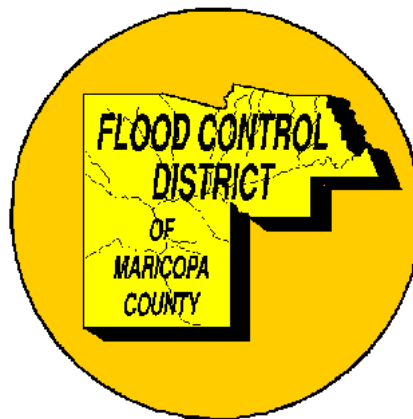




Flood Control District of Maricopa County

Storm Report - July 14-15, 1999



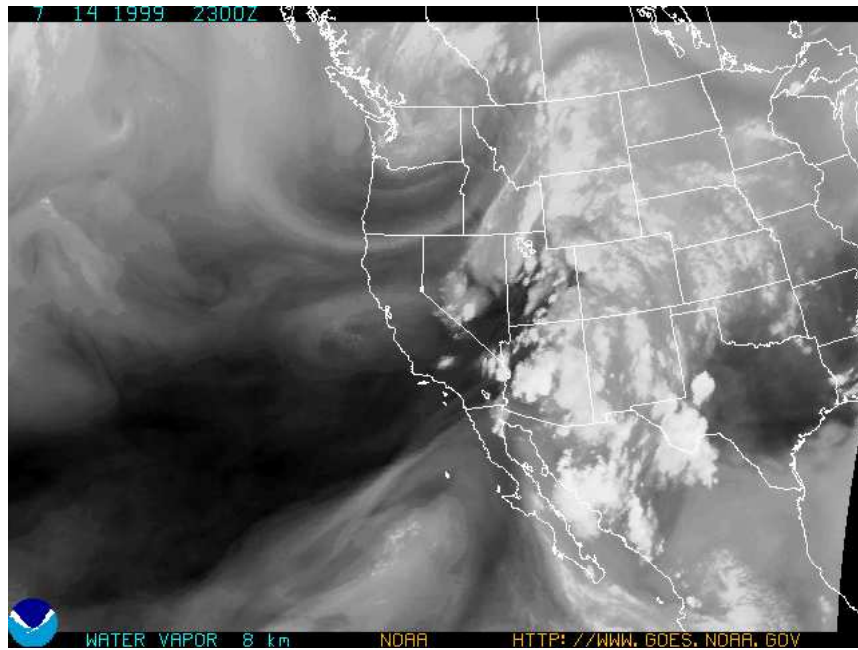
METEOROLOGY

The airmass over Maricopa County on July 14th was unusually moist, with water content above normal for July. This condition was also present the previous 4 or 5 days, but no significant rains took place, though there was rain on the 13th over portions of the County. However, on these previous days there were significant and rather widespread storms over far western Arizona and southeast California due to a stationary disturbance in the upper atmosphere over this area.

A small portion of this disturbance moved across Maricopa County on the 13th, but the main portion remained centered near the Colorado River. The bulk of the upper air disturbance moved into Maricopa County on the 14th. This unseasonably strong disturbance (making the air unstable), coupled with a very moist airmass resulted in our significant rains.

Note: This was a very unusual event. One reason is it occurred during the morning and afternoon hours. Normally we see our action during the evening. For another, the thunderstorms moved in from the southwest, rather than the southeast to northeast. Southwest winds usually result in NO thunderstorms, as higher terrain (such as to our east) is necessary to form the storms.

EJP



PRECIPITATION

Summary Statistics:

Total Automated Rain Gages: 227

Total Operational Automated Rain Gages: 225

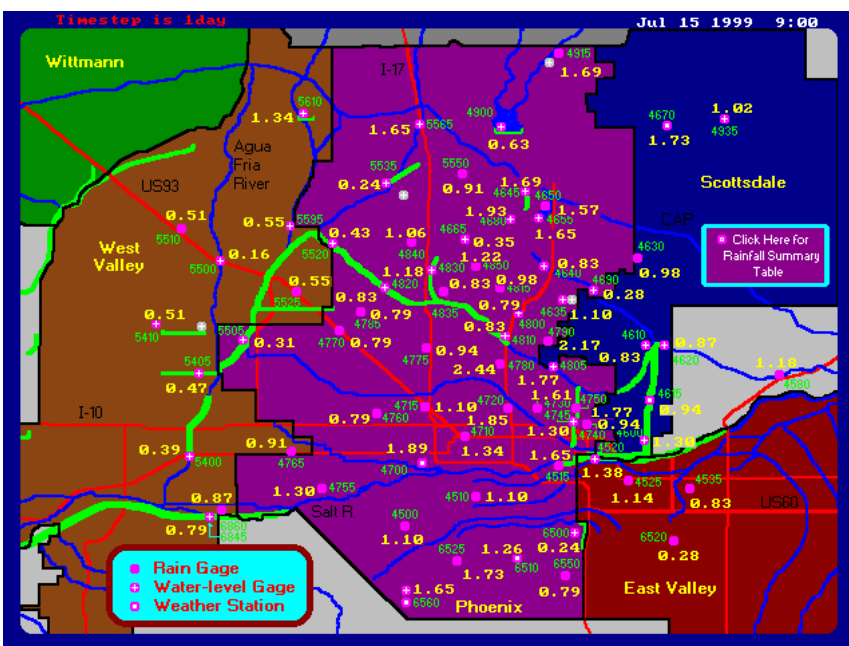
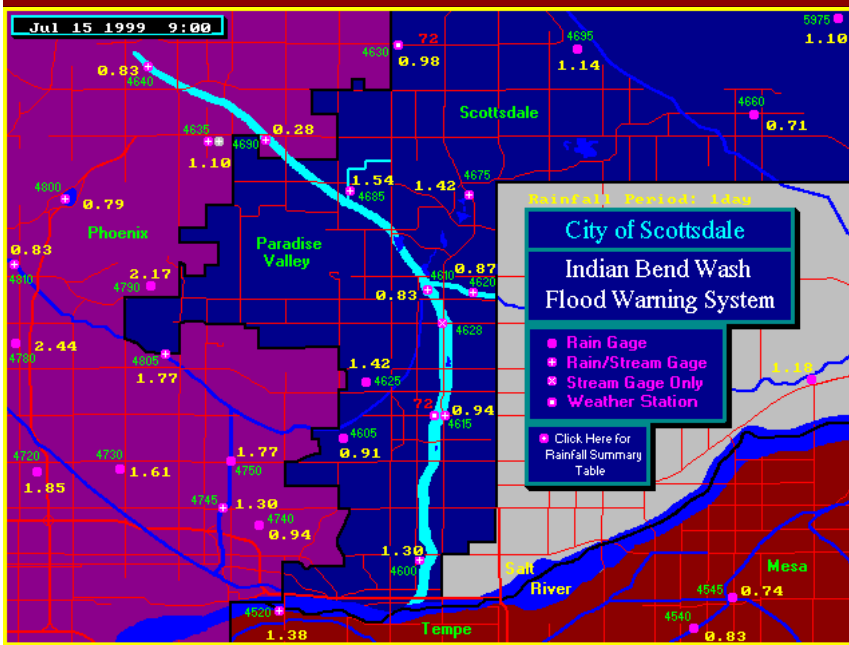
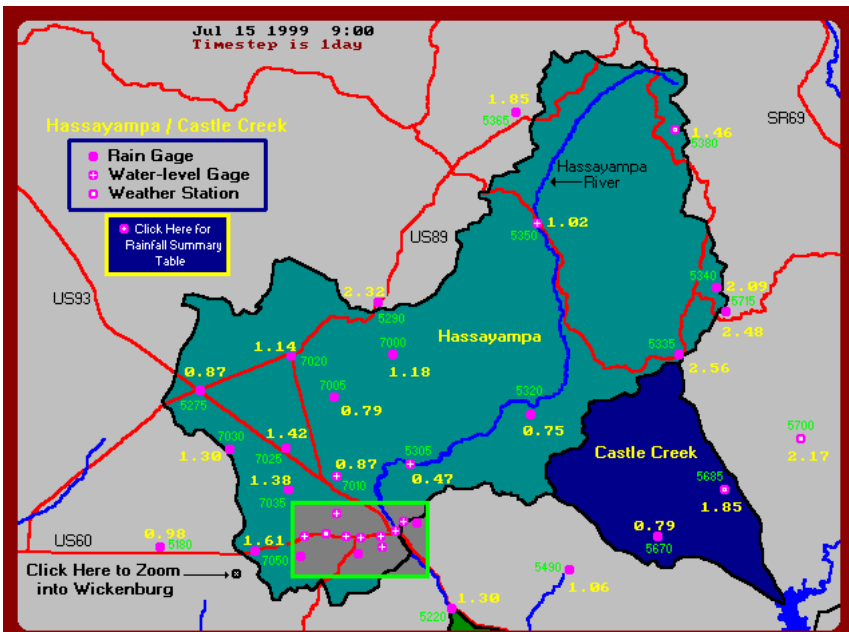
Queen Creek Landfill had a locked tipping bucket, all remaining gages functioned throughout the event. South Mtn. Park HQ had a programming error which caused it to count by 2 instead of 1 during parts of the event - this data was edited and considered correct for this report.

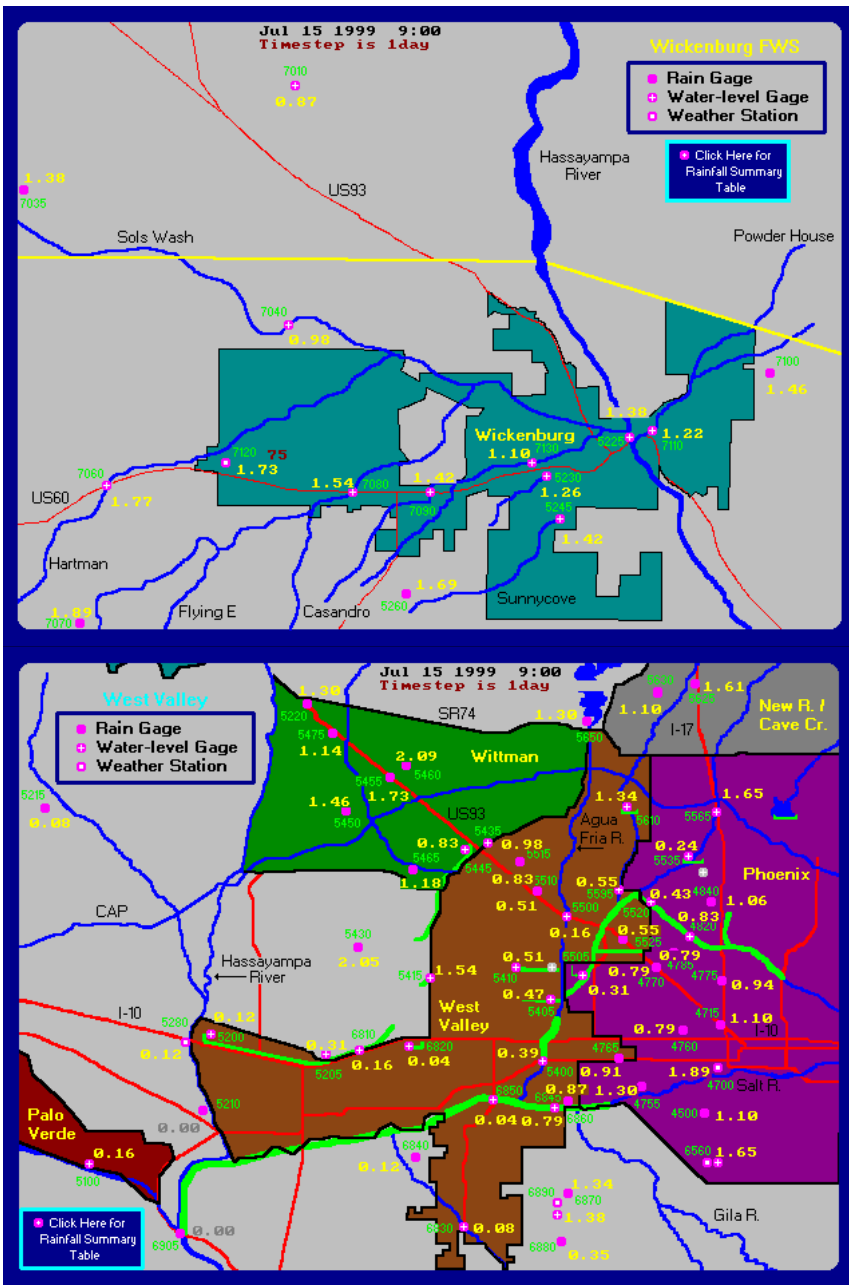
For the period 7/14/99 09:00 through 7/15/99 09:00 -

Number of gages reporting more than 2.5 inches:	2
Number of gages reporting more than 2.0 inches:	12
Number of gages reporting more than 1.5 inches:	42
Number of gages reporting more than 1.0 inch:	100
Number of gages reporting more than 0.50 inch:	167
Number of gages reporting more than 0.01 inch:	218
Number of gages reporting no rainfall:	7

Depth-Duration Table For Selected Automated Rain Stations

Duration	10-Year Phoenix	10-Year Carefree	Missouri @16 th St.	Paradise Valley CC	Pima @ Jomax	Flying E Tank	Durango Complex
5-min.	.47	.44	.35	.43	.20	.20	.34
10-min.	.72	.68	.63	.71	.35	.39	.62
15-min.	.92	.86	.71	.87	.43	.47	.89





[View an Isohyetal Map for this Storm \(212 KB\)](#)

RUNOFF

Summary Statistics:

Total Automated Water-level Gages Installed: 103

Total Operational Automated Rain Gages: 101 - Indian Bend Wash @ Indian Bend Rd. and Indian Bend Wash Interceptor were out of service due to construction projects.

Water-level Gages which failed to operate during the Storm: 2 - ACDC @ 14th Street and Rittenhouse FRS

Number of Impoundment Structures measuring flow: 16 - (see Impoundment Stations Table)

Number of Stream Stations measuring flow: 43 - (see Stream Stations Table)

Impoundment Stations Table

	Peak Stage	Peak Outflow	Peak Storage	Peak Capacity	Date-Time

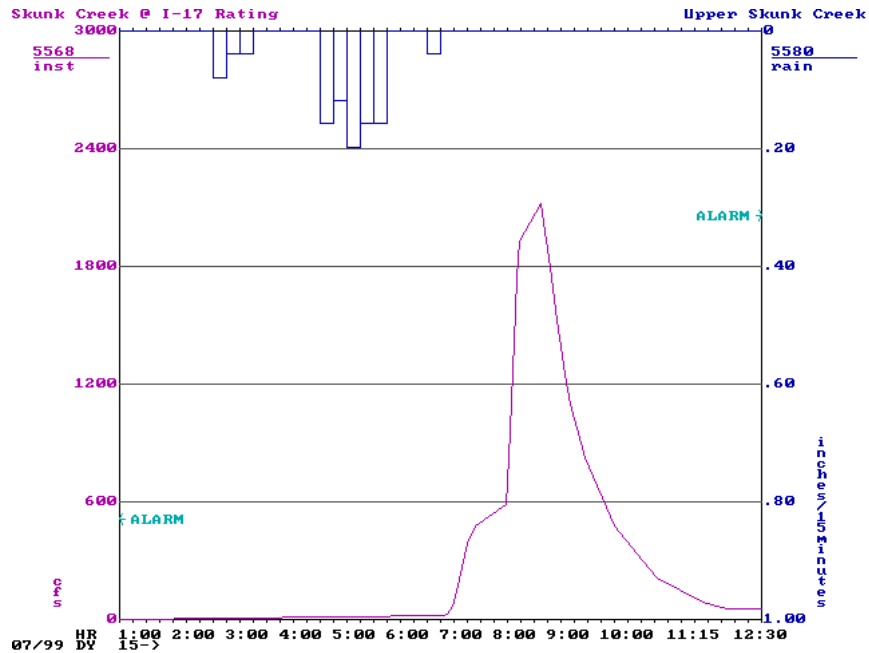
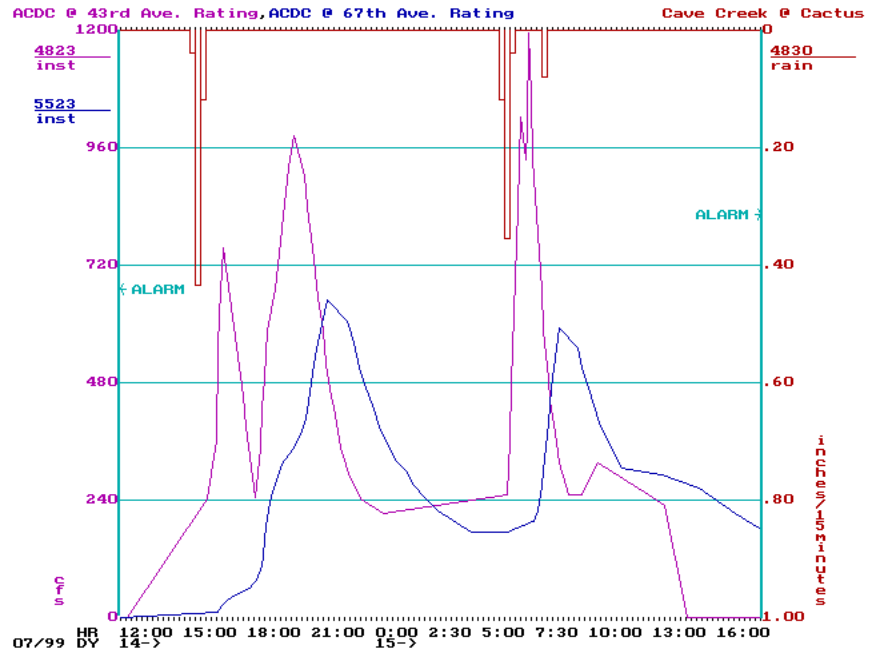
Structure Name	ID	(ft)	(cfs)	(ac-ft)	(% full)	
10th St. Wash Basin #1	4818	1.23	7	0.5	2	7/14-16:38
Adobe Dam	5539	6.74	311	134	1	7/15-12:59
Aspen Dam	5988	0.70	10	--	--	7/14-17:20
Casandro Dam	7133	5.86	14	21.7	15	7/15-05:57
Cave Buttes Dam	4904	17.9	203	516	1	7/15-19:37
Dreamy Draw Dam	4803	0.68	4	--	--	7/14-16:53
E.Fork CC #1	4648	1.25	15	1.2	2	7/14-16:22
E.Fork CC #3	4683	3.60	312	32.1	18	7/14-17:12
E.Fork CC #4	4658	3.65	71	8.4	11	7/14-16:24
Golden Eagle Park Dam	5978	3.36	91	--	--	7/14-12:21
Hesperus Dam	5993	1.05	12	--	--	7/14-16:29
New River Dam	5614	5.52	353	236	1	7/15-12:34
North Heights Dam	5983	0.97	12	--	--	7/14-18:13
Stone Ridge Dam	5968	0.91	4	--	--	7/15-09:19
Sunnycove FRS	5248	10.07	33	8.4	4	7/15-06:19
Sunset FRS	5233	6.80	22	9.6	11	7/15-05:40

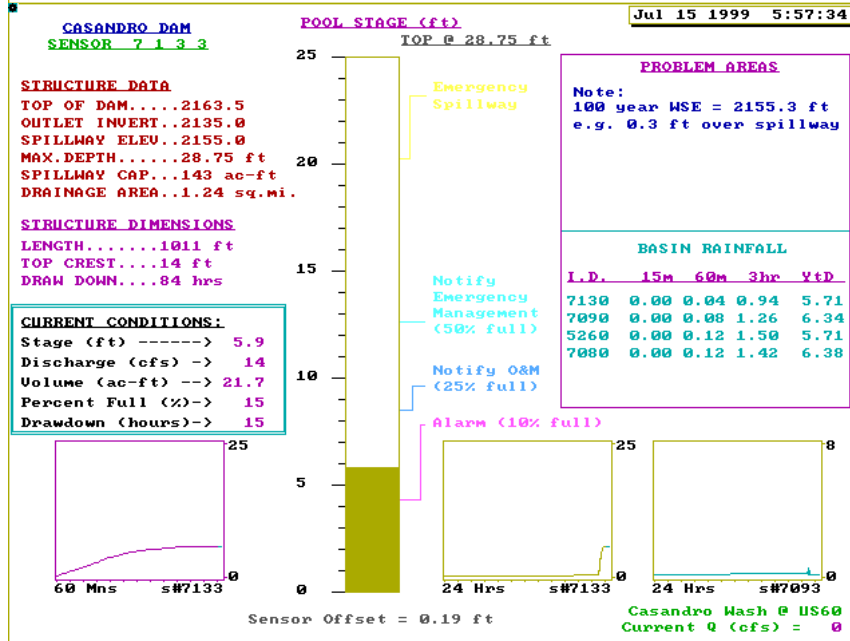
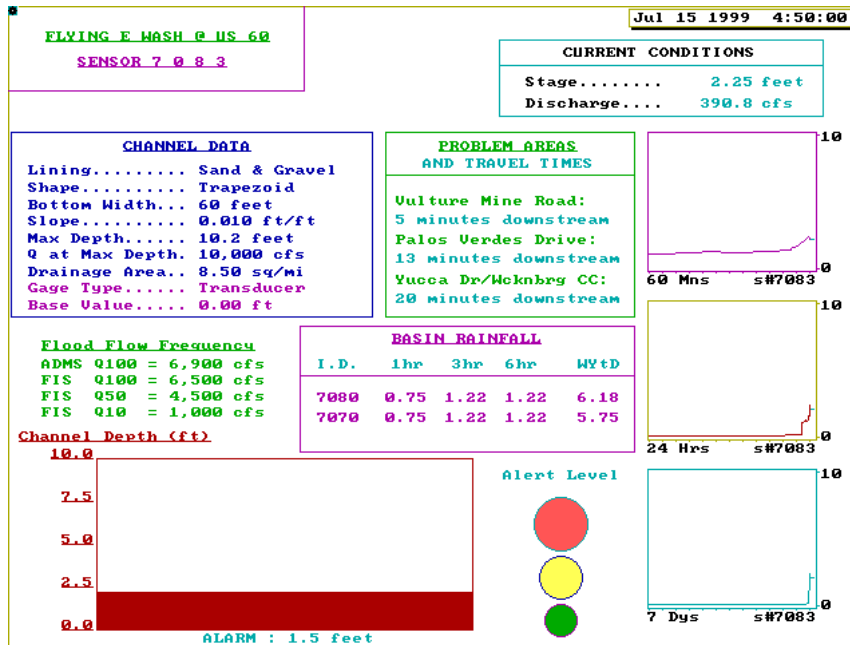
Stream Stations Table

		Peak Discharge	Peak Stage	Date-Time
Water-level Sensor Name	ID	(cfs)	(ft)	
ACDC @ 36th St.	4808	324	7.67	7/14-17:28
ACDC @ 43rd Ave.	4823	1195	1.73	7/15-07:08
ACDC @ 67th Ave.	5523	650	4.00	7/14-21:40
Adobe Dam Outlet	5538	508	4.50	7/15-12:44
Agua Fria @ Buckeye	5403	328	0.70	7/15-12:10
Agua Fria @ Grand	5503	326	3.56	7/15-15:49
Berneil Wash	4688	447	1.73	7/14-16:57
Casandro Wash	7093	42	0.55	7/15-04:53
Cave Buttes Outlet *	4903	32	1.94	7/14-15:48
Cave Cr. @ Spur Cross	4923	1500	7.51	7/15-08:51
Cave Cr. Nr Cave Creek	4918	393	1.65	7/15-08:26
Cave Creek @ Cactus	4833	1154	11.28	7/14-19:15
Centennial Wash @ Wenden	5093	209	1.00	7/14-19:28
Colter Channel @ El Mirage	5408	37	0.75	7/15-07:34
Dysart Channel @ El Mirage	5423	39	0.95	7/15-07:19
Dysart Drain @ LAFB	5413	73	1.18	7/15-10:33
EFCC nr 7th Ave.	4668	847	4.45	7/14-17:04
Estrella Fan	6893	3	0.10	7/14-15:52
Flying E Wash	7083	444	2.38	7/15-04:49
Gila @ Olberg	0783	462	1.04	7/15-08:11
Guadalupe Channel	6603	115	0.85	7/15-08:34
Hartman Wash	7063	97	0.95	7/15-04:54
Hassy @ Box Canyon	5308	560	4.20	7/15-10:30
Hassy @ Wagoner Rd.	5353	300	4.15	7/15-05:02
IBW @ Indian School	4618	624	3.23	7/14-21:59
IBW @ McDonald	4628	677	1.20	7/14-20:56
IBW @ McKellips	4603	320	1.67	7/15-09:37
IBW @ Shea Blvd.	4693	896	2.20	7/14-17:15
IBW @ Sweetwater	4643	159	1.35	7/14-16:26
Lake Marguarite	4678	237	1.75	7/14-17:00
McMicken Floodway	5438	98	1.65	7/15-08:01
New River @ Bell	5598	155	0.60	7/15-22:48
New River @ Glendale	5508	1525	1.55	7/15-09:30
New River Dam Outlet	5613	198	4.59	7/15-10:52

Old X-cut @ McDowell	4748	239	1.40	7/14-16:40
Powder House Wash	7113	23	0.30	7/15-05:14
Sauceda Wash	6923	284	2.21	7/14-23:33
Skunk Cr. @ I-17	5568	2119	3.27	7/15-08:52
Skunk Cr. Nr New River	5583	950	3.95	7/15-05:41
Sols Wash nr Matthie	7043	468	0.65	7/15-06:08
South Mountain Fan	6563	245	1.65	7/14-16:22
Tatum Basin Inflow	4638	41	0.38	7/14-17:32
Vekol Wash	6983	700	3.85	7/14-19:09

Selected Runoff Plots





APPENDIX A

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Precipitation Report - 24 hours ending 7/15/99 at 09:00

*** Data is Preliminary ***

Gage Name	Storm Total	Month Total	Year Total	Gage Location
Mt. Ord	2.64	3.03	5.87	Top of Mt. Ord, 4 mi. E of Sunflower in the Mazatzal Mtns.
Minnehaha	2.56	5.08	8.15	8 mi. E of Wagoner, Yavapai County
Crown King	2.48	6.18	9.76	Crown King, Bradshaw Mtns, 24 mi. SSE of Prescott
Santa Rosa @ SR 84	2.44	3.78	4.80	11 mi. West of SR 93 (Casa Grande) on SR 84
Missouri @ 16th St.	2.44	3.03	4.49	1/2 mi. North of Camelback Rd. and 16th St.
Yarnell Hill	2.32	3.78	6.97	1 mi. ENE of Yarnell, Yavapai County

Horsethiel Basin	2.17	3.90	8.54	At HB Recreation Area, 6 mi. SE of Crown King
P.V. Country Club	2.17	2.72	4.06	1/2 mi. North of Lincoln Dr. and Tatum Blvd.
Towers Mtn.	2.09	3.66	8.46	3 mi. NW of Crown King, Yavapai County
Chrysler P. Ground	2.09	2.36	4.13	3 mi. ESE of Circle City, 1.5 mi. N of Wittmann
Sunset Point	2.05	3.86	7.95	Rest Area on I-17, 10 mi. N of Black Canyon City
White Tanks E.P.	2.05	3.15	4.92	Top of White Tank Mtns., 13 mi. N of Buckeye
E.Fork CC #3	1.93	2.24	3.94	1/2 mi. SW of Union Hills Dr. and Cave Creek Rd.
Flying E Tank	1.89	2.28	4.80	6.3 mi. WSW of the US 93 / US 89 junction at Wickenburg
Wilhoit	1.85	2.83	5.59	At Wilhoit, 10 mi. SSW of Prescott, Yavapai County
Columbia Hill	1.85	2.80	6.50	5 mi. NNW of Castle Hot Springs
Thomas & 16th St.	1.85	2.20	3.54	16 th St. at Thomas Rd.
Hartman Wash	1.77	2.48	5.16	On US 60 bridge, 6.3 mi. West of US 60 / US 93
Thomas @ 48th St.	1.77	2.17	3.23	Thomas Rd. and 48th St.
ACDC @ 36th St.	1.77	2.09	3.35	1/2 mi. North of 36th St. and Camelback Rd.
Pima @ Jomax	1.73	2.87	5.63	1/8 mi. NW of Pima Rd. and Jomax Rd.
South Mtn.Park HQ	1.73	4.45	6.27	In South Mtn. Park, alignments of Elliot and 7th Ave.
Arizona Hunt Club	1.73	2.56	5.59	5 mi. NNW of Cordes Junction
Wickenburg Airport	1.73	2.24	4.88	4.5 mi. West of the US 60 / US 93 junction
Wittmann	1.73	2.13	4.06	US 60/93 at Wittmann, 4 mi. SE of Circle City
Upper Skunk Creek	1.69	2.87	5.39	4 mi. E of New River
Vulture Mine	1.69	2.56	5.12	3 mi. SW of Wickenburg
Cave Creek Landfill	1.69	2.48	4.72	1/2 mi. E of Carefree Hwy. and the 40th St. alignment
E.Fork CC #1	1.69	2.13	3.82	1/4 mi. E of Beardsley Rd. and Cave Creek Rd.
South Mountain Fan	1.65	3.82	5.75	Alignments of Ray Rd. and 35th Ave. in S. Mtn. Park
Skunk Creek @ I-17	1.65	3.50	5.51	I-17 at Jomax Rd. alignment
Durango Complex	1.65	2.24	3.74	27th Ave. and Durango St.
E.Fork CC #4	1.65	1.97	4.25	1/4 mi. S of Union Hills Dr. and 32nd St.
Salt R. @ 40th St.	1.65	1.81	2.60	S. side of Salt River near 40th St.
Sunup Ranch	1.61	2.32	4.53	1 mi. SSW of New River
Black Mountain	1.61	1.97	4.25	Along US 60, 9 mi. West of US 60 / US 93n at Wickenburg
Perry Park	1.61	1.97	3.11	1/8 mi. S of Thomas Rd. and 32nd St.
ParadiseValley Park	1.57	1.97	3.82	1/2 mi. E of Union Hills Dr. and 32nd St.
Humboldt Mountain	1.54	2.83	4.76	13 mi. NE of the Town of Cave Creek
Bemeil Wash	1.54	2.72	4.37	Just east of Doubletree and Invergordon
Flying E Wash	1.54	2.32	4.88	On US 60 bridge, 3 mi. West of US 60 / US 93
White Tanks #3	1.54	1.77	3.54	4 mi. N of I-10 on Jackrabbit Trail alignment
Mt. Union	1.46	3.58	9.92	Top of Mt. Union, 10 mi. SSE of Prescott
Constellation Road	1.46	2.28	4.72	1.4 mi. NE of the US 60 / US 93 junctionon
Patton Rd.	1.46	2.09	4.21	7 mi. E of Grand Ave. on Patton Rd.

Lake Margarite	1.42	3.07	4.61	1/4 mi. W of Doubletree and Hayden Rd.
Flores West	1.42	2.56	5.12	Along US 93, 3.2 mi. NW of the US 93 / US 89 junction
Casandro Wash	1.42	2.20	4.84	On US 60 bridge, 2 mi. West of US 60 / US 93
Sunnycove FRS	1.42	1.97	4.33	1 mi. SW of the US 60 / US 93 intersection in Wickenburg
Highland @ 68th St.	1.42	1.85	3.19	1/4 mi. N of Highland and 68th Street
Signal Peak	1.38	4.45	5.67	8 mi. SSW of Globe
Black Hill	1.38	2.99	5.51	2.3 miles WSW of the US 93 / US 89 junction
Hassayampa @ US 60	1.38	2.24	4.45	Hassayampa River at US 60/93 in Wickenburg
Estrella Fan	1.38	2.24	3.50	Alignments of El Mirage Rd. and Germann Rd.
Horseshoe Ranch	1.38	1.89	4.61	10 mi. SE of Cordes Junction
Salt R. @ Priest Dr	1.38	1.65	2.76	West side of Salt River bridge at Priest Drive
Carefree Ranch	1.34	2.52	5.75	3.5 mi. NE of Skyranch Airport
New River Dam	1.34	2.40	4.69	1/2 mi. NE of Jomax Rd. and 83rd Ave.
Jefferson @ 4th Ave	1.34	2.09	3.27	County Building, 4th Ave. and Jefferson St.
Upper Estrella Fan	1.34	1.97	3.19	1/2 NE of the El Mirage & Germann Rd Alignments
IBW @ McKellips Rd.	1.30	2.83	4.25	On Indian Bend Wash 1/4 mi. South of McKellips
Lake Pleasant	1.30	2.72	4.69	On New Waddell Dam at Lake Pleasant
Morristown	1.30	2.60	4.80	US 60/93 at Morristown, 10 mi. SE of Wickenburg
Sols Tank	1.30	2.56	5.35	6.3 mi. WNW of the US 93 / US 89 junction
Salt R. @ 67th Ave	1.30	2.13	3.66	67th Ave & Roeser St., N of Salt River
Fraesfield Mountain	1.30	1.65	5.16	Near the alignments of Dixaleta Dr. and 128th St.
Old Xcut @ McDowell	1.30	1.65	2.83	McDowell Rd. at Hohokam Expressway
I-17 at SR 169	1.26	2.28	4.80	I-17 at SR 169 (Cherry Rd.)
Sunset FRS	1.26	1.93	4.41	3/4 mi. WSW of the US 60 / US 93 intersection in Wickenburg
South Mountain Park	1.26	1.89	3.03	Alignments of Elliot Rd. and 24th St.
Seven Springs	1.22	2.56	5.35	15 mi. NNE of the Town of Cave Creek
Powder House Wash	1.22	2.05	4.25	1/2 mi. NE of the junction of US 60 and Constellation Rd.
T-bird @ 7th St.	1.22	1.77	3.11	1/4 mi. SW of Thunderbird Rd. and 7th St.
Stanton	1.18	2.52	5.31	6.5 mi. East of Congress, Yavapai County
Cave Creek @ Cactus	1.18	2.40	3.58	1/4 mi. ENE of I-17 and Cactus Rd.
NW Regional Landfil	1.18	2.01	3.82	Near 195th Ave. and Deer Valley Rd.
Salt River Landfill	1.18	1.18	2.40	1/4 mi. N of Gilbert Rd. at Beeline Highway
Circle City	1.14	2.01	4.37	Along US 60/93, 14 mi. SE of Wickenburg
Aztec Park	1.14	1.85	3.43	Near Thunderbird at Frank Lloyd Wright Blvd.
ASU South	1.14	1.69	2.99	1/4 mi. NNE of Broadway Rd. and Mill Ave.
Congress	1.14	1.46	3.78	Junction of US 89 and SR 71
New River Landfill	1.10	2.01	3.94	4 mi. ENE of New Waddell Dam
Cesar Chavez Park	1.10	2.01	3.39	South end of park, 35th Ave. and Baseline Rd.
Casandro Dam	1.10	1.89	4.25	1.1 mi. West of the US 60 / US 93 junction

Grand @ 27th Ave.	1.10	1.57	2.80	Grand Avenue near 27th Avenue
Tatum Basin Rain	1.10	1.50	3.27	Near Shea Blvd. and 44th St.
Roeser @ 2nd St.	1.10	1.50	1.54	1/2 mi. SSE of Broadway Rd. and Central Ave.
Cloudburst Wash	1.10	1.10	3.58	2mi. NW of SunRidge Golf Course, Fountain Hills
Greenway & 32nd Ave	1.06	2.13	3.58	1/4 mi. East of Greenway Rd. and 32nd Ave.
Castle Hot Springs	1.06	1.42	3.54	6 mi. NE from US 60/93 on Castle Hot Springs Rd.
Pinnacle Peak Vista	1.02	2.48	4.41	1/2 mi. SSE of Deer Valley Rd. & Pima Rd.
Pima @ Union Hills	1.02	2.48	4.25	1/4 mi. W of Pima Rd. and Union Hills
Cooks Mesa	1.02	2.40	5.71	10 mi. E of Black Canyon City in the New River Mtns.
Hassy @ Wagoner Rd	1.02	2.20	5.47	6 mi. ESE of Kirkland Junction
Gladden	1.02	2.09	3.98	US 60 at Gladden, 34 miles W of Wickenburg
McDowell Mtn. Park	1.02	1.85	4.84	Off Palisades Dr., McDowell Mtn. Park, 4 mi. WSW of Rio Verde
Florence Junction	1.02	1.57	3.66	1.5 mi. NW of Florence Junction
Queen Creek Rd.	1.02	1.34	2.99	1/4 mi. NE of Queen Creek Rd. and Ellsworth Rd.
EMF @ Arizona Ave.	1.02	1.30	2.99	On the SR 587 bridge 3 mi. South of Riggs Rd.
Reata Pass Dam	1.02	1.18	4.13	1/2 mi. South of Dynamite Blvd. and 112th St.
10 St. Wash Basin #1	0.98	2.01	3.19	1/4 mi. SW of Peoria Ave. and Cave Creek Rd.
McMicken Floodway	0.98	1.77	3.46	1/2 mi. N of Grand Ave. and Deer Valley Rd.
Thunderbird Academy	0.98	1.73	3.35	1/4 mi. ESE of Thunderbird Rd. and Scottsdale Rd.
Sols Wash nr Matthie	0.98	1.57	3.74	Sols Wash at SPRR bridge, 2 mi. N. of Wickenburg Airport
Centennial Wash	0.98	1.34	3.39	1 mi. N of US 60, 19 mi. W of Wickenburg
Golden Eagle Blvd.	0.94	1.97	5.08	NW 1/4 of T3N-R6E-Section 5 at Chaparral Water Tank
Papago Park	0.94	1.65	2.76	1/4 mi. N of McDowell Rd. and 52nd St.
IBW @ Indian School	0.94	1.46	2.76	Indian School Road at Hayden Road
Maryland @ 27th Ave	0.94	1.14	2.60	Near I-17, 1/2 mi. North of Bethany Home Rd.
Smith Peak	0.91	2.56	4.09	Harcuvar Mtns., 13 mi. NW of Aguila
Deer Valley Airport	0.91	2.05	4.06	Deer Valley Rd. and 7th Ave.
Osborn @ 64th St.	0.91	1.65	2.87	200 yds. E. of Osborn Rd. and 64th Street
Hesperus Wash	0.91	1.54	4.65	NW 1/4 of T4N-R6E-Section 31 near Dixie Mine
Buckeye @ 75th Ave.	0.91	1.34	2.95	1/4 mi. N of Buckeye Rd. and 75th Ave.
Chandler @ AlmaSchl	0.91	1.26	2.80	1/4 mi. SE of Chandler Blvd. and Alma School Rd.
EMF @ Queen Creek	0.91	1.18	2.32	1/3 mi. West of Queen Creek Rd. and Higley Rd.
IBW Interceptor	0.87	2.87	4.17	1/4 mi. SW of Pima Rd. & Indian Bend Rd.
Prescott Valley	0.87	2.32	5.24	5 mi. N of the intersection of SR 69 and Roberts Rd.
Martinez Creek	0.87	2.20	4.53	1 mi. East of the US 93 / US 89 junction
Harquahala Mtn.	0.87	2.13	4.57	Top of Harquahala Mtn., 36 mi. WSW of Wickenburg
Holly Acres	0.87	1.26	2.64	1/2 mi. SW of Southern Ave. and 107th Ave.
Sols Wash	0.87	1.10	4.09	Intersection of SR 71 and US 93, 16 mi. NW of Wickenburg
IBW @ Indian Bend	0.83	2.83	4.25	On Indian Bend Wash just S. of Indian Bend Rd.

Broadway @ Dobson	0.83	2.31	3.82	1/8 mi. SW of Broadway Rd. and Dobson Rd.
Sun City West	0.83	2.28	4.21	1/4 mi. SE of the Beardsley Rd. & Litchfield Rd. alignments
Hesperus Dam	0.83	1.93	3.23	1/4 mi. N of Richwood Ave. and Golden Eagle Blvd.
Cave Cr.@ SpurCross	0.83	1.89	2.87	3.5 mi. North of the Town of Cave Creek
McMicken Dam	0.83	1.77	3.39	1/4 mi SE of Deer Valley Rd and Cotton Lane
ACDC @ 14th St.	0.83	1.65	2.99	1/2 mi. North of Glendale Ave. and 14th St.
ACDC @ Cave Creek	0.83	1.54	2.80	Mountain View Rd. near 23rd Ave.
IBW @ Sweetwater	0.83	1.50	3.35	1/2 mi. E of 32nd St. and Sweetwater Ave.
Asher Hills	0.83	1.30	3.62	Off Asher Dr. in McDowell Mtn. Park, 1 mi. W of Rio Verde
Fitch Park	0.83	1.14	2.24	1/2 mi. N of University Dr. and Center St.
ACDC @ 43rd Ave.	0.83	0.98	2.36	1/4 mi. NW of Peoria Ave. and 43rd Ave.
Ahwatukee	0.79	1.46	2.72	Near 44th St. 1/4 mi. SW of Warner Road
Gila R. @ 116th Ave	0.79	1.30	2.95	1/4 mi. NNW of 115th Ave & Baseline Rd.
Mid-Martinez Creek	0.79	1.26	3.62	4.4 mi SSE of the US 89 / SR 71 junction
Garfias Mtn. Ranch	0.79	1.22	4.29	6 mi. WSW of Castle Hot Springs, off Castle Hot Springs Rd.
Maryvale Muni Golf	0.79	1.14	2.91	1/4 mi. N of Indian School Rd. and 59th Ave.
Dreamy Draw	0.79	1.14	2.56	1/4 mi. SSW of the 24th St. and Dulap Ave. alignments
City of Glendale	0.79	1.02	2.87	Grand Avenue at 63rd Avenue
Crossroads Park	0.79	0.98	2.28	1/2 mi. NW of Ray Rd. and Greenfield Rd.
Butler Park	0.79	0.94	2.48	1/4 mi. SE of 59th Ave. and Olive Ave.
Horner Mtn. Ranch	0.75	1.50	3.70	11 mi. ENE of Cordes Junction
O'Brien Gulch	0.75	1.38	3.74	11 mi. NE of Wickenburg, Yavapai County
Santa Cruz @ SR 84	0.75	1.18	2.13	3 mi. West of SR 93 (Casa Grande) on SR 84
Whitlow Ranch Dam	0.74	1.55	1.59	5 mi. NE of Florence Junction
Brown Rd. @ Horne	0.74	0.91	0.91	100 yards N of Brown Rd. and Horne in Mesa
North Heights Dam	0.71	1.69	2.87	400 yds. SW of Sierra Madre Dr. and Golden Eagle Blvd.
Kleinman Park	0.71	1.54	2.76	1/2 mi. SE of Broadway Rd. and Alma School Rd.
Lost Dog Wash	0.71	1.02	2.28	1/2 mi. NNW of Shea Blvd. and 128th St.
Queen Creek @ CAP	0.67	1.57	3.35	Queen Creek at Central Arizona Project
Falcon Field	0.67	0.75	2.20	1/4 mi. NE of McKellips Rd. & Greenfield Rd.
Gila @ Maricopa Rd	0.63	1.61	2.83	Gila River at Maricopa Road bridge
Cave Buttes Dam	0.63	0.83	2.28	1/4 mi. N. of the Happy Valley Rd. & 16th St. alignments
Signal Butte FRS	0.63	0.71	2.13	1/4 mi. NE of Signal Butte Rd. and Brown Rd.
Fountain Hills Fire	0.59	1.34	3.39	At Palisades Blvd. Fire Sta. nr xsecn. with Fntn. Hills Blvd.
Freestone Basin	0.59	1.14	2.44	1/2 mi. SSE of Guadalupe Rd. and Lindsay Rd.
Guadalupe Channel	0.59	0.98	2.80	1/4 E of Power Rd. & Guadalupe Rd.
Tat Momolikot Dam	0.55	3.86	4.72	19 miles SW of Casa Grande
New River @ Bell	0.55	1.65	3.27	Bell Rd. at 83rd Ave.
Centennial Levee	0.55	1.61	3.31	3 mi S. of I-10, 1 mi. E. of Western County border
StoneRidge Dam	0.55	1.26	3.43	1/4 mi. W of Cholla Dr. and Fountain Hills Blvd.

Grand @ Peoria Ave.	0.55	0.91	2.72	Intersection of Grand Ave. & Peoria Ave.
Gila Bend Mountains	0.51	2.48	3.98	16 mi. NW of Painted Rock Dam off Agua Caliente Rd.
Dysart @ Bell Rd.	0.51	1.65	3.31	Dysart Rd. at Bell Rd., Surprise
Dewey	0.51	1.61	3.94	5 mi. E of Dewey off Orme Ranch Rd.
Dysart Drain @ LAFB	0.51	0.71	2.40	1/4 mi. W of Northern Ave. and Litchfield Rd.
Hassy @ Box Canyon	0.47	1.81	4.57	6 mi. N of Wickenburg on Hassayampa River, Yavapai County
Colter @ El Mirage	0.47	0.67	2.24	1/4 mi. N of Camelback and El Mirage Rd.
Narrows Dam	0.47	0.59	2.52	5 mi. SE of Salome off Salome Highway
ACDC @ 67th Ave.	0.43	1.34	3.07	67th Ave. Bridge at Arizona Canal, Glendale
SunRidge Canyon Dam	0.43	1.26	3.39	200 yds. W of Lago Blvd. and Palisades Blvd.
Broadway @ Lindsay	0.43	1.22	2.44	1/4 mi. E of Broadway Rd. & Lindsay Rd.
Magma FRS	0.43	0.83	2.44	7 mi. NNW of Florence
Spookhill FRS	0.43	0.55	1.89	1/2 mi. N of McDowell Rd. and Bush Highway
Bender Wash	0.39	2.87	3.78	Just North of I-8, 10 mi. East of Gila Bend
Agua Fria @ Buckeye	0.39	0.79	2.83	Buckeye Rd. Bridge over Agua Fria River, nr Avondale
Mountain View Park	0.39	0.47	1.73	1/2 mi. N of University Dr. and Lindsay Rd.
Waterman Wash	0.35	1.22	2.52	El Mirage Rd. and Riggs Rd. alignments
EFCC nr 7th Ave.	0.35	0.63	2.48	Near 7th Ave., 1/2 mi. South of Greenway Rd.
Queen Ck. @ Rittenhs	0.35	0.47	1.97	1/3 mi. SE of the Signal Butte & Chandler Heights alignments
Thompson Peak	0.35	0.43	1.93	McDowell Mtns, 120th St. and Bell Rd. alignments
Vekol Wash	0.31	2.28	3.54	On I-8 bridge, halfway between Gila Bend and Casa Grande
Buckeye FRS #2	0.31	1.54	3.31	West end of Buckeye FRS #2, 5 mi N of Buckeye
NewRiver @ Glendale	0.31	0.59	2.48	1/2 mi. E of 99th Ave. on Glendale Ave. bridge
Apache Trail	0.31	0.43	2.28	1/3 mi. NE of Broadway Rd. and Idaho Rd.
Sacaton Peak	0.31	0.43	1.42	4.5 miles E. of the SR387 / I-10 junction
Tiger Wash Fan	0.28	1.30	3.03	1 mi. W of Eagle Eye Rd. and 4 mi. N of Salome Highway
Mt. Oatman	0.28	1.10	2.60	8 mi. WSW of Painted Rock Dam
IBW @ Shea Blvd.	0.28	0.71	2.80	Shea Blvd. at 52nd Street
Carriage Lane Park	0.28	0.51	1.65	1/2 mi. South of Price Rd. and Guadalupe Rd.
Kings Ranch	0.28	0.39	2.24	7 mi. ESE of Apache Junction
Usery Park WS	0.28	0.39	2.09	1/4 mi. WNW of the Crismon Rd. and Thomas Rd. alignments
Adobe Dam	0.24	1.18	2.68	1/4 mi. South of Deer Valley Rd. & 43rd Ave.
Thunder Mountain	0.24	0.39	1.65	1/2 mi. W. of Ellsworth Rd. and Indian School Rd. alignments
Usery Mtn. Park	0.24	0.28	2.13	1/3 mi. East of the McDowell Rd. and Crismon Rd. alignments
Guadalupe FRS	0.24	0.28	1.30	1/4 mi. SSW of Baseline Rd. and I-10
Apache Jct. FRS	0.24	0.24	1.93	1/3 mi. NW of Lost Dutchman Blvd. and Idaho Rd.
Vineyard FRS	0.24	0.24	1.89	Alignments of Tomahawk Rd. and Williams Field Rd.
Sand Tanks Wash	0.20	1.34	3.19	9 mi. SSE of Gila Bend
Gila @ Olberg	0.20	0.39	1.77	Gila River at Olberg Bridge, 3 mi. ENE of Sacaton

Powerline FRS	0.20	0.24	1.65	Alignments of Idaho Rd. and Warner Rd.
Centennial Railroad	0.16	2.05	3.50	8 mi. NW of Old US 80 at the Gila River
Buckeye FRS #3	0.16	1.22	3.11	1/4 mi. NE of I-10 and Watson Rd.
Mesa Tower	0.16	0.47	1.77	1/4 NW of McQueen Rd. and Baseline Rd.
Agua Fria @ Grand	0.16	0.35	1.02	Grand Ave. bridge at Agua Fria River
Hassayampa R @ I-10	0.12	1.89	3.74	I-10 bridge over Hassayampa River, 12 mi WNW of Buckeye
Tuthill @ Ray Rd.	0.12	1.57	1.85	1/2 mi. East of Tuthill Rd. and Ray Rd.
Buckeye FRS #1	0.12	1.54	2.99	West end of Buckeye FRS #1, I-10 @ Hassayampa River
EMF @ Broadway	0.12	0.51	1.81	1/2 mi. SSE of Broadway Rd. and Higley Rd.
Upper Waterman	0.12	0.47	2.24	10 mi. WNW of Mobile
Jackrabbit Wash	0.08	1.02	3.19	16 mi. NNE of Tonopah, 20 mi. SSW of Wickenburg
Waterman @ Rainbow	0.08	0.75	1.85	Rainbow Valley Rd. at Queen Creek Rd.
Gila Bend Landfill	0.04	1.54	3.31	3 mi. North of the intersection of US 80 and I-8
Harquahala FRS	0.04	0.87	2.80	10 mi. WNW of Tonopah in Harquahala Valley
White Tanks #4	0.04	0.67	2.13	1/4 mi. NE of Tuthill Rd. and Van Buren St.
Upper Tiger Wash	0.04	0.24	2.28	11 mi. S. of Aguila off Eagle Eye Road
Gila @ Estrella Pky	0.04	0.24	1.54	Gila River at Estrella Parkway
Gillespie Dam	0.00	2.09	3.78	Gila River at Old US 80
Hassayampa Landfill	0.00	1.02	2.52	2 mi. NW of Hassayampa
Sauceda Wash	0.00	0.91	2.56	6 mi. SSW of Gila Bend
Saddleback FRS	0.00	0.59	2.01	7 mi. WSW of Tonopah in Harquahala Valley
Centennial @ Wenden	0.00	0.20	2.40	5.5 mi. NE of Salome on U.S. 60 Bridge
Queen Cr. Landfill	0.00	0.00	1.54	1/2 mi. SW of Ocotillo Rd. and Ellsworth Rd.
Rittenhouse FRS	0.00	0.00	1.46	Alignments of Goldfield Rd. and Germann Rd.

[Appendix B - Hourly Values For All Rain Stations \(text file\)](#)