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2010 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 2009 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)

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 ingredient(s) to ADEQ for review and approval. 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 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, 2009, a total of 326 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 2009. This is partly attributed to the procedures established by ADEQ and the Arizona Department of Agriculture 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 Environmental Protection Agency's (EPA) criteria for identifying pesticide active ingredients that have the potential to leach to groundwater based on mobility and persistence factors. 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 2009, fourteen (14) new pesticide registration applications were received, from which 13 were approved, 1 was denied, and three of those approved were placed on the GWPL. The list of new active ingredients approved by ADEQ in 2009 is shown in Table 2.

Table 2: New Active Ingredients Approved in Arizona

	Chemical Name	General Use	Product Brand Names	Registrant
1	Aminopyralid	Herbicide for control of broadleaf weeds on rangeland and for wheat	Opensight Specialty Herbicide	Dow AgroSciences
2	Flazasulfuron*	Herbicide for control of weeds in tank farms, sod farms, seed farms	Katana Turf Herbicide	ISK Biosciences
3	Diquat Dibromide	Herbicide and growth regulator for general use	Diquat 2 L Herbicide Quik Pro Herbicide	Nufarm Americas
4	Fosetyl-Al	Fungicide for control of diseases in fruits, ornamentals, vegetables, and tobacco	Aliette Wdg Fungicide Legion 80 Fungicide Quali-Pro Fosetyl-Al 80 Wdg Fungicide	Tessenderlo-Korley
5	Imazethapyr	Herbicide for general use and for treatment of crops particularly soya beans	Tackle Herbicide	Albaugh
6	Maleic Hydrazide	Herbicide and plant growth inhibitor for control of weeds	Espoma Earth-Tone 4n1 Weed Control	Chemtura
7	Mineral Oil	Insecticide for treating, trees, shrubs and other plants	Biocover LS Bonide Mosquito Larvicide	IAP Corporation
8	Myclobutanil	Fungicide for use on controlling diseases in fruit tree and turf grass	Disarm M Fungicide Dynasty Ext Fungicide Rally 40WSP	Albaugh
9	Neem Oil (Extract of <i>Azadirachta indic</i>)	Insecticide repellant and inhibitor of insect growth and reproduction	Safe Endall Insect Killer Plasma Biological Insecticide	OMC
10	Reynoutria Sacchalinensis	Fungicide for preventive application in the control of powdery mildew.		Marione
11	Saflufenacil*	Herbicide for broadleaf weed control in several crops	Integrity X Herbicide Sharpen X Herbicide Verdicto Herbicide	BASF
12	Tebuconazole*	Fungicide to control diseases in peaches, cherries, and nectarines	Adament 50 WG Fungicide Dyna-Shield Foothold	Bayer
13	Thifensulfuron Methyl	Herbicide for control of weeds in wheat, barley, oats corn and other crops	Harmony SG Herbicide Resolve Q Herbicide	DuPont

*Active ingredient placed on the 2010 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 2010 GWPL containing 76 active ingredients was published in the *Arizona Administrative Register* in August, 2010 and will take effect from December 1, 2010 (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: 2010 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>Table 3: 2010 Groundwater Protection List</i>		
	<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	104040-78-0	Flazasulfuron*
35	158067-0	Flonicamid
36	335104-84-2	Flubendiamide
37	142459-58-3	Flufenacet (Thiafluamide)

<i>Table 3: 2010 Groundwater Protection List</i>		
	<i>CAS Number</i>	<i>Chemical Name</i>
38	193740-76-0	Fluoxastrobin
39	66332-96-5	Flutolanil
40	77182-82-2	Glufosinate-Ammonium
41	112226-61-6	Halofenozide
42	100784-20-1	Halosulfuron-Methyl
43	114311-32-9	Imazamox
44	104098-48-8	Imazapic
45	81335-77-5	Imazethapyr
46	101917-66-2	Imazethapyr, Ammonium Salt
47	138261-41-3	Imidacloprid
48	330-55-2	Linuron
49	128-58-3	MAA (Methanearsonic Acid)
50	374726-62-2	Mandipropamid
51	12427-38-2	Maneb
52	16484-77-8	Mecoprop-P (MCP-P)
53	70630-17-0	Mefenoxam
54	208465-21-8	Mesosulfuron-Methyl
55	16752-77-5	Methomyl
56	161050-58-4	Methoxyfenozide
57	21087-64-9	Metribuzin
58	2163-80-6	Monosodium Methanearsonate (MSMA)
59	111991-09-04	Nicosulfuron
60	23135-22-0	Oxamyl
61	1610-78-0	Prometon
62	7287-19-6	Prometryn
63	18311274-15-7	Propoxycarbazone-sodium
64	94125-34-5	Prosulfuron

<i>Table 3: 2010 Groundwater Protection List</i>		
	<i>CAS Number</i>	<i>Chemical Name</i>
65	123312-89-0	Pymetrozine
66	123343-16-8	Pyriithiobac Sodium
67	84087-01-4	Quinclorac
68.	372137-35-4	Saflufenacil*
69	81591-81-3	Sulfosate
70.	107534-96-3	Tebuconazole*
71	112410-23-8	Tebufenozide
72	153719-23-4	Thiamethoxam
73	117718-60-2	Thiazopyr
74	55335-06-3	Triclopyr
75	199119-58-9	Trifloxysulfuron-Sodium
76	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 2010 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

Table 4: Agricultural Pesticides on the 2010 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>
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
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

Table 4: Agricultural Pesticides on the 2010 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>
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
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

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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>
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
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 F G F XT	7501	186		131860-33-8	Azoxystrobin
QUADRIIS FLOWABLE FUNGICIDE	100	1098		131860-33-8	Azoxystrobin
QUADRIIS OPTI FUNGICIDE	100	1171		131860-33-8	Azoxystrobin
SOYGARD L WITH PROT F G F	7501	201		131860-33-8	Azoxystrobin
PROT F G F FL	7501	188		131860-33-8	Azoxystrobin
QUADRIIS 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 CROPSCIENCE SOYGARD L WITH PROT F G F	264	991		131860-33-8	Azoxystrobin
BAYER CROPSCIENCE PROT F G F -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	10163	32		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>
POISON BAIT					
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 INSECTICIDE	264	333		63-25-2	Carbaryl
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

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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>
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
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
GORDON'S TRIMEC 992 BROADLEAF HERBICIDE	2217	656		2300-66-5	Dicamba, DMA SALT
RIVERDALE TRIPLET LOW ODOR	228	409		2300-66-5	Dicamba, DMA SALT

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PREMIUM SELECTIVE HERBICIDE					
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
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
AGRISOLUTIONS 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
AGRISOLUTIONS 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
AGRISOLUTIONS 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
THIONEX (ENDOSULFAN) 50WSB	279	3129	66222	115-29-7	Endosulfan

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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
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
KATANA TURF HERBICIDE	71512	2217		104040-78-0	Flazasulfuron
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

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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 SOLUBLE PACKAGING	432	1361	59807	138261-41-3	Imidacloprid
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	432	1349	9198	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>
INSECTICIDE					
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
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	264	761		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>
INSECTICIDE IN WATER SOLUBLE PACKETS					
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 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
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

Table 4: Agricultural Pesticides on the 2010 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 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
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

Table 4: Agricultural Pesticides on the 2010 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>
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
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
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
ORIUS 20AQ FOLIAR FUNGICIDE	66622	128		107534-96-3	Tebuconazole
PROCEED MD FUNGICIDE	264	1072		107534-96-3	Tebuconazole
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

Table 4: Agricultural Pesticides on the 2010 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>
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. In the past, ADEQ's groundwater monitoring effort was concentrated in Yuma and Maricopa counties. Both counties are considered vulnerable to pesticide pollution because of pesticide usage, permeable soils and shallow groundwater. In April 2010, the groundwater monitoring network was extended to the Safford-Thatcher areas of Graham County where seven new monitoring wells were installed with the help of funds provided by the U.S. Environmental Protection Agency to the Arizona Department of Agriculture.

In 2009, 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. No regulatory action is being taken on these pesticide products 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 (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, 2009 and Dec. 31, 2009 (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, 2009 and Dec. 31, 2009 (Table 7).

Table 6: Reported Use of Pesticides in Arizona January - December 2009

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
UNISON	H	5905	542	0	2,4-D Acid	25.00	GAL	98.6	19.6	4.90	GAL
NUFARM WEEDAR 64 BROADLEAF	H	71368	1	0	2,4-D, dimethylamine salt	27.48	GAL	147	46.8	12.86	GAL
ACTIGARD 50 WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	44.81	LBS	653.27	50	22.40	LBS
BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	83.96	LBS	1540.34	50	41.98	LBS
AATREX 4L	H	100	497	0	Atrazine	1969.62	GAL	8509.89	42.6	839.06	GAL
ATRAZINE 4L	H	34704	69	0	Atrazine	519.97	GAL	3761.42	42.2	219.43	GAL
DREXEL ATRAZINE 4L	H	19713	11	0	Atrazine	21.90	GAL	83	42.2	9.24	GAL
ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	661.72	GAL	7358.06	22.9	151.53	GAL
OPTISHIELD WB	F	100	1292	0	Azoxystrobin	0.25	GAL	22	19.04	0.05	GAL
QUADRIIS FLOWABLE	F	100	1098	0	Azoxystrobin	624.87	GAL	6675.78	22.9	143.10	GAL
CARBARYL CUTWORM BAIT	I	11656	21	0	Carbaryl	400.00	LBS	20	5	20.00	LBS
DREXEL CARBARYL 4L	I	19713	49	0	Carbaryl	17.25	LBS	69	43.4	7.49	LBS
SEVIN 5 BAIT	I	2935	366	0	Carbaryl	13650.38	LBS	475.4	5	682.52	LBS
AIM EC	H	279	3241	0	Carfentrazone-ethyl	250.96	GAL	22033.7	22.3	55.96	GAL
AIM EC	H	279	3241	0	Carfentrazone-ethyl	222.00	LBS	240	22.3	49.51	LBS
AIM EW	H	279	3242	0	Carfentrazone-Ethyl	1.97	GAL	557.9	21.3	0.42	GAL
DEPONT CALTERYX CONCENTRATE	I	352	771	0	Chlorantraniliprole	5.86	GAL	600	12.5	0.73	GAL
DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	217.48	GAL	5969.84	18.4	40.02	GAL
DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	1.62	LBS	42.68	18.4	0.30	LBS
VOLIAM XPRESS	I	100	1320	0	Chlorantraniliprole	23.85	GAL	366.5	9.26	2.21	GAL
RECLAIM	H	62719	83	0	Clopyralid	4.73	GAL	55	40.9	1.93	GAL
STINGER	H	62719	73	0	Clopyralid	10.18	GAL	166.3	40.9	4.16	GAL
STANCE	R	264	841	0	Cyclanilide	22.56	GAL	1009.5	2.1	0.47	GAL
CLARITY	H	7969	137	0	Dicamba	103.54	GAL	1954.85	56.8	58.81	GAL
BANVEL	H	7969	131	0	Dicamba, DMA salt	96.00	OZS	12	48.2	46.27	OZS
ACROBAT 50WP	F	241	410	0	Dimethomorph	16.00	LBS	46	50	8.00	LBS
FORUM	F	241	427	0	Dimethomorph	33186.69	GAL	21078.4	43.5	14436.21	GAL

Table 6: Reported Use of Pesticides in Arizona January - December 2009

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
FORUM	F	241	427	0	Dimethomorph	4.19	LBS	89.2	43.5	1.82	LBS
VALENT VENOM	I	59639	135	0	Dinotefuran	2045.56	LBS	8068.14	70	1431.89	LBS
VENOM 20 SG	I	33657	17	59639	Dinotefuran	17.00	LBS	69	20	3.40	LBS
DIREX 4L	H	1812	257	0	Diuron	134.48	GAL	556.5	40	53.79	GAL
Dupont Direx 4L	H	352	678	0	Diuron	756.90	GAL	3335.39	40	302.76	GAL
PROCLAIM	I	100	904	0	Emamectin Benzoate	128.75	LBS	518.06	5	6.44	LBS
DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	3499.92	GAL	9903.44	34	1189.97	GAL
GOWAN ENDOSULFAN 3EC	I	10163	110	0	Endosulfan	35.00	GAL	112	34	11.90	GAL
THIODAN WSB	I	279	3129	0	Endosulfan	1.91	GAL	59.98	50	0.95	GAL
THIONEX 3EC	I	66222	63	0	Endosulfan	9173.55	GAL	25761.4	37.7	3458.43	GAL
BELEAF 50SG	I	71512	10	279	Flonicamid	42.33	GAL	177.13	50	21.17	GAL
BELEAF 50SG	I	71512	10	279	Flonicamid	1856.16	LBS	5514.45	50	928.08	LBS
CARBINE 50 WG	I	71512	9	279	Flonicamid	713.27	GAL	434	50	356.64	GAL
CARBINE 50 WG	I	71512	9	279	Flonicamid	25032.26	LBS	102891	50	12516.13	LBS
ISK BIOSCIENCE BELEAF 50SG	I	71512	10	0	Flonicamid	843.99	LBS	2258.93	50	421.99	LBS
SYNAPSE WG	I	264	1026	0	Flubendiamide	123.71	LBS	791.16	24	29.69	LBS
VETICA	I	71711	32	0	Flubendiamide	86.83	GAL	717.37	3.8	3.30	GAL
SANDEA	H	10163	254	0	Halosulfuron-Methyl	14.98	LBS	195.9	75	11.23	LBS
BASF BEYOND/CLEARFIELD SYSTEM	H	241	379	0	Imazamox	2.29	GAL	91.2	12.1	0.28	GAL
BASF RAPTOR	H	241	379	0	Imazamox	869.75	GAL	25826.3	12.1	105.24	GAL
BASF RAPTOR	H	241	379	0	Imazamox	298.37	LBS	352.7	12.1	36.10	LBS
AGRSOLUTIONS CORNERSTONE PLUS	H	524	454	1381	Imazethapyr	95.50	GAL	243.1	41	39.16	GAL
ADMIRE 2 FLOWABLE	I	264	758	0	Imidacloprid	1223.39	GAL	7362.91	21.4	261.81	GAL
ADMIRE PRO SYSTEMIC PROTECTANT	I	264	827	0	Imidacloprid	44.35	GAL	656.3	42.8	18.98	GAL
AGRSOLUTIONS ADVISE 2FL	I	1381	205	0	Imidacloprid	370.55	GAL	2423.96	21.4	79.30	GAL
ALIAS 2F FLOWABLE	I	264	758	66222	Imidacloprid	328.73	GAL	1930.76	21.4	70.35	GAL
COURAZE 1.6F	I	264	763	67760	Imidacloprid	0.48	GAL	16.5	17.4	0.08	GAL
COURAZE 2F	I	264	758	67760	Imidacloprid	109.82	GAL	959	21.4	23.50	GAL

Table 6: Reported Use of Pesticides in Arizona January - December 2009

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
COURAZE MAX 4F	I	264	783	67760	Imidacloprid	0.04	GAL	1.5	40.7	0.02	GAL
LEVERAGE 2.7 EMULSION	I	264	770	0	Imidacloprid	29.02	GAL	984.5	17	4.93	GAL
NUPRID 2SC SOIL/ INSECTICIDE	I	228	572	0	Imidacloprid	98.10	GAL	664.6	21.4	20.99	GAL
PROVADO 1.6 FLOWABLE	I	264	763	0	Imidacloprid	67.88	GAL	1886.82	17.4	11.81	GAL
DUPONT LOROX DF	H	352	686	0	Linuron	177.00	LBS	133.4	50	88.50	LBS
REVUS	F	100	1254	0	Mandipropamid	291.66	GAL	4499.03	23.3	67.96	GAL
DUPONT MANEX	F	352	655	0	Maneb	8723.88	GAL	22905.5	37	3227.84	GAL
DUPONT MANEX	F	352	655	0	Maneb	141.56	LBS	217.7	37	52.38	LBS
MANEB 75DF	F	4581	371	82695	Maneb	879.55	LBS	531	75	659.66	LBS
MANEB 75DF DRY FLOWABLE	F	4581	371	0	Maneb	0.24	GAL	7.83	75	0.18	GAL
MANEB 75DF DRY FLOWABLE	F	4581	371	0	Maneb	1106.45	LBS	628.74	75	829.84	LBS
MANEB 75DF DRY FLOWABLE	F	70506	186	0	Maneb	464.84	LBS	265.5	75	348.63	LBS
MANEX F FLOWABLE WITH ZINC	F	1812	251	0	Maneb	270.00	GAL	1061.2	37	99.90	GAL
RIDOMIL GOLD BRAVO	F	100	800	0	Mefenoxam	276.93	LBS	158.01	4.5	12.46	LBS
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	Mefenoxam	3.99	GAL	435.3	54	2.15	GAL
RIDOMIL GOLD BRAVO SC	F	100	1221	0	Mefenoxam	134.65	GAL	463.46	3.3	4.44	GAL
RIDOMIL GOLD COPPER	F	100	804	0	Mefenoxam	150.00	LBS	120	5	7.50	LBS
RIDOMIL GOLD EC	F	100	801	0	Mefenoxam	1.85	GAL	188.7	49	0.91	GAL
RIDOMIL GOLD SL	F	100	1202	0	Mefenoxam	109.64	GAL	3068.95	45.3	49.67	GAL
OSPREY	H	264	802	0	Mesosulfuron-Methyl	232.04	LBS	928.6	45	104.42	LBS
DUPONT LANNATE LV	I	352	384	0	Methomyl	35.00	GAL	210	29	10.15	GAL
DUPONT LANNATE SP	I	352	342	0	Methomyl	15945.86	LBS	21889.3	90	14351.27	LBS
INTREPID 2F	I	62719	442	0	Methoxyfenozide	1275.40	GAL	22843.3	22.6	288.24	GAL
INTREPID 2F	I	62719	442	0	Methoxyfenozide	12.00	LBS	29.8	22.6	2.71	LBS
SENCOR 75% DRY FLOWABLE	H	3125	325	0	Metribuzin	60.00	LBS	80	41	24.60	LBS
DUPONT STEADFAST	H	352	608	0	Nicosulfuron	102.03	GAL	480	50	51.02	GAL
DUPONT VYDATE C-LV I/NEMATICIDE	I	352	532	0	Oxamyl	18.00	GAL	87	42	7.56	GAL
VYDATE L I/NEMATICIDE	I	352	372	0	Oxamyl	55.60	GAL	211.8	24	13.34	GAL

Table 6: Reported Use of Pesticides in Arizona January - December 2009

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
COTTON PRO	H	66222	15	0	Prometryn	592.41	GAL	2920.6	44	260.66	GAL
COTTON-PRO	H	1812	274	0	Prometryn	81.50	GAL	434.9	45.1	36.76	GAL
GOWAN PROMETRYNE 4L	H	10163	94	0	Prometryn	20.54	GAL	100.9	44.4	9.12	GAL
VEGETABLE PRO	H	66222	15	0	Prometryn	16.13	GAL	53.06	44	7.10	GAL
FULFILL	I	100	912	0	Pymetrozine	10.96	GAL	86.68	50	5.48	GAL
FULFILL	I	100	912	0	Pymetrozine	117.00	LBS	804.39	50	58.50	LBS
FUSILADE DX	H	100	1070	0	Pymetrozine	12.00	GAL	66.5	24.5	2.94	GAL
CENTRIC 40WG	I	100	1147	0	Thiamethoxam	280.00	OZS	112	40	112.00	OZS
REMEDY ULTRA	H	62719	552	0	Triclopyr	440.00	OZS	55	60.45	265.98	OZS
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 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
APACHE	RIDOMIL GOLD EC	F	100	801	0	Mefenoxam	0.36	GAL	36.5	49	0.17	GAL
COCHISE	AATREX 4L	H	100	497	0	Atrazine	315.00	GAL	1270	42.6	134.19	GAL
COCHISE	ATRAZINE 4L	H	34704	69	0	Atrazine	241.00	GAL	987	42.2	101.70	GAL
COCHISE	ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	9.80	GAL	145	22.9	2.24	GAL
COCHISE	QUADRIIS FLOWABLE	F	100	1098	0	Azoxystrobin	136.07	GAL	995	22.9	31.16	GAL
COCHISE	AIM EC	H	279	3241	0	Carfentrazone-ethyl	5.38	GAL	165	22.3	1.20	GAL
COCHISE	AIM EC	H	279	3241	0	Carfentrazone-Ethyl	102.05	GAL	1174.5	22.3	22.76	GAL
COCHISE	CLARITY	H	7969	137	0	Dicamba	2.54	GAL	300	56.8	1.44	GAL
COCHISE	BASF RAPTOR	H	241	379	0	Imazamox	11.35	GAL	422	12.1	1.37	GAL
COCHISE	BASF RAPTOR	H	241	379	0	Imazamox	141.49	GAL	3768	12.1	17.12	GAL
COCHISE	PROVADO 1.6 FLOWABLE	I	264	763	0	Imidacloprid	1.75	GAL	32	17.4	0.30	GAL
COCHISE	MANEB 75DF DRY FLOWABLE	F	70506	186	0	Maneb	60.00	LBS	30	75	45.00	LBS
COCHISE	DUPONT LANNATE SP	I	352	342	0	Methomyl	19.00	LBS	38.1	90	17.10	LBS
COCHISE	DUPONT LANNATE SP	I	352	342	0	Methomyl	54.00	LBS	144	90	48.60	LBS
COCHISE	FULFILL	I	100	912	0	Pymetrozine	1.00	GAL	32	50	0.50	GAL
COCHISE	DREXEL CARBARYL 4L	I	19713	49	0	Carbaryl	17.25	LBS	69	43.4	7.49	LBS
COCHISE	AIM EC	H	279	3241	0	Carfentrazone-Ethyl	120.00	LBS	120	22.3	26.76	LBS
COCHISE	DEPONT CALTERYX CONCENTRATE	I	352	771	0	Chlorantraniliprole	5.86	GAL	600	12.5	0.73	GAL
COCHISE	RECLAIM	H	62719	83	0	Clopyralid	4.73	GAL	55	40.9	1.93	GAL
COCHISE	LEVERAGE 2.7 SUSPENSION EMULSION	I	264	770	0	Imidacloprid	2.00	GAL	22	17	0.34	GAL
COCHISE	MANEB 75DF	F	4581	371	82695	Maneb	420.00	LBS	220	75	315.00	LBS
COCHISE	MANEB 75DF DRY FLOWABLE	F	70506	186	0	Maneb	240.00	LBS	150	75	180.00	LBS
COCHISE	RIDOMIL GOLD COPPER	F	100	804	0	Mefenoxam	150.00	LBS	120	5	7.50	LBS
COCHISE	INTREPID 2F	I	62719	442	0	Methoxyfenozone	8.00	GAL	120	22.6	1.81	GAL
COCHISE	DUPONT STEADFAST	H	352	608	0	Nicosulfuron	100.00	GAL	120	50	50.00	GAL
COCHISE	REMEDY ULTRA	H	62719	552	0	Triclopyr	440.00	OZS	55	60.5	265.98	OZS
GRAHAM	AATREX 4L	H	100	497	0	Atrazine	37.50	GAL	180	42.6	15.98	GAL
GRAHAM	AIM EC	H	279	3241	0	Carfentrazone-ethyl	1.91	GAL	346	22.3	0.43	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
GRAHAM	AIM EW	H	279	3242	0	Carfentrazone-Ethyl	1.50	GAL	390	21.3	0.32	GAL
GRAHAM	CLARITY	H	7969	137	0	Dicamba	20.00	GAL	220	56.8	11.36	GAL
GRAHAM	BASF RAPTOR	H	241	379	0	Imazamox	4.00	GAL	100	12.1	0.48	GAL
GRAHAM	DUPONT STEADFAST	H	352	608	0	Nicosulfuron	2.03	GAL	360	50	1.02	GAL
GRAHAM	AIM EC	H	279	3241	0	Carfentrazone-ethyl	102.00	LBS	120	22.3	22.75	LBS
GRAHAM	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	8.03	GAL	171	18.4	1.48	GAL
GRAHAM	BASF RAPTOR	H	241	379	0	Imazamox	16.00	GAL	480	12.1	1.94	GAL
LAPAZ	AATREX 4L	H	100	497	0	Atrazine	12.50	GAL	63.8	42.6	5.33	GAL
LAPAZ	ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	139.51	GAL	1488.1	22.9	31.95	GAL
LAPAZ	AIM EC	H	279	3241	0	Carfentrazone-ethyl	6.22	GAL	581.1	22.3	1.39	GAL
LAPAZ	VALENT VENOM	I	59639	135	0	Dinotefuran	707.29	LBS	1886.1	70	495.10	LBS
LAPAZ	THIONEX 3EC	I	66222	63	0	Endosulfan	232.65	GAL	938.1	37.7	87.71	GAL
LAPAZ	CARBINE 50 WG	I	71512	9	279	Flonicamid	74.99	LBS	342.5	50	37.49	LBS
LAPAZ	VETICA I	I	71711	32	0	Flubendiamide	7.50	GAL	69.8	3.8	0.29	GAL
LAPAZ	BASF RAPTOR	H	241	379	0	Imazamox	21.00	GAL	562.65	12.1	2.54	GAL
LAPAZ	BASF RAPTOR	H	241	379	0	Imazamox	110.31	GAL	3096.8	12.1	13.35	GAL
LAPAZ	DUPONT MANEX	F	352	655	0	Maneb	416.43	GAL	1273.6	37	154.08	GAL
LAPAZ	DUPONT LANNATE SP	I	352	342	0	Methomyl	192.00	LBS	535.9	90	172.80	LBS
LAPAZ	INTREPID 2F	I	62719	442	0	Methoxyfenozide	71.00	GAL	1305.3	22.6	16.05	GAL
MARICOPA	NUFARM WEEDAR 64 BROADLEAF	H	71368	1	0	2,4-D, dimethylamine salt	12.48	GAL	80	46.8	5.84	GAL
MARICOPA	AATREX 4L	H	100	497	0	Atrazine	49.00	GAL	180	42.6	20.87	GAL
MARICOPA	AATREX 4L	H	100	497	0	Atrazine	423.58	GAL	2861.4	42.6	180.44	GAL
MARICOPA	ATRAZINE 4L	H	34704	69	0	Atrazine	39.41	GAL	874.5	42.2	16.63	GAL
MARICOPA	DREXEL ATRAZINE 4L	H	19713	11	0	Atrazine	21.90	GAL	83	42.2	9.24	GAL
MARICOPA	ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	243.02	GAL	2458.6	22.9	55.65	GAL
MARICOPA	QUADRIIS FLOWABLE	F	100	1098	0	Azoxystrobin	180.26	GAL	1922.8	22.9	41.28	GAL
MARICOPA	QUADRIIS FLOWABLE	F	100	1098	0	Azoxystrobin	113.51	GAL	1479.1	22.9	25.99	GAL
MARICOPA	AIM EC	H	279	3241	0	Carfentrazone-Ethyl	9.47	GAL	1683.2	22.3	2.11	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
MARICOPA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	6.25	GAL	182.4	18.4	1.15	GAL
MARICOPA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	13.50	GAL	262.5	18.4	2.48	GAL
MARICOPA	CLARITY	H	7969	137	0	Dicamba	10.27	GAL	100	56.8	5.83	GAL
MARICOPA	VALENT VENOM	I	59639	135	0	Dinotefuran	2.00	LBS	10	70	1.40	LBS
MARICOPA	VALENT VENOM	I	59639	135	0	Dinotefuran	108.29	LBS	1497.1	70	75.80	LBS
MARICOPA	DIREX 4L H	H	1812	257	0	Diuron	134.48	GAL	556.5	40	53.79	GAL
MARICOPA	DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	190.00	GAL	382.4	34	64.60	GAL
MARICOPA	THIONEX 3EC	I	66222	63	0	Endosulfan	79.00	GAL	409.5	37.7	29.78	GAL
MARICOPA	THIONEX 3EC	I	66222	63	0	Endosulfan	1723.93	GAL	6186.1	37.7	649.92	GAL
MARICOPA	CARBINE 50 WG	I	71512	9	279	Flonicamid	1765.51	LBS	10370	50	882.76	LBS
MARICOPA	BASF BEYOND/CLEARFIELD SYSTEM	H	241	379	0	Imazamox	1.60	GAL	67.2	12.1	0.19	GAL
MARICOPA	BASF RAPTOR	H	241	379	0	Imazamox	52.05	GAL	2102.3	12.1	6.30	GAL
MARICOPA	BASF RAPTOR	H	241	379	0	Imazamox	111.64	GAL	3280.3	12.1	13.51	GAL
MARICOPA	LEVERAGE 2.7 SUSPENSION EMULSION	I	264	770	0	Imidacloprid	27.02	GAL	962.5	17	4.59	GAL
MARICOPA	PROVADO 1.6 FLOWABLE	I	264	763	0	Imidacloprid	35.45	GAL	1269	17.4	6.17	GAL
MARICOPA	REVUS	F	100	1254	0	Mandipropamid	10.00	GAL	157.2	23.3	2.33	GAL
MARICOPA	DUPONT MANEX	F	352	655	0	Maneb	142.50	GAL	495.9	37	52.73	GAL
MARICOPA	MANEX F FLOWABLE WITH ZINC	F	1812	251	0	Maneb	85.00	GAL	329.2	37	31.45	GAL
MARICOPA	MANEX F FLOWABLE WITH ZINC	F	1812	251	0	Maneb	240.00	GAL	944	37	88.80	GAL
MARICOPA	RIDOMIL GOLD SL	F	100	1202	0	Mefenoxam	5.00	GAL	172	45.3	2.27	GAL
MARICOPA	RIDOMIL GOLD SL	F	100	1202	0	Mefenoxam	8.68	GAL	280.9	45.3	3.93	GAL
MARICOPA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	6.00	GAL	99.5	22.6	1.36	GAL
MARICOPA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	291.00	GAL	4899.5	22.6	65.77	GAL
MARICOPA	SENCOR 75% DRY FLOWABLE	H	3125	325	0	Metribuzin	60.00	LBS	80	41	24.60	LBS
MARICOPA	COTTON PRO	H	66222	15	0	Prometryn	134.48	GAL	556.5	44	59.17	GAL
MARICOPA	COTTON PRO	H	66222	15	0	Prometryn	159.18	GAL	1125.1	44	70.04	GAL
MARICOPA	COTTON-PRO	H	1812	274	0	Prometryn	81.50	GAL	434.9	45.1	36.76	GAL
MARICOPA	UNISON	H	5905	542	0	2,4-D Acid	25.00	GAL	98.6	19.6	4.90	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
MARICOPA	VOLIAM XPRESS	I	100	1320	0	Chlorantraniliprole	11.00	GAL	168.6	9.26	1.02	GAL
MARICOPA	ACROBAT 50WP	F	241	410	0	Dimethomorph	16.00	LBS	46	50	8.00	LBS
MARICOPA	GOWAN ENDOSULFAN 3EC	I	10163	110	0	Endosulfan	35.00	GAL	112	34	11.90	GAL
MARICOPA	BELEAF 50SG	I	71512	10	279	Flonicamid	7.50	LBS	45	50	3.75	LBS
MARICOPA	CARBINE 50 WG	I	71512	9	279	Flonicamid	604.07	GAL	216	50	302.04	GAL
MARICOPA	ISK BIOSCIENCE BELEAF 50SG	I	71512	10	0	Flonicamid	63.00	LBS	360	50	31.50	LBS
MARICOPA	DUPONT LANNATE SP	I	352	342	0	Methomyl	68.00	LBS	271.4	90	61.20	LBS
MOHAVE	BASF RAPTOR	H	241	379	0	Imazamox	1.48	GAL	144.4	12.1	0.18	GAL
NAVAJO	BASF RAPTOR	H	241	379	0	Imazamox	13.00	GAL	318	12.1	1.57	GAL
PIMA	CLARITY	H	7969	137	0	Dicamba	0.50	GAL	7.6	56.8	0.28	GAL
PIMA	DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	125.00	GAL	250	34	42.50	GAL
PIMA	THIONEX 3EC	I	66222	63	0	Endosulfan	117.50	GAL	464	37.7	44.30	GAL
PIMA	CARBINE 50 WG	I	71512	9	279	Flonicamid	876.00	LBS	5060.9	50	438.00	LBS
PIMA	BASF RAPTOR	H	241	379	0	Imazamox	6.54	GAL	273	12.1	0.79	GAL
PIMA	ADMIRE 2 FLOWABLE	I	264	758	0	Imidacloprid	219.70	GAL	1233.7	21.4	47.02	GAL
PIMA	COURAZE 2F	I	264	758	67760	Imidacloprid	102.10	GAL	712.6	21.4	21.85	GAL
PIMA	COTTON PRO	H	66222	15	0	Prometryn	231.25	GAL	923	44	101.75	GAL
PIMA	AATREX 4L	H	100	497	0	Atrazine	35.00	GAL	115	42.6	14.91	GAL
PIMA	ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	31.00	GAL	439.7	22.9	7.10	GAL
PINAL	AATREX 4L	H	100	497	0	Atrazine	1082.23	GAL	3794.6	42.6	461.03	GAL
PINAL	ATRAZINE 4L	H	34704	69	0	Atrazine	239.55	GAL	1899.9	42.2	101.09	GAL
PINAL	ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	106.11	GAL	1103.9	22.9	24.30	GAL
PINAL	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	6800.00	LBS	340	5	340.00	LBS
PINAL	AIM EC	H	279	3241	0	Carfentrazone-ethyl	51.67	GAL	7010.8	22.3	11.52	GAL
PINAL	AIM EC	H	279	3241	0	Carfentrazone-ethyl	2.90	GAL	746.3	22.3	0.65	GAL
PINAL	STANCE	R	264	841	0	Cyclanilide	20.00	GAL	870	2.1	0.42	GAL
PINAL	CLARITY	H	7969	137	0	Dicamba	5.33	GAL	149	56.8	3.02	GAL
PINAL	CLARITY	H	7969	137	0	Dicamba	55.60	GAL	992.65	56.8	31.58	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
PINAL	Dupont Direx 4L	H	352	678	0	Diuron	756.90	GAL	3335.4	40	302.76	GAL
PINAL	DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	32.50	GAL	85	34	11.05	GAL
PINAL	DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	2991.15	GAL	8552.4	34	1016.99	GAL
PINAL	THIONEX 3EC	I	66222	63	0	Endosulfan	154.80	GAL	627	37.7	58.36	GAL
PINAL	THIONEX 3EC	I	66222	63	0	Endosulfan	1119.52	GAL	3726.5	37.7	422.06	GAL
PINAL	CARBINE 50 WG	I	71512	9	279	Flonicamid	798.20	LBS	4598.5	50	399.10	LBS
PINAL	CARBINE 50 WG	I	71512	9	279	Flonicamid	70.00	GAL	204	50	35.00	GAL
PINAL	BASF RAPTOR	H	241	379	0	Imazamox	61.56	GAL	2245.4	12.1	7.45	GAL
PINAL	BASF RAPTOR	H	241	379	0	Imazamox	195.69	GAL	5002	12.1	23.68	GAL
PINAL	ADMIRE 2 FLOWABLE	I	264	758	0	Imidacloprid	127.90	GAL	797.5	21.4	27.37	GAL
PINAL	PROVADO 1.6 FLOWABLE	I	264	763	0	Imidacloprid	7.34	GAL	248.4	17.4	1.28	GAL
PINAL	OSPREY H	H	264	802	0	Mesosulfuron-Methyl	225.63	LBS	907	45	101.53	LBS
PINAL	DUPONT LANNATE LV	I	352	384	0	Methomyl	35.00	GAL	210	90	31.50	GAL
PINAL	INTREPID 2F	I	62719	442	0	Methoxyfenozide	17.00	GAL	295.5	22.6	3.84	GAL
PINAL	INTREPID 2F	I	62719	442	0	Methoxyfenozide	20.99	GAL	332.9	22.6	4.74	GAL
PINAL	DUPONT VYDATE C-LV I/NEMATICIDE	I	352	532	0	Oxamyl	22.50	GAL	87	42	9.45	GAL
PINAL	COTTON PRO	H	66222	15	0	Prometryn	67.50	GAL	416	44	29.70	GAL
PINAL	CENTRIC 40WG	I	100	1147	0	Thiamethoxam	140.00	OZS	56	40	56.00	OZS
PINAL	NUFARM WEEDAR 64 BROADLEAF	H	71368	1	0	2,4-D, dimethylamine salt	15.00	GAL	67	46.8	7.02	GAL
PINAL	QUADRI FLOWABLE	F	100	1098	0	Azoxystrobin	1.33	GAL	25.8	22.9	0.30	GAL
PINAL	QUADRI FLOWABLE	F	100	1098	0	Azoxystrobin	0.75	GAL	12.5	22.9	0.17	GAL
PINAL	AIM EW	H	279	3242	0	Carfentrazone-ethyl	0.13	GAL	21	21.3	0.03	GAL
PINAL	BANVEL	H	7969	131	0	Dicamba, DMA salt	96.00	OZS	12	48.2	46.27	OZS
PINAL	VENOM 20 SG	I	33657	17	59639	Dinotefuran	17.00	LBS	69	20	3.40	LBS
PINAL	CARBINE 50 WG	I	71512	9	279	Flonicamid	19931.70	LBS	73306	50	9965.85	LBS
PINAL	BASF RAPTOR	H	241	379	0	Imazamox	295.70	LBS	295.7	12.1	35.78	LBS
PINAL	FUSILADE DX	H	100	1070	0	Pymetrozine	12.00	GAL	66.5	24.5	2.94	GAL
PINAL	CENTRIC 40WG	I	100	1147	0	Thiamethoxam	140.00	OZS	56	40	56.00	OZS

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
YAVAPAI	ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	32.85	GAL	292.6	22.9	7.52	GAL
YAVAPAI	THIONEX 3EC	I	66222	63	0	Endosulfan	34.36	GAL	105.7	37.7	12.95	GAL
YAVAPAI	BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	0.57	LBS	12.23	50	0.29	LBS
YAVAPAI	FORUM F	F	241	427	0	Dimethomorph	0.50	GAL	11.6	43.5	0.22	GAL
YAVAPAI	CARBINE 50 WG	I	71512	9	279	Flonicamid	14.81	LBS	84.6	50	7.40	LBS
YAVAPAI	ISK BIOSCIENCE BELEAF 50SG	I	71512	10	0	Flonicamid	3.66	LBS	20.9	50	1.83	LBS
YAVAPAI	BASF RAPTOR	H	241	379	0	Imazamox	1.00	GAL	25	12.1	0.12	GAL
YAVAPAI	ADMIRE 2 FLOWABLE	I	264	758	0	Imidacloprid	6.98	GAL	37.2	21.4	1.49	GAL
YAVAPAI	DUPONT MANEX	F	352	655	0	Maneb	12.50	GAL	33.2	37	4.63	GAL
YAVAPAI	RIDOMIL GOLD SL	F	100	1202	0	Mefenoxam	9.50	GAL	38	45.3	4.30	GAL
YAVAPAI	DUPONT LANNATE SP	I	352	342	0	Methomyl	85.39	LBS	119.5	90	76.85	LBS
YUMA	ACTIGARD 50 WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	44.81	LBS	653.27	50	22.40	LBS
YUMA	BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	Acibenzolar-S-Methyl	83.39	LBS	1528.1	50	41.69	LBS
YUMA	AATREX 4L	H	100	497	0	Atrazine	14.81	GAL	45.14	42.6	6.31	GAL
YUMA	ABOUND FLOWABLE	F	100	1098	0	Azoxystrobin	99.82	GAL	1430.2	22.9	22.86	GAL
YUMA	QUADRIIS FLOWABLE	F	100	1098	0	Azoxystrobin	192.95	GAL	2240.6	22.9	44.19	GAL
YUMA	OPTISHIELD WB	F	100	1292	0	Azoxystrobin	0.25	GAL	22	19	0.05	GAL
YUMA	CARBARYL CUTWORM BAIT	I	11656	21	0	Carbaryl	400.00	LBS	20	5	20.00	LBS
YUMA	SEVIN 5 BAIT	I	2935	366	0	Carbaryl	6850.38	LBS	135.4	5	342.52	LBS
YUMA	AIM EC	H	279	3241	0	Carfentrazone-ethyl	71.35	GAL	10327	22.3	15.91	GAL
YUMA	AIM EW	H	279	3242	0	Carfentrazone-Ethyl	0.34	GAL	146.9	21.3	0.07	GAL
YUMA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	189.71	GAL	5253.9	18.4	34.91	GAL
YUMA	DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	1.62	LBS	42.68	18.4	0.30	LBS
YUMA	VOLIAM XPRESS	I	100	1320	0	Chlorantraniliprole	10.35	GAL	161.2	9.26	0.96	GAL
YUMA	VOLIAM XPRESS	I	100	1320	0	Chlorantraniliprole	2.50	LBS	36.7	9.26	0.23	LBS
YUMA	STINGER	H	62719	73	0	Clopyralid	10.18	GAL	166.3	40.9	4.16	GAL
YUMA	STANCE	R	264	841	0	Cyclanilide	2.56	GAL	139.5	2.1	0.05	GAL
YUMA	CLARITY	H	7969	137	0	Dicamba	9.31	GAL	85.6	56.8	5.29	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
YUMA	FORUM F	F	241	427	0	Dimethomorph	33186.19	GAL	21067	43.5	14435.99	GAL
YUMA	FORUM F	F	241	427	0	Dimethomorph	4.19	LBS	89.2	43.5	1.82	LBS
YUMA	VALENT VENOM	I	59639	135	0	Dinotefuran	1227.98	LBS	4674.9	20	245.60	LBS
YUMA	PROCLAIM	I	100	904	0	Emamectin Benzoate	128.75	LBS	518.06	5	6.44	LBS
YUMA	DREXEL ENDOSULFAN 3EC	I	19713	399	0	Endosulfan	161.27	GAL	633.65	34	54.83	GAL
YUMA	THIODAN WSB	I	279	3129	0	Endosulfan	1.91	GAL	59.98	50	0.95	GAL
YUMA	THIONEX 3EC	I	66222	63	0	Endosulfan	5676.29	GAL	13230	37.7	2139.96	GAL
YUMA	BELEAF 50SG	I	71512	10	279	Flonicamid	42.33	GAL	177.13	50	21.17	GAL
YUMA	BELEAF 50SG	I	71512	10	279	Flonicamid	1848.66	LBS	5469.5	50	924.33	LBS
YUMA	CARBINE 50 WG	I	71512	9	279	Flonicamid	39.20	GAL	14	50	19.60	GAL
YUMA	CARBINE 50 WG	I	71512	9	279	Flonicamid	1529.06	LBS	9128.5	50	764.53	LBS
YUMA	ISK BIOSCIENCE BELEAF 50SG	I	71512	10	0	Flonicamid	777.33	LBS	1878	50	388.66	LBS
YUMA	SYNAPSE WG	I	264	1026	0	Flubendiamide	123.71	LBS	791.16	24	29.69	LBS
YUMA	VETICA	I	71711	32	0	Flubendiamide	79.33	GAL	647.57	3.8	3.01	GAL
YUMA	SANDEA	H	10163	254	0	Halosulfuron-Methyl	14.98	LBS	195.9	75	11.23	LBS
YUMA	BASF BEYOND/CLEARFIELD PRODUCTION SYSTEM	H	241	379	0	Imazamox	0.69	GAL	24	12.1	0.08	GAL
YUMA	BASF RAPTOR	H	241	379	0	Imazamox	122.64	GAL	3986.5	12.1	14.84	GAL
YUMA	BASF RAPTOR	H	241	379	0	Imazamox	2.67	LBS	57	12.1	0.32	LBS
YUMA	AGRISOLUTIONS CORNERSTONE PLUS	H	524	454	1381	Imazethapyr	95.50	GAL	243.1	41	39.16	GAL
YUMA	ADMIRE 2 FLOWABLE	I	264	758	0	Imidacloprid	868.82	GAL	5294.5	21.4	185.93	GAL
YUMA	ADMIRE PRO SYSTEMIC PROTECTANT	I	264	827	0	Imidacloprid	44.35	GAL	656.3	42.8	18.98	GAL
YUMA	AGRISOLUTIONS ADVISE 2FL	I	1381	205	0	Imidacloprid	370.55	GAL	2424	21.4	79.30	GAL
YUMA	ALIAS 2F FLOWABLE	I	264	758	66222	Imidacloprid	328.73	GAL	1930.8	21.4	70.35	GAL
YUMA	COURAZE 1.6F	I	264	763	67760	Imidacloprid	0.48	GAL	16.5	17.4	0.08	GAL
YUMA	COURAZE 2F	I	264	758	67760	Imidacloprid	7.72	GAL	246.4	21.4	1.65	GAL
YUMA	COURAZE MAX 4F	I	264	783	67760	Imidacloprid	0.04	GAL	1.5	40.7	0.02	GAL
YUMA	NUPRID 2SC SOIL/FOLIAR INSECTICIDE	I	228	572	0	Imidacloprid	98.10	GAL	664.6	21.4	20.99	GAL
YUMA	PROVADO 1.6 FLOWABLE	I	264	763	0	Imidacloprid	23.34	GAL	337.42	17.4	4.06	GAL

Table 7: Reported Use of Pesticides in Arizona by County - January - December 2009

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
YUMA	DUPONT LOROX DF	H	352	686	0	Linuron	177.00	LBS	133.4	50	88.50	LBS
YUMA	REVUS	F	100	1254	0	Mandipropamid	281.66	GAL	4341.8	23.3	65.63	GAL
YUMA	DUPONT MANEX	F	352	655	0	Maneb	8152.45	GAL	21103	37	3016.41	GAL
YUMA	DUPONT MANEX	F	352	655	0	Maneb	141.56	LBS	217.7	37	52.38	LBS
YUMA	MANEB 75DF	F	4581	371	82695	Maneb	459.55	LBS	311	75	344.66	LBS
YUMA	MANEB 75DF DRY FLOWABLE	F	4581	371	0	Maneb	1106.69	LBS	636.57	75	830.02	LBS
YUMA	MANEB 75DF DRY FLOWABLE	F	70506	186	0	Maneb	164.84	LBS	85.5	75	123.63	LBS
YUMA	RIDOMIL GOLD BRAVO	F	100	800	0	Mefenoxam	276.93	LBS	158.01	4.5	12.46	LBS
YUMA	RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	Mefenoxam	3.99	GAL	435.3	54	2.15	GAL
YUMA	RIDOMIL GOLD BRAVO SC	F	100	1221	0	Mefenoxam	134.65	GAL	463.46	3.3	4.44	GAL
YUMA	RIDOMIL GOLD EC	F	100	801	0	Mefenoxam	1.50	GAL	152.2	49	0.73	GAL
YUMA	RIDOMIL GOLD SL	F	100	1202	0	Mefenoxam	86.46	GAL	2578.1	45.3	39.17	GAL
YUMA	OSPREY	H	264	802	0	Mesosulfuron-Methyl	6.41	LBS	21.6	45	2.89	LBS
YUMA	DUPONT LANNATE SP	I	352	342	0	Methomyl	25.00	GAL	333.3	90	22.50	GAL
YUMA	DUPONT LANNATE SP	I	352	342	0	Methomyl	15477.47	LBS	20114	90	13929.72	LBS
YUMA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	861.41	GAL	15791	22.6	194.68	GAL
YUMA	INTREPID 2F	I	62719	442	0	Methoxyfenozide	12.00	LBS	29.8	22.6	2.71	LBS
YUMA	VYDATE L I/NEMATICIDE	I	352	372	0	Oxamyl	55.60	GAL	211.8	24	13.34	GAL
YUMA	GOWAN PROMETRYNE 4L	H	10163	94	0	Prometryn	20.54	GAL	100.9	44.4	9.12	GAL
YUMA	VEGETABLE PRO	H	66222	15	0	Prometryn	16.13	GAL	53.06	44	7.10	GAL
YUMA	FULFILL	I	100	912	0	Pymetrozine	9.96	GAL	54.68	50	4.98	GAL
YUMA	FULFILL	I	100	912	0	Pymetrozine	117.00	LBS	804.39	50	58.50	LBS
<u>Legend:</u>												
H = Herbicide		F = Fungicide			O = Ovicides			R = Regulator				
I = Insecticide		M = Miticides			N = Nematicide							

