	-9979	35226	60717
Riverview	Buffer	3	84357	115106	6550	5188	49671	-7987	99935	46516	-46276	-36624	-27203	-56911	-11707	13784
Canal System 2	Buffer	3	27544	58293	-50263	-51625	-7142	-64799	43122	-10297	-103089	-93437	-84015	-113724	-68520	-43029
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	SIU	4	209955	240704	132148	130786	175269	117611	225533	172114	79322	88974	98395	68687	113891	139382
Los Muertos	SIU	4	175798	206546	97991	96629	141112	83454	191376	137956	45165	54816	64238	34529	79734	105225
Crismon	SIU	4	171310	202058	93503	92141	136624	78966	186888	133468	40677	50328	59750	30041	75246	100737
Scottsdale	SIU	4	167552	198301	89745	88383	132866	75209	183130	129711	36919	46571	55993	26284	71488	96979
Riverview	SIU	4	147902	178650	70095	68733	113216	55558	163480	110060	17269	26920	36342	6633	51838	77329
Canal System 2	SIU	4	121678	152426	43871	42509	86992	29334	137256	83836	-8955	696	10118	-19591	25614	51105
Start (L. Classic)			211671	242420	133864	132502	176985	119327	227249	173830	81038	90690	100111	70403	115607	141098
Coyote	Buffer	4	206989	237738	129182	127821	172303	114646	222567	169148	76357	86008	95430	65721	110925	136417
Los Muertos	Buffer	4	136699	167448	58892	57531	102013	44356	152277	98858	6067	15718	25140	-4569	40635	66127
Crismon	Buffer	4	121515	152264	43708	42346	86829	29171	137093	83674	-9118	534	9955	-19753	25451	50942
Scottsdale	Buffer	4	104496	135244	26689	25327	69810	12152	120074	66654	-26137	-16486	-7064	-36773	8432	33923
Riverview	Buffer	4	41919	72668	-35888	-37250	7233	-50425	57497	4078	-88714	-79062	-69641	-99349	-54145	-28654
Canal System 2	Buffer	4	-33832	-3083	-111638	-113000	-68517	-126175	-18254	-71673	-164464	-154813	-145391	-175100	-129895	-104404

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1441 Silk 1	1442 Silk 1	1443 Silk 1	1444 Silk 1	1445 Silk 1	1446 Silk 1	1447 Silk 1	1448 Silk 1	1449 Silk 1	1450 Silk 1	Total Deficits	1300 Plant 2	1301 Plant 2
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	SIU	3	211813	74064	114524	120910	92791	101149	126696	64842	101467	76700	0	59587	110343
Los Muertos	SIU	3	186196	48446	88906	95292	67173	75531	101078	39224	75849	51082	0	33970	84725
Crismon	SIU	3	182830	45080	85540	91926	63807	72165	97712	35858	72483	47716	0	30604	81359
Scottsdale	SIU	3	180011	42261	82722	89108	60989	69347	94894	33040	69665	44898	0	27785	78540
Riverview	SIU	3	165274	27524	67984	74370	46251	54609	80156	18302	54927	30160	0	13048	63803
Canal System 2	SIU	3	145606	7856	48316	54702	26583	34941	60488	-1366	35259	10492	11	-6620	44135
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	Buffer	3	209589	71839	112300	118686	90566	98925	124472	62618	99243	74476	0	57363	108118
Los Muertos	Buffer	3	156872	19122	59582	65968	37849	46207	71754	9900	46525	21759	2	4646	55401
Crismon	Buffer	3	145483	7734	48194	54580	26461	34819	60366	-1488	35137	10370	11	-6743	44013
Scottsdale	Buffer	3	132719	-5031	35429	41815	13696	22054	47602	-14253	22373	-2394	22	-19507	31248
Riverview	Buffer	3	85786	-51963	-11503	-5117	-33236	-24878	669	-61185	-24560	-49327	71	-66440	-15684
Canal System 2	Buffer	3	28974	-108776	-68316	-61930	-90049	-81691	-56144	-117998	-81373	-106139	118	-123252	-72497
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	SIU	4	211384	73635	114095	120481	92362	100720	126267	64413	101038	76271	0	59158	109914
Los Muertos	SIU	4	177227	39477	79938	86324	58204	66563	92110	30256	66881	42114	0	25001	75756
Crismon	SIU	4	172739	34989	75450	81836	53716	62075	87622	25768	62393	37626	0	20513	71268
Scottsdale	SIU	4	168982	31232	71692	78078	49959	58317	83864	22010	58635	33869	0	16756	67511
Riverview	SIU	4	149331	11581	52042	58428	30308	38667	64214	2360	38985	14218	8	-2895	47860
Canal System 2	SIU	4	123107	-14643	25818	32204	4084	12443	37990	-23864	12761	-12006	28	-29119	21636
Start (L. Classic)			213100	75351	115811	122197	94078	102436	127983	66129	102754	77987		60874	111630
Coyote	Buffer	4	208419	70669	111129	117515	89396	97754	123301	61447	98073	73306	0	56193	106948
Los Muertos	Buffer	4	138129	379	40839	47225	19106	27464	53011	-8843	27783	3016	16	-14097	36658
Crismon	Buffer	4	122944	-14805	25655	32041	3922	12280	37827	-24027	12598	-12169	28	-29282	21474
Scottsdale	Buffer	4	105925	-31825	8636	15022	-13098	-4739	20808	-41046	-4421	-29188	43	-46301	4454
Riverview	Buffer	4	43348	-94401	-53941	-47555	-75674	-67316	-41769	-103623	-66998	-91765	107	-108878	-58122
Canal System 2	Buffer	4	-32402	-170152	-129692	-123306	-151425	-143067	-117519	-179374	-142748	-167515	137	-184628	-133873

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1302 Plant 2	1303 Plant 2	1304 Plant 2	1305 Plant 2	1306 Plant 2	1307 Plant 2	1308 Plant 2	1309 Plant 2	1310 Plant 2	1311 Plant 2	1312 Plant 2	1313 Plant 2	1314 Plant 2	1315 Plant 2
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	SIU	3	112924	97520	46023	139706	46403	26500	41522	91996	128001	60266	95725	110022	51683	26630
Los Muertos	SIU	3	87306	71902	20406	114088	20785	882	15904	66378	102383	34648	70107	84404	26065	1012
Crismon	SIU	3	83940	68536	17040	110722	17419	-2484	12538	63012	99017	31282	66741	81038	22699	-2354
Scottsdale	SIU	3	81121	65718	14221	107904	14601	-5303	9720	60194	96199	28464	63923	78220	19881	-5172
Riverview	SIU	3	66384	50980	-516	93166	-137	-20040	-5018	45456	81461	13726	49185	63482	5143	-19910
Canal System 2	SIU	3	46716	31312	-20184	73498	-19805	-39708	-24686	25788	61793	-5942	29517	43814	-14525	-39578
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	Buffer	3	110699	95296	43799	137482	44179	24275	39298	89772	125777	58042	93501	107798	49458	24406
Los Muertos	Buffer	3	57982	42578	-8918	84765	-8539	-28442	-13420	37054	73059	5324	40783	55081	-3259	-28312
Crismon	Buffer	3	46594	31190	-20307	73376	-19927	-39830	-24808	25666	61671	-6064	29395	43692	-14647	-39700
Scottsdale	Buffer	3	33829	18426	-33071	60612	-32691	-52595	-37573	12902	48907	-18828	16631	30928	-27412	-52464
Riverview	Buffer	3	-13103	-28507	-80004	13679	-79624	-99527	-84505	-34031	1974	-65761	-30302	-16005	-74344	-99397
Canal System 2	Buffer	3	-69916	-85320	-136816	-43134	-136437	-156340	-141318	-90844	-54839	-122574	-87115	-72818	-131157	-156210
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	SIU	4	112495	97091	45594	139277	45974	26071	41093	91567	127572	59837	95296	109593	51254	26201
Los Muertos	SIU	4	78337	62934	11437	105120	11817	-8087	6936	57410	93415	25680	61139	75436	17096	-7956
Crismon	SIU	4	73849	58446	6949	100632	7329	-12575	2448	52922	88927	21192	56651	70948	12608	-12444
Scottsdale	SIU	4	70092	54688	3192	96874	3571	-16332	-1310	49164	85169	17434	52893	67190	8851	-16202
Riverview	SIU	4	50441	35038	-16459	77224	-16079	-35983	-20960	29514	65519	-2216	33243	47540	-10800	-35852
Canal System 2	SIU	4	24217	8814	-42683	51000	-42303	-62207	-47184	3290	39295	-28440	7019	21316	-37024	-62076
Start (L. Classic)			114211	98807	47310	140993	47690	27787	42809	93283	129288	61553	97012	111309	52970	27917
Coyote	Buffer	4	109529	94125	42629	136312	43009	23105	38127	88602	124606	56872	92330	106628	48288	23235
Los Muertos	Buffer	4	39239	23835	-27661	66022	-27281	-47185	-32163	18312	54316	-13418	22040	36338	-22002	-47055
Crismon	Buffer	4	24055	8651	-42846	50837	-42466	-62369	-47347	3127	39132	-28603	6856	21153	-37186	-62239
Scottsdale	Buffer	4	7035	-8368	-59865	33818	-59485	-79389	-64366	-13892	22113	-45622	-10163	4134	-54206	-79258
Riverview	Buffer	4	-55541	-70945	-122442	-28759	-122062	-141965	-126943	-76469	-40464	-108199	-72740	-58443	-116782	-141835
Canal System 2	Buffer	4	-131292	-146695	-198192	-104509	-197812	-217716	-202694	-152219	-116214	-183949	-148490	-134193	-192533	-217585

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1316 Plant 2	1317 Plant 2	1318 Plant 2	1319 Plant 2	1320 Plant 2	1321 Plant 2	1322 Plant 2	1323 Plant 2	1324 Plant 2	1325 Plant 2	1326 Plant 2	1327 Plant 2	1328 Plant 2	1329 Plant 2
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	SIU	3	18301	80900	90587	63793	52818	94745	52062	40787	40782	106802	83835	43034	23538	39639
Los Muertos	SIU	3	-7317	55282	64969	38175	27200	69127	26444	15169	15164	81184	58217	17416	-2080	14021
Crismon	SIU	3	-10683	51916	61603	34809	23834	65761	23078	11803	11798	77818	54851	14050	-5446	10655
Scottsdale	SIU	3	-13501	49097	58785	31991	21016	62943	20260	8985	8980	75000	52033	11232	-8264	7837
Riverview	SIU	3	-28239	34360	44047	17253	6278	48205	5522	-5753	-5758	60262	37295	-3506	-23002	-6901
Canal System 2	SIU	3	-47907	14692	24379	-2415	-13390	28537	-14146	-25421	-25426	40594	17627	-23174	-42670	-26569
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	Buffer	3	16077	78675	88362	61569	50594	92521	49838	38563	38558	104578	81610	40810	21314	37415
Los Muertos	Buffer	3	-36640	25958	35645	8851	-2124	39803	-2879	-14154	-14159	51860	28893	-11907	-31404	-15303
Crismon	Buffer	3	-48029	14570	24257	-2537	-13512	28415	-14268	-25543	-25548	40472	17505	-23296	-42792	-26691
Scottsdale	Buffer	3	-60793	1805	11492	-15301	-26277	15651	-27032	-38307	-38312	27708	4740	-36060	-55556	-39455
Riverview	Buffer	3	-107726	-45127	-35440	-62234	-73209	-31282	-73965	-85240	-85245	-19225	-42192	-82993	-102489	-86388
Canal System 2	Buffer	3	-164538	-101940	-92253	-119047	-130022	-88095	-130778	-142053	-142057	-76038	-99005	-139805	-159302	-143201
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	SIU	4	17872	80471	90158	63364	52389	94316	51633	40358	40353	106373	83406	42605	23109	39210
Los Muertos	SIU	4	-16285	46313	56000	29207	18232	60159	17476	6201	6196	72216	49248	8448	-11048	5053
Crismon	SIU	4	-20773	41825	51512	24719	13744	55671	12988	1713	1708	67728	44760	3960	-15536	565
Scottsdale	SIU	4	-24530	38068	47755	20961	9986	51913	9230	-2045	-2049	63970	41003	203	-19294	-3193
Riverview	SIU	4	-44181	18417	28104	1311	-9664	32263	-10420	-21695	-21700	44320	21352	-19448	-38944	-22843
Canal System 2	SIU	4	-70405	-7807	1880	-24913	-35888	6039	-36644	-47919	-47924	18096	-4872	-45672	-65168	-49067
Start (L. Classic)			19588	82187	91874	65080	54105	96032	53349	42074	42069	108089	85122	44321	24825	40926
Coyote	Buffer	4	14907	77505	87192	60398	49423	91350	48668	37393	37388	103407	80440	39640	20143	36244
Los Muertos	Buffer	4	-55383	7215	16902	-9892	-20867	21060	-21622	-32897	-32902	33117	10150	-30650	-50147	-34046
Crismon	Buffer	4	-70568	-7969	1718	-25076	-36051	5876	-36807	-48082	-48087	17933	-5034	-45835	-65331	-49230
Scottsdale	Buffer	4	-87587	-24989	-15302	-42095	-53070	-11143	-53826	-65101	-65106	914	-22054	-62854	-82350	-66249
Riverview	Buffer	4	-150164	-87565	-77878	-104672	-115647	-73720	-116403	-127678	-127683	-61663	-84630	-125431	-144927	-128826
Canal System 2	Buffer	4	-225914	-163316	-153629	-180422	-191398	-149470	-192153	-203428	-203433	-137413	-160381	-201181	-220677	-204576

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1330 Plant 2	1331 Plant 2	1332 Plant 2	1333 Plant 2	1334 Plant 2	1335 Plant 2	1336 Plant 2	1337 Plant 2	1338 Plant 2	1339 Plant 2	1340 Plant 2	1341 Plant 2	1342 Plant 2	1343 Plant 2
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	SIU	3	67840	58938	70358	93280	52146	24806	61188	60119	20400	57847	34408	21714	47522	44119
Los Muertos	SIU	3	42222	33320	44740	67662	26528	-812	35571	34501	-5218	32229	8790	-3904	21904	18501
Crismon	SIU	3	38856	29954	41374	64296	23162	-4178	32205	31135	-8584	28863	5424	-7270	18538	15135
Scottsdale	SIU	3	36037	27136	38556	61478	20344	-6996	29386	28317	-11402	26045	2606	-10088	15720	12317
Riverview	SIU	3	21300	12398	23818	46740	5606	-21734	14649	13579	-26140	11307	-12132	-24826	982	-2421
Canal System 2	SIU	3	1632	-7270	4150	27072	-14062	-41402	-5019	-6089	-45808	-8361	-31800	-44494	-18686	-22089
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	Buffer	3	65615	56714	68134	91056	49922	22582	58964	57895	18176	55623	32184	19490	45298	41895
Los Muertos	Buffer	3	12898	3996	15416	38339	-2795	-30136	6247	5177	-34542	2906	-20533	-33228	-7420	-10822
Crismon	Buffer	3	1510	-7392	4028	26950	-14184	-41524	-5142	-6211	-45930	-8483	-31922	-44616	-18808	-22211
Scottsdale	Buffer	3	-11255	-20157	-8736	14186	-26948	-54289	-17906	-18976	-58694	-21247	-44686	-57380	-31572	-34975
Riverview	Buffer	3	-58187	-67089	-55669	-32747	-73881	-101221	-64839	-65908	-105627	-68180	-91619	-104313	-78505	-81908
Canal System 2	Buffer	3	-115000	-123902	-112482	-89559	-130694	-158034	-121651	-122721	-162440	-124993	-148431	-161126	-135318	-138721
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	SIU	4	67411	58509	69929	92851	51717	24377	60759	59690	19971	57418	33979	21285	47093	43690
Los Muertos	SIU	4	33253	24352	35772	58694	17560	-9780	26602	25533	-14186	23261	-178	-12872	12936	9533
Crismon	SIU	4	28765	19864	31284	54206	13072	-14268	22114	21045	-18674	18773	-4666	-17360	8448	5045
Scottsdale	SIU	4	25008	16106	27526	50449	9314	-18026	18357	17287	-22432	15015	-8423	-21118	4690	1287
Riverview	SIU	4	5357	-3544	7876	30798	-10336	-37676	-1294	-2363	-42082	-4635	-28074	-40768	-14960	-18363
Canal System 2	SIU	4	-20867	-29768	-18348	4574	-36560	-63900	-27518	-28587	-68306	-30859	-54298	-66992	-41184	-44587
Start (L. Classic)			69127	60225	71645	94567	53433	26093	62475	61406	21687	59134	35695	23001	48809	45406
Coyote	Buffer	4	64445	55543	66963	89886	48752	21411	57794	56724	17005	54453	31014	18319	44127	40725
Los Muertos	Buffer	4	-5845	-14747	-3327	19596	-21538	-48879	-12496	-13566	-53285	-15837	-39276	-51971	-26163	-29565
Crismon	Buffer	4	-21029	-29931	-18511	4411	-36723	-64063	-27681	-28750	-68469	-31022	-54461	-67155	-41347	-44750
Scottsdale	Buffer	4	-38049	-46950	-35530	-12608	-53742	-81082	-44700	-45769	-85488	-48041	-71480	-84174	-58366	-61769
Riverview	Buffer	4	-100625	-109527	-98107	-75185	-116319	-143659	-107277	-108346	-148065	-110618	-134057	-146751	-120943	-124346
Canal System 2	Buffer	4	-176376	-185278	-173857	-150935	-192069	-219410	-183027	-184097	-223815	-186368	-209807	-222501	-196693	-200096

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1344 Plant 2	1345 Plant 2	1346 Plant 2	1347 Plant 2	1348 Plant 2	1349 Plant 2	1350 Plant 2	1351 Plant 2	1352 Plant 2	1353 Plant 2	1354 Plant 2	1355 Plant 2	1356 Plant 2	1357 Plant 2
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	SIU	3	42669	45047	49495	21494	41446	63874	24210	33415	34603	66543	65450	18130	65426	69073
Los Muertos	SIU	3	17051	19429	23877	-4124	15828	38256	-1408	7797	8985	40925	39832	-7488	39808	43455
Crismon	SIU	3	13685	16063	20511	-7490	12462	34890	-4774	4431	5619	37559	36466	-10854	36442	40089
Scottsdale	SIU	3	10867	13245	17693	-10308	9644	32072	-7592	1613	2800	34741	33648	-13672	33624	37271
Riverview	SIU	3	-3871	-1493	2955	-25046	-5094	17334	-22330	-13125	-11937	20003	18910	-28410	18886	22533
Canal System 2	SIU	3	-23539	-21161	-16713	-44714	-24762	-2334	-41998	-32793	-31605	335	-758	-48078	-782	2865
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	Buffer	3	40445	42823	47271	19270	39222	61650	21986	31191	32378	64319	63226	15906	63202	66849
Los Muertos	Buffer	3	-12273	-9895	-5447	-33448	-13496	8932	-30731	-21527	-20339	11602	10508	-36812	10484	14131
Crismon	Buffer	3	-23661	-21283	-16835	-44836	-24884	-2456	-42120	-32915	-31727	213	-880	-48200	-904	2743
Scottsdale	Buffer	3	-36425	-34047	-29600	-57600	-37649	-15220	-54884	-45679	-44492	-12551	-13645	-60964	-13669	-10021
Riverview	Buffer	3	-83358	-80980	-76532	-104533	-84581	-62153	-101817	-92612	-91424	-59484	-60577	-107897	-60601	-56954
Canal System 2	Buffer	3	-140171	-137793	-133345	-161346	-141394	-118966	-158630	-149425	-148237	-116296	-117390	-164710	-117414	-113767
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	SIU	4	42240	44618	49066	21065	41017	63445	23781	32986	34174	66114	65021	17701	64997	68644
Los Muertos	SIU	4	8083	10461	14909	-13092	6860	29288	-10376	-1171	16	31957	30864	-16456	30840	34487
Crismon	SIU	4	3595	5973	10421	-17580	2372	24800	-14864	-5659	-4472	27469	26376	-20944	26352	29999
Scottsdale	SIU	4	-163	2215	6663	-21338	-1386	21042	-18622	-9417	-8229	23712	22618	-24702	22594	26241
Riverview	SIU	4	-19813	-17435	-12987	-40988	-21036	1392	-38272	-29067	-27880	4061	2968	-44352	2944	6591
Canal System 2	SIU	4	-46037	-43659	-39211	-67212	-47260	-24832	-64496	-55291	-54104	-22163	-23256	-70576	-23280	-19633
Start (L. Classic)			43956	46334	50782	22781	42733	65161	25497	34702	35890	67830	66737	19417	66713	70360
Coyote	Buffer	4	39275	41652	46100	18100	38051	60479	20816	30020	31208	63149	62055	14735	62031	65678
Los Muertos	Buffer	4	-31015	-28638	-24190	-52190	-32239	-9811	-49474	-40270	-39082	-7141	-8235	-55555	-8259	-4612
Crismon	Buffer	4	-46200	-43822	-39374	-67375	-47423	-24995	-64659	-55454	-54266	-22326	-23419	-70739	-23443	-19796
Scottsdale	Buffer	4	-63219	-60841	-56393	-84394	-64442	-42014	-81678	-72473	-71286	-39345	-40438	-87758	-40462	-36815
Riverview	Buffer	4	-125796	-123418	-118970	-146971	-127019	-104591	-144255	-135050	-133862	-101922	-103015	-150335	-103039	-99392
Canal System 2	Buffer	4	-201546	-199168	-194721	-222721	-202770	-180341	-220005	-210800	-209613	-177672	-178766	-226085	-178790	-175142

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1358 Plant 2	1359 Plant 2	1360 Plant 2	1361 Plant 2	1362 Plant 2	1363 Plant 2	1364 Plant 2	1365 Plant 2	1366 Plant 2	1367 Plant 2	1368 Plant 2	1369 Plant 2	1370 Plant 2	1371 Plant 2
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	SIU	3	111346	63735	20748	37644	45149	27060	55007	40391	65506	40745	72441	30258	80236	33517
Los Muertos	SIU	3	85728	38117	-4870	12026	19531	1442	29389	14773	39888	15127	46823	4640	54618	7899
Crismon	SIU	3	82362	34751	-8236	8660	16165	-1924	26023	11407	36522	11761	43457	1274	51252	4533
Scottsdale	SIU	3	79544	31933	-11054	5842	13347	-4742	23205	8589	33704	8943	40638	-1544	48434	1715
Riverview	SIU	3	64806	17195	-25792	-8896	-1391	-19480	8467	-6149	18966	-5795	25901	-16282	33696	-13023
Canal System 2	SIU	3	45138	-2473	-45460	-28564	-21059	-39148	-11201	-25817	-702	-25463	6233	-35950	14028	-32691
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	Buffer	3	109121	61511	18524	35419	42924	24836	52783	38167	63282	38521	70216	28034	78011	31293
Los Muertos	Buffer	3	56404	8793	-34194	-17298	-9793	-27881	65	-14551	10565	-14197	17499	-24683	25294	-21425
Crismon	Buffer	3	45016	-2595	-45582	-28686	-21181	-39270	-11323	-25939	-824	-25585	6111	-36072	13906	-32813
Scottsdale	Buffer	3	32251	-15359	-58346	-41451	-33946	-52034	-24087	-38703	-13588	-38350	-6654	-48836	1141	-45577
Riverview	Buffer	3	-14681	-62292	-105279	-88383	-80878	-98967	-71020	-85636	-60521	-85282	-53586	-95769	-45791	-92510
Canal System 2	Buffer	3	-71494	-119105	-162092	-145196	-137691	-155780	-127833	-142449	-117333	-142095	-110399	-152582	-102604	-149323
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	SIU	4	110917	63306	20319	37215	44720	26631	54578	39962	65077	40316	72012	29829	79807	33088
Los Muertos	SIU	4	76759	29149	-13838	3057	10562	-7526	20421	5805	30920	6159	37854	-4328	45649	-1069
Crismon	SIU	4	72271	24661	-18326	-1431	6074	-12014	15933	1317	26432	1671	33366	-8816	41161	-5557
Scottsdale	SIU	4	68514	20903	-22084	-5188	2317	-15772	12175	-2441	22675	-2087	29609	-12574	37404	-9315
Riverview	SIU	4	48863	1253	-41734	-24839	-17334	-35422	-7475	-22091	3024	-21737	9958	-32224	17753	-28965
Canal System 2	SIU	4	22639	-24971	-67958	-51063	-43558	-61646	-33699	-48315	-23200	-47961	-16266	-58448	-8471	-55189
Start (L. Classic)			112633	65022	22035	38931	46436	28347	56294	41678	66793	42032	73728	31545	81523	34804
Coyote	Buffer	4	107951	60340	17354	34249	41754	23666	51613	36996	62112	37350	69046	26864	76841	30122
Los Muertos	Buffer	4	37661	-9950	-52936	-36041	-28536	-46624	-18677	-33294	-8178	-32940	-1244	-43426	6551	-40168
Crismon	Buffer	4	22477	-25134	-68121	-51225	-43720	-61809	-33862	-48478	-23363	-48124	-16428	-58611	-8633	-55352
Scottsdale	Buffer	4	5457	-42153	-85140	-68245	-60740	-78828	-50881	-65497	-40382	-65143	-33448	-75630	-25653	-72371
Riverview	Buffer	4	-57119	-104730	-147717	-130821	-123316	-141405	-113458	-128074	-102959	-127720	-96024	-138207	-88229	-134948
Canal System 2	Buffer	4	-132870	-180480	-223467	-206572	-199067	-217155	-189208	-203824	-178709	-203471	-171775	-213957	-163980	-210698

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1372 Plant 2	1373 Plant 2	1374 Plant 2	1375 Plant 2	1376 Plant 2	1377 Plant 2	1378 Plant 2	1379 Plant 2	1380 Plant 2	1381 Plant 2	1382 Plant 2	1383 Plant 2	1384 Plant 2	1385 Plant 2
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	SIU	3	52187	76450	78789	40244	28411	48165	36617	24754	105965	50129	57359	50199	50605	50998
Los Muertos	SIU	3	26570	50832	53171	14626	2793	22547	10999	-864	80347	24511	31741	24581	24987	25380
Crismon	SIU	3	23204	47466	49805	11260	-573	19181	7633	-4230	76981	21145	28375	21215	21621	22014
Scottsdale	SIU	3	20385	44648	46987	8442	-3391	16363	4815	-7048	74163	18327	25557	18397	18803	19196
Riverview	SIU	3	5648	29910	32249	-6296	-18129	1625	-9923	-21786	59425	3589	10819	3659	4065	4458
Canal System 2	SIU	3	-14020	10242	12581	-25964	-37797	-18043	-29591	-41454	39757	-16079	-8849	-16009	-15603	-15210
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	Buffer	3	49963	74226	76565	38020	26187	45941	34393	22530	103741	47905	55135	47975	48380	48773
Los Muertos	Buffer	3	-2754	21509	23847	-14697	-26530	-6777	-18325	-30187	51023	-4813	2417	-4742	-4337	-3944
Crismon	Buffer	3	-14143	10120	12459	-26086	-37919	-18165	-29713	-41576	39635	-16201	-8971	-16131	-15725	-15332
Scottsdale	Buffer	3	-26907	-2644	-305	-38850	-50683	-30929	-42477	-54340	26870	-28965	-21735	-28895	-28490	-28097
Riverview	Buffer	3	-73840	-49577	-47238	-85783	-97616	-77862	-89410	-101273	-20062	-75898	-68668	-75828	-75422	-75029
Canal System 2	Buffer	3	-130652	-106389	-104051	-142596	-154428	-134675	-146223	-158085	-76875	-132711	-125481	-132641	-132235	-131842
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	SIU	4	51758	76021	78360	39815	27982	47736	36188	24325	105536	49700	56930	49770	50176	50569
Los Muertos	SIU	4	17601	41864	44203	5658	-6175	13579	2031	-9832	71379	15543	22773	15613	16018	16411
Crismon	SIU	4	13113	37376	39715	1170	-10663	9091	-2457	-14320	66891	11055	18285	11125	11530	11923
Scottsdale	SIU	4	9356	33619	35957	-2588	-14420	5333	-6215	-18077	63133	7297	14527	7367	7773	8166
Riverview	SIU	4	-10295	13968	16307	-22238	-34071	-14317	-25865	-37728	43483	-12353	-5123	-12283	-11878	-11485
Canal System 2	SIU	4	-36519	-12256	-9917	-48462	-60295	-40541	-52089	-63952	17259	-38577	-31347	-38507	-38102	-37709
Start (L. Classic)			53474	77737	80076	41531	29698	49452	37904	26041	107252	51416	58646	51486	51892	52285
Coyote	Buffer	4	48793	73056	75394	36850	25017	44770	33222	21360	102570	46735	53964	46805	47210	47603
Los Muertos	Buffer	4	-21497	2766	5104	-33440	-45273	-25520	-37068	-48930	32280	-23555	-16326	-23485	-23080	-22687
Crismon	Buffer	4	-36682	-12419	-10080	-48625	-60458	-40704	-52252	-64115	17096	-38740	-31510	-38670	-38264	-37871
Scottsdale	Buffer	4	-53701	-29438	-27099	-65644	-77477	-57723	-69271	-81134	77	-55759	-48529	-55689	-55284	-54891
Riverview	Buffer	4	-116278	-92015	-89676	-128221	-140054	-120300	-131848	-143711	-62500	-118336	-111106	-118266	-117860	-117467
Canal System 2	Buffer	4	-192028	-167765	-165426	-203971	-215804	-196050	-207598	-219461	-138251	-194086	-186856	-194016	-193611	-193218

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1386 Plant 2	1387 Plant 2	1388 Plant 2	1389 Plant 2	1390 Plant 2	1391 Plant 2	1392 Plant 2	1393 Plant 2	1394 Plant 2	1395 Plant 2	1396 Plant 2	1397 Plant 2	1398 Plant 2	1399 Plant 2
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	SIU	3	54436	43854	40574	35887	31647	40114	69011	36732	62086	38210	54604	32306	44358	38072
Los Muertos	SIU	3	28818	18236	14956	10269	6029	14496	43393	11114	36468	12592	28986	6689	18740	12454
Crismon	SIU	3	25452	14870	11590	6903	2663	11130	40027	7748	33102	9226	25620	3323	15374	9088
Scottsdale	SIU	3	22634	12052	8772	4085	-155	8312	37209	4929	30283	6408	22802	504	12556	6270
Riverview	SIU	3	7896	-2686	-5966	-10653	-14893	-6426	22471	-9808	15546	-8330	8064	-14233	-2182	-8468
Canal System 2	SIU	3	-11772	-22354	-25634	-30321	-34561	-26094	2803	-29476	-4122	-27998	-11604	-33901	-21850	-28136
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	Buffer	3	52212	41630	38350	33663	29423	37889	66787	34507	59861	35986	52380	30082	42134	35848
Los Muertos	Buffer	3	-506	-11087	-14368	-19055	-23295	-14828	14069	-18210	7144	-16731	-338	-22635	-10583	-16870
Crismon	Buffer	3	-11894	-22476	-25756	-30443	-34683	-26216	2681	-29598	-4244	-28120	-11726	-34024	-21972	-28258
Scottsdale	Buffer	3	-24659	-35240	-38521	-43207	-47447	-38981	-10083	-42363	-17009	-40884	-24490	-46788	-34736	-41022
Riverview	Buffer	3	-71591	-82173	-85453	-90140	-94380	-85913	-57016	-89295	-63941	-87817	-71423	-93721	-81669	-87955
Canal System 2	Buffer	3	-128404	-138986	-142266	-146953	-151193	-142726	-113829	-146108	-120754	-144630	-128236	-150533	-138481	-144768
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	SIU	4	54007	43425	40145	35458	31218	39685	68582	36303	61657	37781	54175	31877	43929	37643
Los Muertos	SIU	4	19850	9268	5988	1301	-2939	5527	34425	2145	27499	3624	20018	-2280	9772	3486
Crismon	SIU	4	15362	4780	1500	-3187	-7427	1039	29937	-2343	23011	-864	15530	-6768	5284	-1002
Scottsdale	SIU	4	11604	1022	-2258	-6945	-11185	-2718	26179	-6100	19254	-4622	11772	-10525	1527	-4760
Riverview	SIU	4	-8046	-18628	-21908	-26595	-30835	-22369	6529	-25751	-397	-24272	-7878	-30176	-18124	-24410
Canal System 2	SIU	4	-34270	-44852	-48132	-52819	-57059	-48593	-19695	-51975	-26621	-50496	-34102	-56400	-44348	-50634
Start (L. Classic)			55723	45141	41861	37174	32934	41401	70298	38019	63373	39497	55891	33593	45645	39359
Coyote	Buffer	4	51041	40460	37179	32493	28252	36719	65616	33337	58691	34816	51209	28912	40964	34678
Los Muertos	Buffer	4	-19249	-29830	-33111	-37797	-42038	-33571	-4674	-36953	-11599	-35474	-19081	-41378	-29326	-35612
Crismon	Buffer	4	-34433	-45015	-48295	-52982	-57222	-48755	-19858	-52137	-26783	-50659	-34265	-56563	-44511	-50797
Scottsdale	Buffer	4	-51452	-62034	-65314	-70001	-74241	-65775	-36877	-69157	-43803	-67678	-51284	-73582	-61530	-67816
Riverview	Buffer	4	-114029	-124611	-127891	-132578	-136818	-128351	-99454	-131733	-106379	-130255	-113861	-136159	-124107	-130393
Canal System 2	Buffer	4	-189780	-200361	-203642	-208328	-212568	-204102	-175204	-207484	-182130	-206005	-189611	-211909	-199857	-206143

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1400 Plant 2	1401 Plant 2	1402 Plant 2	1403 Plant 2	1404 Plant 2	1405 Plant 2	1406 Plant 2	1407 Plant 2	1408 Plant 2	1409 Plant 2	1410 Plant 2	1411 Plant 2	1412 Plant 2	1413 Plant 2
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	SIU	3	47517	47194	39761	42056	86104	42123	56709	22128	50148	81437	25796	30401	58026	26758
Los Muertos	SIU	3	21899	21577	14143	16439	60486	16505	31092	-3490	24530	55819	178	4783	32408	1140
Crismon	SIU	3	18533	18211	10777	13073	57120	13139	27726	-6856	21164	52453	-3188	1417	29042	-2226
Scottsdale	SIU	3	15715	15392	7959	10254	54302	10321	24907	-9674	18346	49635	-6006	-1401	26224	-5044
Riverview	SIU	3	977	655	-6779	-4483	39564	-4417	10170	-24412	3608	34897	-20744	-16139	11486	-19782
Canal System 2	SIU	3	-18691	-19013	-26447	-24151	19896	-24085	-9498	-44080	-16060	15229	-40412	-35807	-8182	-39450
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	Buffer	3	45293	44970	37537	39832	83880	39899	54485	19904	47924	79213	23571	28177	55801	24534
Los Muertos	Buffer	3	-7424	-7747	-15180	-12885	31162	-12819	1768	-32814	-4793	26495	-29146	-24540	3084	-28184
Crismon	Buffer	3	-18813	-19136	-26569	-24274	19774	-24207	-9621	-44202	-16182	15107	-40534	-35929	-8304	-39572
Scottsdale	Buffer	3	-31577	-31900	-39333	-37038	7009	-36972	-22385	-56966	-28946	2342	-53299	-48693	-21069	-52337
Riverview	Buffer	3	-78510	-78833	-86266	-83971	-39923	-83904	-69318	-103899	-75879	-44590	-100231	-95626	-68001	-99269
Canal System 2	Buffer	3	-135322	-135645	-143079	-140783	-96736	-140717	-126130	-160712	-132692	-101403	-157044	-152438	-124814	-156082
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	SIU	4	47088	46765	39332	41627	85675	41694	56280	21699	49719	81008	25367	29972	57597	26329
Los Muertos	SIU	4	12931	12608	5175	7470	51518	7537	22123	-12458	15562	46851	-8791	-4185	23439	-7828
Crismon	SIU	4	8443	8120	687	2982	47030	3049	17635	-16946	11074	42363	-13279	-8673	18951	-12316
Scottsdale	SIU	4	4686	4363	-3071	-775	43272	-709	13878	-20704	7316	38605	-17036	-12430	15194	-16074
Riverview	SIU	4	-14965	-15288	-22721	-20426	23622	-20359	-5773	-40354	-12334	18955	-36687	-32081	-4457	-35724
Canal System 2	SIU	4	-41189	-41512	-48945	-46650	-2602	-46583	-31997	-66578	-38558	-7269	-62911	-58305	-30681	-61948
Start (L. Classic)			48804	48481	41048	43343	87391	43410	57996	23415	51435	82724	27083	31688	59313	28045
Coyote	Buffer	4	44123	43800	36367	38662	82709	38728	53315	18733	46754	78042	22401	27007	54631	23363
Los Muertos	Buffer	4	-26167	-26490	-33923	-31628	12419	-31562	-16975	-51557	-23536	7752	-47889	-43283	-15659	-46927
Crismon	Buffer	4	-41352	-41675	-49108	-46813	-2765	-46746	-32160	-66741	-38721	-7432	-63073	-58468	-30843	-62111
Scottsdale	Buffer	4	-58371	-58694	-66127	-63832	-19784	-63765	-49179	-83760	-55740	-24451	-80093	-75487	-47863	-79130
Riverview	Buffer	4	-120948	-121271	-128704	-126409	-82361	-126342	-111756	-146337	-118317	-87028	-142669	-138064	-110439	-141707
Canal System 2	Buffer	4	-196698	-197021	-204454	-202159	-158112	-202093	-187506	-222087	-194067	-162779	-218420	-213814	-186190	-217458

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1414 Plant 2	1415 Plant 2	1416 Plant 2	1417 Plant 2	1418 Plant 2	1419 Plant 2	1420 Plant 2	1421 Plant 2	1422 Plant 2	1423 Plant 2	1424 Plant 2	1425 Plant 2	1426 Plant 2	1427 Plant 2
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	SIU	3	87131	29685	40627	59916	38340	40010	63520	21250	54191	23412	54517	48969	77338	76572
Los Muertos	SIU	3	61513	4067	15009	34298	12722	14392	37902	-4368	28573	-2206	28899	23351	51720	50954
Crismon	SIU	3	58147	701	11643	30932	9356	11026	34536	-7734	25207	-5572	25533	19985	48354	47588
Scottsdale	SIU	3	55329	-2117	8825	28114	6538	8208	31718	-10552	22389	-8390	22715	17167	45536	44770
Riverview	SIU	3	40591	-16855	-5913	13376	-8200	-6530	16980	-25290	7651	-23128	7977	2429	30798	30032
Canal System 2	SIU	3	20923	-36523	-25581	-6292	-27868	-26198	-2688	-44958	-12017	-42796	-11691	-17239	11130	10364
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	Buffer	3	84907	27461	38402	57691	36115	37786	61296	19026	51966	21188	52293	46745	75114	74348
Los Muertos	Buffer	3	32189	-25257	-14315	4974	-16602	-14931	8578	-33691	-751	-31530	-424	-5973	22397	21630
Crismon	Buffer	3	20801	-36645	-25703	-6414	-27990	-26320	-2810	-45080	-12139	-42918	-11813	-17361	11008	10242
Scottsdale	Buffer	3	8037	-49409	-38468	-19179	-40755	-39084	-15575	-57844	-24904	-55682	-24577	-30126	-1756	-2523
Riverview	Buffer	3	-38896	-96342	-85400	-66111	-87687	-86017	-62507	-104777	-71836	-102615	-71510	-77058	-48689	-49455
Canal System 2	Buffer	3	-95709	-153155	-142213	-122924	-144500	-142830	-119320	-161589	-128649	-159428	-128322	-133871	-105501	-106268
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	SIU	4	86702	29256	40198	59487	37911	39581	63091	20821	53762	22983	54088	48540	76909	76143
Los Muertos	SIU	4	52545	-4901	6040	25329	3753	5424	28934	-13336	19604	-11174	19931	14383	42752	41986
Crismon	SIU	4	48057	-9389	1552	20841	-735	936	24446	-17824	15116	-15662	15443	9895	38264	37498
Scottsdale	SIU	4	44299	-13147	-2205	17084	-4492	-2822	20688	-21581	11359	-19420	11686	6137	34507	33740
Riverview	SIU	4	24649	-32797	-21856	-2567	-24143	-22472	1038	-41232	-8292	-39070	-7965	-13513	14856	14090
Canal System 2	SIU	4	-1575	-59021	-48080	-28791	-50367	-48696	-25186	-67456	-34516	-65294	-34189	-39737	-11368	-12134
Start (L. Classic)			88418	30972	41914	61203	39627	41297	64807	22537	55478	24699	55804	50256	78625	77859
Coyote	Buffer	4	83737	26291	37232	56521	34945	36616	60125	17856	50796	20017	51123	45574	73944	73177
Los Muertos	Buffer	4	13447	-43999	-33058	-13769	-35345	-33674	-10165	-52434	-19494	-50273	-19167	-24716	3654	2887
Crismon	Buffer	4	-1738	-59184	-48242	-28953	-50529	-48859	-25349	-67619	-34678	-65457	-34352	-39900	-11531	-12297
Scottsdale	Buffer	4	-18757	-76203	-65262	-45973	-67549	-65878	-42368	-84638	-51698	-82476	-51371	-56919	-28550	-29316
Riverview	Buffer	4	-81334	-138780	-127838	-108549	-130125	-128455	-104945	-147215	-114274	-145053	-113948	-119496	-91127	-91893
Canal System 2	Buffer	4	-157084	-214530	-203589	-184300	-205876	-204205	-180696	-222965	-190025	-220803	-189698	-195247	-166877	-167644

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1428 Plant 2	1429 Plant 2	1430 Plant 2	1431 Plant 2	1432 Plant 2	1433 Plant 2	1434 Plant 2	1435 Plant 2	1436 Plant 2	1437 Plant 2	1438 Plant 2	1439 Plant 2	1440 Plant 2	1441 Plant 2
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	SIU	3	87882	47952	47451	63813	42605	82302	62653	28521	32071	35537	24609	41237	50613	77098
Los Muertos	SIU	3	62264	22334	21833	38195	16987	56684	37035	2903	6453	9919	-1009	15619	24995	51480
Crismon	SIU	3	58898	18968	18467	34829	13621	53318	33669	-463	3087	6553	-4375	12253	21629	48114
Scottsdale	SIU	3	56080	16150	15649	32011	10803	50500	30851	-3281	269	3735	-7193	9435	18811	45296
Riverview	SIU	3	41342	1412	911	17273	-3935	35762	16113	-18019	-14469	-11003	-21931	-5303	4073	30558
Canal System 2	SIU	3	21674	-18256	-18757	-2395	-23603	16094	-3555	-37687	-34137	-30671	-41599	-24971	-15595	10890
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	Buffer	3	85658	45728	45227	61589	40381	80078	60428	26297	29847	33313	22385	39012	48389	74873
Los Muertos	Buffer	3	32940	-6990	-7490	8872	-12337	27360	7711	-26420	-22870	-19405	-30333	-13705	-4329	22156
Crismon	Buffer	3	21552	-18378	-18879	-2517	-23725	15972	-3677	-37809	-34259	-30793	-41721	-25093	-15717	10768
Scottsdale	Buffer	3	8788	-31142	-31643	-15281	-36489	3207	-16442	-50573	-47023	-43557	-54485	-37858	-28481	-1997
Riverview	Buffer	3	-38145	-78075	-78576	-62214	-83422	-43725	-63374	-97506	-93956	-90490	-101418	-84790	-75414	-48929
Canal System 2	Buffer	3	-94958	-134888	-135389	-119027	-140235	-100538	-120187	-154319	-150769	-147303	-158231	-141603	-132227	-105742
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	SIU	4	87453	47523	47022	63384	42176	81873	62224	28092	31642	35108	24180	40808	50184	76669
Los Muertos	SIU	4	53296	13366	12865	29227	8019	47716	28066	-6065	-2515	951	-9977	6650	16027	42511
Crismon	SIU	4	48808	8878	8377	24739	3531	43228	23578	-10553	-7003	-3537	-14465	2162	11539	38023
Scottsdale	SIU	4	45050	5120	4619	20981	-227	39470	19821	-14311	-10761	-7295	-18223	-1595	7781	34266
Riverview	SIU	4	25400	-14530	-15031	1331	-19877	19820	170	-33961	-30411	-26945	-37873	-21246	-11869	14615
Canal System 2	SIU	4	-824	-40754	-41255	-24893	-46101	-6404	-26054	-60185	-56635	-53169	-64097	-47470	-38093	-11609
Start (L. Classic)			89169	49239	48738	65100	43892	83589	63940	29808	33358	36824	25896	42524	51900	78385
Coyote	Buffer	4	84487	44557	44057	60419	39211	78907	59258	25127	28677	32142	21215	37842	47218	73703
Los Muertos	Buffer	4	14197	-25733	-26233	-9871	-31079	8617	-11032	-45163	-41613	-38148	-49075	-32448	-23072	3413
Crismon	Buffer	4	-987	-40917	-41418	-25056	-46264	-6567	-26216	-60348	-56798	-53332	-64260	-47632	-38256	-11771
Scottsdale	Buffer	4	-18006	-57936	-58437	-42075	-63283	-23586	-43236	-77367	-73817	-70351	-81279	-64652	-55275	-28791
Riverview	Buffer	4	-80583	-120513	-121014	-104652	-125860	-86163	-105812	-139944	-136394	-132928	-143856	-127228	-117852	-91367
Canal System 2	Buffer	4	-156333	-196263	-196764	-180402	-201610	-161914	-181563	-215694	-212144	-208678	-219606	-202979	-193602	-167118

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1442 Plant 2	1443 Plant 2	1444 Plant 2	1445 Plant 2	1446 Plant 2	1447 Plant 2	1448 Plant 2	1449 Plant 2	1450 Plant 2	Total Deficits	1300 Silk 2	1301 Silk 2	1302 Silk 2
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	SIU	3	26429	41312	43661	33318	36392	45789	23037	36509	27399	0	50805	94238	96446
Los Muertos	SIU	3	811	15694	18043	7700	10774	20171	-2581	10891	1781	15	25187	68620	70828
Crismon	SIU	3	-2555	12328	14677	4334	7408	16805	-5947	7525	-1585	24	21821	65254	67462
Scottsdale	SIU	3	-5373	9510	11859	1515	4590	13987	-8765	4707	-4403	28	19003	62435	64644
Riverview	SIU	3	-20111	-5228	-2879	-13222	-10148	-751	-23503	-10031	-19141	74	4265	47698	49906
Canal System 2	SIU	3	-39779	-24896	-22547	-32890	-29816	-20419	-43171	-29699	-38809	118	-15403	28030	30238
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	Buffer	3	24205	39087	41436	31093	34168	43565	20813	34285	25175	0	48581	92013	94222
Los Muertos	Buffer	3	-28513	-13630	-11281	-21624	-18550	-9153	-31905	-18433	-27543	97	-4137	39296	41504
Crismon	Buffer	3	-39901	-25018	-22669	-33012	-29938	-20541	-43293	-29821	-38931	118	-15525	27908	30116
Scottsdale	Buffer	3	-52665	-37783	-35434	-45777	-42703	-33305	-56057	-42585	-51695	129	-28289	15143	17352
Riverview	Buffer	3	-99598	-84715	-82366	-92709	-89635	-80238	-102990	-89518	-98628	149	-75222	-31789	-29581
Canal System 2	Buffer	3	-156411	-141528	-139179	-149522	-146448	-137051	-159803	-146331	-155441	151	-132035	-88602	-86394
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	SIU	4	26000	40883	43232	32889	35963	45360	22608	36080	26970	0	50376	93809	96017
Los Muertos	SIU	4	-8157	6725	9074	-1269	1806	11203	-11549	1923	-7187	34	16219	59651	61860
Crismon	SIU	4	-12645	2237	4586	-5757	-2682	6715	-16037	-2565	-11675	45	11731	55163	57372
Scottsdale	SIU	4	-16403	-1520	829	-9514	-6440	2957	-19795	-6323	-15433	64	7973	51406	53614
Riverview	SIU	4	-36053	-21171	-18822	-29165	-26090	-16693	-39445	-25973	-35083	109	-11677	31755	33964
Canal System 2	SIU	4	-62277	-47395	-45046	-55389	-52314	-42917	-65669	-52197	-61307	137	-37901	5531	7740
Start (L. Classic)			27716	42599	44948	34605	37679	47076	24324	37796	28686		52092	95525	97733
Coyote	Buffer	4	23035	37917	40266	29923	32997	42394	19643	33114	24004	0	47410	90843	93051
Los Muertos	Buffer	4	-47255	-32373	-30024	-40367	-37293	-27896	-50647	-37176	-46286	124	-22880	20553	22761
Crismon	Buffer	4	-62440	-47557	-45208	-55551	-52477	-43080	-65832	-52360	-61470	137	-38064	5369	7577
Scottsdale	Buffer	4	-79459	-64577	-62228	-72571	-69496	-60099	-82851	-69379	-78489	143	-55083	-11651	-9442
Riverview	Buffer	4	-142036	-127153	-124804	-135147	-132073	-122676	-145428	-131956	-141066	151	-117660	-74227	-72019
Canal System 2	Buffer	4	-217786	-202904	-200555	-210898	-207824	-198426	-221178	-207706	-216816	151	-193410	-149978	-147769

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1303 Silk 2	1304 Silk 2	1305 Silk 2	1306 Silk 2	1307 Silk 2	1308 Silk 2	1309 Silk 2	1310 Silk 2	1311 Silk 2	1312 Silk 2	1313 Silk 2	1314 Silk 2	1315 Silk 2	1316 Silk 2
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	SIU	3	83265	39198	119365	39523	22491	35346	78538	109348	51386	81729	93963	44041	22602	15475
Los Muertos	SIU	3	57647	13580	93747	13905	-3127	9728	52920	83730	25768	56111	68345	18423	-3016	-10143
Crismon	SIU	3	54281	10214	90381	10539	-6493	6362	49554	80364	22402	52745	64979	15057	-6382	-13509
Scottsdale	SIU	3	51463	7396	87563	7721	-9311	3544	46736	77546	19584	49927	62161	12238	-9200	-16327
Riverview	SIU	3	36725	-7342	72825	-7017	-24049	-11194	31998	62808	4846	35189	47423	-2499	-23938	-31065
Canal System 2	SIU	3	17057	-27010	53157	-26685	-43717	-30862	12330	43140	-14822	15521	27755	-22167	-43606	-50733
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	Buffer	3	81041	36974	117141	37299	20267	33121	76314	107124	49162	79505	91739	41816	20378	13251
Los Muertos	Buffer	3	28323	-15744	64423	-15419	-32451	-19596	23596	54407	-3556	26787	39022	-10901	-32339	-39466
Crismon	Buffer	3	16935	-27132	53035	-26807	-43839	-30984	12208	43018	-14944	15399	27633	-22289	-43728	-50855
Scottsdale	Buffer	3	4170	-39897	40270	-39572	-56604	-43749	-556	30254	-27709	2635	14869	-35054	-56492	-63619
Riverview	Buffer	3	-42762	-86829	-6662	-86504	-103536	-90681	-47489	-16679	-74641	-44298	-32064	-81986	-103425	-110552
Canal System 2	Buffer	3	-99575	-143642	-63475	-143317	-160349	-147494	-104302	-73492	-131454	-101111	-88876	-138799	-160238	-167365
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	SIU	4	82836	38769	118936	39094	22062	34917	78109	108919	50957	81300	93534	43612	22173	15046
Los Muertos	SIU	4	48679	4612	84779	4937	-12095	759	43952	74762	16800	47143	59377	9454	-11984	-19111
Crismon	SIU	4	44191	124	80291	449	-16583	-3729	39464	70274	12312	42655	54889	4966	-16472	-23599
Scottsdale	SIU	4	40433	-3634	76533	-3309	-20341	-7486	35706	66516	8554	38897	51132	1209	-20230	-27357
Riverview	SIU	4	20783	-23284	56883	-22959	-39991	-27137	16056	46866	-11096	19247	31481	-18442	-39880	-47007
Canal System 2	SIU	4	-5441	-49508	30659	-49183	-66215	-53361	-10168	20642	-37320	-6977	5257	-44666	-66104	-73231
Start (L. Classic)			84552	40485	120652	40810	23778	36633	79825	110635	52673	83016	95250	45328	23889	16762
Coyote	Buffer	4	79870	35803	115970	36128	19096	31951	75143	105954	47991	78334	90569	40646	19208	12081
Los Muertos	Buffer	4	9580	-34487	45680	-34162	-51194	-38339	4853	35664	-22299	8044	20279	-29644	-51082	-58209
Crismon	Buffer	4	-5604	-49671	30496	-49346	-66378	-53523	-10331	20479	-37483	-7140	5094	-44828	-66267	-73394
Scottsdale	Buffer	4	-22623	-66690	13477	-66365	-83397	-70543	-27350	3460	-54502	-24159	-11925	-61848	-83286	-90413
Riverview	Buffer	4	-85200	-129267	-49100	-128942	-145974	-133119	-89927	-59117	-117079	-86736	-74502	-124424	-145863	-152990
Canal System 2	Buffer	4	-160951	-205018	-124851	-204693	-221725	-208870	-165677	-134867	-192830	-162486	-150252	-200175	-221613	-228740

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1317 Silk 2	1318 Silk 2	1319 Silk 2	1320 Silk 2	1321 Silk 2	1322 Silk 2	1323 Silk 2	1324 Silk 2	1325 Silk 2	1326 Silk 2	1327 Silk 2	1328 Silk 2	1329 Silk 2	1330 Silk 2
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	SIU	3	69042	77332	54404	45012	80890	44365	34717	34713	91208	71554	36640	19956	33735	57866
Los Muertos	SIU	3	43424	51714	28786	19394	55272	18747	9099	9095	65590	45936	11022	-5661	8117	32249
Crismon	SIU	3	40058	48348	25420	16028	51906	15381	5733	5729	62224	42570	7656	-9027	4751	28883
Scottsdale	SIU	3	37240	45530	22602	13210	49088	12563	2915	2911	59406	39752	4838	-11846	1932	26064
Riverview	SIU	3	22502	30792	7864	-1528	34350	-2175	-11823	-11827	44668	25014	-9900	-26583	-12805	11327
Canal System 2	SIU	3	2834	11124	-11804	-21196	14682	-21843	-31491	-31495	25000	5346	-29568	-46251	-32473	-8341
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	Buffer	3	66818	75108	52180	42788	78666	42141	32493	32489	88983	69330	34416	17732	31510	55642
Los Muertos	Buffer	3	14101	22390	-538	-9930	25948	-10576	-20225	-20229	36266	16612	-18302	-34985	-21207	2925
Crismon	Buffer	3	2712	11002	-11926	-21318	14560	-21965	-31613	-31617	24878	5224	-29690	-46374	-32595	-8464
Scottsdale	Buffer	3	-10052	-1763	-24691	-34082	1796	-34729	-44377	-44381	12113	-7540	-42454	-59138	-45360	-21228
Riverview	Buffer	3	-56985	-48695	-71623	-81015	-45137	-81662	-91310	-91314	-34819	-54473	-89387	-106071	-92292	-68161
Canal System 2	Buffer	3	-113797	-105508	-128436	-137828	-101950	-138474	-148123	-148127	-91632	-111286	-146200	-162883	-149105	-124973
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	SIU	4	68613	76903	53975	44583	80461	43936	34288	34284	90779	71125	36211	19527	33306	57437
Los Muertos	SIU	4	34456	42746	19818	10426	46304	9779	131	127	56621	36968	2054	-14630	-852	23280
Crismon	SIU	4	29968	38258	15330	5938	41816	5291	-4357	-4361	52133	32480	-2434	-19118	-5340	18792
Scottsdale	SIU	4	26211	34500	11572	2180	38058	1534	-8115	-8119	48376	28722	-6192	-22875	-9097	15035
Riverview	SIU	4	6560	14850	-8078	-17470	18408	-18117	-27765	-27769	28725	9072	-25842	-42526	-28748	-4616
Canal System 2	SIU	4	-19664	-11374	-34302	-43694	-7816	-44341	-53989	-53993	2501	-17152	-52066	-68750	-54972	-30840
Start (L. Classic)			70329	78619	55691	46299	82177	45652	36004	36000	92495	72841	37927	21243	35022	59153
Coyote	Buffer	4	65648	73937	51009	41617	77496	40971	31322	31318	87813	68159	33245	16562	30340	54472
Los Muertos	Buffer	4	-4642	3647	-19281	-28673	7206	-29319	-38968	-38972	17523	-2131	-37045	-53728	-39950	-15818
Crismon	Buffer	4	-19827	-11537	-34465	-43857	-7979	-44504	-54152	-54156	2339	-17315	-52229	-68913	-55134	-31003
Scottsdale	Buffer	4	-36846	-28556	-51484	-60876	-24998	-61523	-71171	-71175	-14681	-34334	-69248	-85932	-72154	-48022
Riverview	Buffer	4	-99423	-91133	-114061	-123453	-87575	-124100	-133748	-133752	-77257	-96911	-131825	-148509	-134730	-110599
Canal System 2	Buffer	4	-175173	-166884	-189812	-199203	-163325	-199850	-209498	-209502	-153008	-172661	-207575	-224259	-210481	-186349

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1331 Silk 2	1332 Silk 2	1333 Silk 2	1334 Silk 2	1335 Silk 2	1336 Silk 2	1337 Silk 2	1338 Silk 2	1339 Silk 2	1340 Silk 2	1341 Silk 2	1342 Silk 2	1343 Silk 2	1344 Silk 2
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	SIU	3	50249	60022	79637	44437	21041	52175	51260	17271	49316	29258	18396	40480	37568	36327
Los Muertos	SIU	3	24631	34404	54019	18819	-4577	26557	25642	-8347	23698	3641	-7222	14862	11951	10710
Crismon	SIU	3	21265	31038	50653	15453	-7943	23191	22276	-11713	20332	275	-10588	11496	8585	7344
Scottsdale	SIU	3	18447	28220	47835	12635	-10761	20373	19457	-14531	17514	-2544	-13406	8678	5766	4525
Riverview	SIU	3	3709	13482	33097	-2103	-25499	5635	4720	-29269	2776	-17281	-28144	-6060	-8971	-10212
Canal System 2	SIU	3	-15959	-6186	13429	-21771	-45167	-14033	-14948	-48937	-16892	-36949	-47812	-25728	-28639	-29880
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	Buffer	3	48025	57797	77413	42213	18817	49951	49035	15047	47092	27034	16171	38256	35344	34103
Los Muertos	Buffer	3	-4693	5080	24695	-10504	-33900	-2767	-3682	-37671	-5626	-25683	-36546	-14462	-17373	-18614
Crismon	Buffer	3	-16081	-6308	13307	-21893	-45289	-14155	-15070	-49059	-17014	-37072	-47934	-25850	-28762	-30003
Scottsdale	Buffer	3	-28845	-19073	543	-34657	-58053	-26919	-27835	-61823	-29779	-49836	-60699	-38614	-41526	-42767
Riverview	Buffer	3	-75778	-66005	-46390	-81590	-104986	-73852	-74767	-108756	-76711	-96769	-107631	-85547	-88459	-89700
Canal System 2	Buffer	3	-132591	-122818	-103203	-138403	-161799	-130665	-131580	-165569	-133524	-153581	-164444	-142360	-145271	-146512
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	SIU	4	49820	59593	79208	44008	20612	51746	50831	16842	48887	28829	17967	40051	37139	35898
Los Muertos	SIU	4	15663	25435	45051	9851	-13545	17589	16673	-17315	14730	-5328	-16191	5894	2982	1741
Crismon	SIU	4	11175	20947	40563	5363	-18033	13101	12185	-21803	10242	-9816	-20679	1406	-1506	-2747
Scottsdale	SIU	4	7417	17190	36805	1605	-21791	9343	8428	-25561	6484	-13573	-24436	-2352	-5263	-6504
Riverview	SIU	4	-12233	-2461	17155	-18045	-41441	-10307	-11223	-45211	-13166	-33224	-44087	-22002	-24914	-26155
Canal System 2	SIU	4	-38457	-28685	-9069	-44269	-67665	-36531	-37447	-71435	-39390	-59448	-70311	-48226	-51138	-52379
Start (L. Classic)			51536	61309	80924	45724	22328	53462	52547	18558	50603	30545	19683	41767	38855	37614
Coyote	Buffer	4	46854	56627	76242	41043	17647	48780	47865	13876	45921	25864	15001	37086	34174	32933
Los Muertos	Buffer	4	-23436	-13663	5952	-29247	-52643	-21510	-22425	-56414	-24369	-44426	-55289	-33204	-36116	-37357
Crismon	Buffer	4	-38620	-28847	-9232	-44432	-67828	-36694	-37609	-71598	-39553	-59611	-70473	-48389	-51301	-52542
Scottsdale	Buffer	4	-55639	-45867	-26251	-61451	-84847	-53713	-54629	-88617	-56572	-76630	-87493	-65408	-68320	-69561
Riverview	Buffer	4	-118216	-108443	-88828	-124028	-147424	-116290	-117205	-151194	-119149	-139207	-150069	-127985	-130897	-132138
Canal System 2	Buffer	4	-193966	-184194	-164578	-199778	-223174	-192040	-192956	-226944	-194900	-214957	-225820	-203735	-206647	-207888

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1345 Silk 2	1346 Silk 2	1347 Silk 2	1348 Silk 2	1349 Silk 2	1350 Silk 2	1351 Silk 2	1352 Silk 2	1353 Silk 2	1354 Silk 2	1355 Silk 2	1356 Silk 2	1357 Silk 2	1358 Silk 2
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	SIU	3	38362	42168	18207	35281	54473	20532	28408	29425	56757	55822	15329	55801	58922	95096
Los Muertos	SIU	3	12744	16551	-7410	9663	28855	-5086	2791	3807	31139	30204	-10289	30183	33304	69478
Crismon	SIU	3	9378	13185	-10776	6297	25489	-8452	-575	441	27773	26838	-13655	26817	29938	66112
Scottsdale	SIU	3	6560	10366	-13595	3478	22671	-11270	-3394	-2377	24955	24019	-16473	23999	27120	63294
Riverview	SIU	3	-8178	-4371	-28332	-11259	7933	-26008	-18131	-17115	10217	9282	-31211	9261	12382	48556
Canal System 2	SIU	3	-27846	-24039	-48000	-30927	-11735	-45676	-37799	-36783	-9451	-10386	-50879	-10407	-7286	28888
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	Buffer	3	36138	39944	15983	33056	52249	18307	26184	27201	54533	53597	13104	53577	56698	92872
Los Muertos	Buffer	3	-16579	-12773	-36734	-19661	-469	-34410	-26533	-25517	1816	880	-39613	859	3980	40154
Crismon	Buffer	3	-27968	-24162	-48123	-31049	-11857	-45798	-37922	-36905	-9573	-10508	-51001	-10529	-7408	28766
Scottsdale	Buffer	3	-40732	-36926	-60887	-43814	-24621	-58563	-50686	-49670	-22337	-23273	-63766	-23293	-20172	16001
Riverview	Buffer	3	-87665	-83859	-107820	-90746	-71554	-105495	-97619	-96602	-69270	-70205	-110698	-70226	-67105	-30931
Canal System 2	Buffer	3	-144478	-140671	-164632	-147559	-128367	-162308	-154431	-153415	-126082	-127018	-167511	-127039	-123918	-87744
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	SIU	4	37933	41739	17778	34852	54044	20103	27979	28996	56328	55393	14900	55372	58493	94667
Los Muertos	SIU	4	3776	7582	-16379	694	19887	-14055	-6178	-5161	22171	21235	-19258	21215	24336	60510
Crismon	SIU	4	-712	3094	-20867	-3794	15399	-18543	-10666	-9649	17683	16747	-23746	16727	19848	56022
Scottsdale	SIU	4	-4470	-663	-24624	-7551	11641	-22300	-14423	-13407	13926	12990	-27503	12969	16090	52264
Riverview	SIU	4	-24120	-20314	-44275	-27202	-8009	-41951	-34074	-33057	-5725	-6661	-47154	-6681	-3560	32614
Canal System 2	SIU	4	-50344	-46538	-70499	-53426	-34233	-68175	-60298	-59281	-31949	-32885	-73378	-32905	-29784	6390
Start (L. Classic)			39649	43455	19494	36568	55760	21819	29695	30712	58044	57109	16616	57088	60209	96383
Coyote	Buffer	4	34968	38774	14813	31886	51078	17137	25014	26030	53363	52427	11934	52406	55527	91701
Los Muertos	Buffer	4	-35322	-31516	-55477	-38404	-19212	-53153	-45276	-44260	-16927	-17863	-58356	-17884	-14763	21411
Crismon	Buffer	4	-50507	-46701	-70662	-53588	-34396	-68337	-60461	-59444	-32112	-33047	-73540	-33068	-29947	6227
Scottsdale	Buffer	4	-67526	-63720	-87681	-70608	-51415	-85357	-77480	-76463	-49131	-50067	-90560	-50087	-46966	-10792
Riverview	Buffer	4	-130103	-126297	-150258	-133184	-113992	-147933	-140057	-139040	-111708	-112643	-153136	-112664	-109543	-73369
Canal System 2	Buffer	4	-205853	-202047	-226008	-208935	-189742	-223684	-215807	-214791	-187458	-188394	-228887	-188414	-185293	-149120

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1359 Silk 2	1360 Silk 2	1361 Silk 2	1362 Silk 2	1363 Silk 2	1364 Silk 2	1365 Silk 2	1366 Silk 2	1367 Silk 2	1368 Silk 2	1369 Silk 2	1370 Silk 2	1371 Silk 2	1372 Silk 2
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	SIU	3	54354	17569	32027	38449	22971	46885	34378	55870	34681	61804	25707	68474	28496	44473
Los Muertos	SIU	3	28736	-8049	6409	12831	-2647	21268	8760	30252	9063	36186	89	42856	2878	18855
Crismon	SIU	3	25370	-11415	3043	9465	-6013	17902	5394	26886	5697	32820	-3277	39490	-488	15489
Scottsdale	SIU	3	22552	-14233	225	6647	-8832	15083	2576	24068	2879	30002	-6095	36672	-3306	12670
Riverview	SIU	3	7814	-28971	-14513	-8091	-23569	346	-12162	9330	-11859	15264	-20833	21934	-18044	-2067
Canal System 2	SIU	3	-11854	-48639	-34181	-27759	-43237	-19322	-31830	-10338	-31527	-4404	-40501	2266	-37712	-21735
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	Buffer	3	52130	15345	29803	36225	20746	44661	32154	53646	32457	59579	23483	66250	26271	42248
Los Muertos	Buffer	3	-588	-37373	-22915	-16492	-31971	-8056	-20564	928	-20261	6862	-29235	13532	-26446	-10469
Crismon	Buffer	3	-11976	-48761	-34303	-27881	-43359	-19445	-31952	-10460	-31649	-4526	-40623	2144	-37834	-21857
Scottsdale	Buffer	3	-24740	-61525	-47067	-40645	-56124	-32209	-44716	-23225	-44414	-17291	-53387	-10620	-50599	-34622
Riverview	Buffer	3	-71673	-108458	-94000	-87578	-103056	-79142	-91649	-70157	-91346	-64223	-100320	-57553	-97531	-81554
Canal System 2	Buffer	3	-128486	-165271	-150813	-144391	-159869	-135954	-148462	-126970	-148159	-121036	-157133	-114366	-154344	-138367
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	SIU	4	53925	17140	31598	38020	22542	46456	33949	55441	34252	61375	25278	68045	28067	44044
Los Muertos	SIU	4	19768	-17017	-2559	3863	-11616	12299	-208	21284	95	27217	-8879	33888	-6091	9886
Crismon	SIU	4	15280	-21505	-7047	-625	-16104	7811	-4696	16796	-4393	22729	-13367	29400	-10579	5398
Scottsdale	SIU	4	11522	-25263	-10805	-4383	-19861	4054	-8454	13038	-8151	18972	-17125	25642	-14336	1641
Riverview	SIU	4	-8128	-44913	-30455	-24033	-39512	-15597	-28104	-6612	-27801	-679	-36775	5992	-33987	-18010
Canal System 2	SIU	4	-34352	-71137	-56679	-50257	-65736	-41821	-54328	-32836	-54025	-26903	-62999	-20232	-60211	-44234
Start (L. Classic)			55641	18856	33314	39736	24258	48172	35665	57157	35968	63091	26994	69761	29783	45760
Coyote	Buffer	4	50959	14174	28632	35055	19576	43491	30983	52475	31286	58409	22313	65080	25101	41078
Los Muertos	Buffer	4	-19331	-56116	-41658	-35235	-50714	-26799	-39307	-17815	-39004	-11881	-47977	-5210	-45189	-29212
Crismon	Buffer	4	-34515	-71300	-56842	-50420	-65898	-41984	-54491	-32999	-54188	-27065	-63162	-20395	-60373	-44396
Scottsdale	Buffer	4	-51534	-88319	-73861	-67439	-82918	-59003	-71510	-50018	-71207	-44085	-80181	-37414	-77393	-61416
Riverview	Buffer	4	-114111	-150896	-136438	-130016	-145494	-121580	-134087	-112595	-133784	-106661	-142758	-99991	-139969	-123992
Canal System 2	Buffer	4	-189861	-226646	-212188	-205766	-221245	-197330	-209837	-188346	-209535	-182412	-218508	-175741	-215720	-199743

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1373 Silk 2	1374 Silk 2	1375 Silk 2	1376 Silk 2	1377 Silk 2	1378 Silk 2	1379 Silk 2	1380 Silk 2	1381 Silk 2	1382 Silk 2	1383 Silk 2	1384 Silk 2	1385 Silk 2	1386 Silk 2
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	SIU	3	65235	67236	34252	24127	41030	31148	20997	90491	42711	48898	42771	43118	43454	46397
Los Muertos	SIU	3	39617	41618	8635	-1491	15412	5531	-4621	64873	17093	23280	17153	17500	17837	20779
Crismon	SIU	3	36251	38252	5269	-4857	12046	2165	-7987	61507	13727	19914	13787	14134	14471	17413
Scottsdale	SIU	3	33433	35434	2450	-7675	9228	-654	-10805	58689	10909	17096	10969	11316	11652	14594
Riverview	SIU	3	18695	20696	-12287	-22413	-5510	-15391	-25543	43951	-3829	2358	-3769	-3422	-3085	-143
Canal System 2	SIU	3	-973	1028	-31955	-42081	-25178	-35059	-45211	24283	-23497	-17310	-23437	-23090	-22753	-19811
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	Buffer	3	63011	65012	32028	21902	38806	28924	18773	88267	40487	46674	40547	40894	41230	44172
Los Muertos	Buffer	3	10293	12295	-20689	-30815	-13911	-23793	-33944	35550	-12230	-6044	-12171	-11824	-11487	-8545
Crismon	Buffer	3	-1095	906	-32078	-42203	-25300	-35182	-45333	24161	-23619	-17432	-23559	-23212	-22876	-19933
Scottsdale	Buffer	3	-13859	-11858	-44842	-54968	-38064	-47946	-58097	11397	-36383	-30196	-36323	-35976	-35640	-32698
Riverview	Buffer	3	-60792	-58791	-91775	-101900	-84997	-94879	-105030	-35536	-83316	-77129	-83256	-82909	-82573	-79630
Canal System 2	Buffer	3	-117605	-115604	-148587	-158713	-141809	-151691	-161842	-92349	-140129	-133942	-140069	-139722	-139385	-136443
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	SIU	4	64806	66807	33823	23698	40601	30719	20568	90062	42282	48469	42342	42689	43025	45968
Los Muertos	SIU	4	30649	32650	-334	-10460	6444	-3438	-13589	55905	8125	14312	8185	8532	8868	11810
Crismon	SIU	4	26161	28162	-4822	-14948	1956	-7926	-18077	51417	3637	9824	3697	4044	4380	7322
Scottsdale	SIU	4	22403	24404	-8579	-18705	-1801	-11683	-21834	47659	-121	6066	-61	286	623	3565
Riverview	SIU	4	2753	4754	-28230	-38356	-21452	-31334	-41485	28009	-19771	-13584	-19711	-19364	-19028	-16086
Canal System 2	SIU	4	-23471	-21470	-54454	-64580	-47676	-57558	-67709	1785	-45995	-39808	-45935	-45588	-45252	-42310
Start (L. Classic)			66522	68523	35539	25414	42317	32435	22284	91778	43998	50185	44058	44405	44741	47684
Coyote	Buffer	4	61840	63842	30858	20732	37636	27754	17603	87097	39317	45503	39377	39724	40060	43002
Los Muertos	Buffer	4	-8450	-6448	-39432	-49558	-32654	-42536	-52687	16807	-30973	-24787	-30913	-30566	-30230	-27288
Crismon	Buffer	4	-23634	-21633	-54617	-64742	-47839	-57721	-67872	1622	-46158	-39971	-46098	-45751	-45415	-42472
Scottsdale	Buffer	4	-40653	-38652	-71636	-81762	-64858	-74740	-84891	-15397	-63177	-56990	-63117	-62770	-62434	-59492
Riverview	Buffer	4	-103230	-101229	-134213	-144338	-127435	-137317	-147468	-77974	-125754	-119567	-125694	-125347	-125011	-122068
Canal System 2	Buffer	4	-178980	-176979	-209963	-220089	-203185	-213067	-223218	-153724	-201504	-195317	-201444	-201097	-200761	-197819

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1387 Silk 2	1388 Silk 2	1389 Silk 2	1390 Silk 2	1391 Silk 2	1392 Silk 2	1393 Silk 2	1394 Silk 2	1395 Silk 2	1396 Silk 2	1397 Silk 2	1398 Silk 2	1399 Silk 2	1400 Silk 2
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	SIU	3	37342	34534	30524	26896	34141	58869	31247	52943	32512	46540	27460	37773	32394	40476
Los Muertos	SIU	3	11724	8916	4906	1278	8523	33251	5629	27325	6894	20923	1842	12155	6776	14858
Crismon	SIU	3	8358	5550	1540	-2088	5157	29885	2263	23959	3528	17557	-1524	8789	3410	11492
Scottsdale	SIU	3	5539	2732	-1278	-4907	2339	27067	-556	21141	710	14738	-4342	5971	592	8674
Riverview	SIU	3	-9198	-12006	-16016	-19644	-12399	12329	-15293	6403	-14028	1	-19080	-8767	-14146	-6064
Canal System 2	SIU	3	-28866	-31674	-35684	-39312	-32067	-7339	-34961	-13265	-33696	-19667	-38748	-28435	-33814	-25732
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	Buffer	3	35117	32310	28300	24671	31916	56645	29022	50718	30288	44316	25236	35549	30170	38252
Los Muertos	Buffer	3	-17600	-20407	-24418	-28046	-20801	3927	-23695	-1999	-22430	-8401	-27482	-17169	-22548	-14466
Crismon	Buffer	3	-28988	-31796	-35806	-39434	-32189	-7461	-35083	-13387	-33818	-19790	-38870	-28557	-33936	-25854
Scottsdale	Buffer	3	-41753	-44560	-48570	-52199	-44954	-20225	-47848	-26152	-46583	-32554	-51635	-41321	-46701	-38618
Riverview	Buffer	3	-88685	-91493	-95503	-99131	-91886	-67158	-94780	-73084	-93515	-79487	-98567	-88254	-93633	-85551
Canal System 2	Buffer	3	-145498	-148305	-152316	-155944	-148699	-123971	-151593	-129897	-150328	-136299	-155380	-145067	-150446	-142364
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	SIU	4	36913	34105	30095	26467	33712	58440	30818	52514	32083	46111	27031	37344	31965	40047
Los Muertos	SIU	4	2755	-52	-4062	-7691	-446	24283	-3340	18356	-2074	11954	-7126	3187	-2192	5890
Crismon	SIU	4	-1733	-4540	-8550	-12179	-4934	19795	-7828	13868	-6562	7466	-11614	-1301	-6680	1402
Scottsdale	SIU	4	-5490	-8297	-12308	-15936	-8691	16037	-11585	10111	-10320	3709	-15372	-5059	-10438	-2356
Riverview	SIU	4	-25141	-27948	-31958	-35587	-28342	-3613	-31236	-9540	-29970	-15942	-35022	-24709	-30088	-22006
Canal System 2	SIU	4	-51365	-54172	-58182	-61811	-54566	-29837	-57460	-35764	-56194	-42166	-61246	-50933	-56312	-48230
Start (L. Classic)			38629	35821	31811	28183	35428	60156	32534	54230	33799	47827	28747	39060	33681	41763
Coyote	Buffer	4	33947	31140	27129	23501	30746	55474	27852	49548	29117	43146	24065	34378	28999	37082
Los Muertos	Buffer	4	-36343	-39150	-43161	-46789	-39544	-14816	-42438	-20742	-41173	-27144	-46225	-35912	-41291	-33208
Crismon	Buffer	4	-51527	-54335	-58345	-61973	-54728	-30000	-57622	-35926	-56357	-42329	-61409	-51096	-56475	-48393
Scottsdale	Buffer	4	-68547	-71354	-75364	-78993	-71748	-47019	-74642	-52946	-73376	-59348	-78428	-68115	-73494	-65412
Riverview	Buffer	4	-131123	-133931	-137941	-141569	-134324	-109596	-137218	-115522	-135953	-121925	-141005	-130692	-136071	-127989
Canal System 2	Buffer	4	-206874	-209681	-213691	-217320	-210075	-185346	-212969	-191273	-211704	-197675	-216756	-206442	-211822	-203739

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1401 Silk 2	1402 Silk 2	1403 Silk 2	1404 Silk 2	1405 Silk 2	1406 Silk 2	1407 Silk 2	1408 Silk 2	1409 Silk 2	1410 Silk 2	1411 Silk 2	1412 Silk 2	1413 Silk 2	1414 Silk 2
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	SIU	3	40200	33839	35803	73496	35860	48342	18750	42728	69502	21888	25830	49468	22712	74375
Los Muertos	SIU	3	14582	8221	10185	47878	10242	22724	-6868	17110	43884	-3730	212	23851	-2906	48757
Crismon	SIU	3	11216	4855	6819	44512	6876	19358	-10234	13744	40518	-7096	-3154	20485	-6272	45391
Scottsdale	SIU	3	8398	2037	4001	41694	4058	16540	-13052	10925	37700	-9914	-5972	17666	-9090	42573
Riverview	SIU	3	-6340	-12701	-10737	26956	-10680	1802	-27790	-3812	22962	-24652	-20710	2929	-23828	27835
Canal System 2	SIU	3	-26008	-32369	-30405	7288	-30348	-17866	-47458	-23480	3294	-44320	-40378	-16739	-43496	8167
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	Buffer	3	37976	31615	33579	71271	33636	46118	16526	40503	67278	19664	23605	47244	20487	72151
Los Muertos	Buffer	3	-14742	-21103	-19139	18554	-19082	-6600	-36192	-12214	14560	-33053	-29112	-5473	-32230	19433
Crismon	Buffer	3	-26130	-32491	-30527	7166	-30470	-17988	-47580	-23602	3172	-44442	-40500	-16862	-43618	8045
Scottsdale	Buffer	3	-38895	-45255	-43291	-5599	-43234	-30752	-60345	-36367	-9592	-57206	-53265	-29626	-56383	-4720
Riverview	Buffer	3	-85827	-92188	-90224	-52531	-90167	-77685	-107277	-83299	-56525	-104139	-100197	-76559	-103315	-51652
Canal System 2	Buffer	3	-142640	-149001	-147037	-109344	-146980	-134498	-164090	-140112	-113338	-160951	-157010	-133371	-160128	-108465
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	SIU	4	39771	33410	35374	73067	35431	47913	18321	42299	69073	21459	25401	49039	22283	73946
Los Muertos	SIU	4	5614	-747	1217	38909	1274	13756	-15836	8141	34916	-12698	-8757	14882	-11875	39789
Crismon	SIU	4	1126	-5235	-3271	34421	-3214	9268	-20324	3653	30428	-17186	-13245	10394	-16363	35301
Scottsdale	SIU	4	-2632	-8993	-7029	30664	-6972	5510	-24082	-104	26670	-20943	-17002	6637	-20120	31543
Riverview	SIU	4	-22282	-28643	-26679	11013	-26622	-14140	-43732	-19755	7020	-40594	-36653	-13014	-39771	11893
Canal System 2	SIU	4	-48506	-54867	-52903	-15211	-52846	-40364	-69956	-45979	-19204	-66818	-62877	-39238	-65995	-14331
Start (L. Classic)			41487	35126	37090	74783	37147	49629	20037	44015	70789	23175	27117	50755	23999	75662
Coyote	Buffer	4	36805	30445	32409	70101	32465	44948	15355	39333	66107	18494	22435	46074	19317	70980
Los Muertos	Buffer	4	-33485	-39845	-37881	-189	-37825	-25342	-54935	-30957	-4183	-51796	-47855	-24216	-50973	690
Crismon	Buffer	4	-48669	-55030	-53066	-15373	-53009	-40527	-70119	-46141	-19367	-66981	-63039	-39401	-66157	-14494
Scottsdale	Buffer	4	-65688	-72049	-70085	-32393	-70028	-57546	-87138	-63161	-36386	-84000	-80059	-56420	-83177	-31513
Riverview	Buffer	4	-128265	-134626	-132662	-94969	-132605	-120123	-149715	-125737	-98963	-146577	-142635	-118997	-145753	-94090
Canal System 2	Buffer	4	-204016	-210376	-208412	-170720	-208355	-195873	-225466	-201488	-174713	-222327	-218386	-194747	-221504	-169841

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1415 Silk 2	1416 Silk 2	1417 Silk 2	1418 Silk 2	1419 Silk 2	1420 Silk 2	1421 Silk 2	1422 Silk 2	1423 Silk 2	1424 Silk 2	1425 Silk 2	1426 Silk 2	1427 Silk 2	1428 Silk 2
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	SIU	3	25217	34580	51086	32623	34052	54170	17999	46187	19849	46466	41718	65995	65339	75017
Los Muertos	SIU	3	-401	8962	25468	7005	8434	28552	-7619	20569	-5769	20848	16100	40377	39721	49400
Crismon	SIU	3	-3767	5596	22102	3639	5068	25186	-10985	17203	-9135	17482	12734	37011	36355	46034
Scottsdale	SIU	3	-6585	2778	19284	820	2250	22368	-13803	14385	-11953	14664	9916	34193	33537	43215
Riverview	SIU	3	-21323	-11960	4546	-13917	-12488	7630	-28541	-353	-26691	-74	-4822	19455	18799	28478
Canal System 2	SIU	3	-40991	-31628	-15122	-33585	-32156	-12038	-48209	-20021	-46359	-19742	-24490	-213	-869	8810
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	Buffer	3	22993	32355	48862	30398	31828	51946	15775	43963	17624	44242	39494	63771	63115	72793
Los Muertos	Buffer	3	-29725	-20362	-3856	-22319	-20890	-772	-36943	-8755	-35093	-8475	-13223	11053	10397	20076
Crismon	Buffer	3	-41113	-31750	-15244	-33707	-32278	-12160	-48331	-20143	-46481	-19864	-24612	-335	-991	8687
Scottsdale	Buffer	3	-53878	-44515	-28009	-46472	-45042	-24924	-61096	-32908	-59246	-32628	-37376	-13100	-13756	-4077
Riverview	Buffer	3	-100810	-91447	-74941	-93404	-91975	-71857	-108028	-79840	-106178	-79561	-84309	-60032	-60688	-51010
Canal System 2	Buffer	3	-157623	-148260	-131754	-150217	-148788	-128670	-164841	-136653	-162991	-136374	-141122	-116845	-117501	-107822
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	SIU	4	24788	34151	50657	32194	33623	53741	17570	45758	19420	46037	41289	65566	64910	74588
Los Muertos	SIU	4	-9369	-7	16500	-1964	-534	19584	-16587	11601	-14738	11880	7132	31409	30753	40431
Crismon	SIU	4	-13857	-4495	12012	-6452	-5022	15096	-21075	7113	-19226	7392	2644	26921	26265	35943
Scottsdale	SIU	4	-17615	-8252	8254	-10209	-8780	11338	-24833	3355	-22983	3634	-1114	23163	22507	32186
Riverview	SIU	4	-37265	-27903	-11396	-29860	-28430	-8312	-44483	-16295	-42634	-16016	-20764	3513	2857	12535
Canal System 2	SIU	4	-63489	-54127	-37620	-56084	-54654	-34536	-70707	-42519	-68858	-42240	-46988	-22711	-23367	-13689
Start (L. Classic)			26504	35867	52373	33910	35339	55457	19286	47474	21136	47753	43005	67282	66626	76304
Coyote	Buffer	4	21822	31185	47691	29228	30658	50775	14604	42792	16454	43072	38324	62600	61944	71623
Los Muertos	Buffer	4	-48468	-39105	-22599	-41062	-39632	-19515	-55686	-27498	-53836	-27218	-31966	-7690	-8346	1333
Crismon	Buffer	4	-63652	-54289	-37783	-56246	-54817	-34699	-70870	-42682	-69020	-42403	-47151	-22874	-23530	-13852
Scottsdale	Buffer	4	-80671	-71309	-54802	-73266	-71836	-51718	-87889	-59701	-86040	-59422	-64170	-39893	-40549	-30871
Riverview	Buffer	4	-143248	-133885	-117379	-135842	-134413	-114295	-150466	-122278	-148616	-121999	-126747	-102470	-103126	-93448
Canal System 2	Buffer	4	-218999	-209636	-193130	-211593	-210163	-190045	-226217	-198029	-224367	-197749	-202497	-178221	-178877	-169198

System	Acreage Method	Acre-feet	1429 Silk 2	1430 Silk 2	1431 Silk 2	1432 Silk 2	1433 Silk 2	1434 Silk 2	1435 Silk 2	1436 Silk 2	1437 Silk 2	1438 Silk 2	1439 Silk 2	1440 Silk 2	1441 Silk 2	1442 Silk 2
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	SIU	3	40848	40420	54421	36273	70242	53428	24221	27259	30224	20873	35102	43125	65789	22430
Los Muertos	SIU	3	15230	14802	28803	10655	44624	27810	-1397	1641	4606	-4745	9484	17507	40171	-3187
Crismon	SIU	3	11864	11436	25437	7289	41258	24444	-4763	-1725	1240	-8111	6118	14141	36805	-6553
Scottsdale	SIU	3	9046	8618	22619	4471	38440	21626	-7581	-4543	-1578	-10929	3300	11323	33987	-9372
Riverview	SIU	3	-5692	-6120	7881	-10267	23702	6888	-22319	-19281	-16316	-25667	-11438	-3415	19249	-24109
Canal System 2	SIU	3	-25360	-25788	-11787	-29935	4034	-12780	-41987	-38949	-35984	-45335	-31106	-23083	-419	-43777
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	Buffer	3	38624	38195	52197	34048	68018	51204	21996	25034	28000	18649	32877	40901	63565	20206
Los Muertos	Buffer	3	-14093	-14522	-521	-18669	15301	-1514	-30721	-27683	-24717	-34069	-19840	-11816	10847	-32511
Crismon	Buffer	3	-25482	-25910	-11909	-30057	3912	-12902	-42109	-39071	-36106	-45457	-31228	-23205	-541	-43900
Scottsdale	Buffer	3	-38246	-38675	-24673	-42822	-8852	-25666	-54874	-51836	-48870	-58221	-43993	-35969	-13306	-56664
Riverview	Buffer	3	-85179	-85607	-71606	-89754	-55785	-72599	-101806	-98768	-95803	-105154	-90925	-82902	-60238	-103597
Canal System 2	Buffer	3	-141992	-142420	-128419	-146567	-112598	-129412	-158619	-155581	-152616	-161967	-147738	-139715	-117051	-160409
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	SIU	4	40419	39991	53992	35844	69813	52999	23792	26830	29795	20444	34673	42696	65360	22001
Los Muertos	SIU	4	6262	5833	19835	1686	35656	18842	-10366	-7328	-4362	-13713	515	8539	31203	-12156
Crismon	SIU	4	1774	1345	15347	-2802	31168	14354	-14854	-11816	-8850	-18201	-3973	4051	26715	-16644
Scottsdale	SIU	4	-1984	-2412	11589	-6559	27410	10596	-18611	-15573	-12608	-21959	-7730	293	22957	-20401
Riverview	SIU	4	-21634	-22063	-8061	-26210	7760	-9054	-38262	-35224	-32258	-41609	-27381	-19357	3307	-40052
Canal System 2	SIU	4	-47858	-48287	-34285	-52434	-18464	-35278	-64486	-61448	-58482	-67833	-53605	-45581	-22917	-66276
Start (L. Classic)			42135	41707	55708	37560	71529	54715	25508	28546	31511	22160	36389	44412	67076	23717
Coyote	Buffer	4	37454	37025	51026	32878	66848	50033	20826	23864	26830	17478	31707	39731	62394	19036
Los Muertos	Buffer	4	-32836	-33265	-19264	-37412	-3442	-20257	-49464	-46426	-43460	-52812	-38583	-30559	-7896	-51254
Crismon	Buffer	4	-48021	-48449	-34448	-52596	-18627	-35441	-64648	-61610	-58645	-67996	-53767	-45744	-23080	-66439
Scottsdale	Buffer	4	-65040	-65469	-51467	-69616	-35646	-52460	-81668	-78630	-75664	-85015	-70787	-62763	-40099	-83458
Riverview	Buffer	4	-127617	-128045	-114044	-132192	-98223	-115037	-144244	-141206	-138241	-147592	-133363	-125340	-102676	-146035
Canal System 2	Buffer	4	-203367	-203796	-189794	-207943	-173973	-190787	-219995	-216957	-213991	-223342	-209114	-201090	-178427	-221785

APPENDIX C. WATER SUFFICIENCY ANALYSIS

System	Acreage Method	Acre-feet	1443 Silk 2	1444 Silk 2	1445 Silk 2	1446 Silk 2	1447 Silk 2	1448 Silk 2	1449 Silk 2	1450 Silk 2	Total Deficits
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	SIU	3	35166	37176	28325	30956	38997	19528	31056	23260	0
Los Muertos	SIU	3	9548	11558	2707	5338	13379	-6090	5438	-2357	25
Crismon	SIU	3	6182	8192	-659	1972	10013	-9456	2072	-5723	33
Scottsdale	SIU	3	3364	5374	-3477	-846	7195	-12274	-746	-8542	41
Riverview	SIU	3	-11374	-9364	-18215	-15584	-7543	-27012	-15484	-23279	97
Canal System 2	SIU	3	-31042	-29032	-37883	-35252	-27211	-46680	-35152	-42947	128
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	Buffer	3	32942	34952	26101	28732	36773	17304	28832	21036	0
Los Muertos	Buffer	3	-19776	-17766	-26617	-23986	-15945	-35414	-23886	-31681	115
Crismon	Buffer	3	-31164	-29154	-38005	-35374	-27333	-46802	-35274	-43070	128
Scottsdale	Buffer	3	-43929	-41919	-50769	-48139	-40097	-59567	-48038	-55834	139
Riverview	Buffer	3	-90861	-88851	-97702	-95071	-87030	-106499	-94971	-102767	151
Canal System 2	Buffer	3	-147674	-145664	-154515	-151884	-143843	-163312	-151784	-159579	151
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	SIU	4	34737	36747	27896	30527	38568	19099	30627	22831	0
Los Muertos	SIU	4	580	2590	-6261	-3630	4411	-15058	-3530	-11326	53
Crismon	SIU	4	-3908	-1898	-10749	-8118	-77	-19546	-8018	-15814	72
Scottsdale	SIU	4	-7666	-5656	-14507	-11876	-3835	-23304	-11776	-19571	85
Riverview	SIU	4	-27316	-25306	-34157	-31526	-23485	-42954	-31426	-39222	124
Canal System 2	SIU	4	-53540	-51530	-60381	-57750	-49709	-69178	-57650	-65446	143
Start (L. Classic)			36453	38463	29612	32243	40284	20815	32343	24547	
Coyote	Buffer	4	31771	33781	24930	27561	35603	16133	27661	19866	0
Los Muertos	Buffer	4	-38519	-36509	-45360	-42729	-34687	-54157	-42629	-50424	135
Crismon	Buffer	4	-53703	-51693	-60544	-57913	-49872	-69341	-57813	-65609	143
Scottsdale	Buffer	4	-70722	-68712	-77563	-74932	-66891	-86360	-74832	-82628	149
Riverview	Buffer	4	-133299	-131289	-140140	-137509	-129468	-148937	-137409	-145205	151
Canal System 2	Buffer	4	-209050	-207040	-215890	-213260	-205218	-224688	-213159	-220955	151