



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

2012 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 (ADA), 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 ADA, 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 ground-water wells are evaluated and stored in the Water Quality Division's groundwater database.

This report which covers calendar year 2011 is in fulfillment of a requirement pursuant to A.R.S. § 49-303.C that requires ADEQ to report the following information to the Legislature annually:

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

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

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

Between 1987 when the program was first implemented and December 31, 2011, a total of 343 agricultural-use pesticide active ingredients or active ingredient groups have completed the product chemistry and environmental fate review and approval process. Registrants have the option of registering with ADA for one or two years at a time. There is no groundwater protection data gap for any of the active ingredients associated with the agricultural-use pesticides registered in Arizona in 2011. This is partly attributed to the procedures established by ADEQ and the ADA to prevent such violations and the excellent cooperation received from pesticide manufacturers.

Specific Numeric Values (SNVs)

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

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

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

In 2011, six new pesticide active ingredient evaluation applications were received by ADEQ, and all were approved. One of those approved was placed on the GWPL. The list of new active ingredients approved by ADEQ in 2011 is shown in Table 2.

Table 2: New Active Ingredients Approved in Arizona 2011

	Chemical Name	General Use	Product Brand Names	Registrant
1	Cycloate	Herbicide for control of annual grass weeds and some broadleaf weeds in field and vegetable crops	Ro-Neet 6-E Herbicide Helm Ro-Neet Herbicide	Helm Agro
2	Difenoconazole	Fungicide control agent for foliar application or seed treatment in vegetable crops.	Dividend Extreme Fungicide Inspire Super Fungicide Quadris Top Fungicide	Syngenta
3	Imazosulfuron*	Herbicide for control of perennial broad-leaf weeds and sedges in a variety of crops and turf.	Celero Herbicide League Herbicide	Valent
4	Metrafenone	Fungicide for control of powdery mildew in grape vines and vegetables	Vivando Fungicide	BASF
5	Prothioconazole	Fungicide for control of diseases in crops, such as wheat, lentils and peanuts.	Proceed MD Fungicide Prosario SC Fungicide Stratego YLD Fungicide	Bayer
6	Tolfenpyrad	Insecticide for use on vegetables and fruit crops	Hachi Hachi Insecticide Torac Insecticide	Nichimo

*Active ingredient placed on the 2012 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 2012 GWPL containing 82 active ingredients was published in the *Arizona Administrative Register* on June 8, 2012 and will take effect December 1, 2012 (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: 2012 Groundwater Protection List</i>		
	<i>CAS Number</i>	<i>Chemical Name</i>
1	94-75-7	2,4-D Acid
2	1929-73-3	2,4-D Butoxyethyl Ester
3	5742-19-8	2,4-D Diethanolamine Salt
4	20940-37-8	2,4-D Diethylamine Salt
5	1928-43-4	2,4-D 2-Ethylhexyl Ester
6	5742-17-6	2,4-D Isopropylamine Salt
7	94-11-1	2,4-D Isopropyl Ester
8	32341-80-3	2,4-D Trisopropanolamine Salt
9	135158-54-2	Acibenzolar-S-Methyl
10	858956-08-8	Aminocyclopyrachlor

Table 3: 2012 Groundwater Protection List

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

Table 3: 2012 Groundwater Protection List

	CAS Number	Chemical Name
38	335104-84-2	Flubendiamide
39	142459-58-3	Flufenacet (Thiafluamide)
40	193740-76-0	Fluoxastrobin
41	66332-96-5	Flutolanil
42	77182-82-2	Glufosinate-Ammonium
43	112226-61-6	Halofenozide
44	100784-20-1	Halosulfuron-Methyl
45	114311-32-9	Imazamox
46	104098-48-8	Imazapic
47	81335-77-5	Imazethapyr
48	101917-66-2	Imazethapyr, Ammonium Salt
49	122548-33-8	Imazosulfuron*
50	138261-41-3	Imidacloprid
51	950782-96-2	Indaziflam
52	330-55-2	Linuron
53	128-58-3	MAA (Methanearsonic Acid)
54	374726-62-2	Mandipropamid
55	12427-38-2	Maneb
56	16484-77-8	Mecoprop-P (MCP-P)
57	70630-17-0	Mefenoxam
58	208465-21-8	Mesosulfuron-Methyl
59	16752-77-5	Methomyl
60	161050-58-4	Methoxyfenozide
61	21087-64-9	Metribuzin
62	2163-80-6	Monosodium Methanearsonate (MSMA)
63	111991-09-04	Nicosulfuron
64	23135-22-0	Oxamyl

Table 3: 2012 Groundwater Protection List

	<i>CAS Number</i>	<i>Chemical Name</i>
65	1610-78-0	Prometon
66	7287-19-6	Prometryn
67	18311274-15-7	Propoxycarbazone-sodium
68	94125-34-5	Prosulfuron
69.	123312-89-0	Pymetrozine
70	123343-16-8	Pyriithiobac Sodium
71.	84087-01-4	Quinclorac
72	372137-35-4	Saflufenacil
73	81591-81-3	Sulfosate
74	107534-96-3	Tebuconazole
75	112410-23-8	Tebufenozide
76	153719-23-4	Thiamethoxam
77	317815-83-1	Thiencarbazone-methyl
78	210631-68-8	Topramezone
79	117718-60-2	Thiazopyr
80	55335-06-3	Triclopyr
81	199119-58-9	Trifloxysulfuron-Sodium
82	95266-40-3	Trinexapac-Ethyl

* New addition to the GWPL

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

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

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

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

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

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
RIVERDALE SOLUTION WATER SOLUBLE	228	260		2008-39-1	2,4-D Dimethylamine Salt
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		2008-39-1	2,4-D Dimethylamine Salt
RIVERDALE WEEDESTROY AM-40 AMINE SALT	228	145		2008-39-1	2,4-D Dimethylamine Salt
SABER HERBICIDE	34704	803		2008-39-1	2,4-D Dimethylamine Salt
SAVAGE DRY SOLUBLE HERBICIDE	34704	606		2008-39-1	2,4-D Dimethylamine Salt
STRIKE 3 ULTRA 2 SELECTIVE HERBICIDE	228	455	1381	2008-39-1	2,4-D Dimethylamine Salt
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		2008-39-1	2,4-D Dimethylamine Salt
UAP TIMBERLAND PLATOON	228	145		2008-39-1	2,4-D Dimethylamine Salt
WEEDKING HERBICIDE	70907	20	53883	2008-39-1	2,4-D Dimethylamine Salt
BARRAGE HF	5905	529		533-23-3	2,4-D Ethylhexyl Ester
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		533-23-3	2,4-D Ethylhexyl Ester
GORDON'S SpeedZone BROADLEAF HERBICIDE FOR TURF	2217	833		533-23-3	2,4-D Ethylhexyl Ester
AGSCO--AGSCO 400 HERBICIDE	554	83		25168-26-7	2,4-D Isooctyl Ester
NUFARM WEEDONE LV4 SOLVENTLESS BROADLEAF HERBICIDE	71368	14		25168-26-7	2,4-D Isooctyl Ester
NUFARM WEEDONE LV6 EC BROADLEAF HERBICIDE	71368	11		25168-26-7	2,4-D Isooctyl Ester
SHUTOUT	2217	869	5905	25168-26-7	2,4-D Isooctyl Ester
SWB 2,4-D LV4	42750	22	9779	25168-26-7	2,4-D Isooctyl Ester
HIVOL-44	5481	509		94-11-1	2,4-D Isopropyl Ester
LEFFINGWELL-HIVOL-44 PLANT GROWTH REGULATOR	64864	31		94-11-1	2,4-D Isopropyl Ester
RIVERDALE ESCALADE LOW ODOR	228	416		32341-80-3	2,4-D Triisopropanolamine Salt
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		32341-80-3	2,4-D Triisopropanolamine Salt
TORDON 101 MIXTURE	62719	5		32341-80-3	2,4-D Triisopropanolamine Salt
TORDON RTU	62719	31		32341-80-3	2,4-D Triisopropanolamine Salt

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
ACTIGARD 50 WG PLANT ACTIVATOR	100	922		135158-54-2	Acibenzolar-S-Methyl
AATREX 4L HERBICIDE	100	497		1912-24-9	Atrazine
AATREX NINE-O HERBICIDE	100	585		1912-24-9	Atrazine
AGRISOLUTIONS ATRAZINE 4L	1381	158		1912-24-9	Atrazine
AGRISOLUTIONS STERLING PLUS	51036	307	9779	1912-24-9	Atrazine
AGRISOLUTIONS ATRAZINE 90DF	9779	253		1912-24-9	Atrazine
ATRAZINE 4L HERBICIDE	34704	69		1912-24-9	Atrazine
ATRIZINE 90 WDG HERBICIDE	34704	622		1912-24-9	Atrazine
AXIOM AT DF HERBICIDE	264	769		1912-24-9	Atrazine
BASF G-MAX LITE HERBICIDE	7969	200		1912-24-9	Atrazine
BASF GUARDSMAN MAX HERBICIDE	7969	192		1912-24-9	Atrazine
BROMOXYNIL + ATRAZINE HERBICIDE	264	477	66222	1912-24-9	Atrazine
DREXEL ATRAZINE 4L HERBICIDE	19713	11		1912-24-9	Atrazine
DREXEL ATRAZINE 90DF HERBICIDE	19713	76		1912-24-9	Atrazine
DUPONT STEADFAST ATZ HERBICIDE	352	619		1912-24-9	Atrazine
ESTABLISH ATZ HERBICIDE	7969	192	55467	1912-24-9	Atrazine
ESTABLISH LITE HERBICIDE	7969	200	55467	1912-24-9	Atrazine
READY MASTER ATZ HERBICIDE	524	509		1912-24-9	Atrazine
ABOUND FLOWABLE FUNGICIDE	10182	415		131860-33-8	Azoxystrobin
ABOUND FLOWABLE FUNGICIDE	100	1098		131860-33-8	Azoxystrobin
AMISTAR FUNGICIDE	100	1164		131860-33-8	Azoxystrobin
AZOXYSTROBIN DRY TECHNICAL MANUFACTURING USE CONCENTRATE FUNGICIDE	100	1120		131860-33-8	Azoxystrobin
BAYER CROPSCIENCE PROTÉGÉ FL SEED APPLIED FUNGICIDE	264	982		131860-33-8	Azoxystrobin
BAYER CROPSCIENCE SOYGARD L WITH PROTÉGÉ	264	991		131860-33-8	Azoxystrobin
DYNASTY	100	1159		131860-33-8	Azoxystrobin

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
DYNASTY CST FUNGICIDE	100	1177		131860-33-8	Azoxystrobin
HEADWAY FUNGICIDE	100	1216		131860-33-8	Azoxystrobin
HERITAGE FUNGICIDE	100	1093		131860-33-8	Azoxystrobin
HERITAGE TL	100	1191		131860-33-8	Azoxystrobin
PROTÉGÉ FL	7501	188		131860-33-8	Azoxystrobin
PROTÉGÉ XT	7501	186		131860-33-8	Azoxystrobin
QUADRIS FLOWABLE FUNGICIDE	100	1098		131860-33-8	Azoxystrobin
QUADRIS FLOWABLE FUNGICIDE	10182	415		131860-33-8	Azoxystrobin
QUADRIS OPTI FUNGICIDE	100	1171		131860-33-8	Azoxystrobin
QUILT FUNGICIDE	100	1178		131860-33-8	Azoxystrobin
SOYGARD L WITH PROTÉGÉ	7501	201		131860-33-8	Azoxystrobin
BROMACIL 80 WP HERBICIDE	70506	83		314-40-9	Bromacil
BROMACIL/DIURON 40+40 DF HERBICIDE	70506	84		314-40-9	Bromacil
FORMULA 190 LIQUID WEED KILLER	10807	205	70799	314-40-9	Bromacil
ALLPRO 10% CARBARYL DUST	769	229		63-25-2	Carbaryl
ALLPRO CARBARYL 4L	45735	25	769	63-25-2	Carbaryl
ALLPRO CARBARYL 50WP	769	972		63-25-2	Carbaryl
ALLPRO CARBARYL 80S	769	574		63-25-2	Carbaryl
CARBARYL 4L INSECTICIDE	34704	447		63-25-2	Carbaryl
CARBARYL BAIT	34704	483		63-25-2	Carbaryl
CARBARYL CUTWORM BAIT	11656	21		63-25-2	Carbaryl
DREXEL CARBARYL 4L	19713	49		63-25-2	Carbaryl
GOWAN SEVIN BAIT AGRICULTURE POISON BAIT	10163	32		63-25-2	Carbaryl
PROKOZ SEVIN SL	432	1227	72112	63-25-2	Carbaryl
SEVIN 10 DUST	2935	320		63-25-2	Carbaryl
SEVIN 5 BAIT	2935	366		63-25-2	Carbaryl
SEVIN 5 BAIT	34704	23		63-25-2	Carbaryl
SEVIN 5 GRANULAR	34704	373		63-25-2	Carbaryl
SEVIN 80 WSP CARBARYL INSECTICIDE	432	1226		63-25-2	Carbaryl
SEVIN BRAND 4F CARBARYL INSECTICIDE	264	349		63-25-2	Carbaryl
SEVIN BRAND 50W CARBARYL INSECTICIDE	264	314		63-25-2	Carbaryl
SEVIN BRAND 80 WSP CARBARYL INSECTICIDE	264	526		63-25-2	Carbaryl
SEVIN BRAND 80S CARBARYL INSECTICIDE	264	316		63-25-2	Carbaryl

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

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

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
DELTAGARD T&O 5SC INSECTICIDE	432	834		52918-63-5	Deltamethrin
ALPHANEX HERBICIDE	264	620	70506	13684-56-5	Desmedipham
PHEN-DES 8 + 8 HERBICIDE	70506	89		13684-56-5	Desmedipham
PHEN-DES 8+8 HERBICIDE	264	621	70506	13684-56-5	Desmedipham
ESCALADE 2	228	442		1918-00-9	Dicamba
GORDON'S POWER ZONE BROADLEAF HERBICIDE FOR TURF	2217	834		1918-00-9	Dicamba
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		1918-00-9	Dicamba
GORDON'S SpeedZone ST AUGUSTINE FORMULA BROADLEAF HERBICIDE	2217	835		1918-00-9	Dicamba
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		1918-00-9	Dicamba
RIVERDALE ESCALADE LOW ODOR	228	416		1918-00-9	Dicamba
VANQUISH HERBICIDE	100	884		1918-00-9	Dicamba
RIVERDALE VANQUISH HERBICIDE	228	397		104040-79-1	Dicamba, DGA Salt
AGRI STAR BY ALBAUGH INC RANGE STAR	42750	55		2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS BRASH	51036	308	9779	2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS STERLING	51036	289	9779	2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS STRIKE 3	14774	2		2300-66-5	Dicamba, DMA SALT
BANVEL HERBICIDE	51036	289		2300-66-5	Dicamba, DMA SALT
DICAM	81142	5		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX HERBICIDE	352	615		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX PART B HERBICIDE	352	614		2300-66-5	Dicamba, DMA SALT
GHARDA CHEMICALS LIMITED ORACLE DICAMBA AGRICULTURAL HERBICIDE	33658	14		2300-66-5	Dicamba, DMA SALT
GORDONS TRIMEC 992 BROADLEAF HERBICIDE	2217	656		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC BROADLEAF HERBICIDE - CLASSIC	2217	543		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC PLUS POST EMERGENT GRASS & BROADLEAF HERBICIDE	2217	709		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC TURF HERBICIDE	2217	517		2300-66-5	Dicamba, DMA SALT

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
ORACLE DICAMBA AGRICULTURAL HERBICIDE	70907	12		2300-66-5	Dicamba, DMA SALT
PRIMERA TRIPLET LOW ODOR	228	409		2300-66-5	Dicamba, DMA SALT
PRO-MATE THREE-WAY CS	2217	493	5905	2300-66-5	Dicamba, DMA SALT
Q4 TURF HERBICIDE FOR GRASSY & BROADLEAF WEEDS	2217	886		2300-66-5	Dicamba, DMA SALT
RIFLE-D HERBICIDE	34704	869		2300-66-5	Dicamba, DMA SALT
RIVERDALE DIABLO HERBICIDE	228	379		2300-66-5	Dicamba, DMA SALT
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		2300-66-5	Dicamba, DMA SALT
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		2300-66-5	Dicamba, DMA SALT
STERLING	1381	190		2300-66-5	Dicamba, DMA SALT
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		2300-66-5	Dicamba, DMA SALT
WEEDKING HERBICIDE	70907	20	53883	2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS STERLING PLUS	51036	307	9779	10007-85-9	Dicamba, Potassium Salt
DISTINCT HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
OVERDRIVE HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
YUKON HERBICIDE	33906	11	524	1982-69-0	Dicamba, Sodium Salt
ACROBAT 50WP FUNGICIDE	241	410		110488-70-5	Dimethomorph
CABRIO TEAM FUNGICIDE	7969	229		110488-70-5	Dimethomorph
FORUM FUNGICIDE	241	427		110488-70-5	Dimethomorph
STATURE DM FUNGICIDE	241	419	67690	110488-70-5	Dimethomorph
STATURE FUNGICIDE, SEPRO	241	411	67690	110488-70-5	Dimethomorph
SAFARI 20 SG INSECTICIDE	33657	16	59639	165252-70-0	Dinetofuran
VALENT VENOM INSECTICIDE	59639	135		165252-70-0	Dinetofuran
VENOM 20 SG INSECTICIDE	33657	17	59639	165252-70-0	Dinetofuran
AGRISOLUTIONS DIURON 4L	9779	329		330-54-1	Diuron
AGRISOLUTIONS DIURON TVC 80DF	9779	318		330-54-1	Diuron
BROMACIL/DIURON 40+40 DF HERBICIDE	70506	84		330-54-1	Diuron
DIREX 4L HERBICIDE	1812	257		330-54-1	Diuron
DIURON 8- WDG WEED KILLER	34704	648		330-54-1	Diuron
DIURON 80 HERBICIDE	19713	274		330-54-1	Diuron
DIURON 80 WDG WEED	34704	648		330-54-1	Diuron

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
KILLER					
DREXEL DIURON 4L	19713	36		330-54-1	Diuron
DUPONT LAYBY PRO HERBICIDE	352	660		330-54-1	Diuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-54-1	Diuron
DUPONT VELPAR ALFAMAX GOLD	352	666		330-54-1	Diuron
DUPONT VELPAR ALFAMAX HERBICIDE	352	665		330-54-1	Diuron
GRIFFIN KARMEX XP HERBICIDE	1812	362		330-54-1	Diuron
KARMEX DF HERBICIDE	1812	362		330-54-1	Diuron
SUREFIRE	100	1010	34704	330-54-1	Diuron
THIDIAZURON+DIURON EC COTTON DEFOLIANT	51036	429		330-54-1	Diuron
DENIM INSECTICIDE	100	903		137512-74-4	Emamectin Benzoate
PROCLAIM INSECTICIDE	100	904		137512-74-4	Emamectin Benzoate
ENDOSULFAN 3 EC	51036	92		115-29-7	Endosulfan
ENDOSULFAN 50WP	51036	91		115-29-7	Endosulfan
FULEX THIODAN INSECTICIDAL SMOKE	1327	35		115-29-7	Endosulfan
GOWAN ENDOSULFAN 50 WSB	10163	130		115-29-7	Endosulfan
GOWAN ENDOSULFAN 50W	10163	98		115-29-7	Endosulfan
PHASER 50WSB INSECTICIDE	264	656		115-29-7	Endosulfan
THIODAN WSB INSECTICIDE	279	3129		115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 3EC	279	2924	66222	115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 50W	279	1380	66222	115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 50WSB	279	3129	66222	115-29-7	Endosulfan
THIONEX 3EC	66222	63		115-29-7	Endosulfan
THIONEX 50W INSECTICIDE	66222	62		115-29-7	Endosulfan
KATANA TURF HERBICIDE	71512	2217		104040-78-0	Flazasulfuron
ARIA INSECTICIDE	279	3287		158062-67-0	Flonicamid
BELEAF 50 SG INSECTICIDE	71512	10	279	158062-67-0	Flonicamid
CARBINE 50WSG INSECTICIDE	71512-	9	279	158062-67-0	Flonicamid
AXIOM AT DF HERBICIDE	264	769		142459-58-3	Flufenacet (Thiafluamide)
AXIOM DF HERBICIDE	264	766		142459-58-3	Flufenacet (Thiafluamide)
AXIOM DF HERBICIDE	3125	488		142459-58-3	Flufenacet (Thiafluamide)
BAYER CROP SCIENCE	264	819		142459-58-3	Flufenacet (Thiafluamide)

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
DEFINE SC HERBICIDE					
DEFINE DF HERBICIDE	264	765		142459-58-3	Flufenacet (Thiafluamide)
DISARM 480 SC FUNGICIDE	66330	64		193740-76-0	Fluoxastrobin
ENVITO 480 SC	66330	64		193740-76-0	Fluoxastrobin
CONTRAST 70 WSP	432	1223	58185	66332-96-5	Flutolanil
CONTRAST 70 WSP	45639	208	58185	66332-96-5	Flutolanil
FLUTOLANIL TECHNICAL	71711	5		66332-96-5	Flutolanil
MONCOAT MZ POTATO SEED-PIECE TREATMENT	71711	8		66332-96-5	Flutolanil
MONCUT 70-DF FUNGICIDE FOR USE ON PEANUTS, RICE AND POTATOES	71711	14	10163	66332-96-5	Flutolanil
FINALE HERBICIDE	432	1229		77182-82-2	Glufosinate-Ammonium
IGNITE 280 SL HERBICIDE	264	829		77182-82-2	Glufosinate-Ammonium
IGNITE HERBICIDE	264	660		77182-82-2	Glufosinate-Ammonium
LIBERTY HERBICIDE	264	660		77182-82-2	Glufosinate-Ammonium
RELY HERBICIDE	264	652		77182-82-2	Glufosinate-Ammonium
REMOVE HERBICIDE	264	663		77182-82-2	Glufosinate-Ammonium
MACH 2* 1.5G	62719	473	38167	112226-61-6	Halofenozide
MANAGE TURF HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SANDEA HERBICIDE	10163	254		100784-20-1	Halosulfuron-Methyl
SEDGEHAMMER TURF HERBICIDE	81880	1	10163	100784-20-1	Halosulfuron-Methyl
SEMPRA CA	524	524		100784-20-1	Halosulfuron-Methyl
SEMPRA CA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SEMPRA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
YUKON HERBICIDE	33906	11	524	100784-20-1	Halosulfuron-Methyl
RAPTOR HERBICIDE	241	379		114311-32-9	Imazamox
PURSUIT DG	241	350		81335-77-5	Imazethapyr
PURSUIT W DG HERBICIDE ECO-PAK	241	386		81335-77-5	Imazethapyr
CELERO HERBICIDE	59639	155		122548-33-8	Imazosulfuron*
LEAGUE HERBICIDE	59639	166		122548-33-8	Imazosulfuron*
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	432	1349	9198	138261-41-3	Imidacloprid

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
FERTILIZER 14-0-14 WITH MERIT 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 GAUCHO 480 FLOWABLE	264	957		138261-41-3	Imidacloprid
BAYER CROPSCIENCE GAUCHO GRANDE SEED-APPLIED INSECTICIDE	264	968		138261-41-3	Imidacloprid
BAYER CROPSCIENCE TOPS-MZ-GAUCHO POTATO SEED-PIECE TREATMENT	264	977		138261-41-3	Imidacloprid
COURAZE 1.6F INSECTICIDE	264	763	67760	138261-41-3	Imidacloprid
COURAZE 2F INSECTICIDE	264	758	67760	138261-41-3	Imidacloprid
COURAZE MAX 4F	264	783	67760	138261-41-3	Imidacloprid
COURAZE SOLUPAK INSECTICIDE	264	761	67760	138261-41-3	Imidacloprid
DOMINION 0.5 GRANULAR INSECTICIDE	432	1328	53883	138261-41-3	Imidacloprid
GARANT T & O 2F INSECTICIDE	432	1312	67760	138261-41-3	Imidacloprid
GARANT T & O 75 WSP INSECTICIDE	432	1318	67760	138261-41-3	Imidacloprid
GAUCHO 480	7501	155		138261-41-3	Imidacloprid
GAUCHO 600	7501	173		138261-41-3	Imidacloprid
GAUCHO 600 FLOWABLE	264	968		138261-41-3	Imidacloprid
GAUCHO GRANDE SEED-APPLIED INSECTICIDE	7501	173		138261-41-3	Imidacloprid
GAUCHO MZ	7501	184		138261-41-3	Imidacloprid
GENESIS	264	758	7501	138261-41-3	Imidacloprid
GENESIS FLOWABLE	3125	422	7501	138261-41-3	Imidacloprid
HUNTER 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
IMIDACLOPRID 4F INSECTICIDE	264	783	66222	138261-41-3	Imidacloprid
IMIDIPRO SYSTEMIC INSECTICIDE	42750	115	2217	138261-41-3	Imidacloprid
IMPULSE 1.6 FL				138261-41-3	Imidacloprid
LATITUDE SEED TREATMENT	7501	198		138261-41-3	Imidacloprid
LESCO BANDIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
LEVERAGE 2.7 SUSPENSION	264	770		138261-41-3	Imidacloprid

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
EMULSION INSECTICIDE					
LEVERAGE 2.7 SUSPENSION EMULSION INSECTICIDE	3125	524		138261-41-3	Imidacloprid
MACHO 2.0 FL	42750	110		138261-41-3	Imidacloprid
MAJESTY	432	1369	59807	138261-41-3	Imidacloprid
MARATHON 1% GRANULAR GREENHOUSE & NURSERY INSECTICIDE	432	1329	59807	138261-41-3	Imidacloprid
MARATHON 60 WP GREENHOUSE AND NURSERY INSECTICIDE IN WATER SOLUBLE PACKAGING	432	1361	59807	138261-41-3	Imidacloprid
MARATHON II GREENHOUSE AND NURSERY INSECTICIDE	432	1369	59807	138261-41-3	Imidacloprid
MERIT 2 INSECTICIDE	3125	418		138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	432	1314		138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	3125	421		138261-41-3	Imidacloprid
MERIT 75 WSP INSECTICIDE	3125	439		138261-41-3	Imidacloprid
MERIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
PASADA 1.6F FLOWABLE INSECTICIDE	264	763	66222	138261-41-3	Imidacloprid
PASADA 75 WSB	264	761	66222	138261-41-3	Imidacloprid
PRO-MATE MERIT 0.2% PLUS TURF FERTILIZER	432	1349	5905	138261-41-3	Imidacloprid
PROVADO 1.6 FLOWABLE INSECTICIDE	3125	457		138261-41-3	Imidacloprid
PROVADO 1.6 FLOWABLE INSECTICIDE	264	763		138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WETTABLE POWDER INSECTICIDE IN WATER SOLUBLE PACKETS	264	761		138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WP INSECTICIDE IN WSP	3125	428		138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 0.5G INSECTICIDE	432	1328	73220	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 2 F INSECTICIDE	432	1312	73220	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 75 WSB INSECTICIDE	432	1318	73220	138261-41-3	Imidacloprid
SIGNATURE BRAND FERTILIZER WITH 0.2% MERIT 21-3-8	432	1349	65783	138261-41-3	Imidacloprid
SIGNATURE BRAND FERTILIZER WITH 0.2%	432	1349	65783	138261-41-3	Imidacloprid

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
MERIT 7-0-0					
SIGNATURE FERTILIZER WITH MERIT 0.2%	432	1349	65783	138261-41-3	Imidacloprid
SUBMERGE 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
THE ANDERSONS PROFESSIONAL TURF PRODUCTS FERTILIZER 22-3-8 WITH MERIT INSECTICIDE	432	1349	9198	138261-41-3	Imidacloprid
TOPS-MZ-GAUCHO	7501	183		138261-41-3	Imidacloprid
ZENITH 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
DUPONT LAYBY PRO HERBICIDE	352	660		330-55-2	Linuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-55-2	Linuron
LINEX 4L HERBICIDE	1812	245		330-55-2	Linuron
LOROX DF HERBICIDE	1812	320		330-55-2	Linuron
DUPONT MANEX FUNGICIDE	352	655		12427-38-2	Maneb
MANEB 75DF FUNGICIDE	4581	371	82695	12427-38-2	Maneb
MANEB 75DF DRY FLOWABLE FUNGICIDE	4581	371		12427-38-2	Maneb
MANEB 80 WP FUNGICIDE	4581	255		12427-38-2	Maneb
MANEB 80 WP FUNGICIDE	4581	255	82695	12427-38-2	Maneb
MANEX FUNGICIDE FLOWABLE WITH ZINC	1812	251		12427-38-2	Maneb
PENTATHLON FUNGICIDE FLOWABLE WITH ZINC	1812	251		12427-38-2	Maneb
POTATO SEED TREATER 6%	2935	541	34704	12427-38-2	Maneb
POTATO SEED TREATER PS	2935	539	34704	12427-38-2	Maneb
SHUTOUT	2217	869	5905	16484-77-8	Mecoprop-P (MCP-P)
AGRISOLUTIONS STRIKE 3	14774	2		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
ENDRUN	2217	656	5905	66423-09-4	Mecoprop-P (MCP-P), DMA Salt
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
GORDON'S TRIMEC TURF HERBICIDE	2217	517		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
PRO-MATE THREE-WAY CS	2217	493	5905	66423-09-4	Mecoprop-P (MCP-P), DMA Salt
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		66423-09-4	Mecoprop-P (MCP-P), DMA Salt

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		66423-09-4	Mecoprop-P (MCCP-P), DMA Salt
AGRISOLUTIONS CATAPULT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
AGRISOLUTIONS INCENTIVE RTA	100	826	1381	70630-17-0	Mefenoxam
AgriSolutions WARDEN RTA	100	1146	1381	70630-17-0	Mefenoxam
APRON XL LS FUNGICIDE	100	799		70630-17-0	Mefenoxam
DELTA COAT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
DIVIDEND XL FUNGICIDE	100	885		70630-17-0	Mefenoxam
DIVIDEND XL RTA FUNGICIDE	100	826		70630-17-0	Mefenoxam
DYNASTY CST FUNGICIDE	100	1177		70630-17-0	Mefenoxam
MAXIM XL FUNGICIDE	100	916		70630-17-0	Mefenoxam
PLATINUM RIDOMIL GOLD	100	974		70630-17-0	Mefenoxam
QUALI-PRO MEFENOXAM 2 AQ	70252	11	73220	70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO FUNGICIDE	100	800		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO SC FUNGICIDE	100	1221		70630-17-0	Mefenoxam
RIDOMIL GOLD COPPER FUNGICIDE	100	804		70630-17-0	Mefenoxam
RIDOMIL GOLD EC	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD GR FUNGICIDE	100	798		70630-17-0	Mefenoxam
RIDOMIL GOLD MZ FUNGICIDE	100	803		70630-17-0	Mefenoxam
RIDOMIL GOLD PC GR	100	823		70630-17-0	Mefenoxam
RIDOMIL GOLD PC GRANULAR FUNGICIDE	100	792		70630-17-0	Mefenoxam
RIDOMIL GOLD SL FUNGICIDE	100	1202		70630-17-0	Mefenoxam
RIDOMIL GOLD WSP FUNGICIDE	100	802		70630-17-0	Mefenoxam
SUBDUE GR	100	794		70630-17-0	Mefenoxam
SUBDUE GR GRANULAR FUNGICIDE	100	794		70630-17-0	Mefenoxam
SUBDUE MAXX FUNGICIDE	100	796		70630-17-0	Mefenoxam
OSPREY HERBICIDE	264	802		208465-21-8	Mesosulfuron-Methyl
INTREPID 2F	62719	442		161050-58-4	Methoxyfenozide

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

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

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
HERBICIDE					
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	9779	297		7287-19-6	Prometryn
CUSTOM PAK PEAK HERBICIDE	100	763		94125-34-5	Prosulfuron
PEAK ACCU-PAK HERBICIDE	100	763		94125-34-5	Prosulfuron
PEAK-CUSTOMPAK HERBICIDE	100	763		94125-34-5	Prosulfuron
ENDEAVOR INSECTICIDE	100	913		123312-89-0	Pymetrozine
FULFILL INSECTICIDE	100	912		123312-89-0	Pymetrozine
FUSILADE DX HERBICIDE	100	1070		123312-89-0	Pymetrozine
DUPONT STAPLE LX HERBICIDE	352	613		123343-16-8	Pyriithiobac-Sodium
STAPLE HERBICIDE	352	576	279	123343-16-8	Pyriithiobac-Sodium
DRIVE 75 DF HERBICIDE	7969	130		84087-01-4	Quinclorac
Q4 TURF HERBICIDE FOR GRASS & WEEDS	2217	886		84087-01-4	Quinclorac
INTEGRITY X POWERED HERBICIDE	7969	279		372137-35-4	Saflufenacil
OPTILL X POWERED HERBICIDE	7969	280		372137-35-4	Saflufenacil
SHARPEN X POWERED HERBICIDE	7969	278		372137-35-4	Saflufenacil
TREEVIX POWERED HERBICIDE	7969	276		372137-35-4	Saflufenacil
VERDICTÖ POWERERED HERBICIDE	7969	279		372137-35-4	Saflufenacil
ADAMENT 50 WG FUNGICIDE	264	1052		107534-96-3	Tebuconazole
BAYER CROPSCIENCE RAXIL - THIRAM FLOWABLE FUNGICIDE	264	955		107534-96-3	Tebuconazole
ORIOUS 20AQ FOLIAR FUNGICIDE	66622	128		107534-96-3	Tebuconazole
PROCEED MD FUNGICIDE	264	1072		107534-96-3	Tebuconazole
CONFIRM 2F	62719	420		112410-23-8	Tebufenozide
CONFIRM 2F AGRICULTURAL INSECTICIDE (SEC18 98-AZ- 09,10)	707	238		112410-23-8	Tebufenozide
CONFIRM T/O	62719	420		112410-23-8	Tebufenozide

Table 4: Agricultural Pesticides on the 2012 Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
CONFIRM T/O INSECTICIDE	707	238		112410-23-8	Tebufenozide
MIMIC 2LV AGRICULTURAL INSECTICIDE	707	270		112410-23-8	Tebufenozide
VISOR 2E HERBICIDE	707	251		112410-23-8	Tebufenozide
ACTARA INSECTICIDE	100	938		153719-23-4	Thiamethoxam
CENTRIC 40WG INSECTICIDE	100	1147		153719-23-4	Thiamethoxam
CENTRIC INSECTICIDE	100	968		153719-23-4	Thiamethoxam
CRUISER 5FS insecticide	100	941		153719-23-4	Thiamethoxam
FLAGSHIP 25WG	100	955		153719-23-4	Thiamethoxam
PLATINUM INSECTICIDE	100	939		153719-23-4	Thiamethoxam
PLATINUM RIDOMIL GOLD	100	974		153719-23-4	Thiamethoxam
VISOR 2E	62719	431		117718-60-2	Thiazopyr
ENVOKE HERBICIDE	100	1132		199119-58-9	Trifloxysulfuron-Sodium
PRIMO	100	729		95266-40-3	Trinexapac-Ethyl
PRIMO LIQUID	100	729		95266-40-3	Trinexapac-Ethyl
PRIMO MAXX	100	937		95266-40-3	Trinexapac-Ethyl
PRIMO WSB	100	752		95266-40-3	Trinexapac-Ethyl

*New Addition to the GWPL.

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

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

In 2011, groundwater samples were collected twice, during the spring and fall seasons, in the Yuma, Buckeye and Safford areas. A few GWPL pesticide active ingredients have been detected in groundwater at very low concentrations in the range of parts per billion (Table 5). Triclopyr was detected in a duplicate sample during the fall sampling at a concentration of 0.12 ug/L, but this detection is yet to be confirmed. These active ingredients are described as “*detected pesticides of interest*” based on the fact that they have been detected and confirmed during at least two sampling events. None of the pesticide active ingredients on this list belong to those identified by the EPA as “Pesticides of Concern.” No regulatory action is required to be taken on these pesticides although changes in their concentrations are being closely monitored. None of the concentrations detected in groundwater exceed any applicable federal or state standards, or pose 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)
Dimethomorph	Fungicide	(0.02 – 0.28)
Diuron	Herbicide	(0.02 – 0.30)
Imazamox	Herbicide	(0.02 – 0.09)
Imazethapyr	Herbicide	(0.02 – 0.11)
Imidacloprid	Insecticide	(0.02 – 1.64)
Methoxyfenozide	Insecticide	(0.02 – 4.10)
Prometryn/Prometon	Herbicide	(0.02 – 0.96)

* Detection limit 0.02 ppb

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

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

- Use information on agricultural-use pesticides on the GWPL in Table 3 that were intended for soil application *within* Arizona between Jan. 1, 2011 and Dec. 31, 2011 (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, 2011 and Dec. 31, 2011 (Table 7).

Table 6: Reported Use of Pesticides in Arizona January 1, 2011 – December 31, 2011

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
ACTIGARD 50 WG PLANT ACTIVATOR	F	100	922	0	1,2,3-Benzothiadiazole-7-carbothioic acid	158.28	LBS	3379.16	50	79.14	LBS
BLOCKADE 50WG PLANT ACTIVATOR	F	100	922	0	1,2,3-Benzothiadiazole-7-carbothioic acid,	150.79	LBS	3212.04	50	75.40	LBS
FULFILL INSECTICIDE	I	100	912	0	1,2,4-Triazin-3(2H)-one, 4,5-dihydro-6-methyl	137.05	LBS	678.07	50	68.53	LBS
AGRISOLUTIONS 2,4-D AMINE 4	H	1381	103	0	2,4-D, dimethylamine salt	190.00	GAL	1896	3.2	6.08	GAL
AMINE 4 2,4-D WEED KILLER	H	34704	120	0	2,4-D, dimethylamine salt	220.00	GAL	1714	3.2	7.04	GAL
NUFARM WEEDAR 64 HERBICIDE	H	71368	1	0	2,4-D, dimethylamine salt	481.32	GAL	2846.85	3.2	15.40	GAL
UNISON	H	5905	542	0	2-4,D	62.50	GAL	230	0.6	0.38	GAL
PURSUIT HERBICIDE	H	241	310	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl	577.87	GAL	17835.63	22.9	132.33	GAL
THUNDER	H	42750	146	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl	27.55	GAL	991	22.9	6.31	GAL
AATREX 4L HERBICIDE	H	100	497	0	Atrazine	2246.21	GAL	7426.9	50.5	1134.33	GAL
AGRISOLUTIONS ATRAZINE 4L	H	1381	158	0	Atrazine	30.58	GAL	102.93	50.5	15.44	GAL
ATRAZINE 4L HERBICIDE	H	34704	69	0	Atrazine	1586.55	GAL	5551.2	50.5	801.21	GAL
ATRIZINE 90 WDG HERBICIDE	H	34704	622	0	Atrazine	75.00	GAL	240	50.5	37.88	GAL
DREXEL ATRAZINE 4L HERBICIDE	H	19713	11	0	Atrazine	540.94	GAL	2183.2	50.5	273.17	GAL
ABOUND FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	109.30	GAL	1473.68	8.3	9.07	GAL
ABOUND FLOWABLE FUNGICIDE	F	10182	415	0	Azoxystrobin	17.74	GAL	211	8.3	1.47	GAL
QUADRIS FLOWABLE FUNGICIDE	F	100	1098	0	Azoxystrobin	747.58	GAL	9522.44	8.3	62.05	GAL
QUADRIS S	F	100	1222	0	Azoxystrobin	23.80	PTS	35	8.3	1.98	PTS
SHARPEN X POWERED HERBICIDE	H	7969	278	0	Benzamide, 2-chloro-5-[3,6-dihydro-3-methyl	232.00	OZS	116	29.74	69.00	OZS
AGRISOLUTIONS STERLING BLUE HERBICIDE	H	7969	137	1381	Benzoic acid, 3,6-dichloro-2-methoxy	15.00	GAL	473	56.8	8.52	GAL
CLARITY HERBICIDE	H	7969	137	0	Benzoic acid, 3,6-dichloro-2-methoxy	431.40	GAL	7894.56	56.8	245.03	GAL
STRUT HERBICIDE	H	34704	1043	0	Benzoic acid, 3,6-dichloro-2-methoxy	545.33	GAL	2396	56.8	309.75	GAL
BROCLEAN	H	34704	891	0	Bromoxynil octanoate	152.16	OZS	25.36	18.7	28.45	OZS
SEVIN 5 BAIT	I	2935	366	0	Carbaryl	2565.95	LBS	254.6	1.3	33.36	LBS
SEVIN 80 WSP CARBARYL INSECTICIDE	I	432	1226	0	Carbaryl	20.00	LBS	20	1.3	0.26	LBS
AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	356.47	GAL	26164.44	22.3	79.49	GAL
AIM EC HERBICIDE	H	279	3241	0	Carfentrazone-ethyl	950.10	LBS	316.7	22.3	211.87	LBS
AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-ethyl	0.63	GAL	171.4	21.3	0.13	GAL
AIM EW HERBICIDE	H	279	3242	0	Carfentrazone-ethyl	1135.44	OZS	1310.3	21.3	241.85	OZS

Table 6: Reported Use of Pesticides in Arizona January 1, 2011 – December 31, 2011

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
DEPONT CALTERYX CONCENTRATE	I	352	771	0	Chlorantraniliprole	150.00	OZS	148.3	12.5	18.75	OZS
DUPONT CORAGEN INSECT CONTROL	I	352	729	0	Chlorantraniliprole	195.36	GAL	6247.85	18.4	35.95	GAL
RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	D-Alanine, N-(2,6-dimethylphenyl	202.36	GAL	7008.2	3.7	7.49	GAL
RIDOMIL GOLD BRAVO	F	100	800	0	D-Alanine, N-(2,6-dimethylphenyl	5.00	LBS	3.5	3.7	0.19	LBS
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	F	100	801	0	D-Alanine, N-(2,6-dimethylphenyl	2.19	GAL	92.45	3.7	0.08	GAL
RIDOMIL GOLD BRAVO SC FUNGICIDE	F	100	1221	0	D-Alanine, N-(2,6-dimethylphenyl	340.24	GAL	1204.39	3.7	12.59	GAL
RIDOMIL GOLD EC	FU	100	801	0	D-Alanine, N-(2,6-dimethylphenyl	1.06	GAL	35.87	3.7	0.04	GAL
RIDOMIL GOLD SL FUNGICIDE	F	100	1202	0	D-Alanine, N-(2,6-dimethylphenyl	390.00	LBS	122.8	3.7	14.43	LBS
ULTRA FLOURISH A61 FUNGICIDE	FU	55146	73	0	D-Alanine, N-(2,6-dimethylphenyl)	700.89	GAL	2126.48	3.7	25.93	GAL
FORUM FUNGICIDE	F	241	427	0	Dimethomorph	1110.26	GAL	21655.36	43.5	482.96	GAL
FORUM FUNGICIDE	F	241	427	0	Dimethomorph	75.22	LBS	125.9	43.5	32.72	LBS
SCORPION™ 35SL INSECTICIDE	I	10163	317	0	Dinotefuran	101.63	GAL	2088.94	0.25	0.25	GAL
VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	604.67	GAL	14299.2	0.25	1.51	GAL
VALENT VENOM INSECTICIDE	I	59639	135	0	Dinotefuran	49.02	LBS	260.56	0.25	0.12	LBS
Dupont Direx 4l herbicide	H	352	678	0	Diuron	832.08	GAL	3281.8	6	49.92	GAL
ADIOS COTTON DEFOLIANT	D	66330	344	0	Diuron	565.70	GAL	8878.09	6	33.94	GAL
DETERMINE 4L FLOWABLE HERBICIDE	H	66222	54	0	Diuron	0.99	GAL	79	6	0.06	GAL
DIURON 4L HERBICIDE	H	34704	854	0	Diuron	972.25	GAL	3889	6	58.34	GAL
DREXEL DIURON 4L	H	19713	36	0	Diuron	129.64	GAL	894.2	6	7.78	GAL
LAYBY™ PRO HERBICIDE	H	61842	20	0	Diuron	81.26	GAL	325.03	6	4.88	GAL
PARROT 4L LIQUID FLOWABLE HERBICIDE	H	66222	54	0	Diuron	3.97	GAL	254	6	0.24	GAL
PROCLAIM INSECTICIDE	I	100	904	0	Emamectin benzoate	400.19	GAL	295.6	5	20.01	GAL
PROCLAIM INSECTICIDE	I	100	904	0	Emamectin benzoate	2912.65	LBS	12064.02	5	145.63	LBS
THONEX 3EC	I	66222	63	0	Endosulfan	2047.54	GAL	7328.23	34	696.16	GAL
THONEX 3EC	I	66222	63	0	Endosulfan	2.50	LBS	10	34	0.85	LBS
THONEX 3EC	I	70506	121	0	Endosulfan	0.59	GAL	19.6	34	0.20	GAL
BELEAF 50SG INSECTICIDE	I	71512	10	279	Flonicamid	33.32	GAL	1341.65	50	16.66	GAL
BELEAF 50SG INSECTICIDE	I	71512	10	279	Flonicamid	1423.96	LBS	8672.54	50	711.98	LBS
CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	3779.27	GAL	141129.23	50	1889.63	GAL
CARBINE 50 WG INSECTICIDE	I	71512	9	279	Flonicamid	1829.67	LBS	2900.24	50	914.84	LBS

Table 6: Reported Use of Pesticides in Arizona January 1, 2011 – December 31, 2011

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Flonicamid	4.36	GAL	24.89	50	2.18	GAL
ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	I	71512	10	0	Flonicamid	20.06	LBS	114.58	50	10.03	LBS
IGNITE	H	264	829	0	Glufosinate	7171.61	GAL	549.5	24.5	1757.05	GAL
RELY 200 HERBICIDE	H	264	660	0	Glufosinate	75.89	GAL	243.04	24.5	18.59	GAL
SANDEA HERBICIDE	H	10163	254	0	Halosulfuron-methyl	399.36	OZS	415.4	75	299.52	OZS
YUKON HERBICIDE SOLUBLE GRANULE	H	81880	6	10163	Halosulfuron-methyl	90.00	LBS	240	12.5	11.25	LBS
BASF BEYOND HERBICIDE/SYSTEM	H	241	379	0	Imazamox	354.00	OZS	59	12.1	42.83	OZS
BASF RAPTOR HERBICIDE	H	241	379	0	Imazamox	1129.96	GAL	19571.98	12.1	136.72	GAL
ADMIRE 2 FLOWABLE INSECTICIDE)	I	264	758	0	Imidacloprid	122.34	GAL	944.79	8.8	10.77	GAL
ADMIRE PRO SYSTEMIC INSECTICIDE	I	264	827	0	Imidacloprid	1036.31	GAL	13480.51	8.8	91.20	GAL
AGRSOLUTIONS ADVISE 2FL	I	1381	205	0	Imidacloprid	210.56	GAL	1327.7	8.8	18.53	GAL
ALIAS 2F FLOWABLE INSECTICIDE	I	264	758	66222	Imidacloprid	1612.92	GAL	9799.75	8.8	141.94	GAL
COURAZE 1.6F INSECTICIDE	I	264	763	67760	Imidacloprid	0.78	GAL	26.26	8.8	0.07	GAL
MACHO 2.0 FL	I	42750	110	0	Imidacloprid	801.13	GAL	4676.83	8.8	70.50	GAL
MONTANA INSECTICIDE	I	83100	7	83979	Imidacloprid	4.58	GAL	291.78	8.8	0.40	GAL
NUPRID 2F INSECTICIDE	H	228	484	0	Imidacloprid	1148.00	OZS	57.4	8.8	101.02	OZS
NUPRID 2SC SOIL/FOLIAR INSECTICDE	I	228	572	0	Imidacloprid	155.11	GAL	1331.94	8.8	13.65	GAL
PROVADO 1.6 FLOWABLE INSECTICIDE	I	264	763	0	Imidacloprid	20.79	GAL	707	8.8	1.83	GAL
WIDOW INSECTICIDE	I	34704	893	0	Imidacloprid	339.59	GAL	2701.3	8.8	29.88	GAL
AGRSOLUTIONS GRIZZLY Z INSECTICIDE	I	1381	211	0	lambda-Cyhalothrin	19.51	GAL	716.93	0.16	0.03	GAL
HELM KENDO INSECTICIDE	I	74530	38	0	lambda-Cyhalothrin	98.48	GAL	4133.1	0.16	0.16	GAL
KARATE INSECTICIDE	I	100	998	0	lambda-Cyhalothrin	130.00	LBS	520	0.16	0.21	LBS
LAMBDA-CY EC INSECTICIDIE	I	70506	120	0	lambda-Cyhalothrin	37.00	GAL	1385.1	0.16	0.06	GAL
LAMBDA-CY EC INSECTICIDE-RUP	I	70506	121	0	lambda-Cyhalothrin	2817.97	GAL	49478.95	0.16	4.51	GAL
LAMCAP	I	100	1112	0	lambda-Cyhalothrin	514.52	GAL	7262.75	0.16	0.82	GAL
PROVINCE INSECTICIDE	I	100	1112	55467	lambda-Cyhalothrin	124.93	GAL	4954.7	0.16	0.20	GAL
SCIMITAR GC INSECTICIDE	I	100	1088	0	lambda-Cyhalothrin	564.96	OZS	94.16	0.16	0.90	OZS
SILENCER	I	66222	104	0	lambda-Cyhalothrin	825.10	GAL	27706.37	0.16	1.32	GAL
VOLIAM XPRESS INSECTICIDE	I	100	1320	0	lambda-Cyhalothrin	1063.67	GAL	8397.96	0.16	1.70	GAL
WARRIOR II WITH ZEON TECHNOLOGY	I	100	1295	0	lambda-Cyhalothrin	1121.90	GAL	65228.99	0.16	1.80	GAL

Table 6: Reported Use of Pesticides in Arizona January 1, 2011 – December 31, 2011

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
WARRIOR II WITH ZEON TECHNOLOGY	I	100	1295	0	lambda-Cyhalothrin	23.04	LBS	12	0.16	0.04	LBS
WARRIOR INSECTICIDE	I	100	1112	0	lambda-Cyhalothrin	228.55	GAL	7604.58	0.16	0.37	GAL
DUPONT LOROX DF HERBICIDE	H	352	686	0	Linuron	318.70	LBS	214.1	20.3	64.70	LBS
LOROX® DF HERBICIDE	H	61842	23	0	Linuron	129.67	LBS	103.6	20.3	26.32	LBS
REVUS	F	100	1254	0	Mandipropamide Technical	2515.94	GAL	40517.16	23.3	586.21	GAL
REVUS	F	100	1254	0	Mandipropamide Technical	5.14	LBS	82.22	23.3	1.20	LBS
DUPONT MANEX FUNGICIDE	F	352	655	0	Maneb	13476.59	GAL	7845.4	37	4986.34	GAL
MANEB 75DF FUNGICIDE	F	4581	371	82695	Maneb	51.48	LBS	25.74	37	19.05	LBS
MANEB 75DF DRY FLOWABLE FUNGICIDE	F	70506	186	0	Maneb	3614.39	LBS	2245.94	37	1337.32	LBS
OSPREY HERBICIDE	H	264	802	0	Mesosulfuron-methyl	579.59	GAL	1214.6	4.5	26.08	GAL
IMPACT HERBICIDE	H	5481	524	0	Methanone,	145.70	GAL	1360	29.7	43.27	GAL
DUPONT LANNATE LV INSECTICIDE	I	352	384	0	Methomyl	15.00	GAL	80	90	13.50	GAL
DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	41.68	GAL	206.94	90	37.52	GAL
DUPONT LANNATE SP INSECTICIDE	I	352	342	0	Methomyl	21946.09	LBS	31735.43	90	19751.48	LBS
INTREPID 2F	I	62719	442	0	Methoxyfenozide	2205.71	GAL	40830.77	22.6	498.49	GAL
METRI DF 75% FLOWABLE HERBICIDE	H	70506	103	0	Metribuzin	17000.00	OZS	250	75	12750.00	OZS
DUPONT™ PASTORA® HERBICIDE	H	352	819	0	Nicosulfuron	73.50	OZS	49	56.2	41.31	OZS
DUPONT ACCENT Q HERBICIDE	H	352	773	0	Nicosulfuron	18.81	OZS	20.9	56.2	10.57	OZS
VYDATE L INSECTICIDE/NEMATOCIDE	I	352	372	0	Oxamyl	1928.08	PTS	583.9	42	809.79	PTS
CAPAROL 4L HERBICIDE	H	100	620	0	Prometryn	35.35	PTS	22.45	44.4	15.70	PTS
COTTON PRO	H	66222	15	0	Prometryn	227.64	GAL	1758.2	44.4	101.07	GAL
COTTON-PRO HERBICIDE	H	1812	274	0	Prometryn	65.00	GAL	206	44.4	28.86	GAL
GOWAN PROMETRYNE 4L HERBICIDE	H	10163	94	0	Prometryn	52.93	GAL	202.8	44.4	23.50	GAL
VEGETABLE PRO HERBICIDE	H	66222	15	0	Prometryn	196.55	GAL	738.25	44.4	87.27	GAL
DUPONT CINCH ATZ LITE HERBICIDE	H	352	623	0	S-Metolachlor	112.50	GAL	300	19	21.38	GAL
ACTARA INSECTICIDE	I	100	938	0	Thiamethoxam	240.12	OZS	46	0.4	0.96	OZS
CENTRIC 40WG INSECYCIDE	I	100	1147	0	Thiamethoxam	632.75	OZS	253.1	0.4	2.53	OZS
GINSTAR EC COTTON DEFOLIANT	D	264	634	0	Thidiazuron	2777.26	GAL	34402.96	12	333.27	GAL
GINSTAR EC COTTON DEFOLIANT	D	264	634	0	Thidiazuron	23.75	LBS	27.3	12	2.85	LBS
REDI-PIK 1.5EC COTTON DEFOLIANT	D	264	634	66222	Thidiazuron	3525.84	GAL	42046.23	12	423.10	GAL

Table 6: Reported Use of Pesticides in Arizona January 1, 2011 – December 31, 2011

Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Total	Units	Acres	AI %	Total AI Applied	Units
REDI-PIK 1.5EC COTTON DEFOLIANT	D	264	634	66222	Thidiazuron	198.00	LBS	33	12	23.76	LBS
REDI-PIK 1.5EC COTTON DEFOLIANT	D	66222	137	0	Thidiazuron	864.93	GAL	10917.89	12	103.79	GAL

Legend:					
H = Herbicide	F = Fungicide		O = Ovicides	R = Regulator	
I = Insecticide	M = Miticides		N = Nematicide	D = Defoliant	

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
APACHE	DUPONT MANEX FUNGICIDE	FUNGICIDE	352	655	0	Maneb	6.00	GAL	18.5	37	2.22	GAL
APACHE	DUPONT LANNATE SP INSECTICIDE	INSECTICIDE	352	342	0	Methomyl	8.00	LBS	18.5	90	7.20	LBS
COCHISE	AGRISOLUTIONS 2,4-D AMINE 4	HERBICIDE	1381	103	0	2,4-D, dimethylamine salt	162.50	GAL	1566	3.2	5.20	GAL
COCHISE	AMINE 4 2,4-D WEED KILLER	HERBICIDE	34704	120	0	2,4-D, dimethylamine salt	135.00	GAL	1120	3.2	4.32	GAL
COCHISE	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	HERBICIDE	71368	1	0	2,4-D, dimethylamine salt	20.35	GAL	108.53	3.2	0.65	GAL
COCHISE	PURSUIT HERBICIDE	HERBICIDE	241	310	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid	16.20	GAL	539	22.9	3.71	GAL
COCHISE	DREXEL ATRAZINE 4L HERBICIDE	HERBICIDE	19713	11	0	Atrazine	145.00	GAL	580	50.5	73.23	GAL
COCHISE	ATRAZINE 4L HERBICIDE	HERBICIDE	34704	69	0	Atrazine	1428.75	GAL	4920	50.5	721.52	GAL
COCHISE	ATRIZINE 90 WDG HERBICIDE	HERBICIDE	34704	622	0	Atrazine	75.00	GAL	240	50.5	37.88	GAL
COCHISE	QUADRIS FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	124.84	GAL	1729	8.3	10.36	GAL
COCHISE	SHARPEN X POWERED BY KIXOR HERBICIDE	HERBICIDE	7969	278	0	Benzamide, 2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-4-fluoro-N-[[methyl(1-methylethyl)amino]sulfonyl]-	232.00	OZS	116	29.74	69.00	OZS
COCHISE	CLARITY HERBICIDE	HERBICIDE	7969	137	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	148.68	GAL	2891	56.8	84.45	GAL
COCHISE	STRUT HERBICIDE	HERBICIDE	34704	1043	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	532.30	GAL	1862	56.8	302.35	GAL
COCHISE	AIM EC HERBICIDE	HERBICIDE	279	3241	0	Carfentrazone-ethyl	116.88	GAL	1410	22.3	26.06	GAL
COCHISE	YUKON HERBICIDE WATER SOLUBLE GRANULE	HERBICIDE	81880	6	10163	Halosulfuron-methyl	90.00	LBS	240	12.5	11.25	LBS

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
COCHISE	BASF RAPTOR HERBICIDE	HERBICIDE	241	379	0	Imazamox	43.37	GAL	1264.5	12.1	5.25	GAL
COCHISE	LAMCAP	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	367.09	GAL	2069	0.16	0.59	GAL
COCHISE	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	5.30	GAL	175	0.16	0.01	GAL
COCHISE	SILENCER	INSECTICIDE	66222	104	0	lambda-Cyhalothrin	31.20	GAL	536	0.16	0.05	GAL
COCHISE	LAMBDA-CY EC INSECTICIDE-RUP	INSECTICIDE	70506	121	0	lambda-Cyhalothrin	450.37	GAL	3670	0.16	0.72	GAL
COCHISE	IMPACT HERBICIDE	HERBICIDE	5481	524	0	Methanone, [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-	145.70	GAL	1360	29.7	43.27	GAL
COCHISE	DUPONT LANNATE LV INSECTICIDE	INSECTICIDE	352	384	0	Methomyl	15.00	GAL	80	90	13.50	GAL
COCHISE	INTREPID 2F	INSECTICIDE	62719	442	0	Methoxyfenozide	25.31	GAL	376	22.6	5.72	GAL
COCHISE	DUPONT CINCH ATZ LITE HERBICIDE	HERBICIDE	352	623	0	S-Metolachlor	112.50	GAL	300	19	21.38	GAL
COCHISE	GINSTAR EC COTTON DEFOLIANT	DEFOLIANT	264	634	0	Thidiazuron	169.80	GAL	2770	12	20.38	GAL
COCHISE	REDI-PIK 1.5EC COTTON DEFOLIANT	DEFOLIANT	264	634	66222	Thidiazuron	2.50	GAL	50	12	0.30	GAL
GRAHAM	AGRISOLUTIONS 2,4-D AMINE 4	HERBICIDE	1381	103	0	2,4-D, dimethylamine salt	27.50	GAL	330	3.2	0.88	GAL
GRAHAM	CLARITY HERBICIDE	HERBICIDE	7969	137	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	40.00	GAL	850	56.8	22.72	GAL
GRAHAM	AIM EC HERBICIDE	HERBICIDE	279	3241	0	Carfentrazone-ethyl	0.25	GAL	55	22.3	0.06	GAL
GRAHAM	BASF RAPTOR HERBICIDE	HERBICIDE	241	379	0	Imazamox	13.72	GAL	430	12.1	1.66	GAL
GRAHAM	LAMCAP	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	14.40	GAL	480	0.16	0.02	GAL
GRAHAM	LAMBDA-CY EC INSECTICIDE-RUP	INSECTICIDE	70506	121	0	lambda-Cyhalothrin	16.00	GAL	360	0.16	0.03	GAL
GRAHAM	INTREPID 2F	INSECTICIDE	62719	442	0	Methoxyfenozide	30.00	GAL	480	22.6	6.78	GAL
LA PAZ	AMINE 4 2,4-D WEED KILLER	HERBICIDE	34704	120	0	2,4-D, dimethylamine salt	45.00	GAL	281	3.2	1.44	GAL
LA PAZ	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	HERBICIDE	71368	1	0	2,4-D, dimethylamine salt	221.09	GAL	1214.62	3.2	7.07	GAL
LA PAZ	PURSUIT HERBICIDE	HERBICIDE	241	310	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-	125.99	GAL	4422.48	22.9	28.85	GAL

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
						imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid						
LA PAZ	ABOUND FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	31.49	GAL	612.65	8.3	2.61	GAL
LA PAZ	QUADRIIS FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	119.63	GAL	2180.53	8.3	9.93	GAL
LA PAZ	CLARITY HERBICIDE	HERBICIDE	7969	137	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	2.50	GAL	144	56.8	1.42	GAL
LA PAZ	AIM EC HERBICIDE	HERBICIDE	279	3241	0	Carfentrazone-ethyl	4.08	GAL	407.1	22.3	0.91	GAL
LA PAZ	DUPONT CORAGEN INSECT CONTROL	INSECTICIDE	352	729	0	Chlorantraniliprole	0.68	GAL	39.1	18.4	0.13	GAL
LA PAZ	VALENT VENOM INSECTICIDE	INSECTICIDE	59639	135	0	Dinotefuran	91.50	GAL	1951.9	0.25	0.23	GAL
La PAZ	DETERMINE 4L LIQUID FLOWABLE HERBICIDE	HERBICIDE	66222	54	0	Diuron	0.99	GAL	79	6	0.06	GAL
La PAZ	PARROT 4L LIQUID FLOWABLE HERBICIDE	HERBICIDE	66222	54	0	Diuron	3.97	GAL	254	6	0.24	GAL
LA PAZ	ADIOS COTTON DEFOLIANT	DEFOLIANT	66330	344	0	Diuron	96.42	GAL	1019.28	6	5.79	GAL
LA PAZ	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	181.21	GAL	9455.54	50	90.60	GAL
La PAZ	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	24.04	LBS	176.9	50	12.02	LBS
LA PAZ	BASF RAPTOR HERBICIDE	HERBICIDE	241	379	0	Imazamox	642.24	GAL	5860.46	12.1	77.71	GAL
LA PAZ	WIDOW INSECTICIDE	INSECTICIDE	34704	893	0	Imidacloprid	95.40	GAL	763.2	8.8	8.40	GAL
LA PAZ	SCIMITAR GC INSECTICIDE	INSECTICIDE	100	1088	0	lambda-Cyhalothrin	564.96	OZS	94.16	0.16	0.90	OZS
LA PAZ	LAMCAP	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	103.90	GAL	3772.95	0.16	0.17	GAL
LA PAZ	PROVINCE INSECTICIDE	INSECTICIDE	100	1112	55467	lambda-Cyhalothrin	34.99	GAL	1492.83	0.16	0.06	GAL
La PAZ	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	32.31	GAL	1214.4	0.16	0.05	GAL
LA PAZ	WARRIOR II WITH ZEON TECHNOLOGY INSECTICIDE	INSECTICIDE	100	1295	0	lambda-Cyhalothrin	116.15	GAL	9193.19	0.16	0.19	GAL
LA PAZ	SILENCER	INSECTICIDE	66222	104	0	lambda-Cyhalothrin	252.64	GAL	8879.4	0.16	0.40	GAL
LA PAZ	LAMBDA-CY EC INSECTICIDE-RUP	INSECTICIDE	70506	121	0	lambda-Cyhalothrin	133.34	GAL	5159.68	0.16	0.21	GAL
La PAZ	INTREPID 2F	INSECTICIDE	62719	442	0	Methoxyfenozide	416.51	GAL	11111.44	22.6	94.13	GAL
LA PAZ	GINSTAR EC COTTON DEFOLIANT	DEFOLIANT	264	634	0	Thidiazuron	471.18	GAL	5008.82	12	56.54	GAL
LA PAZ	REDI-PIK 1.5EC COTTON DEFOLIANT	DEFOLIANT	264	634	66222	Thidiazuron	84.91	GAL	1074	12	10.19	GAL
LA PAZ	REDI-PIK1.5EC COTTON DEFOLIANT	DEFOLIANT	66222	137	0	Thidiazuron	7.30	GAL	233.7	12	0.88	GAL

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
MARICOPA	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	HERBICIDE	71368	1	0	2,4-D, dimethylamine salt	137.38	GAL	860.7	3.2	4.40	GAL
MARICOPA	UNISON	HERBICIDE	5905	542	0	2-4,D	62.50	GAL	230	0.6	0.38	GAL
MARICOPA	THUNDER	HERBICIDE	42750	146	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid	3.00	GAL	147	22.9	0.69	GAL
MARICOPA	PURSUIT HERBICIDE	HERBICIDE	241	310	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid	95.67	GAL	3021.1	22.9	21.91	GAL
MARICOPA	AATREX 4L HERBICIDE	HERBICIDE	100	497	0	Atrazine	364.95	GAL	1437.5	50.5	184.30	GAL
MARICOPA	DREXEL ATRAZINE 4L HERBICIDE	HERBICIDE	19713	11	0	Atrazine	274.51	GAL	1154.3	50.5	138.63	GAL
MARICOPA	ATRAZINE 4L HERBICIDE	HERBICIDE	34704	69	0	Atrazine	149.50	GAL	598	50.5	75.50	GAL
MARICOPA	ABOUND FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	41.00	GAL	429.2	8.3	3.40	GAL
MARICOPA	QUADRIIS FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	261.93	GAL	2821.4	8.3	21.74	GAL
MARICOPA	CLARITY HERBICIDE	HERBICIDE	7969	137	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	104.54	GAL	2042.6	56.8	59.38	GAL
MARICOPA	SEVIN 5 BAIT	INSECTICIDE	2935	366	0	Carbaryl	1365.93	LBS	182.6	1.3	17.76	LBS
MARICOPA	AIM EC HERBICIDE	HERBICIDE	279	3241	0	Carfentrazone-ethyl	20.75	GAL	2735.9	22.3	4.63	GAL
MARICOPA	AIM EW HERBICIDE	HERBICIDE	279	3242	0	Carfentrazone-ethyl	0.50	GAL	104.5	21.3	0.11	GAL
MARICOPA	DUPONT CORAGEN INSECT CONTROL	INSECTICIDE	352	729	0	Chlorantraniliprole	22.28	GAL	638.31	18.4	4.10	GAL
MARICOPA	RIDOMIL GOLD SL FUNGICIDE	FUNGICIDE	100	1202	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	5.00	GAL	157.2	3.7	0.18	GAL
MARICOPA	VALENT VENOM INSECTICIDE	INSECTICIDE	59639	135	0	Dinotefuran	103.58	GAL	2651.6	0.25	0.26	GAL
MARICOPA	DREXEL DIURON 4L	HERBICIDE	19713	36	0	Diuron	93.91	GAL	751.3	6	5.63	GAL

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
MARICOPA	DIURON 4L HERBICIDE	HERBICIDE	34704	854	0	Diuron	114.73	GAL	458.9	6	6.88	GAL
MARICOPA	ADIOS COTTON DEFOLIANT	DEFOLIANT	66330	344	0	Diuron	329.75	GAL	5254.31	6	19.78	GAL
MARICOPA	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	663.65	GAL	20380.93	50	331.83	GAL
MARICOPA	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	832.91	LBS	2363.34	50	416.46	LBS
MARICOPA	SANDEA HERBICIDE	HERBICIDE	10163	254	0	Halosulfuron-methyl	6.00	OZS	6	75	4.50	OZS
MARICOPA	BASF RAPTOR HERBICIDE	HERBICIDE	241	379	0	Imazamox	89.73	GAL	2881.27	12.1	10.86	GAL
MARICOPA	ADMIRE 2 FLOWABLE INSECTICIDE (SLN AZ-040003)	INSECTICIDE	264	758	0	Imidacloprid	105.90	GAL	847.2	8.8	9.32	GAL
MARICOPA	PROVADO 1.6 FLOWABLE INSECTICIDE	INSECTICIDE	264	763	0	Imidacloprid	20.79	GAL	707	8.8	1.83	GAL
MARICOPA	WIDOW INSECTICIDE	INSECTICIDE	34704	893	0	Imidacloprid	188.20	GAL	1505.6	8.8	16.56	GAL
MARICOPA	LAMCAP	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	29.13	GAL	940.8	0.16	0.05	GAL
MARICOPA	PROVINCE INSECTICIDE	INSECTICIDE	100	1112	55467	lambda-Cyhalothrin	89.94	GAL	3461.87	0.16	0.14	GAL
MARICOPA	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	132.82	GAL	4256.9	0.16	0.21	GAL
MARICOPA	WARRIOR II WITH ZEON TECHNOLOGY INSECTICIDE	INSECTICIDE	100	1295	0	lambda-Cyhalothrin	11.91	GAL	854.2	0.16	0.02	GAL
MARICOPA	SILENCER	INSECTICIDE	66222	104	0	lambda-Cyhalothrin	210.73	GAL	5364.2	0.16	0.34	GAL
MARICOPA	LAMBDA-CY EC INSECTICIDE	INSECTICIDE	70506	120	0	lambda-Cyhalothrin	37.00	GAL	1385.1	0.16	0.06	GAL
MARICOPA	LAMBDA-CY EC INSECTICIDE-RUP	INSECTICIDE	70506	121	0	lambda-Cyhalothrin	382.34	GAL	11647.56	0.16	0.61	GAL
MARICOPA	REVUS	FUNGICIDE	100	1254	0	Mandipropamide Technical	30.41	GAL	497	23.3	7.09	GAL
MARICOPA	DUPONT LANNATE SP INSECTICIDE	INSECTICIDE	352	342	0	Methomyl	38.00	LBS	37	90	34.20	LBS
MARICOPA	INTREPID 2F	INSECTICIDE	62719	442	0	Methoxyfenozide	542.92	GAL	5257.9	22.6	122.70	GAL
MARICOPA	METRI DF 75% FLOWABLE HERBICIDE	HERBICIDE	70506	103	0	Metribuzin	17000.00	OZS	250	75	12750.00	OZS
MARICOPA	DUPONT ACCENT Q HERBICIDE	HERBICIDE	352	773	0	Nicosulfuron	18.81	OZS	20.9	56.2	10.57	OZS
MARICOPA	DUPONT™ PASTORA® HERBICIDE	HERBICIDE	352	819	0	Nicosulfuron	73.50	OZS	49	56.2	41.31	OZS
MARICOPA	COTTON PRO	HERBICIDE	66222	15	0	Prometryn	76.26	GAL	610.1	44.4	33.86	GAL
MARICOPA	VEGETABLE PRO HERBICIDE	HERBICIDE	66222	15	0	Prometryn	17.65	GAL	141.2	44.4	7.84	GAL
MARICOPA	GINSTAR EC COTTON DEFOLIANT	DEFOLIANT	264	634	0	Thidiazuron	209.81	GAL	3134.5	12	25.18	GAL
MARICOPA	REDI-PIK 1.5EC COTTON DEFOLIANT	DEFOLIANT	264	634	66222	Thidiazuron	311.86	GAL	4092.95	12	37.42	GAL
MARICOPA	REDI-PIK1.5EC COTTON DEFOLIANT	DEFOLIANT	66222	137	0	Thidiazuron	287.13	GAL	3414.3	12	34.46	GAL
MOHAVE	BASF RAPTOR HERBICIDE	HERBICIDE	241	379	0	Imazamox	9.28	GAL	296.8	12.1	1.12	GAL

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
MOHAVE	LAMBDA-CY EC INSECTICIDE-RUP	INSECTICIDE	70506	121	0	lambda-Cyhalothrin	1.02	GAL	34	0.16	0.00	GAL
MOHAVE	INTREPID 2F	INSECTICIDE	62719	442	0	Methoxyfenozide	20.84	GAL	681.4	22.6	4.71	GAL
MOHAVE	GINSTAR EC COTTON DEFOLIANT	DEFOLIANT	264	634	0	Thidiazuron	6.00	GAL	96	12	0.72	GAL
PIMA	AMINE 4 2,4-D WEED KILLER	HERBICIDE	34704	120	0	2,4-D, dimethylamine salt	1.00	GAL	8	3.2	0.03	GAL
PIMA	QUADRI FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	3.00	GAL	28	8.3	0.25	GAL
PIMA	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	36.26	GAL	1680	50	18.13	GAL
PIMA	KARATE INSECTICIDE	INSECTICIDE	100	998	0	lambda-Cyhalothrin	130.00	LBS	520	0.16	0.21	LBS
PIMA	LAMBDA-CY EC INSECTICIDE-RUP	INSECTICIDE	70506	121	0	lambda-Cyhalothrin	0.90	GAL	23	0.16	0.00	GAL
PIMA	VEGETABLE PRO HERBICIDE	HERBICIDE	66222	15	0	Prometryn	58.85	GAL	220	44.4	26.13	GAL
PIMA	ACTARA INSECTICIDE	INSECTICIDE	100	938	0	Thiamethoxam	240.12	OZS	46	0.4	0.96	OZS
PIMA	GINSTAR EC COTTON DEFOLIANT	DEFOLIANT	264	634	0	Thidiazuron	111.87	GAL	1790	12	13.42	GAL
PIMA	REDI-PIK 1.5EC COTTON DEFOLIANT	DEFOLIANT	264	634	66222	Thidiazuron	425.71	GAL	3743.3	12	51.09	GAL
PINAL	AMINE 4 2,4-D WEED KILLER	HERBICIDE	34704	120	0	2,4-D, dimethylamine salt	39.00	GAL	305	3.2	1.25	GAL
PINAL	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	HERBICIDE	71368	1	0	2,4-D, dimethylamine salt	22.50	GAL	190	3.2	0.72	GAL
PINAL	PURSUIT HERBICIDE	HERBICIDE	241	310	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid	258.76	GAL	7160.55	22.9	59.26	GAL
PINAL	AGRISOLUTIONS ATRAZINE 4L	HERBICIDE	1381	158	0	Atrazine	28.75	GAL	95.83	50.5	14.52	GAL
PINAL	AATREX 4L HERBICIDE	HERBICIDE	100	497	0	Atrazine	1857.25	GAL	5909.4	50.5	937.91	GAL
PINAL	DREXEL ATRAZINE 4L HERBICIDE	HERBICIDE	19713	11	0	Atrazine	121.43	GAL	448.9	50.5	61.32	GAL
PINAL	ATRAZINE 4L HERBICIDE	HERBICIDE	34704	69	0	Atrazine	8.30	GAL	33.2	50.5	4.19	GAL
PINAL	ABOUND FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	0.86	GAL	10	8.3	0.07	GAL
PINAL	QUADRI FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	174.29	GAL	1995	8.3	14.47	GAL
PINAL	QUADRI S	FUNGICIDE	100	1222	0	Azoxystrobin	23.80	PTS	35	8.3	1.98	PTS
PINAL	ABOUND FLOWABLE FUNGICIDE	FUNGICIDE	10182	415	0	Azoxystrobin	17.74	GAL	211	8.3	1.47	GAL
PINAL	CLARITY HERBICIDE	HERBICIDE	7969	137	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	38.20	GAL	946.06	56.8	21.70	GAL

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
PINAL	STRUT HERBICIDE	HERBICIDE	34704	1043	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	13.03	GAL	534	56.8	7.40	GAL
PINAL	BROCLEAN	HERBICIDE	34704	891	0	Bromoxynil octanoate	152.16	OZS	25.36	18.7	28.45	OZS
PINAL	SEVIN 80 WSP CARBARYL INSECTICIDE	INSECTICIDE	432	1226	0	Carbaryl	20.00	LBS	20	1.3	0.26	LBS
PINAL	AIM EC HERBICIDE	HERBICIDE	279	3241	0	Carfentrazone-ethyl	95.79	GAL	8398.38	22.3	21.36	GAL
PINAL	AIM EW HERBICIDE	HERBICIDE	279	3242	0	Carfentrazone-ethyl	60.00	OZS	120	21.3	12.78	OZS
PINAL	DEPONT CALTERYX MANUFACTURING CONCENTRATE	INSECTICIDE	352	771	0	Chlorantraniliprole	150.00	OZS	148.3	12.5	18.75	OZS
PINAL	VALENT VENOM INSECTICIDE	INSECTICIDE	59639	135	0	Dinotefuran	1.59	GAL	68	0.25	0.00	GAL
PINAL	Dupont Direx 4l herbicide	HERBICIDE	352	678	0	Diuron	821.70	GAL	2866.8	6	49.30	GAL
PINAL	DREXEL DIURON 4L	HERBICIDE	19713	36	0	Diuron	35.73	GAL	142.9	6	2.14	GAL
PINAL	DIURON 4L HERBICIDE	HERBICIDE	34704	854	0	Diuron	857.53	GAL	3430.1	6	51.45	GAL
PINAL	LAYBY™ PRO HERBICIDE	HERBICIDE	61842	20	0	Diuron	81.26	GAL	325.03	6	4.88	GAL
PINAL	ADIOS COTTON DEFOLIANT	DEFOLIANT	66330	344	0	Diuron	34.43	GAL	1628.9	6	2.07	GAL
PINAL	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	2450.63	GAL	102380.4	50	1225.31	GAL
PINAL	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	972.72	LBS	360	50	486.36	LBS
PINAL	IGNITE	HERBICIDE	264	829	0	Glufosinate	7121.30	GAL	367	24.5	1744.72	GAL
PINAL	BASF BEYOND HERBICIDE/CLEARFIELD PRODUCTION SYSTEM	HERBICIDE	241	379	0	Imazamox	354.00	OZS	59	12.1	42.83	OZS
PINAL	BASF RAPTOR HERBICIDE	HERBICIDE	241	379	0	Imazamox	217.22	GAL	5416.95	12.1	26.28	GAL
PINAL	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	INSECTICIDE	100	1112	0	lambda-Cyhalothrin	43.85	GAL	1472.7	0.16	0.07	GAL
PINAL	WARRIOR II WITH ZEON TECHNOLOGY INSECTICIDE	INSECTICIDE	100	1295	0	lambda-Cyhalothrin	229.01	GAL	14865.01	0.16	0.37	GAL
PINAL	LAMBDA-CY EC INSECTICIDE-RUP	INSECTICIDE	70506	121	0	lambda-Cyhalothrin	1482.31	GAL	16678.64	0.16	2.37	GAL
PINAL	OSPREY HERBICIDE	HERBICIDE	264	802	0	Mesosulfuron-methyl	579.59	GAL	1214.6	4.5	26.08	GAL
PINAL	INTREPID 2F	INSECTICIDE	62719	442	0	Methoxyfenozide	264.65	GAL	5126.53	22.6	59.81	GAL
PINAL	COTTON-PRO HERBICIDE	HERBICIDE	1812	274	0	Prometryn	65.00	GAL	206	44.4	28.86	GAL
PINAL	VEGETABLE PRO HERBICIDE	HERBICIDE	66222	15	0	Prometryn	29.90	GAL	115	44.4	13.28	GAL
PINAL	CENTRIC 40WG INSECTICIDE	INSECTICIDE	100	1147	0	Thiamethoxam	632.75	OZS	253.1	0.4	2.53	OZS

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
PINAL	GINSTAR EC COTTON DEFOLIANT	DEFOLIANT	264	634	0	Thidiazuron	1570.43	GAL	18758.04	12	188.45	GAL
PINAL	REDI-PIK 1.5EC COTTON DEFOLIANT	DEFOLIANT	264	634	66222	Thidiazuron	1723.05	GAL	19793.73	12	206.77	GAL
PINAL	REDI-PIK1.5EC COTTON DEFOLIANT	DEFOLIANT	66222	137	0	Thidiazuron	466.36	GAL	6189.09	12	55.96	GAL
YUMA	ACTIGARD 50 WG PLANT ACTIVATOR	MILDEWSTAT	100	922	0	1,2,3-Benzothiadiazole-7-carbothioic acid, S-methyl ester	158.28	LBS	3379.16	50	79.14	LBS
YUMA	BLOCKADE 50 WG PLANT ACTIVATOR	FUNGICIDE	100	922	0	1,2,3-Benzothiadiazole-7-carbothioic acid, S-methyl ester	150.79	LBS	3212.04	50	75.40	LBS
YUMA	FULFILL INSECTICIDE	INSECTICIDE	100	912	0	1,2,4-Triazin-3(2H)-one, 4,5-dihydro-6-methyl-4-((3-pyridinylmethylene)amino)-, (E)-	137.05	LBS	678.07	50	68.53	LBS
YUMA	NUFARM WEEDAR 64 BROADLEAF HERBICIDE	HERBICIDE	71368	1	0	2,4-D, dimethylamine salt	80.00	GAL	473	3.2	2.56	GAL
YUMA	PURSUIT HERBICIDE	HERBICIDE	241	310	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid	81.26	GAL	2692.5	22.9	18.61	GAL
YUMA	THUNDER	HERBICIDE	42750	146	0	Ammonium salt of (+/-)-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid	24.55	GAL	844	22.9	5.62	GAL
YUMA	AATREX 4L HERBICIDE	HERBICIDE	100	497	0	Atrazine	24.00	GAL	80	50.5	12.12	GAL
YUMA	AGRSOLUTIONS ATRAZINE 4L	HERBICIDE	1381	158	0	Atrazine	1.83	GAL	7.1	50.5	0.92	GAL
YUMA	ABOUND FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	35.95	GAL	421.83	8.3	2.98	GAL
YUMA	QUADRIIS FLOWABLE FUNGICIDE	FUNGICIDE	100	1098	0	Azoxystrobin	63.90	GAL	768.51	8.3	5.30	GAL
YUMA	AGRSOLUTIONS STERLING BLUE HERBICIDE	HERBICIDE	7969	137	1381	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	15.00	GAL	473	56.8	8.52	GAL

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
YUMA	CLARITY HERBICIDE	HERBICIDE	7969	137	0	Benzoic acid, 3,6-dichloro-2-methoxy-, compd with 2-(2-aminoethoxy)ethanol (1:1)	97.47	GAL	1020.9	56.8	55.36	GAL
YUMA	SEVIN 5 BAIT	INSECTICIDE	2935	366	0	Carbaryl	1200.02	LBS	72	1.3	15.60	LBS
YUMA	AIM EC HERBICIDE	HERBICIDE	279	3241	0	Carfentrazone-ethyl	118.72	GAL	13158.06	22.3	26.47	GAL
YUMA	AIM EC HERBICIDE	HERBICIDE	279	3241	0	Carfentrazone-ethyl	950.10	LBS	316.7	22.3	211.87	LBS
YUMA	AIM EW HERBICIDE	HERBICIDE	279	3242	0	Carfentrazone-ethyl	0.13	GAL	66.9	21.3	0.03	GAL
YUMA	AIM EW HERBICIDE	HERBICIDE	279	3242	0	Carfentrazone-ethyl	1075.44	OZS	1190.3	21.3	229.07	OZS
YUMA	DUPONT CORAGEN INSECT CONTROL	INSECTICIDE	352	729	0	Chlorantraniliprole	172.40	GAL	5570.44	18.4	31.72	GAL
YUMA	RIDOMIL GOLD SL FUNGICIDE	FUNGICIDE	100	1202	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	197.36	GAL	6851	3.7	7.30	GAL
YUMA	RIDOMIL GOLD BRAVO	FUNGICIDE	100	800	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	5.00	LBS	3.5	3.7	0.19	LBS
YUMA	RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	FUNGICIDE	100	801	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	2.19	GAL	92.45	3.7	0.08	GAL
YUMA	RIDOMIL GOLD EC	FUNGICIDE	100	801	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	1.06	GAL	35.87	3.7	0.04	GAL
YUMA	RIDOMIL GOLD SL FUNGICIDE	FUNGICIDE	100	1202	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	390.00	LBS	122.8	3.7	14.43	LBS
YUMA	RIDOMIL GOLD BRAVO SC FUNGICIDE	FUNGICIDE	100	1221	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	340.24	GAL	1204.39	3.7	12.59	GAL

Table 7: Reported Use of Pesticides in Arizona by County – January 1, 2011 – December 31, 2011

County	Product Brand Name	Type	EPA1	EPA2	EPA3	Active Ingredient	Chemical Totals	Units	Acres	%AI	Total AI Applied	Units
						ester						
YUMA	ULTRA FLOURISH AGRICULTURAL FUNGICIDE	FUNGICIDE	55146	73	0	D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	700.89	GAL	2126.48	3.7	25.93	GAL
YUMA	FORUM FUNGICIDE	FUNGICIDE	241	427	0	Dimethomorph	1110.26	GAL	21655.36	43.5	482.96	GAL
YUMA	FORUM FUNGICIDE	FUNGICIDE	241	427	0	Dimethomorph	75.22	LBS	125.9	43.5	32.72	LBS
YUMA	SCORPION™ 35SL INSECTICIDE	INSECTICIDE	10163	317	0	Dinotefuran	101.63	GAL	2088.94	0.25	0.25	GAL
YUMA	VALENT VENOM INSECTICIDE	INSECTICIDE	59639	135	0	Dinotefuran	408.00	GAL	9627.7	0.25	1.02	GAL
YUMA	VALENT VENOM INSECTICIDE	INSECTICIDE	59639	135	0	Dinotefuran	49.02	LBS	260.56	0.25	0.12	LBS
YUMA	Dupont Direx 4l herbicide	HERBICIDE	352	678	0	Diuron	10.38	GAL	415	6	0.62	GAL
YUMA	ADIOS COTTON DEFOLIANT	DEFOLIANT	66330	344	0	Diuron	105.11	GAL	975.6	6	6.31	GAL
YUMA	PROCLAIM INSECTICIDE	INSECTICIDE	100	904	0	Emamectin benzoate	400.19	GAL	295.6	5	20.01	GAL
YUMA	PROCLAIM INSECTICIDE	INSECTICIDE	100	904	0	Emamectin benzoate	2912.65	LBS	12064.02	5	145.63	LBS
YUMA	THIONEX 3EC	INSECTICIDE	66222	63	0	Endosulfan	2047.54	GAL	7328.23	34	696.16	GAL
YUMA	THIONEX 3EC	INSECTICIDE	66222	63	0	Endosulfan	2.50	LBS	10	34	0.85	LBS
YUMA	THIONEX 3EC	INSECTICIDE	70506	121	0	Endosulfan	0.59	GAL	19.6	34	0.20	GAL
YUMA	CARBINE 50 WG INSECTICIDE	INSECTICIDE	71512	9	279	Flonicamid	447.52	GAL	7232.41	50	223.76	GAL
YUMA	BELEAF 50SG INSECTICIDE	INSECTICIDE	71512	10	279	Flonicamid	33.32	GAL	1341.65	50	16.66	GAL
YUMA	BELEAF 50SG INSECTICIDE	INSECTICIDE	71512	10	279	Flonicamid	1423.96	LBS	8672.54	50	711.98	LBS
YUMA	ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	INSECTICIDE	71512	10	0	Flonicamid	4.36	GAL	24.89	50	2.18	GAL
YUMA	ISK BIOSCIENCE BELEAF 50SG INSECTICIDE	INSECTICIDE	71512	10	0	Flonicamid	20.06	LBS	114.58	50	10.03	LBS

Legend:

H = Herbicide

F = Fungicide

O = Ovicides

R = Regulator

I = Insecticide

M = Miticides

N = Nematicide

D = Defoliant

