

## **TABLES**

Table 1. Characteristics of pesticides and breakdown products included in the monitoring and among the top 100 used within 5 miles of Parlier during 2003.

Pesticide	Breakdown Product	Use	Molecular Weight (g/mole)	Water Solubility 9 – 25 C (ppm)	Vapor Pressure 20 – 25 C (mmHg)	Hydrolysis Half-Life 19 – 25 C pH 6 – 7.5 (days)	Soil Aerobic Half-Life (days)	Soil Photolysis Half-Life (days)
1,3-dichloropropene		Fumigant	111.0	2,250	29.4	NA	11.5	NA
Azinphos-methyl		Insecticide	317.3	28.0	1.60E-06			
Chlorothalonil		Fungicide	265.9	1.20	2.00E-06	>49.0	18.3 - 154	>74.0
Chlorpyrifos	Oxygen analog	Insecticide	350.6	1.39	2.21E-05	72.1	NA	10
Copper (sulfate)		Fungicide	249.7	230,500	nonvolatile	NA	NA	NA
Diazinon	Oxygen analog	Insecticide	304.3	60	8.98E-05	138	40	2.55
Dicofol		Insecticide	370.5	NA	3.90E-06	2.74	66.4	60.2
Dimethoate	Oxygen analog	Insecticide	229.2	39,800	1.85E-06	68	2	66.7
Diuron		Herbicide	233.1	36.4	6.90E-08	1240	372	
Endosulfan		Insecticide	407.0	0.325	1.30E-05	18.8	25.6	238
Malathion	Oxygen analog	Insecticide	330.3	125	2.30E-05	6	2	174
Metam-sodium (not monitored) <sup>a</sup>	Methyl isothiocyanate	Fumigant	73.1	8,610	16.0	20.4	0.5 - 50	1.1
Methyl bromide		Fumigant	94.95	1,380	1420	17	1.5 - 20	NA
Norflurazon		Insecticide	303.67	33.7	2.90E-08	~2,650	134	21.2
Oryzalin		Herbicide	346.4	2.5	1.00E-08	>28.0	63.3	3.95
Oxyfluorfen		Herbicide	361.7	0.116	NA	114	293-576	199
Phosmet		Insecticide	317.3	20.0	4.90E-07	0.37	7.20	
Propargite		Insecticide	350	0.5	3.89E-08			
Simazine		Insecticide	201.7	6	2.21E-08	28 <sup>b</sup>	110	11.1
Sulfur		Fungicide	32.1	insoluble	3.95E-06	Not degraded	Not degraded	Not degraded
Trifluralin		Herbicide	335.3	0.3	1.04E-04	30	169	41
Xylene		Solvent	106.2	200	5.1			

NA – Not available

<sup>a</sup> Metam-sodium breaks down in a few minutes to the pesticidal agent methyl isothiocyanate (MITC).

<sup>b</sup> No reaction occurred during the study. The half-life is greater than the value listed which represents the length of the study.

Table 2. Pesticides and pesticide breakdown products included in DPR's multi-residue method. Pesticides in bold were among the top 100 used within five miles of Parlier during 2003. These pesticides will be monitored at Chavez School, Martinez School, and Benavidez School three days per week.

<b>Pesticide (Active Ingredient)</b>	<b>Breakdown Product</b>	<b>Product Trade Names</b>
<b>Azinphos-methyl</b>		<b>Guthion</b>
<b>Chlorothalonil</b>		<b>Bravo, Ridomil</b>
<b>Chlorpyrifos</b>	<b>Oxygen analog</b>	<b>Dursban, Lorsban</b>
Cypermethrin		Ammo, Demon, Raid
<b>Diazinon</b>	<b>Oxygen analog</b>	<b>AG-500, Diazol</b>
<b>Dicofol</b>		<b>Kelthane</b>
<b>Dimethoate</b>	<b>Oxygen analog</b>	<b>Cygon, De-Fend</b>
<b>Diuron</b>		<b>Direx, Karmex</b>
<b>Endosulfan</b>	<b>Endosulfan sulfate</b>	<b>Thiodan</b>
EPTC		Eptam
<b>Malathion</b>	<b>Oxygen analog</b>	
Metolachlor		Pennant, Bicep, Dual
Molinate		Ordram
Naled (not monitored)	Diclorvos, DDVP	Dibrom
<b>Norflurazon</b>		<b>Solicam, Predict</b>
<b>Oryzalin</b>		<b>Surflan</b>
<b>Oxyfluorfen</b>		<b>Goal, Galigan</b>
Permethrin		Pounce, Ambush
<b>Phosmet</b>		<b>Imidan</b>
Propanil		Duet, Stam, Wham
<b>Propargite</b>		<b>Omite, Comite</b>
SSS-tributyltriphosphorotrithioate (DEF)		DEF
<b>Simazine</b>		<b>Princep, Sim-Trol</b>
Thiobencarb		Bolero, Abolish
<b>Trifluralin</b>		<b>Treflan, Triap, Trilin</b>

DPR will also monitor methyl isothiocyanate (MITC) as a single chemical.

<b>Metam-sodium (not monitored)</b>	<b>Methyl isothiocyanate</b>	<b>Vapam, Busan, Sectagon</b>
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Table 3. Chemicals included in ARB's volatile organic compound (VOC) and metals/elements methods. Chemicals in bold are pesticides that were among the top 100 used within five miles of Parlier during 2003. Chemicals in italics are pesticides not among the top 100 used within five miles of Parlier during 2003. Product names are given in parentheses. These chemicals will be monitored at Benavidez School one day per week.

VOCs	Metals/Elements
Acetaldehyde	Aluminum
Acetone	Antimony
Acetonitrile	<i>Arsenic (several products)</i>
<i>Acrolein (Magnacide)</i>	Barium
Acrylonitrile	Beryllium
Benzene	Bromine
1,3-Butadiene	Cadmium
<i>Carbon Disulfide (Sodium Tetrathiocarbonate; Enzone)</i>	Calcium
Carbon Tetrachloride	Chloride
Chlorobenzene	Chromium
Chloroform	Cobalt
meta-Dichlorobenzene	<b>Copper (several products)</b>
ortho-Dichlorobenzene	Hexavalent Chromium
para-Dichlorobenzene	Iron
<b>cis-1,3-Dichloropropene (Telone, Inline)</b>	Lead
<b>trans-1,3-Dichloropropene (Telone, Inline)</b>	Manganese
Ethyl Benzene	Mercury
Ethylene Dibromide	Molybdenum
Ethylene Dichloride	Nickel
<i>Formaldehyde (Aldesan, Bactron)</i>	Phosphorus
<b>Methyl Bromide (Brom-O-Gas, Metabrom, Pic-Brom,)</b>	Potassium
Methyl Chloroform	Rubidium
Methyl Ethyl Ketone	Selenium
Methyl tertiary-Butyl Ether	Silicon
Methylene Chloride	Strontium
Perchloroethylene	<b>Sulfur (several products)</b>
Styrene	Tin
Toluene	Titanium
Trichloroethylene	Uranium
<b>meta/para-Xylene (several products)</b>	Vanadium
<b>meta-Xylene (several products)</b>	Yttrium
<b>ortho-Xylene (several products)</b>	Zinc
<b>para-Xylene (several products)</b>	Zirconium

Table 4. Chemicals included in the SJVAPCD's Photochemical Assessment Monitoring Stations program. These chemicals will be monitored at the Kearney Agricultural Center approximately 0.5 miles southeast of Parlier once every three days during July – September.

<b>Hydrocarbons</b>		<b>Aldehydes</b>
ACETYLENE	n-PENTANE	Acetaldehyde
BENZENE	MCPENTANE	Acetone
n-BUTANE	cis-2-PENTENE	Acrolein
1-BUTENE	n-PROP BENZENE	Benzaldehyde
cis-2-BUTENE	PAMHC	Butyraldehyde
CYCLOHEXANE	1-PENTENE	Crotonaldehyde
CYCLOPENTANE	trans-2-PENTENE	Formaldehyde
n-DECANE	PROPANE	Hexaldehyde
m-DIETHYLBENZENE	PROPYLENE	MEK & Methacrolein
p-DIETHYLBENZENE	STYRENE	Propionaldehyde
2,2-DIMETHYLBUTANE	TNMOC as propane (ppbc)	Tolualdehyde
2,3-DIMETHYLBENZENE	TOLUENE	Valeraldehyde
2,3-DIMETHYLPENTANE	1,2,3-TRIMETHYLBENZENE	
2,4-DIMETHYLPENTANE	1,2,4-TRIMETHYLBENZENE	
n-DODECANE	1,3,5-TRIMETHYLBENZENE	
ETHANE	2,2,4-TRIMETHYLPENTANE	
ETHYLENE	2,3,4-TRIMETHYLPENTANE	
ETHYLBENZENE	n-UNDECANE	
m-ETHYLTOLUENE	m/p-XYLENES	
o-ETHYLTOLUENE	o-XYLENE	
p-ETHYLTOLUENE		
n-HEPTANE		
n-HEXANE		
1-HEXENE		
ISOBUTANE		
ISOPENTANE		
ISOPRENE		
ISOPROPBENZENE		
METHYLCYCLOHEXANE		
2-METHYLHEXANE		
2-METHYLPENTANE		
3-METHYLHEXANE		
3-METHYLPENTANE		
2-MHP		
3-MHP		
NONANE		
n-OCTANE		

Table 5. Criteria air pollutants monitored continuously by the ARB and SJVAPCD in or near Parlier.

<b>ARB</b> <b>Benavidez Elementary School</b>	<b>SJVAPCD</b> <b>Kearney Agricultural Center</b>
Particulate Matter-2.5 microns	Nitrogen Dioxide
	Ozone

Table 6. Highest rated pesticides for monitoring based on statewide use, volatility, and toxicity (risk assessment priority). Pesticides in bold are included in the monitoring.

Pesticide	Statewide Use Rating	Volatility Rating	Risk Assess Rating	Total Rating
<b>1,3-DICHLOROPROPENE</b>	4	4	4	12
CHLOROPICRIN	4	4	4	12
<b>METAM-SODIUM [MITC]</b>	4	4	4	12
<b>METHYL BROMIDE</b>	4	4	4	12
<b>K N-METHYLDITHIOCARBAMATE [MITC]</b>	4	4	4	12
<b>CHLORPYRIFOS</b>	4	3	4	11
<b>MOLINATE</b>	4	3	4	11
<b>PROPARGITE</b>	4	3	4	11
<b>SODIUM TETRATHIOCARBONATE [CS<sub>2</sub>]</b>	3	4	4	11
SULFURYL FLUORIDE	4	4	3	11
2,4-D, DIMETHYLAMINE SALT	3	3	4	10
<b>ACROLEIN</b>	2	4	4	10
<b>CHLOROTHALONIL</b>	3	3	4	10
<b>DIAZINON</b>	3	3	4	10
<b>DIURON</b>	4	3	3	10
<b>MALATHION</b>	3	3	4	10
MANEB	4	2	4	10
PARAQUAT DICHLORIDE	4	2	4	10
<b>PROPANIL</b>	4	2	4	10
<b>TRIFLURALIN</b>	4	3	3	10
ACEPHATE	2	3	4	9
ALDICARB	2	3	4	9
CAPTAN	3	2	4	9
CARBARYL	2	3	4	9
<b>DIMETHOATE</b>	2	3	4	9
IPRODIONE	2	3	4	9
MANCOZEB	3	2	4	9
MCPA, DIMETHYLAMINE SALT	3	3	3	9
NALED	2	3	4	9
<b>OXYFLUORFEN</b>	3	3	3	9
<b>PERMETHRIN</b>	3	3	3	9
<b>PHOSMET</b>	3	3	3	9
<b>S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE</b>	2	3	4	9
<b>SIMAZINE</b>	3	3	3	9
ZIRAM	3	2	4	9
<b>AZINPHOS METHYL</b>	1	3	4	8
BENSULIDE	2	3	3	8
CHLORINE	3	4	1	8
CHLORHAL-DIMETHYL	2	3	3	8
<b>CYPERMETHRIN</b>	2	3	3	8
<b>DICOFOL</b>	1	3	4	8
<b>ENDOSULFAN</b>	1	3	4	8
ETHEPHON	3	3	2	8
GLYPHOSATE, ISOPROPYLAMINE SALT	4	2	2	8
IMIDACLOPRID	2	3	3	8
METHOMYL	2	3	3	8
NITROGEN, LIQUIFIED	3	4	1	8
PENDIMETHALIN	3	3	2	8
PETROLEUM HYDROCARBONS	3	4	1	8
SODIUM HYPOCHLORITE	3	4	1	8
<b>THIOBENCARB</b>	3	3	2	8

Table 7. Top 25 pesticides used within five miles of Parlier during 2003. Pesticides in bold are included in the monitoring. All pesticides listed here would have a Parlier use rating of 4. Pesticides in *\*italics\** would have a higher total rating based on their Parlier use instead of statewide use. The highest rated pesticides not included in the monitoring (based on Parlier use) are chloropicrin (total rating 12), ziram (10), paraquat (10), and captan (10).

Parlier Use Rank	Pesticide	Statewide (Parlier) Use Rating	Volatility Rating	Risk Assess Rating	Total Statewide (Parlier) Rating
<b>1</b>	<b>SULFUR</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>7</b>
2	PETROLEUM OIL, UNCLASSIFIED	4	2	1	7
3	MINERAL OIL	4	2	1	7
<b>4</b>	<b>1,3-DICHLOROPROPENE</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>
5	CRYOLITE	4	2	1	7
<b>6</b>	<b>COPPER HYDROXIDE</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>7</b>
<b>7</b>	<b>METHYL BROMIDE</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>
8	GLYPHOSATE, ISOPROPYLAMINE	4	2	2	8
<b>9</b>	<b><i>*PHOSMET*</i></b>	<b>3 (4)</b>	<b>3</b>	<b>3</b>	<b>9 (10)</b>
<i>10</i>	<i>*ZIRAM*</i>	<i>3 (4)</i>	<i>2</i>	<i>4</i>	<i>9 (10)</i>
<b>11</b>	<b>CHLORPYRIFOS</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>11</b>
<b>12</b>	<b><i>*COPPER OXIDE (OUS)*</i></b>	<b>2 (4)</b>	<b>2</b>	<b>1</b>	<b>5 (7)</b>
<b>13</b>	<b>METAM-SODIUM</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>12</b>
<b>14</b>	<b>SIMAZINE</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>7</b>
<b>15</b>	<b>PROPARGITE</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>10</b>
16	PARAQUAT DICHLORIDE	4	2	4	10
17	CHLOROPICRIN	4	4	4	12
18	PETROLEUM DISTILLATES	4	2	1	7
<i>19</i>	<i>*IPRODIONE*</i>	<i>2 (4)</i>	<i>3</i>	<i>4</i>	<i>9 (11)</i>
<i>20</i>	<i>*PETROLEUM DISTILLATES, REFINED*</i>	<i>2 (4)</i>	<i>4</i>	<i>1</i>	<i>7 (9)</i>
21	CALCIUM HYDROXIDE	4	2	1	7
<i>22</i>	<i>*FORMETANATE HYDROCHLORIDE*</i>	<i>0 (4)</i>	<i>1</i>	<i>2</i>	<i>3(7)</i>
<b>23</b>	<b><i>*OXYFLUORFEN*</i></b>	<b>3 (4)</b>	<b>3</b>	<b>3</b>	<b>9 (10)</b>
<b>24</b>	<b><i>*COPPER*</i></b>	<b>1 (4)</b>	<b>2</b>	<b>1</b>	<b>4 (7)</b>
<i>25</i>	<i>CAPTAN</i>	<i>3 (4)</i>	<i>2</i>	<i>4</i>	<i>9 (10)</i>



Table 8. Use for 2003 and 2004 within five miles of Parlier for pesticides included in all the monitoring.

Pesticide	2003			2004		
	Use (lbs)	No. of Applications	No. of Acres	Use (lbs)	No. of Applications	No. of Acres
<b>Fumigants</b>						
1,3-Dichloropropene	248,547	97	1,257	224,603	97	1,025
Metam-sodium	15,468	5	98	26,670	3	84
Methyl bromide	36,742	20	150	23,753	13	83
Fumigant Total	300,756	122	1,505	275,026	113	1,192
<b>Organophosphate</b>						
Azinphos-methyl	504	32	318	337	14	227
Chlorpyrifos	25,132	1,266	12,909	26,620	1,275	13,253
Diazinon	2,334	162	1,539	30,921	200	2,266
Dimethoate	208	15	190	128	10	154
Malathion	621	12	98	1	2	3
Naled	0	0	0	0	0	0
Phosmet	32,118	1,376	13,552	36,965	1,624	15,283
SSS-Tributylphosphorotrithioate	0	0	0	0	0	0
Organophosphate Total	60,917	2,863	28,606	94,972	3,125	31,186
<b>Carbamates</b>						
EPTC	0	0	0	0	0	0
Molinate	0	0	0	0	0	0
Thiobencarb	0	0	0	0	0	0
Carbamate Total	0	0	0	0	0	0
<b>Other</b>						
Acrolein	0	0	0	0	0	0
Chlorothalonil	2,212	93	855	1,274	64	489
Cypermethrin	1	1	18	0	0	0
Dicofol	713	105	704	28	2	40
Diuron	2,477	140	3,255	2,165	121	3,103
Endosulfan	0	0	0	336	7	231
Metolachlor	0	0	0	0	0	0
Norflurazon	1,735	297	2,368	1,694	342	2,634
Oryzalin	2,615	272	2,269	5,253	412	3,956
Oxyfluorfen	3,973	1,576	17,580	5,087	1,786	19,902
Permethrin	10	5	61	64	16	364
Propanil	0	0	0	0	0	0
Propargite	9,212	397	5,217	6,481	224	3,557
Simazine	12,026	1,249	15,956	13,196	1,336	15,638
Sodium Tetrathiocarbonate (CS <sub>2</sub> )	0	0	0	0	0	0
Trifluralin	174	7	257	127	25	231
Xylene	299	13	179	194	9	144
Other Total	35,447	4,155	48,719	35,899	4,344	50,289
<b>Metals</b>						
Arsenic	0	0	0	0	0	0
Copper	99,558	1,871	27,238	90,333	1,964	23,989
Sulfur	849,451	4,952	114,344	933,120	5,745	122,762
Sulfur-Copper Total	949,009	6,823	141,549	1,023,453	7,709	146,751

Table 9. Use for 2003 and 2004 within five miles of Parlier for pesticides included in the all monitoring, by crop/site

Crop/Site	2003			2004		
	Use (lbs)	No. of Applications	No. of Acres	Use (lbs)	No. of Applications	No. of Acres
Alfafa	43	3	78	453	6	240
Almond	8,615	52	1,713	4,880	72	1,269
Apple	369	27	198	811	60	376
Apricot	1,468	63	310	941	56	320
Bean, Succulent	0	0	0	6,356	3	26
Blueberry	0	0	0	318	5	114
Cherry	8,997	72	702	10,801	65	616
Christmas Tree	25	3	20	21	2	15
Citrus	1,554	25	280	22,399	22	263
Corn (Forage – fodder)	60	1	36	0	0	0
Cucumber	0	0	0	12,700	1	40
Eggplant	7,540	5	55	0	0	0
Grape	784,194	4,704	128,119	845,397	5,554	136,500
Grape, Wine	70,677	544	10,627	69,752	538	11,545
Grapefruit	28	3	12	1	1	4
Kiwi	29	4	52	28	9	22
Nectarine	139,314	3,658	35,858	175,546	3,886	36,373
N-outdr plants in containers	53	2	25	34	1	12
Onion, Dry	344	11	329	2,499	15	220
Orange	2,149	52	996	2,241	68	1,252
Peach	148,768	3,199	25,763	143,310	3,267	26,198
Pear	1,546	54	702	646	31	190
Pepper, Fruiting	2	1	3	0	0	0
Persimmon	5	11	69	17	8	39
Pistachio	2,669	10	300	843	10	252
Plum	38,373	1,3552	10,285	42,092	1,499	10,819
Pomegranate	>1	1	1	0	0	0
Prune	652	3	81	1,183	26	453
Research Commodity	5	4	6	1	3	6
Rights Of Way	0	0	0	11	4	10
Soil Fumigation/Preplant	114,983	20	635	46,395	15	587
Squash	>1	2	2	0	0	0
Squash, Summer	5864	4	50	4	2	12
Strawberry	201	1	1	191	1	1
Tangelo	0	0	0	9	1	3
Tangerine	592	18	259	679	31	529
Tomato	>1	2	1	1	1	1
Turf/Sod	0	0	0	35	2	33
Uncultivated Ag	759	1	5	912	2	6
Walnut	3,181	47	1,308	2,383	20	1,026
Watermelon	3,182	2	34	7,632	3	44

Table 10. Locations, frequency of monitoring, and number of samples collected in Parlier. Once monitoring is initiated, samples will be collected for 52 weeks (one year), except as noted. Figure 7 shows a map of the monitoring locations.

<b>Chemicals Monitored</b>	<b>Benavidez Elementary School</b>	<b>Chavez Elementary School</b>	<b>Martinez Elementary School</b>	<b>SJVAPCD – Kearney Ag Center</b>
DPR – Multiple Pesticides Total of 468 samples	3 days/wk 156 samples	3 days/wk 156 samples	3 days/wk 156 samples	---
DPR – MITC Total of 468 samples	3 days/wk 156 samples	3 days/wk 156 samples	3 days/wk 156 samples	---
ARB – VOC Total of 65 samples	1 day/6 days 65 samples*	---	---	---
ARB – Metals/Elements Total of 65 samples	1 day/6 days 65 samples*	---	---	---
SJVAPCD – Hydrocarbons Total of 120 samples	---	---	---	4 every 3 days** 120 samples
SJVAPCD – Aldehydes Total of 120 samples	---	---	---	4 every 3 days** 120 samples
ARB – Criteria Pollutants Particulate matter-2.5 microns	Continuous	---	---	---
SJVAPCD–Criteria Pollutants Nitrogen dioxide Ozone	---	---	---	Continuous Continuous

\*In addition, during the month of high use for 1,3-dichloropropene and sulfur sampling will be increased to 1day/3 days for an additional 5 samples.

\*\*Four 3-hour samples collected on one day of every three days between July and September.

Table 11. Township, range and sections used to define the agricultural boundary for the Parlier air monitoring study. Figure 4 shows a map with the boundaries.

Meridian	Township	Range	Section	Township	Range	Section	Township	Range	Section
M	14S	22E	22	15S	22E	17	15S	23E	33
	14S	22E	23	15S	22E	18	15S	23E	34
	14S	22E	24	15S	22E	19	15S	23E	35
	14S	22E	25	15S	22E	20	15S	23E	36
	14S	22E	26	15S	22E	21	16S	21E	1
	14S	22E	27	15S	22E	22	16S	21E	2
	14S	22E	28	15S	22E	23	16S	21E	11
	14S	22E	29	15S	22E	24	16S	21E	12
	14S	22E	31	15S	22E	25	16S	21E	13
	14S	22E	32	15S	22E	26	16S	22E	1
	14S	22E	33	15S	22E	27	16S	22E	2
	14S	22E	34	15S	22E	28	16S	22E	3
	14S	22E	35	15S	22E	29	16S	22E	4
	14S	22E	36	15S	22E	30	16S	22E	5
	14S	23E	28	15S	22E	31	16S	22E	6
	14S	23E	29	15S	22E	32	16S	22E	7
	14S	23E	30	15S	22E	33	16S	22E	8
	14S	23E	31	15S	22E	34	16S	22E	9
	14S	23E	32	15S	22E	35	16S	22E	10
	14S	23E	33	15S	22E	36	16S	22E	11
	14S	23E	34	15S	23E	2	16S	22E	12
	14S	23E	35	15S	23E	3	16S	22E	13
	15S	21E	1	15S	23E	4	16S	22E	14
	15S	21E	11	15S	23E	5	16S	22E	15
	15S	21E	12	15S	23E	6	16S	22E	16
	15S	21E	13	15S	23E	7	16S	22E	17
	15S	21E	14	15S	23E	8	16S	22E	18
	15S	21E	23	15S	23E	9	16S	22E	19
	15S	21E	24	15S	23E	10	16S	22E	20
	15S	21E	25	15S	23E	11	16S	22E	21
	15S	21E	26	15S	23E	12	16S	22E	22
	15S	21E	27	15S	23E	13	16S	22E	23
	15S	21E	34	15S	23E	14	16S	22E	24
	15S	21E	35	15S	23E	15	16S	23E	2
	15S	21E	36	15S	23E	16	16S	23E	3
	15S	22E	1	15S	23E	17	16S	23E	4
	15S	22E	2	15S	23E	18	16S	23E	5
	15S	22E	3	15S	23E	19	16S	23E	6
	15S	22E	4	15S	23E	20	16S	23E	7
	15S	22E	5	15S	23E	21	16S	23E	8
	15S	22E	6	15S	23E	22	16S	23E	9
	15S	22E	7	15S	23E	23	16S	23E	10
	15S	22E	8	15S	23E	24	16S	23E	11
	15S	22E	9	15S	23E	25	16S	23E	15
	15S	22E	10	15S	23E	26	16S	23E	16
	15S	22E	11	15S	23E	27	16S	23E	17
	15S	22E	12	15S	23E	28	16S	23E	18
	15S	22E	13	15S	23E	29	16S	23E	19
	15S	22E	14	15S	23E	30	16S	23E	20
	15S	22E	15	15S	23E	31	16S	23E	21
	15S	22E	16	15S	23E	32			

Table 12. Detection limits and quantitation limits for the monitored pesticides. Detection and quantitation limits are approximate and will vary with the amount of air sampled and interferences present.

<b>Pesticide</b>	<b>Method Detection Limit (ng/m<sup>3</sup>)</b>	<b>Quantitation Limit (ng/m<sup>3</sup>)</b>
Acrolein	688	688
Arsenic	668	668
Azinphos-methyl	7.59	23.2
Carbon disulfide	311	311
Chlorothalonil	13.7	92.6
Chlorpyrifos	5.05	46.3
Chlorpyrifos oxygen analog	2.92	11.6
Copper	393	393
Cypermethrin	4.68	46.3
Diazinon	1.16	11.6
Diazinon oxygen analog	2.08	11.6
Dichlorvos	3.24	46.3
1,3-dichloropropene	454	454
Dicofol	2.13	46.3
Dimethoate	2.31	11.6
Dimethoate oxygen analog	1.94	11.6
Diuron	5.14	23.2
Endosulfan	3.24	46.3
Endosulfan sulfate	4.63	46.3
EPTC	1.67	11.6
Formaldehyde	123	123
Malathion	2.18	11.6
Malathion oxygen analog	1.30	11.6
Metam-sodium (MITC)	5.56	23.2
Methyl bromide	116	116
Metolachlor	2.73	11.6
Molinate	1.81	11.6
Norflurazon	3.75	11.6
Oryzalin	1.39	11.6
Oxyfluorfen	6.39	46.3
Permethrin	7.22	46.3
Phosmet	7.96	23.2
Propanil	2.31	11.6
Propargite	3.80	46.3
SSS-tributyltriphosphorotrithioate (DEF)	1.76	11.6
Simazine	1.20	11.6
Sulfur	1,600	1,600
Thiobencarb	5.60	11.6
Trifluralin	1.67	23.2
Xylene	850	850

Table 13. Health screening levels for pesticides included in the monitoring.

Chemical	Acute <sup>a</sup> Screening Level (ng/m <sup>3</sup> )	Subchronic Screening Level (ng/m <sup>3</sup> )	Chronic Screening Level (ng/m <sup>3</sup> )
Acrolein	190	180	60
Arsenic	30	30	30
Azinphos-methyl	101,000	11,000	6,800
Carbon disulfide	1,550,000	800,000	800,000
Chlorothalonil	34,000	34,000	34,000
Chlorpyrifos	1,200	850	510
Copper	100,000	10,000	10,000
Cypermethrin	40,000	29,000	9,600
Diazinon	130	130	130
1,3-D	160,000	120,000	120,000
Dicofol	68,000	49,000	20,000
Dichlorvos	11,000	2,200	770
Dimethoate	34,000	17,000	850
Diuron	170,000	17,000	5,700
Endosulfan	4,000	2,900	2,900
EPTC	230,000	24,000	8,500
Formaldehyde	19,000	3,000	3,000
Malathion	40,000	29,000	29,000
MITC	66,000	3,000	300
Methyl Bromide	820,000	35,000	3,900
Metolachlor	85,000	15,000	16,000
Molinate	200,000	8,200	b
Naled	920	650	650
Norflurazon	170,000	26,000	26,000
Oryzalin	420,000	230,000	232,000
Oxyfluorfen	510,000	180,000	51,000
Permethrin	168,000	90,000	90,000
Phosmet	77,000	26,000	18,000
Propanil	51,000	51,000	51,000
Propargite	14,000	14,000	14,000
DEF	8,800	8,800	b
Simazine	110,000	31,000	31,000
Sulfur	c	c	c
Thiobencarb	425,000	34,000	17,000
Trifluralin	1,200,000	170,000	41,000
Xylenes	900,000	700,000	700,000

Footnotes

- a. Normalized to 24 hour unless otherwise noted, subchronic and chronic also normalized to 7 days a week
- b. These pesticides have seasonal use only, so there is no chronic exposure.
- c. Insufficient data to derive screening levels.