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2006 PESTICIDES ANNUAL REPORT

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

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 1987. The major objective of the program is to prevent or eliminate groundwater contamination 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 generate the Groundwater Protection List (GWPL).
- 2) Groundwater Protection List – The GWPL is a list of agricultural pesticides that have the potential to contaminate the groundwater based on product chemistry and environmental fate data and the monitoring results of the corresponding active ingredients.
- 3) Monitoring – ADEQ, in cooperation with the Arizona Department of Agriculture, monitors groundwater and soils in agricultural areas throughout the state for the presence of agricultural-use pesticide active ingredients on the GWPL.
- 4) Compilation of data – ADEQ collects and reports product use information for soil applied agricultural pesticides on the GWPL.

This report which covers calendar year 2005 is in fulfillment of a final requirement pursuant to A.R.S. § 49-303.C that ADEQ shall report the following information to the legislature annually:

- 1) A list of agricultural-use pesticide active ingredients 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 SNVs presented in Table 1 (A.R.S. § 49-303.C.2), or determined by an adopted alternative procedure to have the potential to pollute groundwater (A.R.S. § 49-303.C.3).
- 3) The use information on agricultural pesticides on the GWPL that have been soil applied in the state during the most recent year, and the county where the pesticide was applied and for what purpose (A.R.S. § 49-303.C4).

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 shall submit the product chemistry and environmental fate data of the associated active ingredients to ADEQ for review and approval. If an agricultural use pesticide is registered without ADEQ's review and approval, a groundwater protection data gap will exist. The Arizona Department of Agriculture will cancel the registration of any pesticide found to have a groundwater protection data gap.

Between 1987 when the program was first implemented and December 31, 2005, a total of 266 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 gaps for any of the active ingredients associated with the agricultural-use pesticides registered in the state for 2005.

Specific Numeric Values (SNVs)

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

Table 1: Specific Numeric Values	
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 November 2005, ADEQ adopted new rules (A.A.C. R18-6-103.2) in accordance with (A.R.S. § 49-303.C.3) that described procedures for alternative data submittal options. Under these options, the pesticide registrant can submit additional information in support of the pesticide registration (A.A.C. R18-6-102.C). In addition, the alternative evaluation procedure allows for consideration of new scientific approaches in determining the pollution potential of agricultural-use pesticides. The implementation of the new rules took effect in November 12, 2005.

Table 2: Agricultural Pesticides on the Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
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
AGRSOLUTIONS E-99	62719	365	1381	94-75-7	2,4-D Acid
AGRSOLUTIONS 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

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	EPA1	EPA2	EPA3		
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
AGRSOLUTIONS 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
AGRSOLUTIONS BRASH	51036	308	9779	2008-39-1	2,4-D Dimethylamine Salt
AGRSOLUTIONS 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
AGRSOLUTIONS 2,4-D AMINE 4	1381	103		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S TRIMEC BROADLEAF HERBICIDE - CLASSIC	2217	543		2008-39-1	2,4-D Dimethylamine Salt
DRY SOLUBLE HERBICIDE SAVAGE	34704	606		2008-39-1	2,4-D Dimethylamine Salt
DUPONT CIMARRON MAX HERBICIDE	352	615		2008-39-1	2,4-D Dimethylamine Salt
ENDRUN	2217	656	5905	2008-39-1	2,4-D Dimethylamine Salt
GORDON'S BRUSH KILLER	2217	543		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S GLYPHO MATE 41	2217	847		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S PASTURE PRO HERBICIDE	2217	703		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S TRIMEC 992 BROADLEAF HERBICIDE	2217	656		2008-39-1	2,4-D Dimethylamine Salt

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Brand Name	CAS			NUMBER	ACTIVE INGREDIENT
	EPA1	EPA2	EPA3		
BANVEL +2, 4-D HERBICIDE	51036	308		2008-39-1	2,4-D Dimethylamine Salt
DUPONT CIMARRON MAX PART B HERBICIDE	352	614		2008-39-1	2,4-D Dimethylamine Salt
GORDON'S SpeedZone BROADLEAF HERBICIDE FOR TURF	2217	833		533-23-3	2,4-D Ethylhexyl Ester
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		533-23-3	2,4-D Ethylhexyl Ester
BARRAGE HF	5905	529		533-23-3	2,4-D Ethylhexyl Ester
SWB 2,4-D LV4	42750	22	9779	25168-26-7	2,4-D Isooctyl Ester
NUFARM WEEDONE LV4 SOLVENTLESS BROADLEAF HERBICIDE	71368	14		25168-26-7	2,4-D Isooctyl Ester
AGSCO--AGSCO 400 HERBICIDE	554	83		25168-26-7	2,4-D Isooctyl Ester
NUFARM WEEDONE LV6 EC BROADLEAF HERBICIDE	71368	11		25168-26-7	2,4-D Isooctyl Ester
SHUTOUT	2217	869	5905	25168-26-7	2,4-D Isooctyl Ester
LEFFINGWELL-HIVOL-44 PLANT GROWTH REGULATOR	64864	31		94-11-1	2,4-D Isopropyl Ester
HIVOL-44	5481	509		94-11-1	2,4-D Isopropyl Ester
TORDON RTU	62719	31		32341-80-3	2,4-D Triisopropanolamine Salt
LESCO MOMENTUM FX2 HERBICIDE	228	447	10404	32341-80-3	2,4-D Triisopropanolamine Salt
RIVERDALE ESCALADE LOW ODOR	228	416		32341-80-3	2,4-D Triisopropanolamine Salt
TORDON 101 MIXTURE	62719	5		32341-80-3	2,4-D Triisopropanolamine Salt
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		32341-80-3	2,4-D Triisopropanolamine Salt
ACTIGARD 50 WG PLANT ACTIVATOR	100	922		135158-54-2	Acibenzolar-S-Methyl
AATREX NINE-O HERBICIDE	100	585		1912-24-9	Atrazine
READY MASTER ATZ HERBICIDE	524	509		1912-24-9	Atrazine
ESTABLISH LITE HERBICIDE	7969	200	55467	1912-24-9	Atrazine
ESTABLISH ATZ HERBICIDE	7969	192	55467	1912-24-9	Atrazine
DUPONT STEADFAST ATZ HERBICIDE	352	619		1912-24-9	Atrazine
AATREX 4L HERBICIDE	100	497		1912-24-9	Atrazine
AATREX NINE-O HERBICIDE	100	585		1912-24-9	Atrazine
AGRISOLUTIONS STERLING PLUS	51036	307	9779	1912-24-9	Atrazine
AGRISOLUTIONS ATRAZINE 4L	1381	158		1912-24-9	Atrazine
DREXEL ATRAZINE 4L HERBICIDE	19713	11		1912-24-9	Atrazine
BROMOXYNIL + ATRAZINE HERBICIDE	264	477	66222	1912-24-9	Atrazine
BASF GUARDSMAN MAX HERBICIDE	7969	192		1912-24-9	Atrazine
BASF G-MAX LITE HERBICIDE	7969	200		1912-24-9	Atrazine
AXIOM AT DF HERBICIDE	264	769		1912-24-9	Atrazine
AGRISOULTIONS ATRAZINE 90DF	9779	253		1912-24-9	Atrazine
ATRAZINE 4L HERBICIDE	34704	69		1912-24-9	Atrazine

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Brand Name	EPA			CAS	ACTIVE INGREDIENT
	EPA1	EPA2	EPA3	NUMBER	
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
QUADRIS FLOWABLE FUNGICIDE	100	1098		131860-33-8	Azoxystrobin
QUADRIS 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
QUADRIS 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 POISON BAIT	10163	32		63-25-2	Carbaryl
SEVIN BRAND RP4 CARBARYL INSECTICIDE	264	335		63-25-2	Carbaryl
SEVIN 5 BAIT	34704	23		63-25-2	Carbaryl
SEVIN BRAND XLR PLUS CARBARYL	264	333		63-25-2	Carbaryl

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Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
INSECTICIDE					
SEVIN SL CARBARYL INSECTICIDE	432	1227		63-25-2	Carbaryl
SEVIN BRAND 80S CARBARYL INSECTICIDE	264	316		63-25-2	Carbaryl
CARBARYL BAIT	34704	483		63-25-2	Carbaryl
ALLPRO CARBARYL 4L	45735	25	769	63-25-2	Carbaryl
SEVIN 80 WSP CARBARYL INSECTICIDE	432	1226		63-25-2	Carbaryl
ALLPRO 10% CARBARYL DUST	769	229		63-25-2	Carbaryl
ALLPRO CARBARYL 50WP	769	972		63-25-2	Carbaryl
ALLPRO CARBARYL 80S	769	574		63-25-2	Carbaryl
CARBARYL BAIT	34704	483		63-25-2	Carbaryl
CARBARYL CUTWORM BAIT	11656	21		63-25-2	Carbaryl
CARBARYL 4L INSECTICIDE	34704	447		63-25-2	Carbaryl
DREXEL CARBARYL 4L	19713	49		63-25-2	Carbaryl
GORDON'S POWER ZONE BROADLEAF HERBICIDE FOR TURF	2217	834		128639-02-1	Carfentrazone-Ethyl
SHUTOUT	2217	869	5905	128639-02-1	Carfentrazone-Ethyl
GORDON'S SpeedZone ST AUGUSTINE FORMULA BROADLEAF HERBICIDE	2217	835		128639-02-1	Carfentrazone-Ethyl
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		128639-02-1	Carfentrazone-Ethyl
AIM EC HERBICIDE	279	3241		128639-02-1	Carfentrazone-Ethyl
AIM EW HERBICIDE	279	3242		128639-02-1	Carfentrazone-Ethyl
AIM HERBICIDE	279	3194		128639-02-1	Carfentrazone-Ethyl
BATTLESHIP PREMIUM SELECTIVE HERBICIDE	228	371	5905	1702-17-6	Clopyralid
LONTREL TURF AND ORNAMENTAL	62719	305		1702-17-6	Clopyralid
TRANSLINE	62719	259		1702-17-6	Clopyralid
STINGER	62719	73		1702-17-6	Clopyralid
RECLAIM	62719	83		1702-17-6	Clopyralid
CONFRONT	62719	92		1702-17-6	Clopyralid
DORMEX	54555	2		420-04-2	Cyanamide
DELTAGARD T&O GRANULAR INSECTICIDE	432	836		52918-63-5	Deltamethrin
DELTA GOLD INSECTICIDE	264	1011	1381	52918-63-5	Deltamethrin
DELTAGARD GC GRANULAR INSECTICIDE	432	837		52918-63-5	Deltamethrin
DELTAGARD GC 5 SC INSECTICIDE	432	835		52918-63-5	Deltamethrin
DELTADUST INSECTICIDE	432	772		52918-63-5	Deltamethrin
DECIS 1.5 EC INSECTICIDE	34147	12	264	52918-63-5	Deltamethrin
DECIS 1.5 EC INSECTICIDE	264	1011		52918-63-5	Deltamethrin
BATTALION 0.2 EC	264	1007	66330	52918-63-5	Deltamethrin
DELTAGARD T&O 5SC INSECTICIDE	432	834		52918-63-5	Deltamethrin
DELTAGARD G INSECTICIDE GRANULE	432	836		52918-63-5	Deltamethrin
ALPHANEX HERBICIDE	264	620	70506	13684-56-5	Desmedipham
PHEN-DES 8+8 HERBICIDE	264	621	70506	13684-56-5	Desmedipham

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Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
PHEN-DES 8 + 8 HERBICIDE	70506	89		13684-56-5	Desmedipham
VANQUISH HERBICIDE	100	884		1918-00-9	Dicamba
RIVERDALE ESCALADE LOW ODOR	228	416		1918-00-9	Dicamba
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		1918-00-9	Dicamba
GORDON'S SpeedZone ST AUGUSTINE FORMULA BROADLEAF HERBICIDE	2217	835		1918-00-9	Dicamba
GORDON'S SPEED ZONE SOUTHERN BROADLEAF HERBICIDE FOR TURF	2217	835		1918-00-9	Dicamba
ESCALADE 2	228	442		1918-00-9	Dicamba
VANQUISH HERBICIDE	100	884		1918-00-9	Dicamba
GORDON'S POWER ZONE BROADLEAF HERBICIDE FOR TURF	2217	834		1918-00-9	Dicamba
RIVERDALE VANQUISH HERBICIDE	228	397		104040-79-1	Dicamba, DGA Salt
DICAM	81142	5		2300-66-5	Dicamba, DMA SALT
PRO-MATE THREE-WAY CS	2217	493	5905	2300-66-5	Dicamba, DMA SALT
PRIMERA TRIPLET LOW ODOR	228	409		2300-66-5	Dicamba, DMA SALT
ORACLE DICAMBA AGRICULTURAL HERBICIDE	70907	12		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC TURF HERBICIDE	2217	517		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC PLUS POST EMERGENT GRASS & BROADLEAF HERBICIDE	2217	709		2300-66-5	Dicamba, DMA SALT
GORDON'S TRIMEC BROADLEAF HERBICIDE - CLASSIC	2217	543		2300-66-5	Dicamba, DMA SALT
RIFLE-D HERBICIDE	34704	869		2300-66-5	Dicamba, DMA SALT
AGRI STAR BY ALBAUGH INC RANGE STAR	42750	55		2300-66-5	Dicamba, DMA SALT
RIVERDALE DIABLO HERBICIDE	228	379		2300-66-5	Dicamba, DMA SALT
GHARDA CHEMICALS LIMITED ORACLE DICAMBA AGRICULTURAL HERBICIDE	33658	14		2300-66-5	Dicamba, DMA SALT
Q4 TURF HERBICIDE FOR GRASSY & BROADLEAF WEEDS	2217	886		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX HERBICIDE	352	615		2300-66-5	Dicamba, DMA SALT
GORDONS TRIMEC 992 BROADLEAF HERBICIDE	2217	656		2300-66-5	Dicamba, DMA SALT
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		2300-66-5	Dicamba, DMA SALT
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		2300-66-5	Dicamba, DMA SALT
STERLING	1381	190		2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS BRASH	51036	308	9779	2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS STERLING	51036	289	9779	2300-66-5	Dicamba, DMA SALT
AGRISOLUTIONS STRIKE 3	14774	2		2300-66-5	Dicamba, DMA SALT
SURGE BROADLEAF HERBICIDE FOR	2217	867		2300-66-5	Dicamba, DMA SALT

Table 2: Agricultural Pesticides on the Groundwater Protection List (GWPL)

Brand Name	CAS			NUMBER	ACTIVE INGREDIENT
	EPA1	EPA2	EPA3		
TURF					
WEEDKING HERBICIDE	70907	20	53883	2300-66-5	Dicamba, DMA SALT
BANVEL HERBICIDE	51036	289		2300-66-5	Dicamba, DMA SALT
DUPONT CIMARRON MAX PART B HERBICIDE	352	614		2300-66-5	Dicamba, DMA SALT
AGRSOLUTIONS STERLING PLUS	51036	307	9779	10007-85-9	Dicamba, Potassium Salt
YUKON HERBICIDE	33906	11	524	1982-69-0	Dicamba, Sodium Salt
DISTINCT HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
OVERDRIVE HERBICIDE	7969	150		1982-69-0	Dicamba, Sodium Salt
STATURE FUNGICIDE, SEPRO	241	411	67690	110488-70-5	Dimethomorph
STATURE DM FUNGICIDE	241	419	67690	110488-70-5	Dimethomorph
FORUM FUNGICIDE	241	427		110488-70-5	Dimethomorph
CABRIO TEAM FUNGICIDE	7969	229		110488-70-5	Dimethomorph
ACROBAT 50WP FUNGICIDE	241	410		110488-70-5	Dimethomorph
VENOM 20 SG INSECTICIDE	33657	17	59639	165252-70-0	Dinetofuran
VALENT VENOM INSECTICIDE	59639	135		165252-70-0	Dinetofuran
SAFARI 20 SG INSECTICIDE	33657	16	59639	165252-70-0	Dinetofuran
AGRSOLUTIONS DIURON 4L	9779	329		330-54-1	Diuron
KARMEX DF HERBICIDE	1812	362		330-54-1	Diuron
DIREX 4L HERBICIDE	1812	257		330-54-1	Diuron
DIURON 80 HERBICIDE	19713	274		330-54-1	Diuron
DUPONT VELPAR ALFAMAX HERBICIDE	352	665		330-54-1	Diuron
DIURON 80 WDG WEED KILLER	34704	648		330-54-1	Diuron
DREXEL DIURON 4L	19713	36		330-54-1	Diuron
DUPONT LAYBY PRO HERBICIDE	352	660		330-54-1	Diuron
BROMACIL/DIURON 40+40 DF HERBICIDE	70506	84		330-54-1	Diuron
AGRSOLUTIONS DIURON TVC 80DF	9779	318		330-54-1	Diuron
THIDIAZURON+DIURON EC COTTON DEFOLIANT	51036	429		330-54-1	Diuron
SUREFIRE	100	1010	34704	330-54-1	Diuron
GRIFFIN KARMEX XP HERBICIDE	1812	362		330-54-1	Diuron
DUPONT VELPAR ALFAMAX GOLD	352	666		330-54-1	Diuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-54-1	Diuron
DIURON 8- WDG WEED KILLER	34704	648		330-54-1	Diuron
PROCLAIM INSECTICIDE	100	904		137512-74-4	Emamectin Benzoate
DENIM INSECTICIDE	100	903		137512-74-4	Emamectin Benzoate
THONEX (ENDOSULFAN) 50WSB	279	3129	66222	115-29-7	Endosulfan
GOWAN ENDOSULFAN 50 WSB	10163	130		115-29-7	Endosulfan
ENDOSULFAN 3 EC	51036	92		115-29-7	Endosulfan
ENDOSULFAN 50WP	51036	91		115-29-7	Endosulfan
FULEX THIODAN INSECTICIDAL SMOKE	1327	35		115-29-7	Endosulfan
GOWAN ENDOSULFAN 50W	10163	98		115-29-7	Endosulfan
PHASER 50WSB INSECTICIDE	264	656		115-29-7	Endosulfan
THIODAN WSB INSECTICIDE	279	3129		115-29-7	Endosulfan
THONEX (ENDOSULFAN) 50W	279	1380	66222	115-29-7	Endosulfan

Table 2: Agricultural Pesticides on the Groundwater Protection List (GWPL)

Brand Name	CAS			NUMBER	ACTIVE INGREDIENT
	EPA1	EPA2	EPA3		
THIONEX 3EC	66222	63		115-29-7	Endosulfan
THIONEX 50W INSECTICIDE	66222	62		115-29-7	Endosulfan
THIONEX (ENDOSULFAN) 3EC	279	2924	66222	115-29-7	Endosulfan
CARBINE 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)
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 F/ CONTROL OF SEEDLING DISEASES	71711	8		66332-96-5	Flutolanil
MONCUT 70-DF FUNGICIDE FOR USE ON PEANUTS, RICE AND POTATOES	71711	14	10163	66332-96-5	Flutolanil
IGNITE 280 SL HERBICIDE	264	829		77182-82-2	Glufosinate-Ammonium
FINALE HERBICIDE	432	1229		77182-82-2	Glufosinate-Ammonium
IGNITE HERBICIDE	264	660		77182-82-2	Glufosinate-Ammonium
LIBERTY HERBICIDE	264	660		77182-82-2	Glufosinate-Ammonium
RELY HERBICIDE	264	652		77182-82-2	Glufosinate-Ammonium
REMOVE HERBICIDE	264	663		77182-82-2	Glufosinate-Ammonium
MACH 2* 1.5G	62719	473	38167	112226-61-6	Halofenozide
SEMPRA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SEMPRA CA HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
SEMPRA CA	524	524		100784-20-1	Halosulfuron-Methyl
SEDGEHAMMER TURF HERBICIDE	81880	1	10163	100784-20-1	Halosulfuron-Methyl
SANDEA HERBICIDE	10163	254		100784-20-1	Halosulfuron-Methyl
MANAGE TURF HERBICIDE	524	465		100784-20-1	Halosulfuron-Methyl
YUKON HERBICIDE	33906	11	524	100784-20-1	Halosulfuron-Methyl
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

Table 2: Agricultural Pesticides on the Groundwater Protection List (GWPL)

Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
LEVERAGE 2.7 SUSPENSION EMULSION INSECTICIDE	3125	524		138261-41-3	Imidacloprid
MERIT 2 INSECTICIDE	3125	418		138261-41-3	Imidacloprid
MACHO 2.0 FL	42750	110		138261-41-3	Imidacloprid
MERIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
MARATHON 1% GRANULAR GREENHOUSE & NURSERY INSECTICIDE	432	1329	59807	138261-41-3	Imidacloprid
LESCO BANDIT 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
MARATHON II GREENHOUSE AND NURSERY INSECTICIDE	432	1369	59807	138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	432	1314		138261-41-3	Imidacloprid
MERIT 75 WP INSECTICIDE	3125	421		138261-41-3	Imidacloprid
GARANT T & O 2F INSECTICIDE	432	1312	67760	138261-41-3	Imidacloprid
COURAZE MAX 4F	264	783	67760	138261-41-3	Imidacloprid
ADMIRE 2 FLOWABLE	3125	422		138261-41-3	Imidacloprid
ADMIRE PRO SYSTEMIC PROTECTANT INSECTICIDE	264	827		138261-41-3	Imidacloprid
AGRISOLUTIONS CONCUR SEED TREATMENT	7501	197	1381	138261-41-3	Imidacloprid
ALIAS 2F FLOWABLE INSECTICIDE	264	758	66222	138261-41-3	Imidacloprid
ALLECTUS GC GRANULAR INSECTICIDE	432	1416		138261-41-3	Imidacloprid
ALLECTUS GC SC	432	1421		138261-41-3	Imidacloprid
ANDERSONS GOLF PRODUCTS TURF FERTILIZER 14-0-14 WITH MERIT INSECTICIDE	432	1349	9198	138261-41-3	Imidacloprid
ARECA	432	1369	59807	138261-41-3	Imidacloprid
BAYER CROP SCIENCE AE F106464 00 SC43 A4 INSECTICIDE	264	827		138261-41-3	Imidacloprid
BAYER CROPSCIENCE CAUCHO GRANDE SEED-APPLIED INSECTICIDE	264	968		138261-41-3	Imidacloprid
BAYER CROPSCIENCE GAUCHO 480 FLOWABLE	264	957		138261-41-3	Imidacloprid
BAYER CROPSCIENCE TOPS-MZ-GAUCHO POTATO SEED-PIECE TREATMENT	264	977		138261-41-3	Imidacloprid
GAUCHO 480	7501	155		138261-41-3	Imidacloprid
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

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Brand Name	EPA1	EPA2	EPA3	CAS NUMBER	ACTIVE INGREDIENT
GAUCHO GRANDE SEED-APPLIED INSECTICIDE	7501	173		138261-41-3	Imidacloprid
GAUCHO MZ	7501	184		138261-41-3	Imidacloprid
GENESIS	264	758	7501	138261-41-3	Imidacloprid
GENESIS FLOWABLE	3125	422	7501	138261-41-3	Imidacloprid
COURAZE 1.6F INSECTICIDE	264	763	67760	138261-41-3	Imidacloprid
SIGNATURE FERTILIZER WITH MERIT 0.2%	432	1349	65783	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 75 WSB INSECTICIDE	432	1318	73220	138261-41-3	Imidacloprid
ZENITH 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
TOPS-MZ-GAUCHO	7501	183		138261-41-3	Imidacloprid
SUBMERGE 75 WSP INSECTICIDE	432	1318		138261-41-3	Imidacloprid
SIGNATURE BRAND FERTILIZER FERTILIZER WITH 0.2% MERIT 21-3-8	432	1349	65783	138261-41-3	Imidacloprid
PRO-MATE MERIT 0.2% PLUS TURF FERTILIZER	432	1349	5905	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 2 F INSECTICIDE	432	1312	73220	138261-41-3	Imidacloprid
QUALI-PRO IMIDACLOPRID 0.5G INSECTICIDE	432	1328	73220	138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WP INSECTICIDE IN WSP	3125	428		138261-41-3	Imidacloprid
PROVADO SOLUPAK 75% WETTABLE POWDER INSECTICIDE IN WATER SOLUBLE PACKETS	264	761		138261-41-3	Imidacloprid
PROVADO 1.6 FLOWABLE INSECTICIDE	3125	457		138261-41-3	Imidacloprid
PROVADO 1.6 FLOWABLE INSECTICIDE	264	763		138261-41-3	Imidacloprid
THE ANDERSONS PROFESSIONAL TURF PRODUCTS FERTILIZER 22-3-8 WITH MERIT INSECTICIDE	432	1349	9198	138261-41-3	Imidacloprid
LOROX DF HERBICIDE	1812	320		330-55-2	Linuron
DUPONT LAYBY PRO HERBICIDE	352	660		330-55-2	Linuron
LINEX 4L HERBICIDE	1812	245		330-55-2	Linuron
DUPONT LAYBY PRO HERBICIDE	1812	460	352	330-55-2	Linuron
MANEB 80 WP FUNGICIDE	4581	255		12427-38-2	Maneb
PENTATHLON FUNGICIDE FLOWABLE 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)

Table 2: Agricultural Pesticides on the Groundwater Protection List (GWPL)

Brand Name	CAS			NUMBER	ACTIVE INGREDIENT
	EPA1	EPA2	EPA3		
RIVERDALE TRIPLET SF SELECTIVE HERBICIDE	228	312		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
AGRISOLUTIONS STRIKE 3	14774	2		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
ENDRUN	2217	656	5905	66423-09-4	Mecoprop-P (MCP-P), DMA Salt
GORDON'S SUPER TRIMEC BROADLEAF HERBICIDE	2217	758		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
GORDON'S TRIMEC TURF HERBICIDE	2217	517		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
RIVERDALE TRIPLET LOW ODOR PREMIUM SELECTIVE HERBICIDE	228	409		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
SURGE BROADLEAF HERBICIDE FOR TURF	2217	867		66423-09-4	Mecoprop-P (MCP-P), DMA Salt
PRO-MATE THREE-WAY CS	2217	493	5905	66423-09-4	Mecoprop-P (MCP-P), DMA Salt
DELTA COAT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
RIDOMIL GOLD COPPER FUNGICIDE	100	804		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO LIQUID TWIN-PAK	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD COPPER FUNGICIDE	100	804		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO SC FUNGICIDE	100	1221		70630-17-0	Mefenoxam
RIDOMIL GOLD EC	100	801		70630-17-0	Mefenoxam
RIDOMIL GOLD BRAVO FUNGICIDE	100	800		70630-17-0	Mefenoxam
PLATINUM RIDOMIL GOLD	100	974		70630-17-0	Mefenoxam
AGRISOLUTIONS CATAPULT XL SEED TREATMENT FUNGICIDE	1381	183		70630-17-0	Mefenoxam
RIDOMIL GOLD GR FUNGICIDE	100	798		70630-17-0	Mefenoxam
AgriSolutions WARDEN RTA	100	1146	1381	70630-17-0	Mefenoxam
QUALI-PRO MEFENOXAM 2 AQ	70252	11	73220	70630-17-0	Mefenoxam
MAXIM XL FUNGICIDE	100	916		70630-17-0	Mefenoxam
DYNASTY CST FUNGICIDE	100	1177		70630-17-0	Mefenoxam
DIVIDEND XL RTA FUNGICIDE	100	826		70630-17-0	Mefenoxam
DIVIDEND XL FUNGICIDE	100	885		70630-17-0	Mefenoxam
AgriSolutions INCENTIVE RTA	100	826	1381	70630-17-0	Mefenoxam
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

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Brand Name	CAS			NUMBER	ACTIVE INGREDIENT
	EPA1	EPA2	EPA3		
APRON XL LS FUNGICIDE	100	799		70630-17-0	Mefenoxam
OSPREY HERBICIDE	264	802		208465-21-8	Mesosulfuron-Methyl
INTREPID 2F AGRICULTURAL INSECTICIDE	707	277		161050-58-4	Methoxyfenozide
INTREPID 2F	62719	442		161050-58-4	Methoxyfenozide
SENCOR SOLUPAK 75% DF HERBICIDE IN 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 75% 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
AGRSOLUTIONS 120 HERBICIDE	9779	96		2163-80-6	MSMA
AGRSOLUTIONS 912 HERBICIDE	9779	133		2163-80-6	MSMA
ANSAR 6.6	61483	17		2163-80-6	MSMA
BUENO 6	61483	15		2163-80-6	MSMA
DREXEL MSMA 6 PLUS	19713	42		2163-80-6	MSMA
GORDON'S TRIMEC PLUS POST EMERGENT GRASS & BROADLEAF HERBICIDE	2217	709		2163-80-6	MSMA
MSMA 6 PLUS	34704	115		2163-80-6	MSMA
PROKOZ TURFMAX MSMA 6.6	42750	28	72112	2163-80-6	MSMA
WEED-HOE	61483	15	17545	2163-80-6	MSMA
TARGET 6.6	42519	1		2163-80-6	MSMA
TENKOZ MSMA 6 PLUS	42750	29	55467	2163-80-6	MSMA
WEED-HOE	50534	6	17545	2163-80-6	MSMA
DUPONT STEADFAST HERBICIDE	352	608		111991-09-4	Nicosulfuron
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

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Brand Name	EPA			CAS	ACTIVE INGREDIENT
	EPA1	EPA2	EPA3	NUMBER	
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	Pyriproxyfen-Sodium
STAPLE HERBICIDE	352	576	279	123343-16-8	Pyriproxyfen-Sodium
DRIVE 75 DF HERBICIDE	7969	130		84087-01-4	Quinclorac
Q4 TURF HERBICIDE FOR GRASSY & BROADLEAF WEEDS	2217	886		84087-01-4	Quinclorac
VISOR 2E HERBICIDE	707	251		112410-23-8	Tebufenozide
MIMIC 2LV AGRICULTURAL INSECTICIDE	707	270		112410-23-8	Tebufenozide
CONFIRM T/O INSECTICIDE	707	238		112410-23-8	Tebufenozide
CONFIRM T/O	62719	420		112410-23-8	Tebufenozide
CONFIRM 2F AGRICULTURAL INSECTICIDE (SEC18 98-AZ-09,10)	707	238		112410-23-8	Tebufenozide
CONFIRM 2F	62719	420		112410-23-8	Tebufenozide
CRUISER 5FS insecticide	100	941		153719-23-4	Thiamethoxam
PLATINUM RIDOMIL GOLD	100	974		153719-23-4	Thiamethoxam
FLAGSHIP 25WG	100	955		153719-23-4	Thiamethoxam
ACTARA INSECTICIDE	100	938		153719-23-4	Thiamethoxam
CENTRIC 40WG INSECTICIDE	100	1147		153719-23-4	Thiamethoxam
CENTRIC INSECTICIDE	100	968		153719-23-4	Thiamethoxam
PLATINUM INSECTICIDE	100	939		153719-23-4	Thiamethoxam
VISOR 2E	62719	431		117718-60-2	Thiazopyr
ENVOKE HERBICIDE	100	1132		199119-58-9	Trifloxysulfuron-Sodium
PRIMO MAXX	100	937		95266-40-3	Trinexapac-Ethyl
PRIMO LIQUID	100	729		95266-40-3	Trinexapac-Ethyl
PRIMO	100	729		95266-40-3	Trinexapac-Ethyl
PRIMO WSB	100	752		95266-40-3	Trinexapac-Ethyl

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 will be placed on the GWPL. As of November 2005 when the new rules were adopted, the original GWPL was composed of 223 agricultural-use pesticide active ingredients or active ingredient groups that included the original 152 active ingredients from the 1992 GWPL plus all subsequent active ingredients that failed at least one SNV from both mobility and persistence factors (Table 1).

Based on the new rules effective in November 2005, the GWPL has been revised and those agricultural-use pesticides containing active ingredients that have never been detected by ADEQ's monitoring activities or their registration were cancelled by the Arizona Department of Agriculture have been removed from the list in compliance with A.R.S. § 49-305.C and A.A.C. R18-6-301.C.1 or C.3. Therefore, the current GWPL presented in Table 2 is significantly reduced from that reported in 2005. The list is comprised of 446 registered agricultural-use pesticides containing 55 active ingredients or active ingredient groups based on the 2005 registration information from the Arizona Department of Agriculture. According to the new rules, each year, a new draft GWPL will be established and presented for public comment. The final GWPL is published by July 1st of each year and becomes effective on December 1st of the publication year.

The GWPL enables ADEQ to focus its statewide groundwater and soil monitoring activities to the active ingredients requiring monitoring and testing. If any of these pesticide 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 use patterns or may cancel the registration to prevent further contamination. At the user level, Best Management Practices (BMPs) developed by the applicator shall be implemented, when these agricultural-use pesticides on the GWPL are soil-applied, to reduce or prevent the pollution of groundwater by the associated active ingredients (A.A.C. R18-6-303.A).

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 that are soil applied (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 the reporting requirement. The use information is presented in the following tables:

- Use information on agricultural-use pesticides on the GWPL in Table 2 that was intended for soil application *within* Arizona between Jan. 1, 2005 and Dec. 31, 2005 (Table 3).
- Use information on agricultural-use pesticides on the GWPL in Table 2 that were intended for soil application *within each county* in Arizona between Jan. 1, 2005 and Dec. 31, 2005 (Table 4)

A total of 30 soil-applied agricultural-use pesticides on the GWPL containing 18 different active ingredients or active ingredient groups were used in Arizona between January 1, 2005 and December 31, 2005.

Table 3: Reported Use in Arizona from January 1, 2005 to December 31, 2005

Brand	Type	EPA1	EPA2	TOTALS	UNITS	CAS Number	ACTIVE INGREDIENT
2,4-D AMINE 4	HERBICIDE	1381	103	60	GAL	2008-39-1	2,4-D Group
AATREX 4L HERBICIDE	HERBICIDE	100	497	199.75	GAL	1912-24-9	Atrazine
ADMIRE 2 FLOWABLE INSECTICIDE	INSECTICIDE	264	758	249.03	GAL	138261-41-3	Imidacloprid
AIM EC HERBICIDE	HERBICIDE	279	3241	12.38	GAL	128639-02-1	Carfentrazone-Ethyl
AIM EW HERBICIDE	HERBICIDE	279	3242	1	GAL	128639-02-1	Carfentrazone-Ethyl
AIM HERBICIDE	HERBICIDE	279	3194	0.58	LBS	128639-02-1	Carfentrazone-Ethyl
AMISTAR FUNGICIDE	FUNGICIDE	100	1164	42.5	LBS	131860-33-8	Azoxystrobin
BAYER CROP SCIENCE AE F106464 00 SC43 A4 INSECTICIDE	INSECTICIDE	264	827	93.79	GAL	138261-41-3	Imidacloprid
BUTOXONE 200	HERBICIDE	2749	516	74.08	GAL	2758-42-1	2,4-DB Group
CAPAROL 4L HERBICIDE	HERBICIDE	100	620	650	GAL	7287-19-6	Prometryn
CLARITY HERBICIDE	HERBICIDE	7969	137	17.5	GAL	1918-00-9	Dicamba Group
COTTON PRO	HERBICIDE	66222	15	720	GAL	7287-19-6	Prometryn
DIREX 4L HERBICIDE	HERBICIDE	1812	257	294.56	GAL	330-54-1	Diuron
DREXEL DIURON 4L	HERBICIDE	19713	36	6.56	GAL	330-54-1	Diuron
DREXEL ENDOSULFAN 3EC	INSECTICIDE	19713	399	85.76	GAL	115-29-7	Endosulfan Group
DUPONT ACCENT HERBICIDE	HERBICIDE	352	560	3.76	LBS	111991-09-4	Nicosulfuron
DUPONT LANNATE SP INSECTICIDE	INSECTICIDE	352	342	304	LBS	16752-77-5	Methomyl
KARMEX IWC 4L HERBICIDE	HERBICIDE	1812	257	472.7	GAL	330-54-1	Diuron
MANEB 75DF	FUNGICIDE	4581	371	90	LBS	12427-38-2	Maneb
MANEX FUNGICIDE FLOWABLE WITH ZINC	FUNGICIDE	1812	251	325.5	GAL	12427-38-2	Maneb
PROMETRYNE 4L HERBICIDE	HERBICIDE	34704	692	146.5	GAL	7287-19-6	Prometryn
PROVADO 1.6 FLOWABLE	INSECTICIDE	3125	457	0.4	GAL	138261-41-3	Imidacloprid
PURSUIT W DG HERBICIDE ECO-PAK	HERBICIDE	241	386	57.05	LBS	81335-77-5	Imazethapyr
PURSUIT-DG	HERBICIDE	241	350	39.61	LBS	81335-77-5	Imazethapyr
RIDOMIL GOLD EC	FUNGICIDE	100	801	46.24	GAL	70630-17-0	Mefenoxam
SENCOR DF	HERBICIDE	3125	325	25	LBS	21087-64-9	Metribuzin
SEVIN 5 BAIT	INSECTICIDE	2935	366	1850	LBS	63-25-2	Carbaryl
TELONE EC	NEMATICIDE	62719	321	9988.6	GAL	542-75-6	1,3 Dichloropropene
TELONE II	NEMATICIDE	62719	32	5997	GAL	542-75-6	1,3 Dichloropropene
VEGETABLE PRO	HERBICIDE	66222	15	943.56	GAL	7287-19-6	Prometryn

Legend:

EPA1 / EPA 2 = EPA Registration Numbers

Table 4: Reported Pesticide Use by County from January 1, 2005 to December 31, 2005

County	Brand	Type	EPA1	EPA2	Totals	Units	CAS Number	Active Ingredient
COC	AATREX 4L HERBICIDE	HERBICIDE	100	497	133.5	GAL	1912-24-9	Atrazine
COC	ADMIRE 2 FLOWABLE INSECTICIDE	INSECTICIDE	264	758	30	GAL	138261-41-3	Imidacloprid
COC	2,4-D AMINE 4	HERBICIDE	1381	103	60	GAL	2008-39-1	2,4-D Group
COC	CLARITY HERBICIDE	HERBICIDE	7969	137	17.5	GAL	1918-00-9	Dicamba Group
GRA	AATREX 4L HERBICIDE	HERBICIDE	100	497	45	GAL	1912-24-9	Atrazine
MAR	AATREX 4L HERBICIDE	HERBICIDE	100	497	21.25	GAL	1912-24-9	Atrazine
MAR	RIDOMIL GOLD EC FUNGICIDE	FUNGICIDE	100	801	26.56	GAL	70630-17-0	Mefenoxam
MAR	DUPONT ACCENT HERBICIDE	HERBICIDE	352	560	1.88	LBS	111991-09-4	Nicosuluron
MAR	KARMEX IWC 4L HERBICIDE	HERBICIDE	1812	257	472.7	GAL	330-54-1	Diuron
MAR	COTTON-PRO HERBICIDE	HERBICIDE	1812	274	365	GAL	7287-19-6	Prometryn
MAR	BUTOXONE 200	HERBICIDE	2749	516	17.5	GAL	2758-42-1	2,4-DB Group
MAR	SENCOR 75% DRY FLOWABLE HERBICIDE	HERBICIDE	3125	325	25	LBS	21087-64-9	Metribuzin
MAR	ADMIRE 2 FLOWABLE	INSECTICIDE	3125	422	144.25	GAL	138261-41-3	Imidacloprid
MAR	PROMETRYNE 4L HERBICIDE	HERBICIDE	34704	692	4	GAL	7287-19-6	Prometryn
MAR	TELONE II	NEMATICIDE	62719	32	4240	GAL	542-75-6	1,3 Dichloropropene
MAR	TELONE EC	NEMATICIDE	62719	321	8638.6	GAL	542-75-6	1,3 Dichloropropene
MAR	VEGETABLE PRO	HERBICIDE	66222	15	542.3	GAL	7287-19-6	Prometryn
MAR	DUPONT ACCENT HERBICIDE	HERBICIDE	352	560	1.88	LBS	111991-09-4	Nicosulfuron
PIM	VEGETABLE PRO	HERBICIDE	66222	15	279.66	GAL	7287-19-6	Prometryn
PIN	CAPAROL 4L HERBICIDE	HERBICIDE	100	620	650	GAL	7287-19-6	Prometryn
PIN	AMISTAR FUNGICIDE	FUNGICIDE	100	1164	42.5	LBS	131860-33-8	Azoxystrobin
PIN	PURSUIT-DG	HERBICIDE	241	350	39.61	LBS	81335-77-5	Imazethapyr
PIN	PURSUIT W DG HERBICIDE ECO-PAK	HERBICIDE	241	386	10.8	LBS	81335-77-5	Imazethapyr
PIN	AIM EC HERBICIDE	HERBICIDE	279	3241	9.12	GAL	128639-02-1	Carfentrazone-Ethyl
PIN	DUPONT LANNATE SP INSECTICIDE	INSECTICIDE	352	342	304	LBS	16752-77-5	Methomyl
PIN	DIREX 4L HERBICIDE	HERBICIDE	1812	257	294.56	GAL	330-54-1	Diuron

County	Brand	Type	EPA1	EPA2	Totals	Units	CAS Number	Active Ingredient
PIN	SEVIN 5 BAIT	INSECTICIDE	2935	366	1850	LBS	63-25-2	Carbaryl
PIN	DREXEL DIURON 4L	HERBICIDE	19713	36	6.56	GAL	330-54-1	Diuron
PIN	DREXEL ENDOSULFAN 3EC	INSECTICIDE	19713	399	80.76	GAL	115-29-7	Endosulfan Group
PIN	PROMETRYNE 4L HERBICIDE	HERBICIDE	34704	692	142.5	GAL	7287-19-6	Prometryn
PIN	BUTOXONE 200 HERBICIDE	HERBICIDE	56077	26	28.29	GAL	94-82-6	2,4 DB
PIN	TELONE II	NEMATICIDE	62719	32	1757	GAL	542-75-6	1,3 Dichloropropene
PIN	TELONE EC	NEMATICIDE	62719	321	1350	GAL	542-75-6	1,3 Dichloropropene
PIN	COTTON PRO	HERBICIDE	66222	15	355	GAL	7287-19-6	Prometryn
YUM	RIDOMIL GOLD EC	FUNGICIDE	100	801	19.68	GAL	70630-17-0	Mefenoxam
YUM	PURSUIT W DG HERBICIDE ECO-PAK	HERBICIDE	241	386	56.25	LBS	81335-77-5	Imazethapyr
YUM	ADMIRE 2 FLOWABLE INSECTICIDE	INSECTICIDE	264	758	72.58	GAL	138261-41-3	Imidacloprid
YUM	BAYER CROP SCIENCE AE F106464 00 SC43 A4 INSECTICIDE	INSECTICIDE	264	827	93.79	GAL	138261-41-3	Imidacloprid
YUM	AIM HERBICIDE	HERBICIDE	279	3194	0.58	LBS	128639-02-1	Carfentrazone-Ethyl
YUM	AIM EC HERBICIDE	HERBICIDE	279	3241	3.26	GAL	128639-02-1	Carfentrazone-Ethyl
YUM	AIM EW HERBICIDE	HERBICIDE	279	3242	1	GAL	128639-02-1	Carfentrazone-Ethyl
YUM	MANEX FUNGICIDE FLOWABLE WITH ZINC	FUNGICIDE	1812	251	325.5	GAL	12427-38-2	Maneb
YUM	ADMIRE 2 FLOWABLE	INSECTICIDE	3125	422	2.2	GAL	138261-41-3	Imidacloprid
YUM	PROVADO 1.6 FLOWABLE INSECTICIDE	INSECTICIDE	3125	457	0.4	GAL	138261-41-3	Imidacloprid
YUM	MANEB 75DF	FUNGICIDE	4581	371	90	LBS	12427-38-2	Maneb
YUM	DREXEL ENDOSULFAN 3EC	INSECTICIDE	19713	399	5	GAL	115-29-7	Endosulfan Group
YUM	VEGETABLE PRO	HERBICIDE	66222	15	121.6	GAL	7287-19-6	Prometryn

Legend:

COC = Coconino County
 GRA = Graham County

MAR = Maricopa County
 PIN = Pinal County

YUM = Yuma County
 EPA1 / EPA2 = EPA Registration Numbers

