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2009 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 to compile 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 soil-applied agricultural pesticides 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 2008, 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 soil applied 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)

Pursuant to A.R.S. § 49-302, prior to registering an agricultural-use pesticide with the Arizona Department of Agriculture, applicants are required to submit the product chemistry and environmental fate data of the associated active ingredients to ADEQ for review and approval. If an agricultural-use pesticide is registered without ADEQ's review and approval of its active ingredient(s) and a groundwater protection data gap exists, ADEQ will notify the Arizona Department of Agriculture to cancel the registration of any pesticide product found to have a groundwater protection data gap (A.R.S. § 49-306).

Between 1987, when the program was first implemented, and December 31, 2008, a total of 313 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 the Arizona Department of Agriculture 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 2008.

Specific Numeric Values (SNVs)

After ADEQ reviews and approves the product chemistry and environmental fate submittal, the data is 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 Environmental Protection Agency's (EPA) criteria for identifying pesticide active ingredients that, based on mobility and persistence factors, have the potential to leach to groundwater. The SNVs are presented in Table 1. Those 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, other 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 website and were developed to streamline the registration process.

In 2008, twenty nine (29) new pesticide registration applications were received, out of which 25 were approved, and two of those approved were placed on the GWPL. Four of the applications were denied. The list of new active ingredients approved by ADEQ in 2008 is shown in Table 2.

Table 2: New Active Ingredients Approved in Arizona

	Chemical Name	General Use	Product Brand Names	Registrant
1	Aluminum Tris	Fungicide for use on tree fruits, cabbage, celery, apples, leafy vegetables	Linebacker Fungicide	Tessengerlo
2	Bacillus Thuringensis	Biological Larvicide used against lepidopterous insects	BMP 123 (2X WP)	AgraQuest
3	Bispyribac Sodium	Herbicide for control of bluegrass and certain broadleaf weeds on turf	Velocity SP Herbicide Velocity SG Herbicide	Valent
4	Chlorantraniliprole*	Insecticide for tree fruits, ornamentals, cotton, grapes, potatoes	Dupont Altacor Insecticide Acelepryn Insecticide Coragen Insecticide	DuPont
4	Extract of <i>Chenopodium ambrosioides</i>	Biological Insecticide for control of aphids, mites, whiteflies and other bugs	Metronome Insecticide	AgraQuest
5	Clodinafop-propargyl	Herbicide for control of grass weed species in wheat farms	Discover NG Herbicide	Syngenta
6	Fenbuconazole	Fungicide for disease control in citrus fruits	Indar 75 WSP Fungicide Indar 2F	Dow
7	Fluopicolide	Fungicide for use on cucurbit and fruiting vegetables, grapes, sweet potatoes	Presidio Fungicide	Valent
8	Iodomethane	Fumigant for control of soil-borne pests	Midas EC Bronze Midas 33:67	Arysta
9	Isoxaben	Herbicide for pre-emergence control of broadleaf weeds	Gallery T&V Herbicide Showcase Specialty Herbicide	Dow
10	Imidacloprid**	Insecticide for control of aphids and plant bugs in crops	Rotam 2 Insecticide Mallet 2F Insecticide	Rotam Nufarm Etigra
11	Mandipropamid*	Fungicide to control diseases in broccoli, leafy greens and bulb vegetables	Revus Fungicide	Syngenta
12	Mesotrione	Herbicide for control of broadleaf weeds in corn and other crops	Callisto Herbicide	Syngenta

Table 2: New Active Ingredients Approved in Arizona

	Chemical Name	General Use	Product Brand Names	Registrant
13	Metconazole	Fungicide for control of certain turfgrass and ornamental diseases	Tourney Fungicide V-10116 VPP Fungicide	Valent
14	Methyl Anthranilate	Biochemical pesticide repellent for birds and geese	Rejex-it Migrate Bird Shield Goose Repellent	Ceannard
15	Octanate Esters	Biochemical insecticide for control of aphids, lace bug mites, caterpillars, bugs	SucraShield	Natural Forces
16	Propylene Glycol Monolaurate	Biochemical insecticide for control of bugs on fruits, citrus, fruiting vegetables	Acaritouch	Arysta/Otsuka
17	Pythium Oligandrum	Biological fungicide for control of soil-borne and foliar diseases	Polyversum	Technology Sciences Grp
18	Pyridalyl	Insecticide for use on fruiting and leafy vegetable transplants	Overture 35 WP Insecticide	Valent
19	Extract of <i>Saponnis Quilaja</i>	Biochemical nematicide for control of nematodes and pathogenic fungi	Desert King Chile	Technology Sciences Grp
20	Spirotetramat	Insecticide to control aphids, whiteflies and other bugs in citrus fruits	Movento	Bayer
21	Sorbitol Octanoate	Biochemical insecticide for control of aphids, mites, caterpillars, bugs	SorbiShield 90	Avachem
22	Sulfur	Geochemical fungicide - miticide for control of bugs in feed & food crops	Cosavet-DF	Sulphur Mills
23	Tembotrione	Herbicide for control of annual broadleaf and grass weeds in corn fields	Laudis Herbicide	Bayer

*Active ingredient placed on the 2009 GWPL

** 3 registrants for the same active ingredient

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 1st of each year and becomes effective on December 1st of the publication year. The 2009 GWPL containing 73 active ingredients was published in the *Arizona Administrative Register* in August, 2009 and will take effect from December 1, 2009 (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. As a last resort, 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 soil-applied, to reduce or prevent the pollution of groundwater by the associated active ingredients (A.A.C. R18-6-303.A).

<i>Table 3: 2009 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	1912-24-9	Atrazine

	<i>CAS Number</i>	<i>Chemical Name</i>
11	131860-33-8	Azoxystrobin
12	314-40-9	Bromacil
13	53404-19-6	Bromacil, Lithium Salt
14	63-25-2	Carbaryl
15	128639-02-1	Carfentrazone-Ethyl
16	50008-15-1	Chlorantraniliprole*
17	1702-17-6	Clopyralid
18	420-04-2	Cyanamide
19	113136-77-9	Cyclanilide
20	52918-63-5	Deltamethrin
21	13684-56-5	Desmedipham
22	1918-00-9	Dicamba
23	25059-78-3	Dicamba, DEA Salt
24	104040-79-1	Dicamba, DGA Salt
25	2300-66-5	Dicamba, DMA Salt
26	10007-85-9	Dicamba, Potassium Salt
27	1982-69-0	Dicamba, Sodium Salt
28	110488-70-5	Dimethomorph
29	165252-70-0	Dinotefuran
30	330-54-1	Diuron
31	144-21-8	DSMA (Disodium Methanearsonate)
32	137512-74-4	Emamectin Benzoate
33	115-29-7	Endosulfan
34	158067-0	Flonicamid
35	335104-84-2	Flubendiamide
36	142459-58-3	Flufenacet (Thiafluamide)
37	193740-76-0	Fluoxastrobin
38	66332-96-5	Flutolanil
39	77182-82-2	Glufosinate-Ammonium

	<i>CAS Number</i>	<i>Chemical Name</i>
40	112226-61-6	Halofenozide
41	100784-20-1	Halosulfuron-Methyl
42	114311-32-9	Imazamox
43	104098-48-8	Imazapic
44	81335-77-5	Imazethapyr
45	101917-66-2	Imazethapyr, Ammonium Salt
46	138261-41-3	Imidacloprid
47	330-55-2	Linuron
48	128-58-3	MAA (Methanearsonic Acid)
49	374726-62-2	Mandipropamid*
50	12427-38-2	Maneb
51	16484-77-8	Mecoprop-P (MCP-P)
52	70630-17-0	Mefenoxam
53	208465-21-8	Mesosulfuron-Methyl
54	16752-77-5	Methomyl
55	161050-58-4	Methoxyfenozide
56	21087-64-9	Metribuzin
57	2163-80-6	Monosodium Methanearsonate (MSMA)
58	111991-09-04	Nicosulfuron
59	23135-22-0	Oxamyl
60	1610-78-0	Prometon
61	7287-19-6	Prometryn
62	18311274-15-7	Propoxycarbazone-sodium
63	94125-34-5	Prosulfuron
64	123312-89-0	Pymetrozine
65	123343-16-8	Pyriithiobac Sodium
66	84087-01-4	Quinclorac
67	81591-81-3	Sulfosate
68	112410-23-8	Tebufenozide

	<i>CAS Number</i>	<i>Chemical Name</i>
69	153719-23-4	Thiamethoxam
70	117718-60-2	Thiazopyr
71	55335-06-3	Triclopyr
72	199119-58-9	Trifloxysulfuron-Sodium
73	95266-40-3	Trinexapac-Ethyl

* New addition to the GWPL

Bold: Ingredients that have been found historically in Arizona groundwater

Table 4: Agricultural Pesticides on the 2009 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>
LOW VOL 6 ESTER WEED KILLER	34704	125		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)
SAVAGE CA	34704	606		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)
SALVO LOW VOLATILE WEED KILLER	34704	609		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)
NUFARM WEEDONE LV4 EC BROAD LEAF HERBICIDE	228	139	71368	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)
LOW VOL 4 ESTER WEED KILLER	34704	124		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)
RIVERDALE 2,4-D L.V. 4 ESTER	228	139		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 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)
ALLPRO BK32 BRUSH KILLER	228	186	769	1928-43-4	2,4-D 2-Ethylhexyl Ester (Isooctyl)
TENKOZ LO-VOL 4 SOLVENTLESS HERBICIDE	71368	14	55467	94-75-7	2,4-D Acid
NUFARM WEEDONE 638 BROADLEAF HERBICIDE	71368	3		94-75-7	2,4-D Acid
NUFARM RECOIL BROAD SPECTRUM HERBICIDE	71368	35		94-75-7	2,4-D Acid
PATHWAY	62719	31		94-75-7	2,4-D Acid
TENKOZ LO-VOL 6 2,4-D LOW VOLATILE HERBICIDE	71368	11	55467	94-75-7	2,4-D Acid
TENKOZ AMINE 4 2,4-D HERBICIDE	71368	1	55467	94-75-7	2,4-D Acid
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

Table 4: Agricultural Pesticides on the 2009 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>
HELENA 2010	5905	542		94-75-7	2,4-D Acid
LANDMASTER BW	524	351		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
SAVAGE DRY SOLUBLE HERBICIDE	34704	606		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
WEEDKING HERBICIDE	70907	20	53883	2008-39-1	2,4-D Dimethylamine Salt
SABER HERBICIDE	34704	803		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S TRIMEC TURF HERBICIDE	2217	517		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
UAP TIMBERLAND PLATOON	228	145		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
SABER HERBICIDE	34704	803		2008-39-1	2,4-D Dimethylamine Salt
CLEAN AMINE	34700	120		2008-39-1	2,4-D Dimethylamine Salt
ESCALADE 2	228	442		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 BRASH	51036	308	9779	2008-39-1	2,4-D Dimethylamine Salt
AGRISOLUTIONS STRIKE 3	14774	2		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
AGRISOLUTIONS 2,4-D AMINE 4	1381	103		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S TRIMEC BROADLEAF HERBICIDE - CLASSIC	2217	543		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
ENDRUN	2217	656	5905	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
GORDONS TRIMEC 992 BROADLEAF HERBICIDE	2217	656		2008-39-1	2,4-D Dimethylamine Salt

Table 4: Agricultural Pesticides on the 2009 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>
BANVEL +2, 4-D HERBICIDE	51036	308		2008-39-1	2,4-D Dimethylamine Salt
DUPONT CIMARRON MAX PART B HERBICIDE	352	614		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S SpeedZone BROADLEAF HERBICIDE FOR TURF	2217	833		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
BARRAGE HF	5905	529		533-23-3	2,4-D Ethylhexyl Ester
SWB 2,4-D LV4	42750	22	9779	25168-26-7	2,4-D Isooctyl Ester
NUFARM WEEDONE LV4 SOLVENTLESS BROADLEAF HERBICIDE	71368	14		25168-26-7	2,4-D Isooctyl Ester
AGSCO--AGSCO 400 HERBICIDE	554	83		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
LEFFINGWELL-HIVOL-44 PLANT GROWTH REGULATOR	64864	31		94-11-1	2,4-D Isopropyl Ester
HIVOL-44	5481	509		94-11-1	2,4-D Isopropyl Ester
TORDON RTU	62719	31		32341-80-3	2,4-D Triisopropanolamine Salt
LESCO MOMENTUM FX2 HERBICIDE	228	447	10404	32341-80-3	2,4-D Triisopropanolamine Salt
RIVERDALE ESCALADE LOW ODOR	228	416		32341-80-3	2,4-D Triisopropanolamine Salt
TORDON 101 MIXTURE	62719	5		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
ACTIGARD 50 WG PLANT ACTIVATOR	100	922		135158-54-2	Acibenzolar-S-Methyl
AATREX NINE-O HERBICIDE	100	585		1912-24-9	Atrazine
READY MASTER ATZ HERBICIDE	524	509		1912-24-9	Atrazine
ESTABLISH LITE HERBICIDE	7969	200	55467	1912-24-9	Atrazine
ESTABLISH ATZ HERBICIDE	7969	192	55467	1912-24-9	Atrazine
DUPONT STEADFAST ATZ HERBICIDE	352	619		1912-24-9	Atrazine
AATREX 4L HERBICIDE	100	497		1912-24-9	Atrazine
AATREX NINE-O HERBICIDE	100	585		1912-24-9	Atrazine
AGRISOLUTIONS STERLING PLUS	51036	307	9779	1912-24-9	Atrazine
AGRISOLUTIONS ATRAZINE 4L	1381	158		1912-24-9	Atrazine
DREXEL ATRAZINE 4L HERBICIDE	19713	11		1912-24-9	Atrazine
BROMOXYNIL + ATRAZINE HERBICIDE	264	477	66222	1912-24-9	Atrazine
BASF GUARDSMAN MAX HERBICIDE	7969	192		1912-24-9	Atrazine
BASF G-MAX LITE HERBICIDE	7969	200		1912-24-9	Atrazine
AXIOM AT DF HERBICIDE	264	769		1912-24-9	Atrazine
AGRISOULTIONS ATRAZINE 90DF	9779	253		1912-24-9	Atrazine

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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>
ATRAZINE 4L HERBICIDE	34704	69		1912-24-9	Atrazine
DREXEL ATRAZINE 90DF HERBICIDE	19713	76		1912-24-9	Atrazine
AATREX 4L HERBICIDE	100	497		1912-24-9	Atrazine
ATRIZINE 90 WDG HERBICIDE	34704	622		1912-24-9	Atrazine
QUILT FUNGICIDE	100	1178		131860-33-8	Azoxystrobin
PROT FGF XT	7501	186		131860-33-8	Azoxystrobin
QUADRI FLOWABLE FUNGICIDE	100	1098		131860-33-8	Azoxystrobin
QUADRI OPTI FUNGICIDE	100	1171		131860-33-8	Azoxystrobin
SOYGARD L WITH PROT FGF	7501	201		131860-33-8	Azoxystrobin
PROT FGF FL	7501	188		131860-33-8	Azoxystrobin
QUADRI FLOWABLE FUNGICIDE	10182	415		131860-33-8	Azoxystrobin
HEADWAY FUNGICIDE	100	1216		131860-33-8	Azoxystrobin
HERITAGE TL	100	1191		131860-33-8	Azoxystrobin
HERITAGE FUNGICIDE	100	1093		131860-33-8	Azoxystrobin
DYNASTY CST FUNGICIDE	100	1177		131860-33-8	Azoxystrobin
DYNASTY	100	1159		131860-33-8	Azoxystrobin
BAYER CROPS SCIENCE SOYGARD L WITH PROT FGF	264	991		131860-33-8	Azoxystrobin
BAYER CROPS SCIENCE PROT FGF-FL SEED APPLIED FUNGICIDE	264	982		131860-33-8	Azoxystrobin
AZOXYSTROBIN DRY TECHNICAL MANUFACTURING USE CONCENTRATE FUNGICIDE	100	1120		131860-33-8	Azoxystrobin
AMISTAR FUNGICIDE	100	1164		131860-33-8	Azoxystrobin
ABOUND FLOWABLE FUNGICIDE	10182	415		131860-33-8	Azoxystrobin
ABOUND FLOWABLE FUNGICIDE	100	1098		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
SEVIN BRAND 4F CARBARYL INSECTICIDE	264	349		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
PROKOZ SEVIN SL	432	1227	72112	63-25-2	Carbaryl
SEVIN BRAND 50W CARBARYL INSECTICIDE	264	314		63-25-2	Carbaryl
SEVIN BRAND 80 WSP CARBARYL INSECTICIDE	264	526		63-25-2	Carbaryl
GOWAN SEVIN BAIT AGRICULTURE POISON BAIT	10163	32		63-25-2	Carbaryl
SEVIN BRAND RP4 CARBARYL INSECTICIDE	264	335		63-25-2	Carbaryl
SEVIN 5 BAIT	34704	23		63-25-2	Carbaryl
SEVIN BRAND XLR PLUS CARBARYL	264	333		63-25-2	Carbaryl

Table 4: Agricultural Pesticides on the 2009 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>
INSECTICIDE					
SEVIN SL CARBARYL INSECTICIDE	432	1227		63-25-2	Carbaryl
SEVIN BRAND 80S CARBARYL INSECTICIDE	264	316		63-25-2	Carbaryl
CARBARYL BAIT	34704	483		63-25-2	Carbaryl
ALLPRO CARBARYL 4L	45735	25	769	63-25-2	Carbaryl
SEVIN 80 WSP CARBARYL INSECTICIDE	432	1226		63-25-2	Carbaryl
ALLPRO 10% CARBARYL DUST	769	229		63-25-2	Carbaryl
ALLPRO CARBARYL 50WP	769	972		63-25-2	Carbaryl
ALLPRO CARBARYL 80S	769	574		63-25-2	Carbaryl
CARBARYL BAIT	34704	483		63-25-2	Carbaryl
CARBARYL CUTWORM BAIT	11656	21		63-25-2	Carbaryl
CARBARYL 4L INSECTICIDE	34704	447		63-25-2	Carbaryl
DREXEL CARBARYL 4L	19713	49		63-25-2	Carbaryl
GORDON'S POWER ZONE BROADLEAF HERBICIDE FOR TURF	2217	834		128639-02-1	Carfentrazone-Ethyl
SHUTOUT	2217	869	5905	128639-02-1	Carfentrazone-Ethyl
GORDON'S SpeedZone ST AUGUSTINE FORMULA BROADLEAF HERBICIDE	2217	835		128639-02-1	Carfentrazone-Ethyl
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		128639-02-1	Carfentrazone-Ethyl
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
BATTLESHIP PREMIUM SELECTIVE HERBICIDE	228	371	5905	1702-17-6	Clopyralid
LONTREL TURF AND ORNAMENTAL	62719	305		1702-17-6	Clopyralid
TRANSLINE	62719	259		1702-17-6	Clopyralid
STINGER	62719	73		1702-17-6	Clopyralid
RECLAIM	62719	83		1702-17-6	Clopyralid
CONFRONT	62719	92		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
DELTAGARD T & O GRANULAR INSECTICIDE	432	836		52918-63-5	Deltamethrin
DELTA GOLD INSECTICIDE	264	1011	1381	52918-63-5	Deltamethrin
DELTAGARD GC GRANULAR INSECTICIDE	432	837		52918-63-5	Deltamethrin
DELTAGARD GC 5 SC INSECTICIDE	432	835		52918-63-5	Deltamethrin
DELTADUST INSECTICIDE	432	772		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
BATTALION 0.2 EC	264	1007	66330	52918-63-5	Deltamethrin
DELTAGARD T&O 5SC INSECTICIDE	432	834		52918-63-5	Deltamethrin
DELTAGARD G INSECTICIDE GRANULE	432	836		52918-63-5	Deltamethrin

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ALPHANEX HERBICIDE	264	620	70506	13684-56-5	Desmedipham
PHEN-DES 8+8 HERBICIDE	264	621	70506	13684-56-5	Desmedipham
PHEN-DES 8 + 8 HERBICIDE	70506	89		13684-56-5	Desmedipham
VANQUISH HERBICIDE	100	884		1918-00-9	Dicamba
RIVERDALE ESCALADE LOW ODOR	228	416		1918-00-9	Dicamba
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		1918-00-9	Dicamba
GORDON'S SpeedZone ST AUGUSTINE FORMULA BROADLEAF HERBICIDE	2217	835		1918-00-9	Dicamba
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		1918-00-9	Dicamba
ESCALADE 2	228	442		1918-00-9	Dicamba
VANQUISH HERBICIDE	100	884		1918-00-9	Dicamba
GORDON'S POWER ZONE BROADLEAF HERBICIDE FOR TURF	2217	834		1918-00-9	Dicamba
RIVERDALE VANQUISH HERBICIDE	228	397		104040-79-1	Dicamba, DGA Salt
DICAM	81142	5		2300-66-5	Dicamba, DMA SALT
PRO-MATE THREE-WAY CS	2217	493	5905	2300-66-5	Dicamba, DMA SALT
PRIMERA TRIPLET LOW ODOR	228	409		2300-66-5	Dicamba, DMA SALT
ORACLE DICAMBA AGRICULTURAL HERBICIDE	70907	12		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC TURF HERBICIDE	2217	517		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 BROADLEAF HERBICIDE - CLASSIC	2217	543		2300-66-5	Dicamba, DMA SALT
RIFLE-D HERBICIDE	34704	869		2300-66-5	Dicamba, DMA SALT
AGRI STAR BY ALBAUGH INC RANGE STAR	42750	55		2300-66-5	Dicamba, DMA SALT
RIVERDALE DIABLO HERBICIDE	228	379		2300-66-5	Dicamba, DMA SALT
GHARDA CHEMICALS LIMITED ORACLE DICAMBA AGRICULTURAL HERBICIDE	33658	14		2300-66-5	Dicamba, DMA SALT
Q4 TURF HERBICIDE FOR GRASSY & BROADLEAF WEEDS	2217	886		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX HERBICIDE	352	615		2300-66-5	Dicamba, DMA SALT
GORDONS TRIMEC 992 BROADLEAF HERBICIDE	2217	656		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
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

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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>
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		2300-66-5	Dicamba, DMA SALT
WEEDKING HERBICIDE	70907	20	53883	2300-66-5	Dicamba, DMA SALT
BANVEL HERBICIDE	51036	289		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX PART B HERBICIDE	352	614		2300-66-5	Dicamba, DMA SALT
AGRSOLUTIONS STERLING PLUS	51036	307	9779	10007-85-9	Dicamba, Potassium Salt
YUKON HERBICIDE	33906	11	524	1982-69-0	Dicamba, Sodium Salt
DISTINCT HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
OVERDRIVE HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
STATURE FUNGICIDE, SEPRO	241	411	67690	110488-70-5	Dimethomorph
STATURE DM FUNGICIDE	241	419	67690	110488-70-5	Dimethomorph
FORUM FUNGICIDE	241	427		110488-70-5	Dimethomorph
CABRIO TEAM FUNGICIDE	7969	229		110488-70-5	Dimethomorph
ACROBAT 50WP FUNGICIDE	241	410		110488-70-5	Dimethomorph
VENOM 20 SG INSECTICIDE	33657	17	59639	165252-70-0	Dinotofuran
VALENT VENOM INSECTICIDE	59639	135		165252-70-0	Dinotofuran
SAFARI 20 SG INSECTICIDE	33657	16	59639	165252-70-0	Dinotofuran
AGRSOLUTIONS DIURON 4L	9779	329		330-54-1	Diuron
KARMEX DF HERBICIDE	1812	362		330-54-1	Diuron
DIREX 4L HERBICIDE	1812	257		330-54-1	Diuron
DIURON 80 HERBICIDE	19713	274		330-54-1	Diuron
DUPONT VELPAR ALFAMAX HERBICIDE	352	665		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
BROMACIL/DIURON 40+40 DF HERBICIDE	70506	84		330-54-1	Diuron
AGRSOLUTIONS DIURON TVC 80DF	9779	318		330-54-1	Diuron
THIDIAZURON+DIURON EC COTTON DEFOLIANT	51036	429		330-54-1	Diuron
SUREFIRE	100	1010	34704	330-54-1	Diuron
GRIFFIN KARMEX XP HERBICIDE	1812	362		330-54-1	Diuron
DUPONT VELPAR ALFAMAX GOLD	352	666		330-54-1	Diuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-54-1	Diuron
DIURON 8- WDG WEED KILLER	34704	648		330-54-1	Diuron
PROCLAIM INSECTICIDE	100	904		137512-74-4	Emamectin Benzoate
DENIM INSECTICIDE	100	903		137512-74-4	Emamectin Benzoate
THONEX (ENDOSULFAN) 50WSB	279	3129	66222	115-29-7	Endosulfan
GOWAN ENDOSULFAN 50 WSB	10163	130		115-29-7	Endosulfan
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 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

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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>
THIONEX (ENDOSULFAN) 50W	279	1380	66222	115-29-7	Endosulfan
THIONEX 3EC	66222	63		115-29-7	Endosulfan
THIONEX 50W INSECTICIDE	66222	62		115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 3EC	279	2924	66222	115-29-7	Endosulfan
CARBINE 50WG INSECTICIDE	71512-	9	279	158062-67-0	Flonicamid
BELEAF 50 SG INSECTICIDE	71512	10	279	158062-67-0	Flonicamid
ARIA INSECTICIDE	279	3287		158062-67-0	Flonicamid
CARBINE 50 WG INSECTICIDE	71512	9	279	158062-67-0	Flonicamid
ARIA INSECTICIDE	279	3287		158062-67-0	Flonicamid
AXIOM DF HERBICIDE	264	766		142459-58-3	Flufenacet (Thiafluamide)
DEFINE DF HERBICIDE	264	765		142459-58-3	Flufenacet (Thiafluamide)
BAYER CROP SCIENCE DEFINE SC HERBICIDE	264	819		142459-58-3	Flufenacet (Thiafluamide)
AXIOM DF HERBICIDE	3125	488		142459-58-3	Flufenacet (Thiafluamide)
AXIOM AT DF HERBICIDE	264	769		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
IGNITE 280 SL HERBICIDE	264	829		77182-82-2	Glufosinate-Ammonium
FINALE HERBICIDE	432	1229		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
SEMPRA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SEMPRA CA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SEMPRA CA	524	524		100784-20-1	Halosulfuron-Methyl
SEDGEHAMMER TURF HERBICIDE	81880	1	10163	100784-20-1	Halosulfuron-Methyl
SANDEA HERBICIDE	10163	254		100784-20-1	Halosulfuron-Methyl
MANAGE TURF 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
MARATHON 60 WP GREENHOUSE AND NURSERY INSECTICIDE IN WATER	432	1361	59807	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>
SOLUBLE PACKAGING					
MERIT 75 WSP INSECTICIDE	3125	439		138261-41-3	Imidacloprid
PASADA 1.6F FLOWABLE INSECTICIDE	264	763	66222	138261-41-3	Imidacloprid
MAJESTY	432	1369	59807	138261-41-3	Imidacloprid
LATITUDE SEED TREATMENT	7501	198		138261-41-3	Imidacloprid
IMPULSE 1.6 FL				138261-41-3	Imidacloprid
IMIDIPRO SYSTEMIC INSECTICIDE	42750	115	2217	138261-41-3	Imidacloprid
IMIDACLOPRID 4F INSECTICIDE	264	783	66222	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
MERIT 2 INSECTICIDE	3125	418		138261-41-3	Imidacloprid
MACHO 2.0 FL	42750	110		138261-41-3	Imidacloprid
MERIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
MARATHON 1% GRANULAR GREENHOUSE & NURSERY INSECTICIDE	432	1329	59807	138261-41-3	Imidacloprid
LESCO BANDIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
MARATHON II GREENHOUSE AND NURSERY INSECTICIDE	432	1369	59807	138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	432	1314		138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	3125	421		138261-41-3	Imidacloprid
GARANT T & O 2F INSECTICIDE	432	1312	67760	138261-41-3	Imidacloprid
COURAZE MAX 4F	264	783	67760	138261-41-3	Imidacloprid
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
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 CROPSCIENCE CAUCHO GRANDE SEED-APPLIED INSECTICIDE	264	968		138261-41-3	Imidacloprid
BAYER CROPSCIENCE GAUCHO 480 FLOWABLE	264	957		138261-41-3	Imidacloprid
BAYER CROPSCIENCE TOPS-MZ-GAUCHO POTATO SEED-PIECE TREATMENT	264	977		138261-41-3	Imidacloprid
GAUCHO 480	7501	155		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>
COURAZE 2F INSECTICIDE	264	758	67760	138261-41-3	Imidacloprid
HUNTER 75 WSP INSECTICIDE	432	1318		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
SIGNATURE BRAND FERTILIZER FERTILIZER WITH 0.2% MERIT 7-0-0	432	1349	65783	138261-41-3	Imidacloprid
GARANT T & O 75 WSP INSECTICIDE	432	1318	67760	138261-41-3	Imidacloprid
PASADA 75 WSB	264	761	66222	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
COURAZE 1.6F INSECTICIDE	264	763	67760	138261-41-3	Imidacloprid
SIGNATURE FERTILIZER WITH MERIT 0.2%	432	1349	65783	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 75 WSB INSECTICIDE	432	1318	73220	138261-41-3	Imidacloprid
ZENITH 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
TOPS-MZ-GAUCHO	7501	183		138261-41-3	Imidacloprid
SUBMERGE 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
SIGNATURE BRAND FERTILIZER FERTILIZER WITH 0.2% MERIT 21-3-8	432	1349	65783	138261-41-3	Imidacloprid
PRO-MATE MERIT 0.2% PLUS TURF FERTILIZER	432	1349	5905	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 2 F INSECTICIDE	432	1312	73220	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 0.5G INSECTICIDE	432	1328	73220	138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WP INSECTICIDE IN WSP	3125	428		138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WETTABLE POWDER INSECTICIDE IN WATER SOLUBLE PACKETS	264	761		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
THE ANDERSONS PROFESSIONAL TURF PRODUCTS FERTILIZER 22-3-8 WITH MERIT INSECTICIDE	432	1349	9198	138261-41-3	Imidacloprid
LOROX DF HERBICIDE	1812	320		330-55-2	Linuron
DUPONT LAYBY PRO HERBICIDE	352	660		330-55-2	Linuron
LINEX 4L HERBICIDE	1812	245		330-55-2	Linuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-55-2	Linuron
MANEB 80 WP FUNGICIDE	4581	255		12427-38-2	Maneb
PENTATHLON FUNGICIDE FLOWABLE	1812	251		12427-38-2	Maneb

Table 4: Agricultural Pesticides on the 2009 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>
WITH ZINC					
POTATO SEED TREATER 6%	2935	541	34704	12427-38-2	Maneb
POTATO SEED TREATER PS	2935	539	34704	12427-38-2	Maneb
MANEB 75DF DRY FLOWABLE FUNGICIDE	4581	371		12427-38-2	Maneb
MANEB 75DF FUNGICIDE	4581	371	82695	12427-38-2	Maneb
DUPONT MANEX FUNGICIDE	352	655		12427-38-2	Maneb
MANEB 80WP FUNGICIDE	4581	255	82695	12427-38-2	Maneb
MANEX FUNGICIDE FLOWABLE WITH ZINC	1812	251		12427-38-2	Maneb
SHUTOUT	2217	869	5905	16484-77-8	Mecoprop-P (MCP-P)
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
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
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		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
PRO-MATE THREE-WAY CS	2217	493	5905	66423-09-4	Mecoprop-P (MCP-P), DMA Salt
DELTA COAT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
RIDOMIL GOLD COPPER FUNGICIDE	100	804		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD COPPER FUNGICIDE	100	804		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO SC FUNGICIDE	100	1221		70630-17-0	Mefenoxam
RIDOMIL GOLD EC	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO FUNGICIDE	100	800		70630-17-0	Mefenoxam
PLATINUM RIDOMIL GOLD	100	974		70630-17-0	Mefenoxam
AGRISOLUTIONS CATAPULT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
RIDOMIL GOLD GR FUNGICIDE	100	798		70630-17-0	Mefenoxam
AgriSolutions WARDEN RTA	100	1146	1381	70630-17-0	Mefenoxam
QUALI-PRO MEFENOXAM 2 AQ	70252	11	73220	70630-17-0	Mefenoxam
MAXIM XL FUNGICIDE	100	916		70630-17-0	Mefenoxam
DYNASTY CST FUNGICIDE	100	1177		70630-17-0	Mefenoxam
DIVIDEND XL RTA FUNGICIDE	100	826		70630-17-0	Mefenoxam
DIVIDEND XL FUNGICIDE	100	885		70630-17-0	Mefenoxam
AGRISOLUTIONS INCENTIVE RTA	100	826	1381	70630-17-0	Mefenoxam

Table 4: Agricultural Pesticides on the 2009 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>
MAXIM XL FUNGICIDE	100	916		70630-17-0	Mefenoxam
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
RIDOMIL GOLD MZ FUNGICIDE	100	803		70630-17-0	Mefenoxam
APRON XL LS FUNGICIDE	100	799		70630-17-0	Mefenoxam
OSPREY HERBICIDE	264	802		208465-21-8	Mesosulfuron-Methyl
INTREPID 2F AGRIC. INSECTICIDE	707	277		161050-58-4	Methoxyfenozide
INTREPID 2F	62719	442		161050-58-4	Methoxyfenozide
SENCOR SOLUPAK75% DF HERBICIDE WSP	3125	402		21087-64-9	Metribuzin
METRIBUZIN4 FLOWABLE HERBICIDE	264	735		21087-64-9	Metribuzin
METRIBUZIN DF 75% DRY FLOWABLE HERBICIDE	264	738		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
AXIOM DF HERBICIDE	264	766		21087-64-9	Metribuzin
AXIOM AT DF HERBICIDE	264	769		21087-64-9	Metribuzin
SENCOR 75% DRY FLOWABLE HERBICIDE	3125	325		21087-64-9	Metribuzin
TARGET 6 PLUS	42519	3		2163-80-6	MSMA
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
WEED-HOE	61483	15	17545	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	50534	6	17545	2163-80-6	MSMA
DUPONT STEADFAST HERBICIDE	352	608		111991-09-4	Nicosulfuron
VYDATE L INSECTICIDE/NEMATICIDE	352	372		23135-22-0	Oxamyl
DUPONT VYDATE C-LV INSECTICIDE/NEMATICIDE	352	382		23135-22-0	Oxamyl
PRAMITOL 25E HERBICIDE	66222	22		1610-78-0	Prometon
PROMETRYNE4L HRBICIDE	9779	297		7287-19-6	Prometryn
CAPAROL 4L HERBICIDE	100	620		7287-19-6	Prometryn

Table 4: Agricultural Pesticides on the 2009 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>
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
PROMETRYN 4L CA/AZ	1812	274	66222	7287-19-6	Prometryn
PROMETRYNE 4L HERBICIDE	34704	692		7287-19-6	Prometryn
PROMETRYNE 4L HERBICIDE	34704	692		7287-19-6	Prometryn
PEAK-CUSTOMPAK HERBICIDE	100	763		94125-34-5	Prosulfuron
CUSTOM PAK PEAK HERBICIDE	100	763		94125-34-5	Prosulfuron
PEAK ACCU-PAK HERBICIDE	100	763		94125-34-5	Prosulfuron
FUSILADE DX HERBICIDE	100	1070		123312-89-0	Pymetrozine
FULFILL INSECTICIDE	100	912		123312-89-0	Pymetrozine
ENDEAVOR INSECTICIDE	100	913		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
VISOR 2E HERBICIDE	707	251		112410-23-8	Tebufenozide
MIMIC 2LV AGRICULTURAL INSECTICIDE	707	270		112410-23-8	Tebufenozide
CONFIRM T/O INSECTICIDE	707	238		112410-23-8	Tebufenozide
CONFIRM T/O	62719	420		112410-23-8	Tebufenozide
CONFIRM 2F AGRICULTURAL INSECTICIDE (SEC18 98-AZ-09,10)	707	238		112410-23-8	Tebufenozide
CONFIRM 2F	62719	420		112410-23-8	Tebufenozide
CRUISER 5FS insecticide	100	941		153719-23-4	Thiamethoxam
PLATINUM RIDOMIL GOLD	100	974		153719-23-4	Thiamethoxam
FLAGSHIP 25WG	100	955		153719-23-4	Thiamethoxam
ACTARA INSECTICIDE	100	938		153719-23-4	Thiamethoxam
CENTRIC 40WG INSECTICIDE	100	1147		153719-23-4	Thiamethoxam
CENTRIC INSECTICIDE	100	968		153719-23-4	Thiamethoxam
PLATINUM INSECTICIDE	100	939		153719-23-4	Thiamethoxam
VISOR 2E	62719	431		117718-60-2	Thiazopyr
ENVOKE HERBICIDE	100	1132		199119-58-9	Trifloxysulfuron-Sodium
PRIMO MAXX	100	937		95266-40-3	Trinexapac-Ethyl
PRIMO LIQUID	100	729		95266-40-3	Trinexapac-Ethyl
PRIMO	100	729		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. Currently, ADEQ's groundwater monitoring effort is confined to two areas; Yuma and Maricopa Counties that are considered vulnerable to pesticide pollution due to pesticide usage, permeable soils and shallow groundwater. Plans are in progress to extend the monitoring network to other parts of the state including the Thatcher-Safford area of Graham County.

In 2008, groundwater sampling was conducted twice; during spring and fall seasons in the Yuma and Buckeye areas where the Arizona Department of Agriculture owns several dedicated monitoring wells. A few GWPL pesticide active ingredients have been detected in groundwater at very low concentrations of parts per billion range (Table 5). 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. 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 (parts per billion)*</i>
Atrazine	Herbicide	(0.02 - 0.36)
Dimetomorph	Fungicide	(0.02 - 0.28)
Diuron	Herbicide	(0.02 - 0.30)
Imidacloprid	Insecticide	(0.02 - 1.64)
Methoxyfenozide	Insecticide	(0.02 - 4.10)
Prometryn	Herbicide	(0.02 - 0.96)

* Detection limit 0.02 ppb

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 Groundwater Protection List (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 Arizona Department of Agriculture prior to use, ADEQ allows the use of Form 1080 to fulfill this reporting requirement. The use information is presented in the following tables that were prepared with the assistance of the Arizona Department of Agriculture:

- Use information on agricultural-use pesticides on the GWPL in Table 3 that were intended for soil application *within* Arizona between Jan. 1, 2008 and Dec. 31, 2008 (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, 2008 and Dec. 31, 2008 (Table 7).

Table 6: Reported Use of Pesticides in Arizona (Statewide)

<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total Applied</i>	<i>Units</i>
UNISON	H	5905	542	0	2,4-D Acid	94-75-7	572	1.96	GAL
AGRISOLUTIONS 2,4-D AMINE 4	H	1381	103	0	2,4-D Diethylamine Salt	2008-39-1	1135	108.77	GAL
AMINE 4 2,4-D WEED KILLER	H	34704	120	0	2,4-D Diethylamine Salt	2008-39-1	2868	234.51	GAL
CLEAN AMINE	H	34704	120	0	2,4-D Diethylamine Salt	2008-39-1	96	6.98	GAL
NUFARM WEEDAR 64 BROADLEAF HERBICIDE	H	71368	1	0	2,4-D Diethylamine Salt	2008-39-1	8058.05	677.25	GAL
RIVERDALE WEEDESTROY AM-40 AMINE SALT	H	228	145	0	2,4-D Diethylamine Salt	2008-39-1	1213.9	36.47	GAL
UAP TIMBERLAND PLATOON	H	228	145	0	2,4-D Diethylamine Salt	2008-39-1	74.1	6.50	GAL
ACTIGARD 50 WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	585.38	13.64	LBS
BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	2112.2	52.52	LBS
PERM UP 3.2 EC INSECTICIDE	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	13.5	0.32	LBS
AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1912-24-9	8034.1	876.31	GAL
AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	1912-24-9	58525.4	141.05	GAL
ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	1912-24-9	4220.8	399.32	GAL
DREXEL ATRAZINE 4L HERBICIDE	H	19713	11	0	Atrazine	1912-24-9	1450.92	124.70	GAL
ABOUT FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	2728.3	60.57	GAL
AMISTAR FUNGICIDE	F	100	1164	0	Azoxystrobin	131860-33-8	171	12.00	GAL
QUADRI FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	5904.56	115.46	GAL
QUILT FUNGICIDE	F	100	1178	0	Azoxystrobin	131860-33-8	56.4	0.39	GAL
CARBARYL CUTWORM BAIT	I	11656	21	0	Carbaryl	63-25-2	328.6	276.08	LBS
DREXEL CARBARYL 4L	I	19713	49	0	Carbaryl	63-25-2	60	6.51	LBS
SEVIN 5 BAIT	I	2935	366	0	Carbaryl	63-25-2	5304.78	5340.42	LBS
AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	22328	333.18	GAL
AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-Ethyl	128639-02-1	1823.69	2.00	GAL
DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	50008-15-1	10965.3	89.57	GAL
VOLIAM XPRESS INSECTICIDE	I	100	1320	0	Chlorantraniliprole	50008-15-1	1516.14	34.09	GAL
RECLAIM	H	62719	83	0	Clopyralid	1702-17-6	100	3.51	GAL

Table 6: Reported Use of Pesticides in Arizona (Statewide)

<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total Applied</i>	<i>Units</i>
STINGER	H	62719	73	0	Clopyralid	1702-17-6	428.7	10.50	GAL
STANCE PLANT REGULATOR	R	264	841	0	Cyclanilide	113136-77-9	194.9	0.09	GAL
BANVEL HERBICIDE	H	51036	289	0	Dicamba, DMA Salt	2300-66-5	6	1.21	GAL
ACROBAT 50WP FUNGICIDE	F	241	410	0	Dimethomorph	110488-70-5	461.3	89.98	LBS
FORUM FUNGICIDE	F	241	427	0	Dimethomorph	110488-70-5	26315.4	1270.61	GAL
STATURE DM FUNGICIDE	F	241	419	0	Dimethomorph	110488-70-5	38	4.75	GAL
VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	165252-70-0	7990.69	1554.65	LBS
DIREX 4L HERBICIDE	H	352	678	0	Diuron	330-54-1	5128.7	522.27	GAL
DENIM INSECTICIDE	I	100	903	0	Emamectin Benzoate	137512-74-4	259	0.52	GAL
PROCLAIM INSECTICIDE	I	100	904	0	Emamectin Benzoate	137512-74-4	11304	161.67	LBS
DIAZINON AG 500	I	66222	63	0	Endosulfan	115-29-7	13.2	0.67	GAL
DREXEL ENDOSULFAN 3EC (SLN AZ-980004)	I	19713	399	0	Endosulfan	115-29-7	8350.27	874.70	GAL
GOWAN ENDOSULFAN 3EC	I	10163	110	0	Endosulfan	115-29-7	2007.5	264.35	GAL
THIODAN 3 EC INSECTICIDE (SLN AZ-930014)	I	279	2924	0	Endosulfan	115-29-7	1319.9	132.27	GAL
THONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	37570.1	6773.70	GAL
BELEAF 50SG INSECTICIDE	I	71512	10	279	Fonicamid	158062-67-0	17865.9	1520.81	LBS
CARBINE 50 WG INSECTICIDE	I	71512	9	279	Fonicamid	158062-67-0	80691	6798.69	LBS
ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Fonicamid	158062-67-0	7545.18	638.79	LBS
LIBERTY HERBICIDE	H	264	660	0	Glufosinate-Ammonium	77182-82-2	369.2	17.85	GAL
RELY 200 HERBICIDE	H	264	660	0	Glufosinate-Ammonium	77182-82-2	36.4	1.74	GAL
SANDEA HERBICIDE	H	10163	254	0	Halosulfuron- Methyl	100784-20-1	644.65	26.56	LBS
YUKON HERBICIDE WATER SOLUBLE GRANULE	H	81880	6	10163	Halosulfuron- Methyl	100784-20-1	484.6	17.45	GAL
BASF BEYOND HERBICIDE/CLEARFIELD PRODUCTION SYSTEM	H	241	379	0	Imazamox	114311-32-9	575	2.05	GAL
BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	33950.8	261.79	GAL
PURSUIT HERBICIDE	H	241	379	0	Imazamox	114311-32-9	7.9	0.02	GAL
AGRSOLUTIONS CORNERSTONE PLUS HERBICIDE	H	524	454	1381	Imazethapyr	81335-77-5	36.8	2.05	GAL

Table 6: Reported Use of Pesticides in Arizona (Statewide)

<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total Applied</i>	<i>Units</i>
ADMIRE 2 FLOWABLE INSECTICIDE (SLN AZ-040003)	I	264	758	0	Imidacloprid	138261-41-3	1046.3	171.24	GAL
ADMIRE PRO SYSTEMIC PROTECTANT INSECTICIDE	I	264	827	0	Imidacloprid	138261-41-3	10855.6	697.70	GAL
ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	138261-41-3	10344.9	360.25	GAL
COURAZE 1.6F INSECTICIDE	I	264	763	67760	Imidacloprid	138261-41-3	126.62	0.64	GAL
COURAZE 2F INSECTICIDE	I	264	758	67760	Imidacloprid	138261-41-3	512.2	27.46	GAL
LEVERAGE 2.7 SUSPENSION EMULSION INSECTICIDE	I	264	770	0	Imidacloprid	138261-41-3	304.7	1.50	GAL
MONTANA INSECTICIDE	I	83100	7	83979	Imidacloprid	138261-41-3	193.7	5.72	GAL
PROVADO 1.6 FLOWABLE INSECTICIDE	I	264	763	0	Imidacloprid	138261-41-3	3520.12	26.30	GAL
PROVADO SOLUPAK 75% WETTABLE POWDER INSECTICIDE IN WATER SOLUBLE PACKETS	I	264	761	0	Imidacloprid	138261-41-3	60	1.22	GAL
DUPONT LINEX 4L HERBICIDE	H	352	677	0	Linuron	330-55-2	144.5	10.15	GAL
DUPONT LOROX DF HERBICIDE	H	352	686	0	Linuron	330-55-2	289.6	272.44	LBS
LOROX DF HERBICIDE	H	1812	320	0	Linuron	330-55-2	12.94	19.41	LBS
REVUS	F	100	1254	0	Mandipropamid*	374726-62-2	3303.72	50.36	GAL
DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	F	352	655	0	Maneb	12427-38-2	41.8	3.87	GAL
DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	12427-38-2	27918	3468.85	GAL
MANEB 75DF FUNGICIDE	F	4581	371	82695	Maneb	12427-38-2	1409.55	1639.53	LBS
MANEB 75DF DRY FLOWABLE FUNGICIDE	F	70506	186	0	Maneb	12427-38-2	1679.54	96231.65	LBS
MANEX FUNGICIDE FLOWABLE WITH ZINC	F	1812	251	0	Maneb	12427-38-2	2035.8	278.43	GAL
PENTATHLON FUNGICIDE FLOWABLE WITH ZINC	F	1812	251	0	Maneb	12427-38-2	135	26.25	GAL
RIDOMIL GOLD BRAVO	F	100	800	0	Mefenoxam	70630-17-0	264.1	20.49	LBS
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	Mefenoxam	70630-17-0	311.55	4.57	GAL
RIDOMIL GOLD BRAVO SC FUNGICIDE	F	100	1221	0	Mefenoxam	70630-17-0	65.3	0.66	GAL
RIDOMIL GOLD COPPER FUNGICIDE	F	100	804	0	Mefenoxam	70630-17-0	49	4.90	LBS
RIDOMIL GOLD EC	F	100	801	0	Mefenoxam	70630-17-0	705.99	24.51	GAL
RIDOMIL GOLD MZ	F	100	803	0	Mefenoxam	70630-17-0	18	1.60	GAL
RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	Mefenoxam	70630-17-0	1800.82	29.24	GAL

Table 6: Reported Use of Pesticides in Arizona (Statewide)

<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total Applied</i>	<i>Units</i>
OSPREY HERBICIDE	H	264	802	0	Mesosulfuron-Methyl	208465-21-8	1386.9	150.31	OZS
DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	16752-77-5	24263.9	29753.99	LBS
INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	39880	760.19	GAL
DUPONT STEADFAST HERBICIDE	H	352	608	0	Nicosulfuron	111991-09-4	400	147.50	OZS
DUPONT VYDATE C-LV INSECTICIDE/NEMATOCIDE	I	352	532	0	Oxamyl	23135-22-0	402	42.95	GAL
VYDATE L INSECTICIDE/NEMATOCIDE	I	352	372	0	Oxamyl	23135-22-0	39.3	4.72	GAL
CAPAROL 4L HERBICIDE	H	100	620	0	Prometryn	7287-19-6	223.1	24.64	GAL
COTTON PRO	H	66222	15	0	Prometryn	7287-19-6	3176	224.01	GAL
COTTON-PRO HERBICIDE	H	1812	274	0	Prometryn	7287-19-6	134	7.89	GAL
GOWAN PROMETRYNE 4L HERBICIDE	H	10163	94	0	Prometryn	7287-19-6	47.4	3.04	GAL
PROMETRYN 4L CA/AZ	H	1812	274	66222	Prometryn	7287-19-6	21.8	1.10	GAL
VEGETABLE PRO HERBICIDE	H	66222	15	0	Prometryn	7287-19-6	12	1.98	GAL
FULFILL INSECTICIDE	I	100	912	0	Pymetrozine	123312-89-0	2688.74	209.32	LBS
FUSILADE DX HERBICIDE	H	100	1070	0	Pymetrozine	123312-89-0	758.1	23.43	GAL
CONFIRM 2F	H	62719	420	0	Tebufenozide	112410-23-8	70.8	1.02	GAL
ACTARA INSECTICIDE	I	100	938	0	Thiamethoxam	153719-23-4	377.1	23.50	LBS
CENTRIC 40WG INSECTICIDE	I	100	1147	0	Thiamethoxam	153719-23-4	408	20.50	LBS
PLATINUM INSECTICIDE	I	100	939	0	Thiamethoxam	153719-23-4	20.7	3.07	LBS
LEBANON PROSCAPE HOMO W/CONFRONT	H	62719	262	0	Triclopyr	55335-06-3	5	0.03	OZS
RONSTAR G HERBICIDE	H	432	886	0	Trinexapac-ethyl	19666-30-9	18.7	54.04	LBS

Table 7: Reported Use of Pesticides in Arizona by County

<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
APACHE	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	63-25-2	16	17.5	LBS
APACHE	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	50008-15-1	35.5	0.25576	GAL
APACHE	THIONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	44	4.2125	GAL
APACHE	BELEAF 50SG INSECTICIDE	I	71512	10	279	Fonicamid	158062-67-0	13.15	1.09	LBS
APACHE	ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Fonicamid	158062-67-0	41.04	2.25	LBS
APACHE	REVUS	F	100	1254	0	Mandipropamid*	374726-62-2	41.04	0.5825	GAL
COCHISE	AGRISOLUTIONS 2,4-D AMINE 4	H	1381	103	0	2,4-D Diethylamine Salt	2008-39-1	1135	104.038	GAL
COCHISE	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	H	71368	1	0	2,4-D Diethylamine Salt	2008-39-1	944	82.836	GAL
COCHISE	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1912-24-9	605	32.163	GAL
COCHISE	ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	1912-24-9	1323	162.892	GAL
COCHISE	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	70.4	6.06392	GAL
COCHISE	QUADRISS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	30	0.687	GAL
COCHISE	QUILT FUNGICIDE	F	100	1178	0	Azoxystrobin	131860-33-8	4.5	0.035	GAL
COCHISE	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	1679	211.85	GAL
COCHISE	RECLAIM	H	62719	83	0	Clopyralid	1702-17-6	100	3.51331	GAL
COCHISE	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Fonicamid	158062-67-0	191	16.7	LBS
COCHISE	LIBERTY HERBICIDE	H	264	660	0	Glufosinate-Ammonium	77182-82-2	120	5.78442	GAL
COCHISE	YUKON HERBICIDE WATER SOLUBLE GRANULE	H	81880	6	10163	Halosulfuron-Methyl	100784-20-1	360	71.25	GAL
COCHISE	BASF BEYOND HERBICIDE/CLEARFIELD PRODUCTION SYSTEM	H	241	379	0	Imazamox	114311-32-9	32	0.121	LBS
COCHISE	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	3273	17.20257	GAL
COCHISE	ADMIRE PRO SYSTEMIC PROTECTANT INSECTICIDE	I	264	827	0	Imidacloprid	138261-41-3	2019	55.58436	GAL
COCHISE	ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	138261-41-3	140	7.49	GAL
COCHISE	RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	Mefenoxam	70630-17-0	30	1.69875	GAL
COCHISE	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	16752-77-5	64	27	LBS
COCHISE	INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	106.1	1.4464	GAL
COCHISE	DUPONT STEADFAST HERBICIDE	H	352	608	0	Nicosulfuron	111991-09-4	400	147.5	OZS
COCONINO	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	50008-15-1	60.2	0.414	GAL

Table 7: Reported Use of Pesticides in Arizona by County

<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
GRAHAM	AGRISOLUTIONS 2,4-D AMINE 4	H	1381	103	0	2,4-D Diethylamine Salt	2008-39-1	120	4.729	GAL
GRAHAM	DREXEL CARBARYL 4L	I	19713	49	0	Carbaryl	63-25-2	60	6.51	LBS
GRAHAM	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	260	30.105	GAL
GRAHAM	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	158062-67-0	135.8	10.6	LBS
GRAHAM	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	330	1.452	GAL
GREENLEE	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	22	0.121	GAL
LA PAZ	UNISON	H	5905	542	0	2,4-D Acid	94-75-7	572	1.96	GAL
LA PAZ	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	H	71368	1	0	2,4-D Diethylamine Salt	2008-39-1	4236	350.251808	GAL
LA PAZ	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1912-24-9	127.6	12.78	GAL
LA PAZ	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	1747.6	37.51936	GAL
LA PAZ	QUADRIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	432.3	20.36268	GAL
LA PAZ	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	602.9	29.6485413	GAL
LA PAZ	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	165252-70-0	2388.9	441.19817	LBS
LA PAZ	DENIM INSECTICIDE	I	100	903	0	Emamectin Benzoate	137512-74-4	259	0.516	GAL
LA PAZ	THIONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	140.3	11.795	GAL
LA PAZ	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	158062-67-0	1830.1	122.4425	LBS
LA PAZ	SANDEA HERBICIDE	H	10163	254	0	Halosulfuron-Methyl	100784-20-1	186.9	7.03125	LBS
LA PAZ	BASF BEYOND HERBICIDE/CLEARFIELD PRODUCTION SYSTEM	H	241	379	0	Imazamox	114311-32-9	543	1.9336405	GAL
LA PAZ	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	7254.7	58.2360295	GAL
LA PAZ	INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	1948.2	25.2628676	GAL
LA PAZ	FUSILADE DX HERBICIDE	H	100	1070	0	Pymetrozine	123312-89-0	543	13.3515445	GAL
MARICOPA	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	H	71368	1	0	2,4-D Diethylamine Salt	2008-39-1	1472.3	121.99019	GAL
MARICOPA	RIVERDALE WEEDESTROY AM-40 AMINE SALT	H	228	145	0	2,4-D Diethylamine Salt	2008-39-1	298	22.871919	GAL
MARICOPA	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1912-24-9	1935.5	218.44215	GAL
MARICOPA	AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	1912-24-9	57745	59.928336	GAL
MARICOPA	DREXEL ATRAZINE 4L HERBICIDE	H	19713	11	0	Atrazine	1912-24-9	1052.3	90.097	

Table 7: Reported Use of Pesticides in Arizona by County

<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
MARICOPA	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	514	10.076	GAL
MARICOPA	AMISTAR FUNGICIDE	F	100	1164	0	Azoxystrobin	131860-33-8	171	12	GAL
MARICOPA	QUADRIIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	2229.9	51.4792	
MARICOPA	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	63-25-2	5	10	LBS
MARICOPA	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	1195.5	2.3541218	GAL
MARICOPA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	50008-15-1	651.5	4.554	GAL
MARICOPA	VOLIAM XPRESS INSECTICIDE	I	100	1320	0	Chlorantraniliprole	50008-15-1	173.2	1.5279	GAL
MARICOPA	FORUM FUNGICIDE	F	241	427	0	Dimethomorph	110488-70-5	165.5	3.763185	GAL
MARICOPA	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	165252-70-0	2602.5	569.289	LBS
MARICOPA	DIREX 4L HERBICIDE	H	1812	257	0	Diuron	330-54-1	2179.9	115.564	GAL
MARICOPA	DREXEL ENDOSULFAN 3EC (SLN AZ-980004)	I	19713	399	0	Endosulfan	115-29-7	321.1	11.7572	GAL
MARICOPA	GOWAN ENDOSULFAN 3EC	I	10163	110	0	Endosulfan	115-29-7	88.2	9.35	GAL
MARICOPA	THIODAN 3 EC INSECTICIDE (SLN AZ-930014)	I	279	2924	0	Endosulfan	115-29-7	636.5	51.3925	GAL
MARICOPA	THIONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	3379.3	287.40034	GAL
MARICOPA	BELEAF 50SG INSECTICIDE	I	71512	10	279	Flonicamid	158062-67-0	21	1.75	LBS
MARICOPA	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	158062-67-0	5273.3	432.6975	LBS
MARICOPA	ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Flonicamid	158062-67-0	40.3	0.3525	LBS
MARICOPA	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	5713.7	42.819964	GAL
MARICOPA	ADMIRE PRO SYSTEMIC INSECTICIDE	I	264	827	0	Imidacloprid	138261-41-3	1635.9	108.42096	GAL
MARICOPA	LEVERAGE 2.7 SUSPENSION INSECTICIDE	I	264	770	0	Imidacloprid	138261-41-3	304.7	1.496	GAL
MARICOPA	PROVADO 1.6 FLOWABLE INSECTICIDE	I	3125	457	0	Imidacloprid	138261-41-3	2855.8	13.7025	GAL
MARICOPA	REVUS	F	100	1254	0	Mandipropamid*	374726-62-2	186.8	2.71445	GAL
MARICOPA	DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	12427-38-2	899.1	101.75	GAL
MARICOPA	MANEX FUNGICIDE FLOWABLE WITH ZINC	F	1812	251	0	Maneb	12427-38-2	1360.8	137.825	GAL
MARICOPA	PENTATHLON FUNGICIDE FLOWABLE	F	1812	251	0	Maneb	12427-38-2	135	26.25	GAL
MARICOPA	RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	Mefenoxam	70630-17-0	78.6	1.1025	GAL
MARICOPA	RIDOMIL GOLD EC	F	100	801	0	Mefenoxam	70630-17-0	215.8	2.8224	GAL

Table 7: Reported Use of Pesticides in Arizona by County

<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
MARICOPA	RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	Mefenoxam	70630-17-0	1262.9	17.55375	GAL
MARICOPA	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	16752-77-5	141	113.4	LBS
MARICOPA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	11777	313.379171	GAL
MARICOPA	VYDATE L INSECTICIDE/NEMATICIDE	I	352	372	0	Oxamyl	23135-22-0	39.3	4.716	GAL
MARICOPA	CAPAROL 4L HERBICIDE	H	100	620	0	Prometryn	7287-19-6	36	3.552	GAL
MARICOPA	COTTON PRO	H	66222	15	0	Prometryn	7287-19-6	2656	168.2604	GAL
MOHAVE	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	37.2	0.59169	QTS
PIMA	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1912-24-9	347.9	37.275	GAL
PIMA	AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	1912-24-9	69	8.424	GAL
PIMA	QUADRISS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	556.3	11.2439	GAL
PIMA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	50008-15-1	180	1.288	GAL
PIMA	BANVEL HERBICIDE	H	51036	289	0	Dicamba, DMA Salt	2300-66-5	6	1.205	GAL
PIMA	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	165252-70-0	360	49	LBS
PIMA	THIONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	1679	229.834	GAL
PIMA	BELEAF 50SG INSECTICIDE	I	71512	10	279	Fonicamid	158062-67-0	97	7.5	LBS
PIMA	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Fonicamid	158062-67-0	5394.5	457.6725	LBS
PIMA	COURAZE 2F INSECTICIDE	I	264	758	67760	Imidacloprid	138261-41-3	512.2	27.4562	GAL
PIMA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	521.75	5.527282	GAL
PIMA	ACTARA INSECTICIDE	I	100	938	0	Thiamethoxam	153719-23-4	365	22.5	LBS
PIMA	CENTRIC 40WG INSECTICIDE	I	100	1147	0	Thiamethoxam	153719-23-4	140	7.5	LBS
PINAL	AMINE 4 2,4-D WEED KILLER	H	34704	120	0	2,4-D Diethylamine Salt	2008-39-1	2868	234.5112	GAL
PINAL	CLEAN AMINE	H	34704	120	0	2,4-D Diethylamine Salt	2008-39-1	96	6.975	GAL
PINAL	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	H	71368	1	0	2,4-D Diethylamine Salt	2008-39-1	1406	122.174442	GAL
PINAL	RIVERDALE WEEDESTROY AMINE SALT	H	228	145	0	2,4-D Diethylamine Salt	2008-39-1	915.9	13.6017	GAL
PINAL	UAP TIMBERLAND PLATOON	H	228	145	0	2,4-D Diethylamine Salt	2008-39-1	74.1	6.502392	GAL
PINAL	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1912-24-9	4572.2	536.255616	GAL
PINAL	AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	1912-24-9	410	48.475908	GAL

Table 7: Reported Use of Pesticides in Arizona by County

<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
PINAL	ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	1912-24-9	2897.8	236.43183	GAL
PINAL	DREXEL ATRAZINE 4L HERBICIDE	H	19713	11	0	Atrazine	1912-24-9	398.62	34.604	GAL
PINAL	QUADRIIS FLOWABLE FUNGICIDE	F	10182	415	0	Azoxystrobin	131860-33-8	1956.4	22.66871	GAL
PINAL	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	63-25-2	75	75	LBS
PINAL	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	4800.1	27.8368893	GAL
PINAL	STANCE PLANT REGULATOR	R	264	841	0	Cyclanilide	113136-77-9	42	0.0206724	GAL
PINAL	BANVEL HERBICIDE	H	51036	289	0	Dicamba, DMA Salt	2300-66-5	6	1.205	GAL
PINAL	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	165252-70-0	110	17.5	LBS
PINAL	DIREX 4L HERBICIDE	H	352	678	0	Diuron	330-54-1	2948.8	406.7048	GAL
PINAL	DREXEL ENDOSULFAN 3EC (SLN AZ-980004)	I	19713	399	0	Endosulfan	115-29-7	1828.8	243.1	GAL
PINAL	GOWAN ENDOSULFAN 3EC	I	10163	110	0	Endosulfan	115-29-7	1919.3	255	GAL
PINAL	THIODAN 3 EC INSECTICIDE (SLN AZ-930014)	I	279	2924	0	Endosulfan	115-29-7	683.4	80.88	GAL
PINAL	THIONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	21666	5129.45223	GAL
PINAL	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Fonicamid	158062-67-0	66244	5634.89046	LBS
PINAL	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	14283	129.056107	GAL
PINAL	PROVADO SOLUPAK 75% WETTABLE POWDER INSECTICIDE IN WATER SOLUBLE PACKETS	I	264	761	0	Imidacloprid	138261-41-3	60	0.28275	GAL
PINAL	DUPONT LINEX 4L HERBICIDE	H	352	677	0	Linuron	330-55-2	125.5	9.135	GAL
PINAL	OSPREY HERBICIDE	H	264	802	0	Mesosulfuron-Methyl	208465-21-8	1386.9	150.305625	OZS
PINAL	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	16752-77-5	327.4	204.759	LBS
PINAL	INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	2904.4	35.7471884	GAL
PINAL	DUPONT C-LV INSECTICIDE/NEMATICIDE	I	352	532	0	Oxamyl	23135-22-0	402	42.945	GAL
PINAL	CAPAROL 4L HERBICIDE	H	100	620	0	Prometryn	7287-19-6	187.1	21.09	GAL
PINAL	COTTON PRO	H	66222	15	0	Prometryn	7287-19-6	520	55.748	GAL
PINAL	COTTON-PRO HERBICIDE	H	1812	274	0	Prometryn	7287-19-6	134	7.8925	GAL
PINAL	FUSILADE DX HERBICIDE	H	100	1070	0	Pymetrozine	123312-89-0	215.1	10.075625	GAL
PINAL	CENTRIC 40WG INSECTICIDE	I	100	1147	0	Thiamethoxam	153719-23-4	268	13	LBS

Table 7: Reported Use of Pesticides in Arizona by County

<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
YAVAPAI	ACTIGARD 50 WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	39.07	0.9155	LBS
YAVAPAI	BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	53.32	1.224	LBS
YAVAPAI	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	168.5	3.206	GAL
YAVAPAI	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	63-25-2	487.6	464.3	LBS
YAVAPAI	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	193.6	0.280088	GAL
YAVAPAI	AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-Ethyl	128639-02-1	31.2	0.0213	GAL
YAVAPAI	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	50008-15-1	611.9	3.80144	GAL
YAVAPAI	VOLIAM XPRESS INSECTICIDE	I	100	1320	0	Chlorantraniliprole	50008-15-1	17.85	0.1389	GAL
YAVAPAI	STINGER	H	62719	73	0	Clopyralid	1702-17-6	65.2	1.48876	GAL
YAVAPAI	STANCE PLANT REGULATOR	R	264	841	0	Cyclanilide	113136-77-9	45	0.021	GAL
YAVAPAI	FORUM FUNGICIDE	F	241	427	0	Dimethomorph	110488-70-5	1938.7	50.851065	GAL
YAVAPAI	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	165252-70-0	85	11.13	LBS
YAVAPAI	PROCLAIM INSECTICIDE	I	100	904	0	Emamectin Benzoate	137512-74-4	882.09	9.9141375	LBS
YAVAPAI	DREXEL ENDOSULFAN 3EC (SLN AZ-980004)	I	19713	399	0	Endosulfan	115-29-7	146.4	11.3968	GAL
YAVAPAI	THIONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	677.9	48.609891	GAL
YAVAPAI	BELEAF 50SG INSECTICIDE	I	71512	10	279	Flonicamid	158062-67-0	17.91	1.5	LBS
YAVAPAI	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	158062-67-0	124.3	10.5	LBS
YAVAPAI	ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Flonicamid	158062-67-0	959.34	77.407	LBS
YAVAPAI	ADMIRE 2 FLOWABLE INSECTICIDE (SLN AZ-040003)	I	264	758	0	Imidacloprid	138261-41-3	161.4	6.632288	GAL
YAVAPAI	ADMIRE PRO SYSTEMIC PROTECTANT INSECTICIDE	I	264	827	0	Imidacloprid	138261-41-3	79.36	2.12288	GAL
YAVAPAI	ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	138261-41-3	74.6	2.993432	GAL
YAVAPAI	REVUS	F	100	1254	0	Mandipropamid*	374726-62-2	298.4	4.223358	GAL
YAVAPAI	DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	12427-38-2	1142	144.03064	GAL
YAVAPAI	MANEB 75DF DRY FLOWABLE FUNGICIDE	F	4581	371	0	Maneb	12427-38-2	118.23	120.15	LBS
YAVAPAI	RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	Mefenoxam	70630-17-0	9.88	0.6125	GAL
YAVAPAI	RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	Mefenoxam	70630-17-0	132.95	1.881762	GAL
YAVAPAI	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	16752-77-5	1153.1	745.3341	LBS

Table 7: Reported Use of Pesticides in Arizona by County

<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
YAVAPAI	INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	412.1	4.827134	GAL
YUMA	ACTIGARD 50 WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	546.31	12.723	LBS
YUMA	BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	2058.9	51.2978125	LBS
YUMA	PERM UP 3.2 EC INSECTICIDE	F	100	922	0	Acibenzolar-S-Methyl	135158-54-2	13.5	0.3165	LBS
YUMA	AATREX 4L HERBICIDE	H	100	497	0	Atrazine	1912-24-9	445.9	39.02656	GAL
YUMA	AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	1912-24-9	301.4	24.219	GAL
YUMA	ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	227.8	3.70522	GAL
YUMA	QUADRIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	131860-33-8	699.7	9.017562	GAL
YUMA	CARBARYL CUTWORM BAIT	I	11656	21	0	Carbaryl	63-25-2	328.6	276.08	LBS
YUMA	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	63-25-2	4721.2	4773.6155	LBS
YUMA	AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-Ethyl	128639-02-1	13597	31.1025487	GAL
YUMA	AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-Ethyl	128639-02-1	1792.5	1.979409	GAL
YUMA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	50008-15-1	9426.2	79.25616	
YUMA	VOLIAM XPRESS INSECTICIDE	I	100	1320	0	Chlorantraniliprole	50008-15-1	1325.1	32.4225936	GAL
YUMA	STINGER	H	62719	73	0	Clopyralid	1702-17-6	363.5	9.008225	GAL
YUMA	STANCE PLANT REGULATOR	R	264	841	0	Cyclanilide	113136-77-9	107.9	0.0525	GAL
YUMA	ACROBAT 50WP FUNGICIDE	F	241	410	0	Dimethomorph	110488-70-5	461.3	89.9755	LBS
YUMA	FORUM FUNGICIDE	F	241	427	0	Dimethomorph	110488-70-5	24211	1215.99861	GAL
YUMA	STATURE DM FUNGICIDE	F	241	419	0	Dimethomorph	110488-70-5	38	4.75	GAL
YUMA	VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	165252-70-0	2444.3	466.5325	LBS
YUMA	PROCLAIM INSECTICIDE	I	100	904	0	Emamectin Benzoate	137512-74-4	10422	151.751104	LBS
YUMA	DIAZINON AG 500	I	66222	63	0	Endosulfan	115-29-7	13.2	0.674	GAL
YUMA	DREXEL ENDOSULFAN 3EC (SLN AZ-980004)	I	19713	399	0	Endosulfan	115-29-7	6054	608.44904	GAL
YUMA	THIONEX 3EC	I	66222	63	0	Endosulfan	115-29-7	9983.2	1062.39129	GAL
YUMA	BELEAF 50SG INSECTICIDE	I	71512	10	279	Flonicamid	158062-67-0	17717	1508.97169	LBS
YUMA	CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	158062-67-0	1498.3	113.1915	LBS
YUMA	ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Flonicamid	158062-67-0	6504.5	558.784775	LBS

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<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
YUMA	LIBERTY HERBICIDE	H	264	660	0	Glufosinate-Ammonium	77182-82-2	249.2	12.063608	GAL
YUMA	RELY 200 HERBICIDE	H	264	660	0	Glufosinate-Ammonium	77182-82-2	36.4	1.7409649	GAL
YUMA	SANDEA HERBICIDE	H	10163	254	0	Halosulfuron-Methyl	100784-20-1	457.75	19.52925	LBS
YUMA	YUKON HERBICIDE WATER SOLUBLE GRANULE	H	81880	6	10163	Halosulfuron-Methyl	100784-20-1	124.6	5.571875	GAL
YUMA	BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	114311-32-9	3037	12.433839	GAL
YUMA	PURSUIT HERBICIDE	H	241	379	0	Imazamox	114311-32-9	7.9	0.02178	GAL
YUMA	AGRISOLUTIONS CORNERSTONE PLUS HERBICIDE	H	524	454	1381	Imazethapyr	81335-77-5	36.8	2.05	GAL
YUMA	ADMIRE 2 FLOWABLE INSECTICIDE (SLN AZ-040003)	I	264	758	0	Imidacloprid	138261-41-3	884.9	164.608372	GAL
YUMA	ADMIRE PRO SYSTEMIC PROTECTANT INSECTICIDE	I	264	827	0	Imidacloprid	138261-41-3	7121.5	531.604542	GAL
YUMA	ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	138261-41-3	10130	349.764342	GAL
YUMA	COURAZE 1.6F INSECTICIDE	I	264	763	67760	Imidacloprid	138261-41-3	126.62	0.78966	GAL
YUMA	MONTANA INSECTICIDE	I	83100	7	83979	Imidacloprid	138261-41-3	193.7	5.72343	GAL
YUMA	PROVADO 1.6 FLOWABLE INSECTICIDE	I	264	763	0	Imidacloprid	138261-41-3	664.32	12.592902	GAL
YUMA	DUPONT LINEX 4L HERBICIDE	H	352	677	0	Linuron	330-55-2	19	1.015	GAL
YUMA	DUPONT LOROX DF HERBICIDE	H	352	686	0	Linuron	330-55-2	289.6	272.435	LBS
YUMA	LOROX DF HERBICIDE	H	1812	320	0	Linuron	330-55-2	12.94	19.41	LBS
YUMA	REVUS	F	100	1254	0	Mandipropamid*	374726-62-2	2777.5	42.8398693	GAL
YUMA	DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	F	352	655	0	Maneb	12427-38-2	41.8	3.8665	GAL
YUMA	DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	12427-38-2	25877	3223.07096	GAL
YUMA	MANEB 75DF FUNGICIDE	F	4581	371	82695	Maneb	12427-38-2	1409.6	1639.53225	LBS
YUMA	MANEB 75DF DRY FLOWABLE FUNGICIDE	F	70506	186	0	Maneb	12427-38-2	1561.3	96111.5003	LBS
YUMA	MANEX FUNGICIDE FLOWABLE WITH ZINC	F	1812	251	0	Maneb	12427-38-2	675	140.6	GAL
YUMA	RIDOMIL GOLD BRAVO	F	100	800	0	Mefenoxam	70630-17-0	264.1	20.4858	LBS
YUMA	RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	Mefenoxam	70630-17-0	223.07	2.85278	GAL
YUMA	RIDOMIL GOLD BRAVO SC FUNGICIDE	F	100	1221	0	Mefenoxam	70630-17-0	65.3	0.66	GAL

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<i>County</i>	<i>Product Brand Name</i>	<i>Type</i>	<i>EPA1</i>	<i>EPA2</i>	<i>EPA3</i>	<i>Active Ingredient</i>	<i>CAS #</i>	<i>Acres</i>	<i>Total AI Applied</i>	<i>Units</i>
YUMA	RIDOMIL GOLD COPPER FUNGICIDE	F	100	804	0	Mefenoxam	70630-17-0	49	4.9	LBS
YUMA	RIDOMIL GOLD EC	F	100	801	0	Mefenoxam	70630-17-0	490.19	21.6874	GAL
YUMA	RIDOMIL GOLD MZ	F	100	803	0	Mefenoxam	70630-17-0	18	1.5984	GAL
YUMA	RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	Mefenoxam	70630-17-0	374.97	8.103717	GAL
YUMA	DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	16752-77-5	22578	28663.4993	LBS
YUMA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	161050-58-4	22211	374.004236	GAL
YUMA	GOWAN PROMETRYNE 4L HERBICIDE	H	10163	94	0	Prometryn	7287-19-6	47.4	3.03696	GAL
YUMA	PROMETRYN 4L CA/AZ	H	1812	274	66222	Prometryn	7287-19-6	21.8	1.10112	GAL
YUMA	VEGETABLE PRO HERBICIDE	H	66222	15	0	Prometryn	7287-19-6	12	1.98	GAL
YUMA	FULFILL INSECTICIDE	I	100	912	0	Pymetrozine	123312-89-0	2688.7	209.316344	LBS
YUMA	CONFIRM 2F	H	62719	420	0	Tebufenozide	112410-23-8	70.8	1.0166	GAL
YUMA	ACTARA INSECTICIDE	I	100	938	0	Thiamethoxam	153719-23-4	12.1	1	LBS
YUMA	PLATINUM INSECTICIDE	I	100	939	0	Thiamethoxam	153719-23-4	20.7	3.07395	LBS
YUMA	LEBANON PROSCAPE HOMO	H	62719	262	0	Triclopyr	55335-06-3	5	0.03	OZS
YUMA	RONSTAR G HERBICIDE	H	432	886	0	Trinexapac-ethyl	19666-30-9	18.7	54.043	LBS

Legend:

- H = Herbicide
- I = Insecticide
- F = Fungicide
- M = Miticides
- O = Ovicides
- N = Nematicide
- R = Regulator

