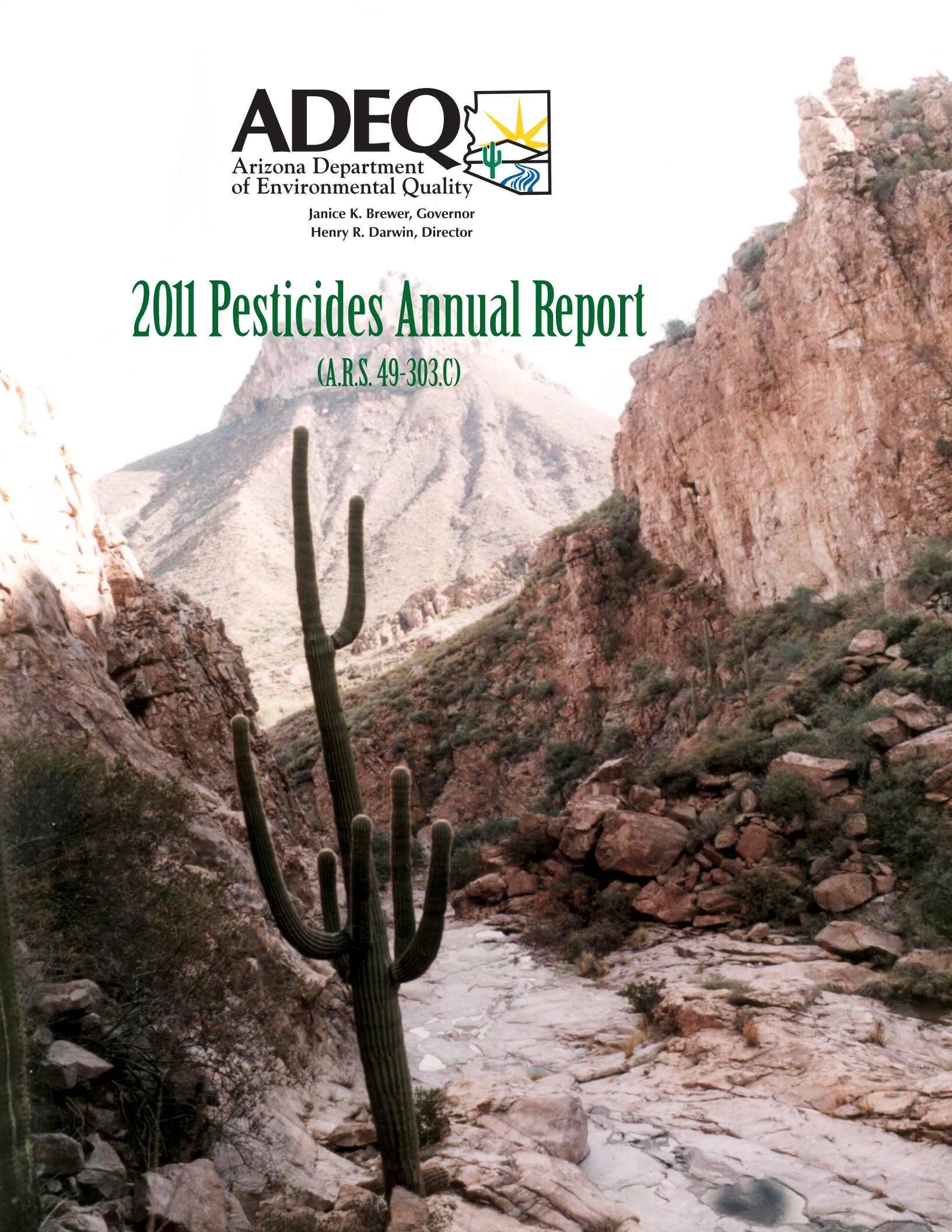




Janice K. Brewer, Governor
Henry R. Darwin, Director

2011 Pesticides Annual Report

(A.R.S. 49-303.C)



Pesticide Contamination Prevention Program Report

A.R.S. § 49-303.C

The Arizona Pesticide Contamination Prevention Program was established by the Environmental Quality Act of 1986. The major objective of the program is to prevent or mitigate groundwater pollution by agricultural pesticides. The program is composed of the following four major components:

- 1) **Product chemistry and environmental fate review** – Prior to registering an agricultural-use pesticide with the Arizona Department of Agriculture, applicants must submit product chemistry and environmental fate data of the associated active ingredient to ADEQ for review and approval. The information is used to determine the potential of the active ingredient to leach to groundwater, and generate the Arizona Groundwater Protection List (GWPL).
- 2) **Groundwater Protection List** – The GWPL is a list of agricultural pesticides in use in Arizona and their active ingredients that have the potential to pollute groundwater, based on product chemistry and environmental fate data and groundwater monitoring of the active ingredient(s).
- 3) **Environmental monitoring** – ADEQ, in cooperation with the Arizona Department of Agriculture, monitors groundwater and soils in agricultural areas throughout the state for the presence of agricultural-use pesticide active ingredients on the GWPL.
- 4) **Compilation of data** – ADEQ collects and reports product use information for agricultural pesticides applied to the soil on the GWPL. Results of pesticide monitoring for groundwater wells are evaluated and stored in the Water Quality Division's groundwater database.

This report which covers calendar year 2010 is in fulfillment of a requirement pursuant to A.R.S. § 49-303.C that requires ADEQ to report the following information to the Legislature annually:

- 1) A list of agricultural-use pesticide active ingredient for which there is a groundwater protection data gap (A.R.S. § 49-303.C.1).
- 2) A list of each agricultural-use pesticide containing an active ingredient that fails the Specific Numeric Values (SNVs) presented in Table 1 (A.R.S. § 49-303.C.2), or determined by an adopted alternative procedure to have the potential to pollute groundwater (A.R.S. § 49-303.C.3).
- 3) The use information on agricultural pesticides on the GWPL that have been applied to the soil in the state during the most recent year, and the county where the pesticide was applied and for what purpose (A.R.S. § 49-303.C.4).

Groundwater Protection Data Gap (A.R.S. § 49-303.C.1)

Prior to registering an agricultural-use pesticide with the ADA, applicants are required to submit the product chemistry and environmental fate data of the associated active ingredient(s) to ADEQ for review and approval (A.R.S. § 49-302). If an agricultural-use pesticide is registered without ADEQ's review and approval of its active ingredient(s), a groundwater protection data gap violation will occur and ADEQ will notify ADA to cancel the registration (A.R.S. § 49-306).

Between 1987 when the program was first implemented and December 31, 2010, a total of 337 agricultural-use pesticide active ingredients or active ingredient groups have completed the product chemistry and environmental fate review and approval process. Registrants have the option of registering with ADA for one or two years at a time. There is no groundwater protection data gap for any of the active ingredients associated with the agricultural-use pesticides registered in Arizona in 2010. This is partly attributed to the procedures established by ADEQ and the ADA to prevent such violations and the excellent cooperation received from pesticide manufacturers.

Specific Numeric Values (SNVs)

After ADEQ reviews and approves the product chemistry and environmental fate submittal, the data are compared with specific numeric values (SNVs), which are criteria adopted by rule. The SNVs, found at A.A.C. R18-6-103.1, are based on the U.S. Environmental Protection Agency's (EPA) criteria for identifying pesticide active ingredients that have the potential to leach to groundwater based on the factors of mobility and persistence in the subsurface environment. The SNVs are presented in Table 1. Active ingredients that exceed any of the SNVs in both mobility and persistence factors are placed on the GWPL.

<i>Table 1: Specific Numeric Values</i>	
Property	SNVs
<i>Mobility Factors</i>	
Water Solubility	30 parts per million
Soil Adsorption Coefficient	< 5 milliliters per gram
<i>Persistence Factors</i>	
Hydrolysis (half-life)	25 weeks
Aerobic Soil Metabolism (half-life)	3 weeks
Anaerobic Soil Metabolism (half-life)	3 weeks
Field Dissipation (half-life)	3 weeks

In addition, alternative evaluation procedures have been adopted (A.A.C. R18-6-103.2) that allow for consideration of new scientific approaches in determining the pollution potential of agricultural-use pesticides. The new guidelines are published on the ADEQ Web site and were developed to streamline the registration process.

In 2010, eleven (11) new pesticide active ingredient evaluation applications were received by ADEQ, and all were approved. Five (5) of those approved were placed on the GWPL. The list of new active ingredients approved by ADEQ in 2010 is shown in Table 2.

Table 2: New Active Ingredients Approved in Arizona

	Chemical Name	General Use	Product Brand Names	Registrant
1	Aminocyclopyrachlor*	Herbicide for control of broadleaf weeds in sod farms and non-agricultural settings	Streamline Herbicide Perspective Herbicide Streamline Herbicide Apiexor Technical	DuPont
2	Azadrachtin	Insecticide	Azo Guard	BioSafe Systems
3	Chlorfenapyr*	Miticide - Fungicide for application on ornamental crops and greenhouses.	Olympic Pylon Miticide Phantom Insecticide	BASF
4	Copper Octanoate	Fungicide for control of diseases in fruits, and vegetables	Cueva Fungicide	Certis
5	Dimethyl Disulfide	Fumigant	Paladin EC Paladin Soil Fumigant	Arkema
6	Fenazaquin	Miticide-Insecticide for application on ornamental crops and fruit trees	Magus Miticide	Gowan
7	Indaziflam*	Herbicide for broad spectrum weed control in perennial fruit, nut, and grape crops.	Alion Herbicide Esplanade 200 SC Advanced Durazone	Bayer
8	Pyroxsulam	Herbicide for a post-emergence selective control of weeds in cereal fields.	Simplicity Herbicide	DOW
9	Thiencarbazone Methyl*	Fungicide for the control of diseases in crops	(No product)	Bayer
10	Topramezone*	Herbicide post-emergence control of broadleaf weeds in corn and vegetable crops.	(No product)	BASF
11	Tribenuron Methyl	Herbicide for broadleaf weed control in cereal crops	(No product)	DuPont

*Active ingredient placed on the 2011 GWPL

Agricultural Pesticides on the Groundwater Protection List (A.R.S. § 49-303.C.3)

Agricultural-use pesticide active ingredients that fail at least one SNV from both the mobility and persistence factors, or based on environmental fate analysis are considered as having the potential to pollute groundwater are placed on the GWPL. Each year, a new draft GWPL is developed and published for public comment in the *Arizona Administrative Register*. The annual notice consists of additions and deletions from the previous list, based on new registrations and petitions to de-list active ingredients based on established criteria.

The final GWPL is published by July 1 of each year and becomes effective on December 1 of the publication year. The 2011 GWPL containing 81 active ingredients was published in the *Arizona Administrative Register* on July 29, 2011 and will take effect from December 1, 2011 (see Table 3). The agricultural pesticides containing these active ingredients are listed in Table 4.

The GWPL enables ADEQ to focus its statewide groundwater and soil monitoring activities on the active ingredients requiring monitoring and testing. If any of these active ingredients are detected in the groundwater or soil as a result of agricultural activities, ADEQ may, depending on the level at which they were detected, require registrants to modify their application rates and use patterns. Ultimately, ADEQ may recommend cancellation of the product registration to prevent further pollution. At the user level, Best Management Practices (BMPs) developed by the applicator should always be implemented when these agricultural-use pesticides on the GWPL are applied to the soil, to reduce or prevent the pollution of groundwater by the associated active ingredients (A.A.C. R18-6-303.A).

<i>Table 3: 2011 Groundwater Protection List</i>		
	<i>CAS Number</i>	<i>Chemical Name</i>
1	94-75-7	2,4-D Acid
2	1929-73-3	2,4-D Butoxyethyl Ester
3	5742-19-8	2,4-D Diethanolamine Salt
4	20940-37-8	2,4-D Diethylamine Salt
5	1928-43-4	2,4-D 2-Ethylhexyl Ester
6	5742-17-6	2,4-D Isopropylamine Salt
7	94-11-1	2,4-D Isopropyl Ester
8	32341-80-3	2,4-D Trisopropanolamine Salt
9	135158-54-2	Acibenzolar-S-Methyl
10	858956-08-8	Aminocyclopyrachlor*

<i>Table 3: 2011 Groundwater Protection List</i>		
	<i>CAS Number</i>	<i>Chemical Name</i>
11	1912-24-9	Atrazine
12	131860-33-8	Azoxystrobin
13	314-40-9	Bromacil
14	53404-19-6	Bromacil, Lithium Salt
15	63-25-2	Carbaryl
16	128639-02-1	Carfentrazone-Ethyl
17	50008-15-1	Chlorantraniliprole
18	122453-73-0	Chlorfenapyr*
19	1702-17-6	Clopyralid
20	420-04-2	Cyanamide
21	113136-77-9	Cyclanilide
22	52918-63-5	Deltamethrin
23	13684-56-5	Desmedipham
24	1918-00-9	Dicamba
25	25059-78-3	Dicamba, DEA Salt
26	104040-79-1	Dicamba, DGA Salt
27	2300-66-5	Dicamba, DMA Salt
28	10007-85-9	Dicamba, Potassium Salt
29	1982-69-0	Dicamba, Sodium Salt
30	110488-70-5	Dimethomorph
31	165252-70-0	Dinotefuran
32	330-54-1	Diuron
33	144-21-8	DSMA (Disodium Methanearsonate)
34	137512-74-4	Emamectin Benzoate
35	115-29-7	Endosulfan
36	104040-78-0	Flazasulfuron
37	158067-0	Flonicamid

<i>Table 3: 2011 Groundwater Protection List</i>		
	<i>CAS Number</i>	<i>Chemical Name</i>
38	335104-84-2	Flubendiamide
39	142459-58-3	Flufenacet (Thiafluamide)
40	193740-76-0	Fluoxastrobin
41	66332-96-5	Flutolanil
42	77182-82-2	Glufosinate-Ammonium
43	112226-61-6	Halofenozide
44	100784-20-1	Halosulfuron-Methyl
45	114311-32-9	Imazamox
46	104098-48-8	Imazapic
47	81335-77-5	Imazethapyr
48	101917-66-2	Imazethapyr, Ammonium Salt
49	138261-41-3	Imidacloprid
50	950782-96-2	Indaziflam*
51	330-55-2	Linuron
52	128-58-3	MAA (Methanearsonic Acid)
53	374726-62-2	Mandipropamid
54	12427-38-2	Maneb
55	16484-77-8	Mecoprop-P (MCP-P)
56	70630-17-0	Mefenoxam
57	208465-21-8	Mesosulfuron-Methyl
58	16752-77-5	Methomyl
59	161050-58-4	Methoxyfenozide
60	21087-64-9	Metribuzin
61	2163-80-6	Monosodium Methanearsonate (MSMA)
62	111991-09-04	Nicosulfuron
63	23135-22-0	Oxamyl
64	1610-78-0	Prometon

<i>Table 3: 2011 Groundwater Protection List</i>		
	<i>CAS Number</i>	<i>Chemical Name</i>
65	7287-19-6	Prometryn
66	18311274-15-7	Propoxycarbazone-sodium
67	94125-34-5	Prosulfuron
68.	123312-89-0	Pymetrozine
69	123343-16-8	Pyriithiobac Sodium
70.	84087-01-4	Quinclorac
71	372137-35-4	Saflufenacil
72	81591-81-3	Sulfosate
73	107534-96-3	Tebuconazole
74	112410-23-8	Tebufozenozide
75	153719-23-4	Thiamethoxam
76	317815-83-1	Thiencarbazon-methyl*
77	210631-68-8	Topramezone*
78	117718-60-2	Thiazopyr
79	55335-06-3	Triclopyr
80	199119-58-9	Trifloxysulfuron-Sodium
81	95266-40-3	Trinexapac-Ethyl

* New addition to the GWPL

Bold: Ingredients that have been detected historically in Arizona groundwater.
(Most of the detections have dissipated except for those in Table 5)

Table 4: Agricultural Pesticides on the 2011 Groundwater Protection List (GWPL)

<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
AGRISOLUTIONS STRIKE 3	14774	2		2008-39-1	2,4-D Dimethylamine Salt
LESCO MOMENTUM FX2 HERBICIDE	228	447	10404	32341-80-3	2,4-D Triisopropanolamine Salt
ALLPRO BK32 BRUSH KILLER	228	186	769	1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
FORMULA 190 LIQUID WEED KILLER	10807	205	70799	1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
GORDON'S LV 400 2,4-D WEED KILLER	2217	77		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
LOW VOL 4 ESTER WEED KILLER	34704	124		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
LOW VOL 6 ESTER WEED KILLER	34704	125		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
NUFARM WEEDONE LV4 EC BROAD LEAF HERBICIDE	228	139	71368	1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
RIVERDALE 2,4-D L.V. 4 ESTER	228	139		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
RIVERDALE 2,4-D L.V. 6 ESTER	228	95		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
SALVO LOW VOLATILE WEED KILLER	34704	609		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
SALVO POSTEMERGENCE BROADLEAF HERBICIDE	34704	609		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
SAVAGE CA	34704	606		1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
TENKOZ LO-VOL 4 2,4-D LOW VOLATILE HERBICIDE	228	139	55467	1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
AGRISOLUTIONS E-99	62719	365	1381	94-75-7	2,4-D Acid
AGRISOLUTIONS PHENOXY 088	42750	36	9779	94-75-7	2,4-D Acid
CAMPAIGN HERBICIDE	524	351		94-75-7	2,4-D Acid
HARD BALL	5905	549		94-75-7	2,4-D Acid
HELENA 2010	5905	542		94-75-7	2,4-D Acid
LANDMASTER BW	524	351		94-75-7	2,4-D Acid
NUFARM RECOIL BROAD SPECTRUM HERBICIDE	71368	35		94-75-7	2,4-D Acid
NUFARM WEEDONE 638 BROADLEAF HERBICIDE	71368	3		94-75-7	2,4-D Acid
PATHWAY	62719	31		94-75-7	2,4-D Acid
TENKOZ AMINE 4 2,4-D HERBICIDE	71368	1	55467	94-75-7	2,4-D Acid
TENKOZ LO-VOL 4 SOLVENTLESS	71368	14	55467	94-75-7	2,4-D Acid

Table 4: Agricultural Pesticides on the 2011 Groundwater Protection List (GWPL)

<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
HERBICIDE					
TENKOZ LO-VOL 6 2,4-D LOW VOLATILE HERBICIDE	71368	11	55467	94-75-7	2,4-D Acid
UNISON	5905	542		94-75-7	2,4-D Acid
TURFLON D	62719	67		1929-73-3	2,4-D Butoxyethyl Ester
AGRISOLUTIONS PHENOXY 088	42750	36	9779	94-80-4	2,4-D Butyl Ester+C50
GORDON'S PASTURE PRO HERBICIDE	2217	703		5742-19-8	2,4-D Diethanolamine Salt
AGRISOLUTIONS BRASH	51036	308	9779	2008-39-1	2,4-D Dimethylamine Salt
AGRI STAR 2,4-D AMINE 4 HERBICIDE	42750	19		2008-39-1	2,4-D Dimethylamine Salt
AGRI STAR BY ALBAUGH INC RANGE STAR	42750	55		2008-39-1	2,4-D Dimethylamine Salt
AGRISOLUTIONS 2,4-D AMINE 4	1381	103		2008-39-1	2,4-D Dimethylamine Salt
AMINE 4 2,4-D WEED KILLER	34704	120		2008-39-1	2,4-D Dimethylamine Salt
AMINE 4CA 2,4-D WEED KILLER	34704	5		2008-39-1	2,4-D Dimethylamine Salt
BANVEL +2, 4-D HERBICIDE	51036	308		2008-39-1	2,4-D Dimethylamine Salt
CLEAN AMINE	34700	120		2008-39-1	2,4-D Dimethylamine Salt
DRY SOLUBLE HERBICIDE SAVAGE	34704	606		2008-39-1	2,4-D Dimethylamine Salt
DUPONT CIMARRON MAX HERBICIDE	352	615		2008-39-1	2,4-D Dimethylamine Salt
DUPONT CIMARRON MAX PART B HERBICIDE	352	614		2008-39-1	2,4-D Dimethylamine Salt
ENDRUN	2217	656	5905	2008-39-1	2,4-D Dimethylamine Salt
ESCALADE 2	228	442		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S BRUSH KILLER	2217	543		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S GLYPHO MATE 41	2217	847		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S PASTURE PRO HERBICIDE	2217	703		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S TRIMEC 992 BROADLEAF HERBICIDE	2217	656		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S TRIMEC BROADLEAF HERBICIDE - CLASSIC	2217	543		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S TRIMEC TURF HERBICIDE	2217	517		2008-39-1	2,4-D Dimethylamine Salt
NUFARM WEEDAR 64 BROADLEAF HERBICIDE	71368	1		2008-39-1	2,4-D Dimethylamine Salt
PRO-MATE THREE-WAY CS	2217	493	5905	2008-39-1	2,4-D Dimethylamine Salt
RIFLE-D HERBICIDE	34704	869		2008-39-1	2,4-D Dimethylamine Salt
RIVERDALE ESCALADE	228	417		2008-39-1	2,4-D Dimethylamine Salt
RIVERDALE SOLUTION WATER SOLUBLE	228	260		2008-39-1	2,4-D Dimethylamine Salt
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		2008-39-1	2,4-D Dimethylamine Salt
RIVERDALE WEEDESTROY AM-40 AMINE SALT	228	145		2008-39-1	2,4-D Dimethylamine Salt
SABER HERBICIDE	34704	803		2008-39-1	2,4-D Dimethylamine Salt
SAVAGE DRY SOLUBLE HERBICIDE	34704	606		2008-39-1	2,4-D Dimethylamine Salt
STRIKE 3 ULTRA 2 SELECTIVE HERBICIDE	228	455	1381	2008-39-1	2,4-D Dimethylamine Salt
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		2008-39-1	2,4-D Dimethylamine Salt

Table 4: Agricultural Pesticides on the 2011 Groundwater Protection List (GWPL)

<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
UAP TIMBERLAND PLATOON	228	145		2008-39-1	2,4-D Dimethylamine Salt
WEEDKING HERBICIDE	70907	20	53883	2008-39-1	2,4-D Dimethylamine Salt
BARRAGE HF	5905	529		533-23-3	2,4-D Ethylhexyl Ester
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		533-23-3	2,4-D Ethylhexyl Ester
GORDON'S SpeedZone BROADLEAF HERBICIDE FOR TURF	2217	833		533-23-3	2,4-D Ethylhexyl Ester
AGSCO--AGSCO 400 HERBICIDE	554	83		25168-26-7	2,4-D Isooctyl Ester
NUFARM WEEDONE LV4 SOLVENTLESS BROADLEAF HERBICIDE	71368	14		25168-26-7	2,4-D Isooctyl Ester
NUFARM WEEDONE LV6 EC BROADLEAF HERBICIDE	71368	11		25168-26-7	2,4-D Isooctyl Ester
SHUTOUT	2217	869	5905	25168-26-7	2,4-D Isooctyl Ester
SWB 2,4-D LV4	42750	22	9779	25168-26-7	2,4-D Isooctyl Ester
HIVOL-44	5481	509		94-11-1	2,4-D Isopropyl Ester
LEFFINGWELL-HIVOL-44 PLANT GROWTH REGULATOR	64864	31		94-11-1	2,4-D Isopropyl Ester
RIVERDALE ESCALADE LOW ODOR	228	416		32341-80-3	2,4-D Triisopropanolamine Salt
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		32341-80-3	2,4-D Triisopropanolamine Salt
TORDON 101 MIXTURE	62719	5		32341-80-3	2,4-D Triisopropanolamine Salt
TORDON RTU	62719	31		32341-80-3	2,4-D Triisopropanolamine Salt
ACTIGARD 50 WG PLANT ACTIVATOR	100	922		135158-54-2	Acibenzolar-S-Methyl
AATREX 4L HERBICIDE	100	497		1912-24-9	Atrazine
AATREX NINE-O HERBICIDE	100	585		1912-24-9	Atrazine
AGRISOLUTIONS ATRAZINE 4L	1381	158		1912-24-9	Atrazine
AGRISOLUTIONS STERLING PLUS	51036	307	9779	1912-24-9	Atrazine
AGRISOULTIONS ATRAZINE 90DF	9779	253		1912-24-9	Atrazine
ATRAZINE 4L HERBICIDE	34704	69		1912-24-9	Atrazine
ATRIZINE 90 WDG HERBICIDE	34704	622		1912-24-9	Atrazine
AXIOM AT DF HERBICIDE	264	769		1912-24-9	Atrazine
BASF G-MAX LITE HERBICIDE	7969	200		1912-24-9	Atrazine
BASF GUARDSMAN MAX HERBICIDE	7969	192		1912-24-9	Atrazine
BROMOXYNIL + ATRAZINE HERBICIDE	264	477	66222	1912-24-9	Atrazine
DREXEL ATRAZINE 4L HERBICIDE	19713	11		1912-24-9	Atrazine
DREXEL ATRAZINE 90DF HERBICIDE	19713	76		1912-24-9	Atrazine
DUPONT STEADFAST ATZ HERBICIDE	352	619		1912-24-9	Atrazine
ESTABLISH ATZ HERBICIDE	7969	192	55467	1912-24-9	Atrazine
ESTABLISH LITE HERBICIDE	7969	200	55467	1912-24-9	Atrazine
READY MASTER ATZ HERBICIDE	524	509		1912-24-9	Atrazine
ABOUND FLOWABLE FUNGICIDE	10182	415		131860-33-8	Azoxystrobin

Table 4: Agricultural Pesticides on the 2011 Groundwater Protection List (GWPL)

<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
ABOUND FLOWABLE FUNGICIDE	100	1098		131860-33-8	Azoxystrobin
AMISTAR FUNGICIDE	100	1164		131860-33-8	Azoxystrobin
AZOXYSTROBIN DRY TECHNICAL MANUFACTURING USE CONCENTRATE FUNGICIDE	100	1120		131860-33-8	Azoxystrobin
BAYER CROPSCIENCE PROTÉGÉ FL SEED APPLIED FUNGICIDE	264	982		131860-33-8	Azoxystrobin
BAYER CROPSCIENCE SOYGARD L WITH PROTÉGÉ	264	991		131860-33-8	Azoxystrobin
DYNASTY	100	1159		131860-33-8	Azoxystrobin
DYNASTY CST FUNGICIDE	100	1177		131860-33-8	Azoxystrobin
HEADWAY FUNGICIDE	100	1216		131860-33-8	Azoxystrobin
HERITAGE FUNGICIDE	100	1093		131860-33-8	Azoxystrobin
HERITAGE TL	100	1191		131860-33-8	Azoxystrobin
PROTÉGÉ FL	7501	188		131860-33-8	Azoxystrobin
PROTÉGÉ XT	7501	186		131860-33-8	Azoxystrobin
QUADRI FLOWABLE FUNGICIDE	100	1098		131860-33-8	Azoxystrobin
QUADRI FLOWABLE FUNGICIDE	10182	415		131860-33-8	Azoxystrobin
QUADRI OPTI FUNGICIDE	100	1171		131860-33-8	Azoxystrobin
QUILT FUNGICIDE	100	1178		131860-33-8	Azoxystrobin
SOYGARD L WITH PROTÉGÉ	7501	201		131860-33-8	Azoxystrobin
BROMACIL 80 WP HERBICIDE	70506	83		314-40-9	Bromacil
BROMACIL/DIURON 40+40 DF HERBICIDE	70506	84		314-40-9	Bromacil
FORMULA 190 LIQUID WEED KILLER	10807	205	70799	314-40-9	Bromacil
ALLPRO 10% CARBARYL DUST	769	229		63-25-2	Carbaryl
ALLPRO CARBARYL 4L	45735	25	769	63-25-2	Carbaryl
ALLPRO CARBARYL 50WP	769	972		63-25-2	Carbaryl
ALLPRO CARBARYL 80S	769	574		63-25-2	Carbaryl
CARBARYL 4L INSECTICIDE	34704	447		63-25-2	Carbaryl
CARBARYL BAIT	34704	483		63-25-2	Carbaryl
CARBARYL CUTWORM BAIT	11656	21		63-25-2	Carbaryl
DREXEL CARBARYL 4L	19713	49		63-25-2	Carbaryl
GOWAN SEVIN BAIT AGRICULTURE POISON BAIT	10163	32		63-25-2	Carbaryl
PROKOZ SEVIN SL	432	1227	72112	63-25-2	Carbaryl
SEVIN 10 DUST	2935	320		63-25-2	Carbaryl
SEVIN 5 BAIT	2935	366		63-25-2	Carbaryl
SEVIN 5 BAIT	34704	23		63-25-2	Carbaryl
SEVIN 5 GRANULAR	34704	373		63-25-2	Carbaryl
SEVIN 80 WSP CARBARYL INSECTICIDE	432	1226		63-25-2	Carbaryl
SEVIN BRAND 4F CARBARYL INSECTICIDE	264	349		63-25-2	Carbaryl
SEVIN BRAND 50W CARBARYL INSECTICIDE	264	314		63-25-2	Carbaryl
SEVIN BRAND 80 WSP CARBARYL	264	526		63-25-2	Carbaryl

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<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
INSECTICIDE					
SEVIN BRAND 80S CARBARYL INSECTICIDE	264	316		63-25-2	Carbaryl
SEVIN BRAND RP4 CARBARYL INSECTICIDE	264	335		63-25-2	Carbaryl
SEVIN BRAND XLR PLUS CARBARYL INSECTICIDE	264	333		63-25-2	Carbaryl
SEVIN SL CARBARYL INSECTICIDE	432	1227		63-25-2	Carbaryl
AIM EC HERBICIDE	279	3241		128639-02-1	Carfentrazone-Ethyl
AIM EW HERBICIDE	279	3242		128639-02-1	Carfentrazone-Ethyl
AIM HERBICIDE	279	3194		128639-02-1	Carfentrazone-Ethyl
GORDON'S POWER ZONE BROADLEAF HERBICIDE FOR TURF	2217	834		128639-02-1	Carfentrazone-Ethyl
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		128639-02-1	Carfentrazone-Ethyl
GORDON'S SpeedZone ST AUGUSTINE FORMULA BROADLEAF HERBICIDE	2217	835		128639-02-1	Carfentrazone-Ethyl
SHUTOUT	2217	869	5905	128639-02-1	Carfentrazone-Ethyl
BATTLESHIP PREMIUM SELECTIVE HERBICIDE	228	371	5905	1702-17-6	Clopyralid
CONFRONT	62719	92		1702-17-6	Clopyralid
LONTREL TURF AND ORNAMENTAL	62719	305		1702-17-6	Clopyralid
RECLAIM	62719	83		1702-17-6	Clopyralid
STINGER	62719	73		1702-17-6	Clopyralid
TRANSLINE	62719	259		1702-17-6	Clopyralid
DORMEX	54555	2		420-04-2	Cyanamide
FINISH 6 PRO HARVEST AID FOR COTTON	264	703		113136-72-9	Cyclanilide
STANCE PLANT REGULATOR	264	841		113136-72-9	Cyclanilide
BATTALION 0.2 EC	264	1007	66330	52918-63-5	Deltamethrin
DECIS 1.5 EC INSECTICIDE	34147	12	264	52918-63-5	Deltamethrin
DECIS 1.5 EC INSECTICIDE	264	1011		52918-63-5	Deltamethrin
DELTA GOLD INSECTICIDE	264	1011	1381	52918-63-5	Deltamethrin
DELTADUST INSECTICIDE	432	772		52918-63-5	Deltamethrin
DELTAGARD G INSECTICIDE GRANULE	432	836		52918-63-5	Deltamethrin
DELTAGARD GC 5 SC INSECTICIDE	432	835		52918-63-5	Deltamethrin
DELTAGARD GC GRANULAR INSECTICIDE	432	837		52918-63-5	Deltamethrin
DELTAGARD T & O GRANULAR INSECTICIDE	432	836		52918-63-5	Deltamethrin
DELTAGARD T&O 5SC INSECTICIDE	432	834		52918-63-5	Deltamethrin
ALPHANEX HERBICIDE	264	620	70506	13684-56-5	Desmedipham
PHEN-DES 8 + 8 HERBICIDE	70506	89		13684-56-5	Desmedipham
PHEN-DES 8+8 HERBICIDE	264	621	70506	13684-56-5	Desmedipham
ESCALADE 2	228	442		1918-00-9	Dicamba
GORDON'S POWER ZONE BROADLEAF	2217	834		1918-00-9	Dicamba

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<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
HERBICIDE FOR TURF					
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		1918-00-9	Dicamba
GORDON'S SpeedZone ST AUGUSTINE FORMULA BROADLEAF HERBICIDE	2217	835		1918-00-9	Dicamba
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		1918-00-9	Dicamba
RIVERDALE ESCALADE LOW ODOR	228	416		1918-00-9	Dicamba
VANQUISH HERBICIDE	100	884		1918-00-9	Dicamba
RIVERDALE VANQUISH HERBICIDE	228	397		104040-79-1	Dicamba, DGA Salt
AGRI STAR BY ALBAUGH INC RANGE STAR	42750	55		2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS BRASH	51036	308	9779	2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS STERLING	51036	289	9779	2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS STRIKE 3	14774	2		2300-66-5	Dicamba, DMA SALT
BANVEL HERBICIDE	51036	289		2300-66-5	Dicamba, DMA SALT
DICAM	81142	5		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX HERBICIDE	352	615		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX PART B HERBICIDE	352	614		2300-66-5	Dicamba, DMA SALT
GHARDA CHEMICALS LIMITED ORACLE DICAMBA AGRICULTURAL HERBICIDE	33658	14		2300-66-5	Dicamba, DMA SALT
GORDONS TRIMEC 992 BROADLEAF HERBICIDE	2217	656		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC BROADLEAF HERBICIDE - CLASSIC	2217	543		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC PLUS POST EMERGENT GRASS & BROADLEAF HERBICIDE	2217	709		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC TURF HERBICIDE	2217	517		2300-66-5	Dicamba, DMA SALT
ORACLE DICAMBA AGRICULTURAL HERBICIDE	70907	12		2300-66-5	Dicamba, DMA SALT
PRIMERA TRIPLET LOW ODOR	228	409		2300-66-5	Dicamba, DMA SALT
PRO-MATE THREE-WAY CS	2217	493	5905	2300-66-5	Dicamba, DMA SALT
Q4 TURF HERBICIDE FOR GRASSY & BROADLEAF WEEDS	2217	886		2300-66-5	Dicamba, DMA SALT
RIFLE-D HERBICIDE	34704	869		2300-66-5	Dicamba, DMA SALT
RIVERDALE DIABLO HERBICIDE	228	379		2300-66-5	Dicamba, DMA SALT
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		2300-66-5	Dicamba, DMA SALT
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		2300-66-5	Dicamba, DMA SALT
STERLING	1381	190		2300-66-5	Dicamba, DMA SALT
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		2300-66-5	Dicamba, DMA SALT
WEEDKING HERBICIDE	70907	20	53883	2300-66-5	Dicamba, DMA SALT

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AGRISOLUTIONS STERLING PLUS	51036	307	9779	10007-85-9	Dicamba, Potassium Salt
DISTINCT HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
OVERDRIVE HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
YUKON HERBICIDE	33906	11	524	1982-69-0	Dicamba, Sodium Salt
ACROBAT 50WP FUNGICIDE	241	410		110488-70-5	Dimethomorph
CABRIO TEAM FUNGICIDE	7969	229		110488-70-5	Dimethomorph
FORUM FUNGICIDE	241	427		110488-70-5	Dimethomorph
STATURE DM FUNGICIDE	241	419	67690	110488-70-5	Dimethomorph
STATURE FUNGICIDE, SEPRO	241	411	67690	110488-70-5	Dimethomorph
SAFARI 20 SG INSECTICIDE	33657	16	59639	165252-70-0	Dinotofuran
VALENT VENOM INSECTICIDE	59639	135		165252-70-0	Dinotofuran
VENOM 20 SG INSECTICIDE	33657	17	59639	165252-70-0	Dinotofuran
AGRISOLUTIONS DIURON 4L	9779	329		330-54-1	Diuron
AGRISOLUTIONS DIURON TVC 80DF	9779	318		330-54-1	Diuron
BROMACIL/DIURON 40+40 DF HERBICIDE	70506	84		330-54-1	Diuron
DIREX 4L HERBICIDE	1812	257		330-54-1	Diuron
DIURON 8- WDG WEED KILLER	34704	648		330-54-1	Diuron
DIURON 80 HERBICIDE	19713	274		330-54-1	Diuron
DIURON 80 WDG WEED KILLER	34704	648		330-54-1	Diuron
DREXEL DIURON 4L	19713	36		330-54-1	Diuron
DUPONT LAYBY PRO HERBICIDE	352	660		330-54-1	Diuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-54-1	Diuron
DUPONT VELPAR ALFAMAX GOLD	352	666		330-54-1	Diuron
DUPONT VELPAR ALFAMAX HERBICIDE	352	665		330-54-1	Diuron
GRIFFIN KARMEX XP HERBICIDE	1812	362		330-54-1	Diuron
KARMEX DF HERBICIDE	1812	362		330-54-1	Diuron
SUREFIRE	100	1010	34704	330-54-1	Diuron
THIDIAZURON+DIURON EC COTTON DEFOLIANT	51036	429		330-54-1	Diuron
DENIM INSECTICIDE	100	903		137512-74-4	Emamectin Benzoate
PROCLAIM INSECTICIDE	100	904		137512-74-4	Emamectin Benzoate
ENDOSULFAN 3 EC	51036	92		115-29-7	Endosulfan
ENDOSULFAN 50WP	51036	91		115-29-7	Endosulfan
FULEX THIODAN INSECTICIDAL SMOKE	1327	35		115-29-7	Endosulfan
GOWAN ENDOSULFAN 50 WSB	10163	130		115-29-7	Endosulfan
GOWAN ENDOSULFAN 50W	10163	98		115-29-7	Endosulfan
PHASER 50WSB INSECTICIDE	264	656		115-29-7	Endosulfan
THIODAN WSB INSECTICIDE	279	3129		115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 3EC	279	2924	66222	115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 50W	279	1380	66222	115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 50WSB	279	3129	66222	115-29-7	Endosulfan
THIONEX 3EC	66222	63		115-29-7	Endosulfan
THIONEX 50W INSECTICIDE	66222	62		115-29-7	Endosulfan
KATANA TURF HERBICIDE	71512	2217		104040-78-0	Flazasulfuron

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ARIA INSECTICIDE	279	3287		158062-67-0	Flonicamid
BELEAF 50 SG INSECTICIDE	71512	10	279	158062-67-0	Flonicamid
CARBINE 50WG INSECTICIDE	71512-	9	279	158062-67-0	Flonicamid
AXIOM AT DF HERBICIDE	264	769		142459-58-3	Flufenacet (Thiafluamide)
AXIOM DF HERBICIDE	264	766		142459-58-3	Flufenacet (Thiafluamide)
AXIOM DF HERBICIDE	3125	488		142459-58-3	Flufenacet (Thiafluamide)
BAYER CROP SCIENCE DEFINE SC HERBICIDE	264	819		142459-58-3	Flufenacet (Thiafluamide)
DEFINE DF HERBICIDE	264	765		142459-58-3	Flufenacet (Thiafluamide)
DISARM 480 SC FUNGICIDE	66330	64		193740-76-0	Fluoxastrobin
ENVITO 480 SC	66330	64		193740-76-0	Fluoxastrobin
CONTRAST 70 WSP	432	1223	58185	66332-96-5	Flutolanil
CONTRAST 70 WSP	45639	208	58185	66332-96-5	Flutolanil
FLUTOLANIL TECHNICAL	71711	5		66332-96-5	Flutolanil
MONCOAT MZ POTATO SEED-PIECE TREATMENT	71711	8		66332-96-5	Flutolanil
MONCUT 70-DF FUNGICIDE FOR USE ON PEANUTS, RICE AND POTATOES	71711	14	10163	66332-96-5	Flutolanil
FINALE HERBICIDE	432	1229		77182-82-2	Glufosinate-Ammonium
IGNITE 280 SL HERBICIDE	264	829		77182-82-2	Glufosinate-Ammonium
IGNITE HERBICIDE	264	660		77182-82-2	Glufosinate-Ammonium
LIBERTY HERBICIDE	264	660		77182-82-2	Glufosinate-Ammonium
RELY HERBICIDE	264	652		77182-82-2	Glufosinate-Ammonium
REMOVE HERBICIDE	264	663		77182-82-2	Glufosinate-Ammonium
MACH 2* 1.5G	62719	473	38167	112226-61-6	Halofenozide
MANAGE TURF HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SANDEA HERBICIDE	10163	254		100784-20-1	Halosulfuron-Methyl
SEDGEHAMMER TURF HERBICIDE	81880	1	10163	100784-20-1	Halosulfuron-Methyl
SEMPRA CA	524	524		100784-20-1	Halosulfuron-Methyl
SEMPRA CA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SEMPRA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
YUKON HERBICIDE	33906	11	524	100784-20-1	Halosulfuron-Methyl
RAPTOR HERBICIDE	241	379		114311-32-9	Imazamox
PURSUIT DG	241	350		81335-77-5	Imazethapyr
PURSUIT W DG HERBICIDE ECO-PAK	241	386		81335-77-5	Imazethapyr
ADMIRE 2 FLOWABLE	3125	422		138261-41-3	Imidacloprid
ADMIRE PRO SYSTEMIC PROTECTANT INSECTICIDE	264	827		138261-41-3	Imidacloprid
AGRISOLUTIONS CONCUR SEED TREATMENT	7501	197	1381	138261-41-3	Imidacloprid
ALIAS 2F FLOWABLE INSECTICIDE	264	758	66222	138261-41-3	Imidacloprid

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<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
ALLECTUS GC GRANULAR INSECTICIDE	432	1416		138261-41-3	Imidacloprid
ALLECTUS GC SC	432	1421		138261-41-3	Imidacloprid
ANDERSONS GOLF PRODUCTS TURF FERTILIZER 14-0-14 WITH MERIT INSECTICIDE	432	1349	9198	138261-41-3	Imidacloprid
ARECA	432	1369	59807	138261-41-3	Imidacloprid
BAYER CROP SCIENCE AE F106464 00 SC43 A4 INSECTICIDE	264	827		138261-41-3	Imidacloprid
BAYER CROPS SCIENCE GAUCHO 480 FLOWABLE	264	957		138261-41-3	Imidacloprid
BAYER CROPS SCIENCE GAUCHO GRANDE SEED-APPLIED INSECTICIDE	264	968		138261-41-3	Imidacloprid
BAYER CROPS SCIENCE TOPS-MZ-GAUCHO POTATO SEED-PIECE TREATMENT	264	977		138261-41-3	Imidacloprid
COURAZE 1.6F INSECTICIDE	264	763	67760	138261-41-3	Imidacloprid
COURAZE 2F INSECTICIDE	264	758	67760	138261-41-3	Imidacloprid
COURAZE MAX 4F	264	783	67760	138261-41-3	Imidacloprid
COURAZE SOLUPAK INSECTICIDE	264	761	67760	138261-41-3	Imidacloprid
DOMINION 0.5 GRANULAR INSECTICIDE	432	1328	53883	138261-41-3	Imidacloprid
GARANT T & O 2F INSECTICIDE	432	1312	67760	138261-41-3	Imidacloprid
GARANT T & O 75 WSP INSECTICIDE	432	1318	67760	138261-41-3	Imidacloprid
GAUCHO 480	7501	155		138261-41-3	Imidacloprid
GAUCHO 600	7501	173		138261-41-3	Imidacloprid
GAUCHO 600 FLOWABLE	264	968		138261-41-3	Imidacloprid
GAUCHO GRANDE SEED-APPLIED INSECTICIDE	7501	173		138261-41-3	Imidacloprid
GAUCHO MZ	7501	184		138261-41-3	Imidacloprid
GENESIS	264	758	7501	138261-41-3	Imidacloprid
GENESIS FLOWABLE	3125	422	7501	138261-41-3	Imidacloprid
HUNTER 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
IMIDACLOPRID 4F INSECTICIDE	264	783	66222	138261-41-3	Imidacloprid
IMIDIPRO SYSTEMIC INSECTICIDE	42750	115	2217	138261-41-3	Imidacloprid
IMPULSE 1.6 FL				138261-41-3	Imidacloprid
LATITUDE SEED TREATMENT	7501	198		138261-41-3	Imidacloprid
LESCO BANDIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
LEVERAGE 2.7 SUSPENSION EMULSION INSECTICIDE	264	770		138261-41-3	Imidacloprid
LEVERAGE 2.7 SUSPENSION EMULSION INSECTICIDE	3125	524		138261-41-3	Imidacloprid
MACHO 2.0 FL	42750	110		138261-41-3	Imidacloprid
MAJESTY	432	1369	59807	138261-41-3	Imidacloprid
MARATHON 1% GRANULAR GREENHOUSE & NURSERY INSECTICIDE	432	1329	59807	138261-41-3	Imidacloprid
MARATHON 60 WP GREENHOUSE AND	432	1361	59807	138261-41-3	Imidacloprid

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NURSERY INSECTICIDE IN WATER SOLUBLE PACKAGING					
MARATHON II GREENHOUSE AND NURSERY INSECTICIDE	432	1369	59807	138261-41-3	Imidacloprid
MERIT 2 INSECTICIDE	3125	418		138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	432	1314		138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	3125	421		138261-41-3	Imidacloprid
MERIT 75 WSP INSECTICIDE	3125	439		138261-41-3	Imidacloprid
MERIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
PASADA 1.6F FLOWABLE INSECTICIDE	264	763	66222	138261-41-3	Imidacloprid
PASADA 75 WSB	264	761	66222	138261-41-3	Imidacloprid
PRO-MATE MERIT 0.2% PLUS TURF FERTILIZER	432	1349	5905	138261-41-3	Imidacloprid
PROVADO 1.6 FLOWABLE INSECTICIDE	3125	457		138261-41-3	Imidacloprid
PROVADO 1.6 FLOWABLE INSECTICIDE	264	763		138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WETTABLE POWDER INSECTICIDE IN WATER SOLUBLE PACKETS	264	761		138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WP INSECTICIDE IN WSP	3125	428		138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 0.5G INSECTICIDE	432	1328	73220	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 2 F INSECTICIDE	432	1312	73220	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 75 WSB INSECTICIDE	432	1318	73220	138261-41-3	Imidacloprid
SIGNATURE BRAND FERTILIZER WITH 0.2% MERIT 21-3-8	432	1349	65783	138261-41-3	Imidacloprid
SIGNATURE BRAND FERTILIZER WITH 0.2% MERIT 7-0-0	432	1349	65783	138261-41-3	Imidacloprid
SIGNATURE FERTILIZER WITH MERIT 0.2%	432	1349	65783	138261-41-3	Imidacloprid
SUBMERGE 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
THE ANDERSONS PROFESSIONAL TURF PRODUCTS FERTILIZER 22-3-8 WITH MERIT INSECTICIDE	432	1349	9198	138261-41-3	Imidacloprid
TOPS-MZ-GAUCHO	7501	183		138261-41-3	Imidacloprid
ZENITH 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
DUPONT LAYBY PRO HERBICIDE	352	660		330-55-2	Linuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-55-2	Linuron
LINEX 4L HERBICIDE	1812	245		330-55-2	Linuron
LOROX DF HERBICIDE	1812	320		330-55-2	Linuron
DUPONT MANEX FUNGICIDE	352	655		12427-38-2	Maneb
MANEB 75DF FUNGICIDE	4581	371	82695	12427-38-2	Maneb
MANEB 75DF DRY FLOWABLE FUNGICIDE	4581	371		12427-38-2	Maneb
MANEB 80 WP FUNGICIDE	4581	255		12427-38-2	Maneb

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MANEB 80WP FUNGICIDE	4581	255	82695	12427-38-2	Maneb
MANEX FUNGICIDE FLOWABLE WITH ZINC	1812	251		12427-38-2	Maneb
PENTATHLON FUNGICIDE FLOWABLE WITH ZINC	1812	251		12427-38-2	Maneb
POTATO SEED TREATER 6%	2935	541	34704	12427-38-2	Maneb
POTATO SEED TREATER PS	2935	539	34704	12427-38-2	Maneb
SHUTOUT	2217	869	5905	16484-77-8	Mecoprop-P (MCP-P)
AGRISOLUTIONS STRIKE 3	14774	2		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
ENDRUN	2217	656	5905	66423-09-4	Mecoprop-P (MCP-P), DMA Salt
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
GORDON'S TRIMEC TURF HERBICIDE	2217	517		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
PRO-MATE THREE-WAY CS	2217	493	5905	66423-09-4	Mecoprop-P (MCP-P), DMA Salt
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
AGRISOLUTIONS CATAPULT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
AGRISOLUTIONS INCENTIVE RTA	100	826	1381	70630-17-0	Mefenoxam
AgriSolutions WARDEN RTA	100	1146	1381	70630-17-0	Mefenoxam
APRON XL LS FUNGICIDE	100	799		70630-17-0	Mefenoxam
DELTA COAT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
DIVIDEND XL FUNGICIDE	100	885		70630-17-0	Mefenoxam
DIVIDEND XL RTA FUNGICIDE	100	826		70630-17-0	Mefenoxam
DYNASTY CST FUNGICIDE	100	1177		70630-17-0	Mefenoxam
MAXIM XL FUNGICIDE	100	916		70630-17-0	Mefenoxam
PLATINUM RIDOMIL GOLD	100	974		70630-17-0	Mefenoxam
QUALI-PRO MEFENOXAM 2 AQ	70252	11	73220	70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO FUNGICIDE	100	800		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO SC FUNGICIDE	100	1221		70630-17-0	Mefenoxam
RIDOMIL GOLD COPPER FUNGICIDE	100	804		70630-17-0	Mefenoxam
RIDOMIL GOLD EC	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD GR FUNGICIDE	100	798		70630-17-0	Mefenoxam
RIDOMIL GOLD MZ FUNGICIDE	100	803		70630-17-0	Mefenoxam

Table 4: Agricultural Pesticides on the 2011 Groundwater Protection List (GWPL)

<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
RIDOMIL GOLD PC GR	100	823		70630-17-0	Mefenoxam
RIDOMIL GOLD PC GRANULAR FUNGICIDE	100	792		70630-17-0	Mefenoxam
RIDOMIL GOLD SL FUNGICIDE	100	1202		70630-17-0	Mefenoxam
RIDOMIL GOLD WSP FUNGICIDE	100	802		70630-17-0	Mefenoxam
SUBDUE GR	100	794		70630-17-0	Mefenoxam
SUBDUE GR GRANULAR FUNGICIDE	100	794		70630-17-0	Mefenoxam
SUBDUE MAXX FUNGICIDE	100	796		70630-17-0	Mefenoxam
OSPREY HERBICIDE	264	802		208465-21-8	Mesosulfuron-Methyl
INTREPID 2F	62719	442		161050-58-4	Methoxyfenozide
INTREPID 2F AGRIC. INSECTICIDE	707	277		161050-58-4	Methoxyfenozide
AXIOM AT DF HERBICIDE	264	769		21087-64-9	Metribuzin
AXIOM DF HERBICIDE	264	766		21087-64-9	Metribuzin
METRI DF 75% FLOWABLE HERBICIDE	70506	103		21087-64-9	Metribuzin
METRI DF DRY FLOWABLE HERBICIDE	79604	2		21087-64-9	Metribuzin
METRIBUZIN DF 75% DRY FLOWABLE HERBICIDE	264	738		21087-64-9	Metribuzin
METRIBUZIN4 FLOWABLE HERBICIDE	264	735		21087-64-9	Metribuzin
SENCOR 75% DRY FLOWABLE HERBICIDE	3125	325		21087-64-9	Metribuzin
SENCOR SOLUPAK75% DF HERBICIDE WSP	3125	402		21087-64-9	Metribuzin
AGRISOLUTIONS 120 HERBICIDE	9779	96		2163-80-6	MSMA
AGRISOLUTIONS 912 HERBICIDE	9779	133		2163-80-6	MSMA
ANSAR 6.6	61483	17		2163-80-6	MSMA
BUENO 6	61483	15		2163-80-6	MSMA
DREXEL MSMA 6 PLUS	19713	42		2163-80-6	MSMA
GORDON'S TRIMEC PLUS POST EMERGENT GRASS & BROADLEAF HERBICIDE	2217	709		2163-80-6	MSMA
MSMA 6 PLUS	34704	115		2163-80-6	MSMA
PROKOZ TURFMAX MSMA 6.6	42750	28	72112	2163-80-6	MSMA
TARGET 6 PLUS	42519	3		2163-80-6	MSMA
TARGET 6.6	42519	1		2163-80-6	MSMA
TENKOZ MSMA 6 PLUS	42750	29	55467	2163-80-6	MSMA
WEED-HOE	61483	15	17545	2163-80-6	MSMA
WEED-HOE	50534	6	17545	2163-80-6	MSMA
DUPONT STEADFAST HERBICIDE	352	608		111991-09-4	Nicosulfuron
DUPONT VYDATE C-LV INSECTICIDE/NEMATICIDE	352	382		23135-22-0	Oxamyl
VYDATE L INSECTICIDE/NEMATICIDE	352	372		23135-22-0	Oxamyl
PRAMITOL 25E HERBICIDE	66222	22		1610-78-0	Prometon
CAPAROL 4L HERBICIDE	100	620		7287-19-6	Prometryn
COTTON PRO	66222	15		7287-19-6	Prometryn
COTTON-PRO HERBICIDE	1812	274		7287-19-6	Prometryn
GOWAN PROMETRYNE 4L HERBICIDE	10163	94		7287-19-6	Prometryn
PROMETRYN 4L	66222	15		7287-19-6	Prometryn

Table 4: Agricultural Pesticides on the 2011 Groundwater Protection List (GWPL)

<i>Brand Name</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>CAS NUMBER</i>	<i>ACTIVE INGREDIENT</i>
PROMETRYN 4L CA/AZ	1812	274	66222	7287-19-6	Prometryn
PROMETRYNE 4L HERBICIDE	34704	692		7287-19-6	Prometryn
PROMETRYNE 4L HERBICIDE	9779	297		7287-19-6	Prometryn
CUSTOM PAK PEAK HERBICIDE	100	763		94125-34-5	Prosulfuron
PEAK ACCU-PAK HERBICIDE	100	763		94125-34-5	Prosulfuron
PEAK-CUSTOMPAK HERBICIDE	100	763		94125-34-5	Prosulfuron
ENDEAVOR INSECTICIDE	100	913		123312-89-0	Pymetrozine
FULFILL INSECTICIDE	100	912		123312-89-0	Pymetrozine
FUSILADE DX HERBICIDE	100	1070		123312-89-0	Pymetrozine
DUPONT STAPLE LX HERBICIDE	352	613		123343-16-8	Pyrithiobac-Sodium
STAPLE HERBICIDE	352	576	279	123343-16-8	Pyrithiobac-Sodium
DRIVE 75 DF HERBICIDE	7969	130		84087-01-4	Quinclorac
Q4 TURF HERBICIDE FOR GRASS & WEEDS	2217	886		84087-01-4	Quinclorac
INTEGRITY X POWERED HERBICIDE	7969	279		372137-35-4	Saflufenacil
OPTILL X POWERED HERBICIDE	7969	280		372137-35-4	Saflufenacil
SHARPEN X POWERED HERBICIDE	7969	278		372137-35-4	Saflufenacil
TREEVIX POWERED HERBICIDE	7969	276		372137-35-4	Saflufenacil
VERDICTÖ POWERERED HERBICIDE	7969	279		372137-35-4	Saflufenacil
ADAMENT 50 WG FUNGICIDE	264	1052		107534-96-3	Tebuconazole
BAYER CROPSCIENCE RAXIL - THIRAM FLOWABLE FUNGICIDE	264	955		107534-96-3	Tebuconazole
ORIOUS 20AQ FOLIAR FUNGICIDE	66622	128		107534-96-3	Tebuconazole
PROCEED MD FUNGICIDE	264	1072		107534-96-3	Tebuconazole
CONFIRM 2F	62719	420		112410-23-8	Tebufenozide
CONFIRM 2F AGRICULTURAL INSECTICIDE (SEC18 98-AZ-09,10)	707	238		112410-23-8	Tebufenozide
CONFIRM T/O	62719	420		112410-23-8	Tebufenozide
CONFIRM T/O INSECTICIDE	707	238		112410-23-8	Tebufenozide
MIMIC 2LV AGRICULTURAL INSECTICIDE	707	270		112410-23-8	Tebufenozide
VISOR 2E HERBICIDE	707	251		112410-23-8	Tebufenozide
ACTARA INSECTICIDE	100	938		153719-23-4	Thiamethoxam
CENTRIC 40WG INSECYICIDE	100	1147		153719-23-4	Thiamethoxam
CENTRIC INSECTICIDE	100	968		153719-23-4	Thiamethoxam
CRUISER 5FS insecticide	100	941		153719-23-4	Thiamethoxam
FLAGSHIP 25WG	100	955		153719-23-4	Thiamethoxam
PLATINUM INSECTICIDE	100	939		153719-23-4	Thiamethoxam
PLATINUM RIDOMIL GOLD	100	974		153719-23-4	Thiamethoxam
VISOR 2E	62719	431		117718-60-2	Thiazopyr
ENVOKE HERBICIDE	100	1132		199119-58-9	Trifloxysulfuron-Sodium
PRIMO	100	729		95266-40-3	Trinexapac-Ethyl
PRIMO LIQUID	100	729		95266-40-3	Trinexapac-Ethyl
PRIMO MAXX	100	937		95266-40-3	Trinexapac-Ethyl
PRIMO WSB	100	752		95266-40-3	Trinexapac-Ethyl

Groundwater Monitoring and Testing (A.R.S. § 49-307.A)

Pursuant to A.R.S. § 49-307, in order to accurately determine the mobility of pesticides with active ingredients on the GWPL, ADEQ is required to conduct regular monitoring and testing of groundwater in areas where these pesticides are widely used. In the past, ADEQ's groundwater monitoring effort was confined to two areas; Yuma and Maricopa Counties where extensive pesticide usage, permeable soils and shallow groundwater make them vulnerable to pesticide pollution. In April 2010, the groundwater monitoring network was extended to the Safford-Thatcher area of Graham County where seven new monitoring wells were installed with the help of funds provided by the EPA through the ADA.

In 2010, groundwater samples were collected twice; during the spring and fall seasons in the Yuma Buckeye and Safford areas. A few GWPL pesticide active ingredients have been detected in groundwater at very low concentrations in the range of parts per billion (Table 5). Imazamox and Imazethapyr are new additions to the list. These active ingredients are described as "*detected pesticides of interest*" based on the fact that they have been detected and confirmed during at least two sampling events. None of the pesticide active ingredients on this list belong to those identified by the EPA as "Pesticides of Interest". No regulatory action is required to be taken on these pesticides although changes in their concentrations are being closely monitored. None of the concentrations detected in groundwater exceed any applicable federal or state standards, and do not constitute any appreciable risk to human health.

<i>Table 5: Detected Pesticides of Interest in Groundwater</i>		
<i>Active Ingredient</i>	<i>Type of Pesticide</i>	<i>Concentration Range</i> (parts per billion)*
Atrazine	Herbicide	(0.02 – 0.36)
Dimethomorph	Fungicide	(0.02 – 0.28)
Diuron	Herbicide	(0.02 – 0.30)
Imazamox	Herbicide	(0.02 – 0.09)
Imazethapyr	Herbicide	(0.02 – 0.11)
Imidacloprid	Insecticide	(0.02 – 1.64)
Methoxyfenozide	Insecticide	(0.02 – 4.10)
Prometryn/Prometon	Herbicide	(0.02 – 0.96)

* Detection limit 0.02 ppb

Bold: New additions to the 2010 GWPL

Use Information on Agricultural Pesticides on the GWPL (A.R.S. § 49-303.C.4)

State statutes and rules require a pesticide user to file reports on the use of agricultural-use pesticides on the GWPL (A.R.S. § 49-305.B and A.A.C. R18-6-303.B). Since this information can be obtained from the pesticide application report (Form 1080) that pesticide users must submit to the ADA prior to use, ADEQ allows the use of Form 1080 to fulfill this reporting requirement. The pesticide use information is presented in the following tables that were prepared with the assistance of the ADA:

- Use information on agricultural-use pesticides on the GWPL in Table 3 that were intended for soil application *within* Arizona between Jan. 1, 2010 and Dec. 31, 2010 (Table 6).
- Use information on agricultural-use pesticides on the GWPL in Table 3 that were intended for soil application *within each county* in Arizona between Jan. 1, 2010 and Dec. 31, 2010 (Table 7).

Table 6: Reported Use of Pesticides in Arizona January - December 2010

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
ACTIGARD 50 WG PLANT ACTIVATOR	M	100	922	0	1,2,3-Benzothiadiazole	2353.66	OZS	3131.61	50	1176.83	OZS
BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	1,2,3-Benzothiadiazole	1210.47	OZS	1526.13	50	605.24	OZS
FULFILL INSECTICIDE	I	100	912	0	1,2,4-Triazin	217.00	LBS	1444.01	50	108.50	LBS
AGRISOLUTIONS 2,4-D AMINE 4	H	1381	103	0	2,4-D, dimethylamine salt	47.50	GAL	480	47.3	22.47	GAL
AMINE 4 2,4-D WEED KILLER	H	34704	120	0	2,4-D, dimethylamine salt	194.15	GAL	1032.7	46.5	90.28	GAL
CLEAN AMINE	H	34704	120	0	2,4-D, dimethylamine salt	115.00	GAL	595	47.5	54.63	GAL
NUFARM WEEDAR 64 BROADLEAF HERBICIDE	H	71368	1	0	2,4-D, dimethylamine salt	157.48	GAL	1280	46.8	73.70	GAL
PURSUIT HERBICIDE	H	241	310	0	Ammonium salt	390.39	GAL	12947.8	22.87	89.28	GAL
THUNDER	H	42750	146	0	Ammonium salt	134.63	GAL	4386.5	22.87	30.79	GAL
AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1727.64	GAL	5475.2	42.6	735.97	GAL
AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	188.45	GAL	1051.5	42.12	79.37	GAL
ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	1554.18	GAL	2632.9	42.2	655.86	GAL
ATRAZINE 90DF HERBICIDE	H	19713	76	0	Atrazine	475.00	LBS	34.5	85.5	406.13	LBS
ATRIZINE 90 WDG HERBICIDE	H	34704	622	0	Atrazine	205.00	LBS	470	88.5	181.43	LBS
DREXEL ATRAZINE 4L HERBICIDE	H	19713	11	0	Atrazine	30.00	GAL	120	42.2	12.66	GAL
ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	112.64	GAL	1069.35	22.9	25.79	GAL
QUADRIIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	558.42	GAL	5637.26	22.9	127.88	GAL
CLARITY HERBICIDE	H	7969	137	0	Benzoic acid	1069.17	GAL	8040.5	56.8	607.29	GAL
STRUT HERBICIDE	H	34704	1043	0	Benzoic acid	3.90	GAL	125	56.8	2.22	GAL
SEVIN 5 BAIT	I	2935	366	0	Carbaryl	3200.00	LBS	280.1	5	160.00	LBS
AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	1232.54	GAL	20145.4	22.3	274.86	GAL
AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-ethyl	64.50	GAL	453	21.3	13.74	GAL
DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	221.16	GAL	6582.46	18.4	40.69	GAL
DURIVO	I	100	1318	0	Chlorantraniliprole	0.66	GAL	6.5	8.8	0.06	GAL
LONTREL TURF AND ORNAMENTAL	H	62719	305	0	Clopyralid	41.00	GAL	26	40.9	16.77	GAL

Table 6: Reported Use of Pesticides in Arizona January - December 2010

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	D-Alanine	1.00	GAL	38.56	49	0.49	GAL
RIDOMIL GOLD BRAVO SC FUNGICIDE	F	100	1221	0	D-Alanine	307.28	GAL	1035.78	3.3	10.14	GAL
RIDOMIL GOLD EC	F	100	801	0	D-Alanine	0.59	GAL	19	49	0.29	GAL
RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	D-Alanine	176.29	GAL	4876.66	45.3	79.86	GAL
ULTRA FLOURISH AGRICULTURAL FUNGICIDE	F	55146	73	0	D-Alanine	85.66	GAL	364.24	25.1	21.50	GAL
ACROBAT 50WP FUNGICIDE	F	241	410	0	Dimethomorph	13.76	GAL	36.6	50	6.88	GAL
FORUM FUNGICIDE	F	241	427	0	Dimethomorph	898.47	GAL	21904.1	43.5	390.84	GAL
STATURE DM FUNGICIDE	F	241	419	0	Dimethomorph	40.23	GAL	160.9	50	20.12	GAL
SCORPION™ 35SL INSECTICIDE	I	10163	317	0	Dinotefuran	51.45	GAL	1015.85	35	18.01	GAL
VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	2241.45	LBS	7219.37	70	1569.02	LBS
ADIOS COTTON DEFOLIANT	H	66330	344	0	Diuron	598.17	GAL	8900	6	35.89	GAL
DIREX 4L HERBICIDE	H	1812	257	0	Diuron	251.85	GAL	2144.7	40	100.74	GAL
DREXEL DIURON 4L	H	19713	36	0	Diuron	29.30	GAL	2013.8	40	11.72	GAL
DUPONT DIREX 4L HERBICIDE	H	352	678	0	Diuron	1086.27	GAL	4748.79	40	434.51	GAL
LAYBY™ PRO HERBICIDE	H	61842	20	0	Diuron	16.83	GAL	66.7	20	3.37	GAL
PROCLAIM INSECTICIDE	I	100	904	0	Emamectin benzoate	3101.77	LBS	12604	5	155.09	LBS
DREXEL ENDOSULFAN 3EC (SLN AZ-980004)	I	19713	399	0	Endosulfan	880.93	GAL	2808.2	34	299.52	GAL
THIONEX 3EC	I	66222	63	0	Endosulfan	6826.96	GAL	22582.6	33.7	2300.68	GAL
BELEAF 50SG INSECTICIDE	I	71512	10	279	Flonicamid	309.57	LBS	1829.36	50	154.78	LBS
CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	25052.04	LBS	116415	50	12526.02	LBS
ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Flonicamid	1251.02	LBS	10805.6	50	625.51	LBS
SANDEA HERBICIDE	H	10163	254	0	Halosulfuron-methyl	11.76	LBS	469.6	75	8.82	LBS
YUKON HERBICIDE WATER SOLUBLE GRANULE	H	81880	6	10163	Halosulfuron-methyl	60.00	LBS	120	12.5	7.50	LBS
BASF BEYOND HERBICIDE	H	241	379	0	Imazamox	26.93	GAL	860.5	12.1	3.26	GAL
BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	1032.74	GAL	23557.3	12.1	124.96	GAL
ADMIRE 2 FLOWABLE INSECTICIDE (SLN AZ-040003)	I	264	758	0	Imidacloprid	360.55	GAL	2769	21.4	77.16	GAL

Table 6: Reported Use of Pesticides in Arizona January - December 2010

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
ADMIRE PRO SYSTEMIC PROTECTANT INSECTICIDE	I	264	827	0	Imidacloprid	150.10	GAL	2332.2	42.8	64.24	GAL
AGRISOLUTIONS ADVISE 2FL	I	1381	205	0	Imidacloprid	842.77	GAL	2560.8	21.4	180.35	GAL
ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	458.24	GAL	3080.74	21.4	98.06	GAL
BRIGADIER INSECTICIDE	I	279	3332	0	Imidacloprid	0.83	GAL	17.6	11.3	0.09	GAL
COURAZE 1.6F INSECTICIDE	I	264	763	67760	Imidacloprid	0.45	GAL	15.37	17.4	0.08	GAL
COURAZE 2F INSECTICIDE	I	67760	91	0	Imidacloprid	598.56	GAL	3612.9	21.4	128.09	GAL
LEVERAGE 2.7 SUSPENSION EMULSION INSECTICIDE	I	264	770	0	Imidacloprid	10.11	GAL	338.9	17	1.72	GAL
NUPRID 2F INSECTICIDE	I	228	484	0	Imidacloprid	0.41	GAL	17.3	21.4	0.09	GAL
NUPRID 2SC SOIL/FOLIAR INSECTICIDE	I	228	572	0	Imidacloprid	958.51	GAL	5668.9	21.4	205.12	GAL
PROVADO 1.6 FLOWABLE INSECTICIDE	I	264	763	0	Imidacloprid	52.71	GAL	1446.78	17.4	9.17	GAL
WIDOW INSECTICIDE	I	34704	893	0	Imidacloprid	14.84	GAL	88.4	21.4	3.18	GAL
VOLIAM XPRESS INSECTICIDE	I	100	1320	0	lambda-Cyhalothrin	191.16	GAL	3217.05	4.63	8.85	GAL
DUPONT LOROX DF HERBICIDE	H	352	686	0	Linuron	242.16	LBS	232.5	50	121.08	LBS
REVUS	F	100	1254	0	Mandipropamide Technical	4925.51	GAL	38035	23.3	1147.64	GAL
DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	9582.54	GAL	30085.7	37	3545.54	GAL
MANEB 75DF FUNGICIDE	F	4581	371	82695	Maneb	935.10	LBS	316.6	75	701.33	LBS
MANEB 75DF DRY FLOWABLE FUNGICIDE	F	70506	186	0	Maneb	4998.75	LBS	2846.2	75	3749.06	LBS
MANEX FUNGICIDE FLOWABLE WITH ZINC	F	1812	251	0	Maneb	57.50	GAL	257.8	37	21.28	GAL
OSPREY HERBICIDE	H	264	802	0	Mesosulfuron-methyl	6773.12	OZS	1449.46	4.5	304.79	OZS
DUPONT LANNATE LV INSECTICIDE	I	352	384	0	Methomyl	0.50	GAL	120	29	0.15	GAL
DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	21533.14	LBS	27095.8	90	19379.83	LBS
INTREPID 2F	I	62719	442	0	Methoxyfenozide	1857.08	GAL	38992.9	22.6	419.70	GAL
METRI DF 75% FLOWABLE HERBICIDE	H	70506	103	0	Metribuzin	165.00	GAL	244	75	123.75	GAL
TRICOR DF 75% DRY FLOWABLE HERBICIDE	H	70506	103	0	Metribuzin	60.00	LBS	130	75	45.00	LBS
DUPONT™ PASTORA® HERBICIDE	H	352	819	0	Nicosulfuron	60.00	OZS	40	56.2	33.72	OZS

Table 6: Reported Use of Pesticides in Arizona January - December 2010

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
VYDATE L INSECTICIDE/NEMATICIDE	I	352	372	0	Oxamyl	20.00	GAL	54	24	4.80	GAL
COTTON PRO	H	66222	15	0	Prometryn	1231.41	GAL	5652.5	44	541.82	GAL
GOWAN PROMETRYNE 4L HERBICIDE	H	10163	94	0	Prometryn	17.68	GAL	70.8	44.4	7.85	GAL
PROMETRYNE4L HERBICIDE	H	9779	297	0	Prometryn	10.00	GAL	87.5	44.4	4.44	GAL
VEGETABLE PRO HERBICIDE	H	66222	15	0	Prometryn	80.81	GAL	241.8	44	35.56	GAL
DUPONT STAPLE LX HERBICIDE	H	352	613	0	Pyriithiobac	37.50	GAL	297	33.6	12.60	GAL
DUPONT CINCH ATZ LITE HERBICIDE	H	352	623	0	S-Metolachlor	64.04	GAL	251	35.8	22.93	GAL
CENTRIC 40WG INSECTICIDE	I	100	1147	0	Thiamethoxam	142.61	LBS	1238.3	40	57.04	LBS
REDI-PIK 1.5EC COTTON DEFOLIANT	H	264	634	66222	Thidiazuron	1050.79	GAL	13793.8	12	126.09	GAL
Legend:											
H = Herbicide	F = Fungicide			O = Ovicides		R = Regulator					
I = Insecticide	M = Miticides			N = Nematicide							

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
APACHE	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	14.00	LBS	18.7	90	12.60	LBS
APACHE	ISK BIOSCIENCE 50SG INSECTICIDE	I	71512	10	0	Flonicamid	4.90	LBS	34.5	50	2.45	LBS
APACHE	REVUS	F	100	1254	0	Mandipropamide	2.27	GAL	37.38	23.3	0.53	GAL
COCHISE	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	32.00	GAL	240	42.6	13.63	GAL
COCHISE	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	7.50	GAL	117	22.9	1.72	GAL
COCHISE	AGRISOLUTIONS 2,4-D AMINE 4	H	1381	103	0	2,4-D, dimethylamine salt	47.50	GAL	480	47.3	22.47	GAL
COCHISE	AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	92.50	GAL	410	42.12	38.96	GAL
COCHISE	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	103.17	GAL	1598	22.3	23.01	GAL
COCHISE	AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-ethyl	0.50	GAL	120	21.3	0.11	GAL
COCHISE	AMINE 4 2,4-D WEED KILLER	H	34704	120	0	2,4-D, dimethylamine salt	23.00	GAL	120	46.5	10.70	GAL
COCHISE	ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	497.50	GAL	1230	42.2	209.95	GAL
COCHISE	ATRAZINE 90DF HERBICIDE	H	19713	76	0	Atrazine	475.00	LBS	34.5	85.5	406.13	LBS
COCHISE	ATRIZINE 90 WDG HERBICIDE	H	34704	622	0	Atrazine	205.00	LBS	470	88.5	181.43	LBS
COCHISE	BASF BEYOND HERBICIDE	H	241	379	0	Imazamox	12.00	GAL	120	12.1	1.45	GAL
COCHISE	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	209.68	GAL	3079	12.1	25.37	GAL
COCHISE	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	84.00	LBS	505	50	42.00	LBS
COCHISE	CLARITY HERBICIDE	H	7969	137	0	Benzoic acid	54.58	GAL	1215	56.8	31.00	GAL
COCHISE	CLEAN AMINE	H	34704	120	0	2,4-D, dimethylamine salt	115.00	GAL	595	46.5	53.48	GAL
COCHISE	DREXEL ATRAZINE 4L HERBICIDE	H	19713	11	0	Atrazine	30.00	GAL	120	42.2	12.66	GAL
COCHISE	INTREPID 2F	I	62719	442	0	Methoxyfenozide	37.00	GAL	816	22.6	8.36	GAL
COCHISE	PURSUIT HERBICIDE	H	241	310	0	Ammonium salt	10.64	GAL	397	22.87	2.43	GAL
COCHISE	QUADRIIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	66.24	GAL	942	22.9	15.17	GAL
COCHISE	REVUS	F	100	1254	0	Mandipropamide	11.05	GAL	282	23.3	2.57	GAL
COCHISE	SANDEA HERBICIDE	H	10163	254	0	Halosulfuron-methyl	1.40	LBS	360	75	1.05	LBS

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
COCHISE	THIONEX 3EC	I	66222	63	0	Endosulfan	14.98	GAL	46.8	33.7	5.05	GAL
COCHISE	YUKON HERBICIDE GRANULE	H	81880	6	10163	Halosulfuron-methyl	60.00	LBS	120	12.5	7.50	LBS
GILA	AGRI SOLUTIONS ADVISE 2FL	I	1381	205	0	Imidacloprid	2.73	GAL	17.5	21.4	0.59	GAL
GRAHAM	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	0.75	GAL	160	22.3	0.17	GAL
GRAHAM	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	27.84	GAL	767	12.1	3.37	GAL
GRAHAM	CLARITY HERBICIDE	H	7969	137	0	Benzoic acid	15.46	GAL	425	56.8	8.78	GAL
GRAHAM	DUPONT LANNATE LV INSECTICIDE	I	352	384	0	Methomyl	0.50	GAL	120	29	0.15	GAL
LA PAZ	ADIOS COTTON DEFOLIANT	H	66330	344	0	Diuron	68.82	GAL	629.2	6	4.13	GAL
LA PAZ	ADMIRE 2 FLOWABLE INSECTICIDE	I	264	758	0	Imidacloprid	108.02	GAL	864.1	21.4	23.12	GAL
LA PAZ	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	0.84	GAL	67	22.3	0.19	GAL
LA PAZ	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	142.00	GAL	4266.6	12.1	17.18	GAL
LA PAZ	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	658.00	LBS	5115.3	50	329.00	LBS
LA PAZ	DREXEL DIURON 4L	H	19713	36	0	Diuron	29.30	GAL	2013.8	40	11.72	GAL
LA PAZ	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	0.25	GAL	8	18.4	0.05	GAL
LA PAZ	DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	35.17	GAL	67	37	13.01	GAL
LA PAZ	INTREPID 2F	I	62719	442	0	Methoxyfenozide	355.88	GAL	8766.6	22.6	80.43	GAL
LA PAZ	MANEB 75DF DRY FUNGICIDE	F	70506	186	0	Maneb	200.00	LBS	108	75	150.00	LBS
LA PAZ	PURSUIT HERBICIDE	H	241	310	0	Ammonium salt	74.03	GAL	2163.4	22.87	16.93	GAL
LA PAZ	REDI-PIK 1.5EC COTTON DEFOLIANT	H	264	634	66222	Thidiazuron	57.26	GAL	832.7	12	6.87	GAL
LA PAZ	REVUS	F	100	1254	0	Mandipropamide	17.00	GAL	333.1	23.3	3.96	GAL
LA PAZ	RIDOMIL GOLD BRAVO SC FUNGICIDE	F	100	1221	0	D-Alanine	61.59	GAL	197.1	3.3	2.03	GAL
LA PAZ	THIONEX 3EC	I	66222	63	0	Endosulfan	186.44	GAL	866.7	33.7	62.83	GAL
LA PAZ	THUNDER	H	42750	146	0	Ammonium salt	17.00	GAL	698.9	22.87	3.89	GAL
MARICOPA	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	491.80	GAL	1612.4	42.6	209.51	GAL
MARICOPA	ADIOS COTTON DEFOLIANT	H	66330	344	0	Diuron	346.62	GAL	5574.4	6	20.80	GAL
MARICOPA	ADMIRE 2 FLOWABLE INSECTICIDE	I	264	758	0	Imidacloprid	154.94	GAL	1253.6	21.4	33.16	GAL
MARICOPA	AGRI SOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	23.89	GAL	192.9	42.12	10.06	GAL
MARICOPA	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	18.69	GAL	2300	22.3	4.17	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
MARICOPA	ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	979.33	GAL	1093.5	42.2	413.28	GAL
MARICOPA	BASF BEYOND HERBICIDE	H	241	379	0	Imazamox	4.00	GAL	138.5	12.1	0.48	GAL
MARICOPA	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	323.89	GAL	5975.5	12.1	39.19	GAL
MARICOPA	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	1818.96	LBS	9636.8	50	909.48	LBS
MARICOPA	CLARITY HERBICIDE	H	7969	137	0	Benzoic acid	760.40	GAL	2218.8	56.8	431.91	GAL
MARICOPA	COTTON PRO	H	66222	15	0	Prometryn	360.16	GAL	3063.3	44	158.47	GAL
MARICOPA	DIREX 4L HERBICIDE	H	1812	257	0	Diuron	251.85	GAL	2144.7	40	100.74	GAL
MARICOPA	DUPONT STAPLE LX HERBICIDE	H	352	613	0	Pyriithobac	37.50	GAL	297	33.6	12.60	GAL
MARICOPA	FORUM FUNGICIDE	F	241	427	0	Dimethomorph	25.00	GAL	542	43.5	10.88	GAL
MARICOPA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	346.73	GAL	7565.5	22.6	78.36	GAL
MARICOPA	ISK BIOSCIENCE 50SG INSECTICIDE	I	71512	10	0	Flonicamid	0.38	LBS	2.15	50	0.19	LBS
MARICOPA	LAYBY™ PRO HERBICIDE	H	61842	20	0	Diuron	16.83	GAL	66.7	20	3.37	GAL
MARICOPA	LEVERAGE 2.7 INSECTICIDE	I	264	770	0	Imidacloprid	4.13	GAL	139.9	17	0.70	GAL
MARICOPA	MANEX FUNGICIDE FLOWABLE	F	1812	251	0	Maneb	20.00	GAL	111.8	37	7.40	GAL
MARICOPA	METRI DF 75% FLOWABLE HERBICIDE	H	70506	103	0	Metribuzin	165.00	GAL	244	75	123.75	GAL
MARICOPA	NUFARM WEEDAR 64 HERBICIDE	H	71368	1	0	2,4-D, dimethylamine salt	17.48	GAL	112	46.8	8.18	GAL
MARICOPA	PROVADO 1.6 FLOWABLE INSECTICIDE	I	264	763	0	Imidacloprid	20.99	GAL	736.3	17.4	3.65	GAL
MARICOPA	PURSUIT HERBICIDE	H	241	310	0	Ammonium salt	95.37	GAL	3934.8	22.87	21.81	GAL
MARICOPA	QUADRI FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	284.56	GAL	2480.6	22.9	65.16	GAL
MARICOPA	REDI-PIK 1.5EC COTTON DEFOLIANT	H	264	634	66222	Thidiazuron	188.78	GAL	2771.1	12	22.65	GAL
MARICOPA	REVUS	F	100	1254	0	Mandipropamide	26.58	GAL	422	23.3	6.19	GAL
MARICOPA	RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	D-Alanine	9.32	GAL	313.8	45.3	4.22	GAL
MARICOPA	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	1600.00	LBS	200.1	5	80.00	LBS
MARICOPA	STRUT HERBICIDE	H	34704	1043	0	Benzoic acid	3.90	GAL	125	56.8	2.22	GAL
MARICOPA	THIONEX 3EC	I	66222	63	0	Endosulfan	425.35	GAL	1843.8	33.7	143.34	GAL
MARICOPA	THUNDER	H	42750	146	0	Ammonium salt	9.00	GAL	289.5	22.87	2.06	GAL
MARICOPA	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	870.62	LBS	2786	70	609.43	LBS

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
MOHAVE	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	9.08	GAL	341.8	12.1	1.10	GAL
MOHAVE	INTREPID 2F	I	62719	442	0	Methoxyfenozide	44.59	GAL	1549.2	22.6	10.08	GAL
NAVAJO	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	43.50	LBS	261	50	21.75	LBS
PIMA	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	26.25	GAL	140	42.6	11.18	GAL
PIMA	AGRI SOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	9.25	GAL	74	42.12	3.90	GAL
PIMA	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	0.59	GAL	202	22.3	0.13	GAL
PIMA	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	5.50	GAL	205	12.1	0.67	GAL
PIMA	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	5302.46	LBS	3705.5	50	2651.23	LBS
PIMA	CLARITY HERBICIDE	H	7969	137	0	Benzoic acid	3.93	GAL	126	56.8	2.23	GAL
PIMA	COTTON PRO	H	66222	15	0	Prometryn	596.25	GAL	1447	44	262.35	GAL
PIMA	COURAZE 2F INSECTICIDE	I	67760	91	0	Imidacloprid	561.50	GAL	3373.6	21.4	120.16	GAL
PIMA	PURSUIT HERBICIDE	H	241	310	0	Ammonium salt	4.01	GAL	205	22.87	0.92	GAL
PIMA	REDI-PIK 1.5EC COTTON DEFOLIANT	H	264	634	66222	Thidiazuron	113.00	GAL	1910	12	13.56	GAL
PIMA	THIONEX 3EC	I	66222	63	0	Endosulfan	40.00	GAL	164	33.7	13.48	GAL
PINAL	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1109.39	GAL	3346.4	42.6	472.60	GAL
PINAL	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	18.12	GAL	201.6	22.9	4.15	GAL
PINAL	ADIOS COTTON DEFOLIANT	H	66330	344	0	Diuron	145.00	GAL	2074.4	6	8.70	GAL
PINAL	AGRI SOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	17.88	GAL	135	42.12	7.53	GAL
PINAL	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	741.13	GAL	7739	22.3	165.27	GAL
PINAL	AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-ethyl	64.00	GAL	333	21.3	13.63	GAL
PINAL	AMINE 4 2,4-D WEED KILLER	H	34704	120	0	2,4-D, dimethylamine salt	171.15	GAL	912.7	46.5	79.58	GAL
PINAL	BASF BEYOND HERBICIDE	H	241	379	0	Imazamox	9.40	GAL	225	12.1	1.14	GAL
PINAL	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	248.88	GAL	7369.8	12.1	30.11	GAL
PINAL	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	14121.48	LBS	87759	50	7060.74	LBS
PINAL	CENTRIC 40WG INSECTICIDE	I	100	1147	0	Thiamethoxam	111.36	LBS	1018.4	40	44.54	LBS
PINAL	CLARITY HERBICIDE	H	7969	137	0	Benzoic acid	53.88	GAL	1317.1	56.8	30.60	GAL
PINAL	COTTON PRO	H	66222	15	0	Prometryn	162.50	GAL	692.2	44	71.50	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
PINAL	DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	813.79	GAL	2444.2	34	276.69	GAL
PINAL	DUPONT CINCH ATZ LITE HERBICIDE	H	352	623	0	S-Metolachlor	22.50	GAL	87.6	35.8	8.06	GAL
PINAL	Dupont Direx 4l herbicide	H	352	678	0	Diuron	1019.97	GAL	4323.5	40	407.99	GAL
PINAL	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	86.50	LBS	164	90	77.85	LBS
PINAL	DUPONT TM PASTORA [®] HERBICIDE	H	352	819	0	Nicosulfuron	60.00	OZS	40	56.2	33.72	OZS
PINAL	FORUM FUNGICIDE	F	241	427	0	Dimethomorph	0.83	GAL	17.8	43.5	0.36	GAL
PINAL	INTREPID 2F	I	62719	442	0	Methoxyfenozide	81.73	GAL	1418.1	22.6	18.47	GAL
PINAL	LEVERAGE 2.7 INSECTICIDE	I	264	770	0	Imidacloprid	4.00	GAL	132	17	0.68	GAL
PINAL	NUFARM WEEDAR 64 HERBICIDE	H	71368	1	0	2,4-D, dimethylamine salt	60.00	GAL	529.6	46.8	28.08	GAL
PINAL	OSPREY HERBICIDE	H	264	802	0	Mesosulfuron-methyl	241.20	LBS	816.6	4.5	10.85	LBS
PINAL	PROVADO 1.6 FLOWABLE INSECTICIDE	I	264	763	0	Imidacloprid	1.78	GAL	56.9	17.4	0.31	GAL
PINAL	PURSUIT HERBICIDE	H	241	310	0	Ammonium salt	153.83	GAL	4304.1	22.87	35.18	GAL
PINAL	QUADRIIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	59.73	GAL	676.2	22.9	13.68	GAL
PINAL	REDI-PIK 1.5EC COTTON DEFOLIANT	H	264	634	66222	Thidiazuron	630.40	GAL	7324.8	12	75.65	GAL
PINAL	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	1600.00	LBS	80	5	80.00	LBS
PINAL	THIONEX 3EC	I	66222	63	0	Endosulfan	2340.40	GAL	7505.3	33.7	788.71	GAL
PINAL	THUNDER	H	42750	146	0	Ammonium salt	89.00	GAL	2523.1	22.87	20.35	GAL
PINAL	TRICOR DF 75% DRY HERBICIDE	H	70506	103	0	Metribuzin	60.00	LBS	130	75	45.00	LBS
PINAL	VEGETABLE PRO HERBICIDE	H	66222	15	0	Prometryn	22.50	GAL	81	44	9.90	GAL
SANTA CRUZ	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	49.00	LBS	286	50	24.50	LBS
YAVAPAI	ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	2.00	GAL	11	21.4	0.43	GAL
YAVAPAI	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	78.50	LBS	450	50	39.25	LBS
YAVAPAI	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	9.00	LBS	24.1	90	8.10	LBS
YAVAPAI	INTREPID 2F	I	62719	442	0	Methoxyfenozide	1.00	GAL	23.1	22.6	0.23	GAL
YAVAPAI	PROCLAIM INSECTICIDE	I	100	904	0	Emamectin benzoate	8.40	LBS	35.9	5	0.42	LBS
YAVAPAI	THIONEX 3EC	I	66222	63	0	Endosulfan	9.01	GAL	98.89	33.7	3.04	GAL
YUMA	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	68.20	GAL	136.4	42.6	29.05	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
YUMA	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	87.02	GAL	750.75	22.9	19.93	GAL
YUMA	ACROBAT 50WP FUNGICIDE	F	241	410	0	Dimethomorph	13.76	GAL	36.6	50	6.88	GAL
YUMA	ACTIGARD 50 WG PLANT ACTIVATOR	M	100	922	0	1,2,3-Benzothiadiazole	2353.66	OZS	3131.6	50	1176.83	OZS
YUMA	ADIOS COTTON DEFOLIANT	H	66330	344	0	Diuron	37.73	GAL	622	6	2.26	GAL
YUMA	ADMIRE 2 FLOWABLE INSECTICIDE	I	264	758	0	Imidacloprid	97.59	GAL	651.3	21.4	20.88	GAL
YUMA	ADMIRE PRO SYSTEMIC INSECTICIDE	I	264	827	0	Imidacloprid	150.10	GAL	2332.2	42.8	64.24	GAL
YUMA	AGRSOLUTIONS ADVISE 2FL	I	1381	205	0	Imidacloprid	840.04	GAL	2543.3	21.4	179.77	GAL
YUMA	AGRSOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	44.93	GAL	239.6	42.12	18.92	GAL
YUMA	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	367.37	GAL	8079.4	22.3	81.92	GAL
YUMA	ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	456.24	GAL	3069.7	21.4	97.63	GAL
YUMA	ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	77.35	GAL	309.4	42.2	32.64	GAL
YUMA	BASF BEYOND HERBICIDE/CLEARFIELD PRODUCTION SYSTEM	H	241	379	0	Imazamox	1.53	GAL	377	12.1	0.19	GAL
YUMA	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	65.87	GAL	1552.6	12.1	7.97	GAL
YUMA	BELEAF 50SG INSECTICIDE	I	71512	10	279	Flonicamid	309.57	LBS	1829.4	50	154.78	LBS
YUMA	BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	1,2,3-Benzothiadiazole	75.65	LBS	1526.1	50	37.83	LBS
YUMA	BRIGADIER INSECTICIDE	I	279	3332	0	Imidacloprid	0.83	GAL	17.6	11.3	0.09	GAL
YUMA	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	2896.14	LBS	8695.6	50	1448.07	LBS
YUMA	CENTRIC 40WG INSECTICIDE	I	100	1147	0	Thiamethoxam	31.25	LBS	219.9	40	12.50	LBS
YUMA	CLARITY HERBICIDE	H	7969	137	0	Benzoic acid	180.92	GAL	2738.6	56.8	102.76	GAL
YUMA	COTTON PRO	H	66222	15	0	Prometryn	112.50	GAL	450	44	49.50	GAL
YUMA	COURAZE 1.6F INSECTICIDE	I	264	763	67760	Imidacloprid	0.45	GAL	15.37	17.4	0.08	GAL
YUMA	COURAZE 2F INSECTICIDE	I	67760	91	0	Imidacloprid	37.06	GAL	239.3	21.4	7.93	GAL
YUMA	DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	67.13	GAL	358	34	22.83	GAL
YUMA	DUPONT CINCH ATZ LITE HERBICIDE	H	352	623	0	S-Metolachlor	41.54	GAL	163.4	35.8	14.87	GAL
YUMA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	220.91	GAL	6574.5	18.4	40.65	GAL
YUMA	Dupont Direx 4l herbicide	H	352	678	0	Diuron	66.30	GAL	425.29	40	26.52	GAL
YUMA	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	21423.64	LBS	26889	90	19281.28	LBS

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
YUMA	DUPONT LOROX DF HERBICIDE	H	352	686	0	Linuron	242.16	LBS	232.5	50	121.08	LBS
YUMA	DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	9547.37	GAL	30019	37	3532.53	GAL
YUMA	DURIVO	I	100	1318	0	Chlorantraniliprole	0.66	GAL	6.5	8.8	0.06	GAL
YUMA	FORUM FUNGICIDE	F	241	427	0	Dimethomorph	872.44	GAL	21344	43.5	379.51	GAL
YUMA	FULFILL INSECTICIDE	I	100	912	0	1,2,4-Triazin	217.00	LBS	1444	50	108.50	LBS
YUMA	GOWAN PROMETRYNE 4L HERBICIDE	H	10163	94	0	Prometryn	17.68	GAL	70.8	44.4	7.85	GAL
YUMA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	990.15	GAL	18854	22.6	223.77	GAL
YUMA	ISK BIOSCIENCE 50SG INSECTICIDE	I	71512	10	0	Flonicamid	1245.75	LBS	10769	50	622.87	LBS
YUMA	LEVERAGE 2.7 INSECTICIDE	I	264	770	0	Imidacloprid	1.98	GAL	67	17	0.34	GAL
YUMA	LONTREL TURF AND ORNAMENTAL	H	62719	305	0	Clopyralid	41.00	GAL	26	40.9	16.77	GAL
YUMA	MANEB 75DF FUNGICIDE	F	4581	371	82695	Maneb	935.10	LBS	316.6	75	701.33	LBS
YUMA	MANEB 75DF DRY FLOWABLE FUNGICIDE	F	70506	186	0	Maneb	4798.75	LBS	2738.2	75	3599.06	LBS
YUMA	MANEX FUNGICIDE FLOWABLE	F	1812	251	0	Maneb	37.50	GAL	146	37	13.88	GAL
YUMA	NUFARM WEEDAR 64 HERBICIDE	H	71368	1	0	2,4-D, dimethylamine salt	80.00	GAL	638.4	46.8	37.44	GAL
YUMA	NUPRID 2F INSECTICIDE	I	228	484	0	Imidacloprid	0.41	GAL	17.3	21.4	0.09	GAL
YUMA	NUPRID 2SC SOIL/FOLIAR INSECTICDE	I	228	572	0	Imidacloprid	958.51	GAL	5668.9	21.4	205.12	GAL
YUMA	OSPREY HERBICIDE	H	264	802	0	Mesosulfuron-methyl	182.12	LBS	632.86	4.5	8.20	LBS
YUMA	PROCLAIM INSECTICIDE	I	100	904	0	Enamectin benzoate	3093.37	LBS	12568	5	154.67	LBS
YUMA	PROMETRYNE4L HERBICIDE	H	9779	297	0	Prometryn	10.00	GAL	87.5	44.4	4.44	GAL
YUMA	PROVADO 1.6 FLOWABLE INSECTICIDE	I	264	763	0	Imidacloprid	29.95	GAL	653.58	17.4	5.21	GAL
YUMA	PURSUIT HERBICIDE	H	241	310	0	Ammonium salt	52.52	GAL	1943.5	22.87	12.01	GAL
YUMA	QUADRIIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	147.89	GAL	1538.5	22.9	33.87	GAL
YUMA	REDI-PIK 1.5EC COTTON DEFOLIANT	H	264	634	66222	Thidiazuron	61.35	GAL	955.2	12	7.36	GAL
YUMA	REVUS	F	100	1254	0	Mandipropamide	4868.61	GAL	36961	23.3	1134.39	GAL
YUMA	RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	D-Alanine	1.00	GAL	38.56	49	0.49	GAL
YUMA	RIDOMIL GOLD BRAVO SC FUNGICIDE	F	100	1221	0	D-Alanine	245.69	GAL	838.68	3.3	8.11	GAL
YUMA	RIDOMIL GOLD EC	F	100	801	0	D-Alanine	0.59	GAL	19	49	0.29	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2010

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
YUMA	RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	D-Alanine	166.97	GAL	4562.9	45.3	75.64	GAL
YUMA	SANDEA HERBICIDE	H	10163	254	0	Halosulfuron-methyl	10.36	LBS	109.6	75	7.77	LBS
YUMA	SCORPION™ 35SL INSECTICIDE	I	10163	317	0	Dinotefuran	51.45	GAL	1015.9	35	18.01	GAL
YUMA	STATURE DM FUNGICIDE	F	241	419	0	Dimethomorph	40.23	GAL	160.9	50	20.12	GAL
YUMA	THIONEX 3EC	I	66222	63	0	Endosulfan	3810.78	GAL	12057	33.7	1284.23	GAL
YUMA	THUNDER	H	42750	146	0	Ammonium salt	19.63	GAL	875	22.87	4.49	GAL
YUMA	ULTRA FLOURISH FUNGICIDE	F	55146	73	0	D-Alanine	85.66	GAL	364.24	25.1	21.50	GAL
YUMA	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	1370.83	LBS	4433.4	70	959.58	LBS
YUMA	VEGETABLE PRO HERBICIDE	H	66222	15	0	Prometryn	58.31	GAL	160.8	44	25.66	GAL
YUMA	VOLIAM XPRESS INSECTICIDE	I	100	1320	0	lambda-Cyhalothrin	191.16	GAL	3217.1	4.63	8.85	GAL
YUMA	VYDATE L INSECTICIDE/NEMATICIDE	I	352	372	0	Oxamyl	20.00	GAL	54	24	4.80	GAL
YUMA	WIDOW INSECTICIDE	I	34704	893	0	Imidacloprid	14.84	GAL	84	21.4	3.18	GAL
<u>Legend:</u>												
H = Herbicide		F = Fungicide			O = Ovicides			R = Regulator				
I = Insecticide		M = Miticides			N = Nematicide							

