

# 2022 Annual Statewide Pesticide Use Report Chemical Totals

Text files of data are available at <<https://files.cdpr.ca.gov/pub/outgoing/pur/data/>>. Apps = Number of agricultural applications, N/A = Not Available: many nonagricultural pesticide use reports are not legally required to report area treated or number of applications. See Pesticide Use Annual Report Data Access, References, and Definitions Guide for more information.

Chemical	Pounds Applied	Apps	Area Treated
(3s,6r)-3-methyl-6-isopropenyl-9-decen-1-yl acetate	48.73	2,004	60,565.21
(3s,6s)-3-methyl-6-isopropenyl-9-decen-1-yl acetate	48.73	2,004	60,565.21
(e)-5-decen-1-ol	3.09	47	845.63
(e)-5-decenyl acetate	26.01	66	1,073.97
(e,e)-9, 11-tetradecadien-1-yl acetate	0.08	7	21.2
(s)-kinoprene	311.06	463	608.68
(s)-verbenone	1.84	N/A	N/A
(z)-11-hexadecen-1-yl acetate	335.44	2,132	21,661.03
(z)-11-hexadecenal	335.42	2,131	21,651.33
(z)-9-hexadecenal	19.91	N/A	N/A
(z,z)-11,13-hexadecadienal	2,263.38	2,356	213,435.64
1,3-dibromo-5,5-dimethylhydantoin	284.2	N/A	N/A
1,3-dichloro-5,5-dimethylhydantoin	19,840.82	N/A	N/A
1,3-dichloro-5-ethyl-5-methylhydantoin	10,915.88	N/A	N/A
1,3-dichloropropene	9,748,836.55	2,667	57,076.24
1,4-dimethylnaphthalene	1,519.78	N/A	N/A
1-(2-hydroxyethyl)-2-alkyl-2-imidazoline, alkyl derived from tall oil fatty acids	103.12	N/A	N/A
1-aminocyclopropane-1-carboxylic acid	233.72	15	85.85
1-bromo-3-chloro-5,5-dimethyl hydantoin	49,097.47	5	42.0
1-methylcyclopropene	0.42	28	2.24
1-naphthaleneacetamide	5.85	6	75.51
1080	0.98	2	400.0
2,2-dibromo-3-nitrilopropionamide	34,292.52	1	160.5
2,4-d	7,955.97	284	11,782.7
2,4-d, 2-ethylhexyl ester	20,007.95	172	5,755.95
2,4-d, butoxyethanol ester	3,184.7	13	1,397.0
2,4-d, diethanolamine salt	2,591.15	269	6,032.73
2,4-d, dimethylamine salt	316,951.54	6,988	281,612.22
2,4-d, isooctyl ester	399.46	3	133.85
2,4-d, isopropyl ester	12,943.99	6,895	153,552.05

Chemical	Pounds Applied	Apps	Area Treated
2,4-d, triethylamine salt	11.14	1	13.0
2,4-d, triisopropanolamine salt	599.13	1	0.5
2,4-d, triisopropylamine salt	44.57	N/A	N/A
2,4-decadienoic acid, ethyl ester, (2e,4z)-	0.49	22	322.0
2,4-dichlorophenoxyacetic acid, choline salt	38,239.38	1,503	70,239.17
2,4-dp, isoctyl ester	0.02	N/A	N/A
2,4-dp-p, dimethylamine salt	25.11	1	13.0
2,4-dp-p, isoctyl ester	2,220.29	50	1,798.55
2,4-xylenol	0.53	4	63.32
2-(2,4-dp), dimethylamine salt	2.35	N/A	N/A
2-(2-(p-(diisobutyl) phenoxy) ethoxy) ethyl dimethylbenzyl ammonium chloride	1.2	N/A	N/A
2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate	107,435.78	22,461	473,430.98
2-butoxyethanol	4,166.66	748	22,536.31
2-ethylhexyl sulfate, sodium salt	3.66	1	9.0
2-methyl-1-butanol	2.41	N/A	N/A
2-methyl-1-naphthalene acetamide	<0.01	1	0.01
2-methyl-1-naphthalene acetic acid	<0.01	1	0.01
2-methyl-4-isothiazolin-3-one	19,090.18	N/A	N/A
2-naphthol	0.41	2	2.0
2-propenoic acid, telomer with sodium hydrogen sulfite	58.15	397	15,728.59
3,7-dimethyl-6-octen-1-ol	41.99	136	2,327.76
3-(trihydroxysilyl) propyl dimethyl octadecyl ammonium chloride	0.05	N/A	0.06
3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	0.62	N/A	N/A
3-chloro-p-toluidine hydrochloride	0.43	6	6.0
3-iodo-2-propynyl butylcarbamate	2,102.1	N/A	N/A
4,4-dimethyl oxazolidine	12.05	1	11.1
4-(2,4-db), dimethylamine salt	52,789.0	951	56,361.31
4-aminopyridine	15.13	2	438.0
4-nonylphenol, formaldehyde resin, propoxylated	103,692.35	31,964	910,750.65
4-vinylcyclohexenediepoxyde	0.75	N/A	N/A
5,5-dimethylhydantoin	19,372.3	N/A	N/A
5-chloro-2-methyl-4-isothiazolin-3-one	53,802.18	N/A	N/A
Abamectin	42,139.88	62,971	2,176,168.01
Abamectin, other related	0.03	N/A	N/A
Acephate	117,919.16	11,373	113,543.47
Acequinocyl	16,671.56	2,129	42,333.28
Acetamiprid	61,848.55	22,730	561,174.13
Acetic acid	571.21	105	2,528.82
Acibenzolar-s-methyl	2,002.04	7,284	69,158.62

Chemical	Pounds Applied	Apps	Area Treated
Acid blue 9, diammonium salt	935.04	25	710.0
Acid blue 9, disodium salt	<0.01	3	N/A
Acrolein	36,419.64	4	N/A
Acrylamide/sodium acrylate copolymer	283.69	234	14,690.83
Acrylic acid	7,558.65	1,547	83,379.25
Afidopyropen	7,890.35	9,277	279,547.51
Agrobacterium radiobacter	52.43	23	379.85
Alachlor	9.02	1	3.0
Alcohol alkoxyolate	129.13	189	15,486.03
Alcohol ethoxyolate phosphate ester	54.42	44	43.25
Alcohols, c12 - c13, ethoxylated	181.4	2	43.0
Alcohols, c12-c14, aliphatic	1,252.23	N/A	N/A
Alkyl (50%c12, 30%c14, 17%c16, 3%c18) dimethylethylbenzyl ammonium chloride	0.3	N/A	N/A
Alkyl (50%c14, 40%c12, 10%c16) dimethylbenzyl ammonium chloride	26,562.32	67	186.6
Alkyl (50%c14, 40%c12, 10%c16) dimethylbenzyl ammonium saccharinate	0.01	N/A	N/A
Alkyl (58%c14, 28%c16, 14%c12) dimethylbenzyl ammonium chloride	1.7	1	26.5
Alkyl (60%c14, 30%c16, 5%c12, 5%c18) dimethylbenzyl ammonium chloride	7,580.65	175	281.41
Alkyl (61%c12, 23%c14, 11%c16, 5%c8,c10,c18) dimethylbenzyl ammonium chloride	0.08	1	N/A
Alkyl (61%c12,23%c14,11%c16,2.5%c8 & c10,2.5%c18) dimethyl benzyl ammonium chloride	0.3	N/A	N/A
Alkyl (67%c12, 25%c14, 7%c16, 1%c18) dimethylbenzyl ammonium chloride	313.59	N/A	N/A
Alkyl (68%c12, 32%c14) dimethylethylbenzyl ammonium chloride	5,550.96	139	245.95
Alkyl (as in fatty acids of coconut oil) monoethanolamide	6.57	N/A	N/A
Alkyl (c10-16) dimethyl amine oxide	2,104.59	386	9,243.28
Alkyl (c8,c10) polyglucoside	102,425.65	22,823	601,243.46
Alkyl (c9-c11) oligomeric d-glucopyranoside	5,363.64	1,484	71,082.78
Alkyl benzene sulfonic acid	1.24	1	9.0
Alkyl dimethyl ethylbenzyl ammonium cyclohexyl sulfamate	4.78	N/A	N/A
Alkyl(42%c12, 26%c18, 15%c14, 8%c16, 5%c10, 4%c8)1,3-propylenediamine	206,495.06	N/A	N/A
Alkylaryl sulfonates	0.88	9	47.0
Allethrin	1.92	19	186.76
Allethrin, other related	<0.01	1	3.51
Allyloxypolyethylene glycol acetate	889.34	482	16,968.58

Chemical	Pounds Applied	Apps	Area Treated
Almond, bitter	<0.01	N/A	N/A
Alpha-(ortho,para-dinonylphenyl)-omega-hydroxypoly(oxyethylene)	0.75	1	10.0
Alpha-(ortho,para-dinonylphenyl)-omega-hydroxypolyoxy(ethylene) phosphate	0.28	1	5.0
Alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)	20,347.92	19,104	450,641.08
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene) sulfate, ammonium salt	363.8	136	8,664.64
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)	1,738,682.57	191,273	7,864,603.51
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), branched	160,292.95	11,862	424,185.76
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester	149,102.13	26,499	1,033,007.18
Alpha-(para-tert-butylphenyl)-omega-hydroxypoly(oxyethylene) phosphate	26,178.36	3,990	177,879.41
Alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)	70,320.21	13,549	381,013.46
Alpha-alkyl (c10-c12)-omega-hydroxypoly(oxyethylene)	0.05	1	0.06
Alpha-alkyl (c10-c14)-omega-hydroxypoly(oxyethylene)	574.97	109	5,582.1
Alpha-alkyl (c10-c16)-omega-hydroxypoly(oxyethylene)	37,306.74	4,574	219,342.21
Alpha-alkyl (c12-c14)-omega-hydroxypoly(oxyethylene)	42,061.96	6,079	300,376.86
Alpha-alkyl (c12-c15)-omega-hydroxypoly(oxyethylene) sulfate, sodium salt	4,586.07	1,620	73,426.98
Alpha-alkyl (c12-c16)-omega-hydroxypoly(oxyethylene)	68.22	10	686.3
Alpha-alkyl (c8-c18)-omega-hydroxypoly(oxyethylene) poly(oxypropylene)	114.24	47	1,051.96
Alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)	212,429.1	46,021	1,512,249.1
Alpha-alkyl (c9-c16)-omega-hydroxypoly(oxyethylene)	152,688.47	14,780	695,283.8
Alpha-alkyl (c9-c18)-omega-hydroxypoly(oxyethylene)	887.16	307	16,184.8
Alpha-alkyl (mixed)-omega-hydroxypoly(oxyethylene) sulfate	21.01	N/A	N/A
Alpha-alkyl (secondary c11-c15)-omega-hydroxypoly(oxyethylene)	3,472.81	294	17,170.76
Alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)	152,166.53	33,189	1,224,504.68
Alpha-alkyl-omega-hydroxypoly(oxyethylene)	35.69	2	68.67
Alpha-alkylaryl-omega-hydroxypoly(oxyethylene)	790.9	175	4,062.79
Alpha-alkylaryl-omega-hydroxypoly(oxyethylene) phosphate	0.68	1	35.0
Alpha-alkylphenyl-omega-hydroxypoly(oxyethylene)	3.07	2	225.0
Alpha-cypermethrin	2,741.9	38	873.33

Chemical	Pounds Applied	Apps	Area Treated
Alpha-decyl-omega-hydroxypoly(oxyethylene) phosphate	0.2	1	11.0
Alpha-dodecyl-omega-hydroxypoly(oxyethylene)	23,488.49	690	86,423.45
Alpha-isodecyl-omega-hydroxypoly(oxyethylene)	7,767.77	2,049	77,453.1
Alpha-isodecyl-omega-hydroxypoly(oxyethylene) phosphate	30,164.55	2,488	85,304.94
Alpha-isooctadecyl-omega-hydroxypoly(oxyethylene)	349.59	N/A	N/A
Alpha-octylphenyl-omega-hydroxypoly(oxyethylene)	4,102.49	675	22,497.07
Alpha-pinene beta-pinene copolymer	207,247.72	26,509	738,866.21
Alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate	39,944.15	14,674	575,639.76
Alpha-undecyl-omega-hydroxypoly(oxyethylene)	461,807.01	70,854	2,302,234.27
Alpha-[para-(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxyethylene) phosphate ester	0.06	1	25.26
Alpha-[para-(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxyethylene)	1,439.48	3,016	39,251.43
Aluminum phosphide	153,945.45	1,362	48,413.61
Ametoctradin	13,791.39	5,442	51,633.39
Aminocyclopyrachlor	62.22	N/A	N/A
Aminocyclopyrachlor, potassium salt	3,165.11	N/A	860.79
Aminoethoxyvinylglycine hydrochloride	1,961.63	634	18,922.4
Aminopyralid, triisopropanolamine salt	29,958.68	644	25,915.2
Amitraz	1.98	14	N/A
Ammonium nitrate	64,286.68	19,516	538,072.79
Ammonium nonanoate	10,776.54	166	1,607.06
Ammonium propionate	83,226.13	15,213	447,676.14
Ammonium sulfate	965,946.53	66,913	2,241,802.53
Amyl acetate	660.93	5,345	61,992.13
Ancymidol	0.21	651	425.5
Aromatic 200	63,503.23	3,187	136,625.21
Aspergillus flavus strain af36	21.73	2,565	270,829.36
Aspergillus flavus strain nrri 21882	81.55	945	86,769.31
Atrazine	17,911.78	222	12,618.94
Atrazine, other related	339.6	222	12,618.94
Aureobasidium pullulans strain dsm 14940	1,651.73	236	7,096.63
Aureobasidium pullulans strain dsm 14941	1,651.73	236	7,096.63
Azadirachtin	11,251.23	24,994	212,831.24
Azoxystrobin	220,352.23	28,897	1,118,743.38
Bacillus amyloliquefaciens strain d747	248,744.24	6,317	58,588.4
Bacillus amyloliquefaciens strain f727	30,000.65	1,108	5,818.69
Bacillus amyloliquefaciens strain mbi 600	3,350.78	1,691	53,462.76
Bacillus firmus (strain i-1582)	21.0	N/A	6.0
Bacillus mycoides isolate j	219.97	560	3,395.68
Bacillus pumilus, strain qst 2808	7,329.23	5,096	75,017.02

Chemical	Pounds Applied	Apps	Area Treated
<b>Bacillus sphaericus 2362, serotype h5a5b, strain abts 1743 fermentation solids, spores and insecticidal toxins</b>	6,875.96	N/A	1,288.0
<b>Bacillus subtilis strain iab/bs03</b>	53.42	1,057	24,726.62
<b>Bacillus thuringiensis (berliner)</b>	13.6	151	205.51
<b>Bacillus thuringiensis (berliner), subsp. aizawai, gc-91 protein</b>	66,016.63	6,542	79,102.18
<b>Bacillus thuringiensis (berliner), subsp. aizawai, serotype h-7</b>	40.39	162	362.05
<b>Bacillus thuringiensis (berliner), subsp. israelensis, serotype h-14</b>	4,234.11	128	443.84
<b>Bacillus thuringiensis (berliner), subsp. kurstaki strain sa-12</b>	243.58	80	106.06
<b>Bacillus thuringiensis (berliner), subsp. kurstaki, serotype 3a,3b</b>	4.35	29	53.73
<b>Bacillus thuringiensis (berliner), subsp. kurstaki, strain sa-11</b>	124,470.51	7,465	134,268.72
<b>Bacillus thuringiensis ssp kurstaki, strain evb 113-19</b>	35,662.42	2,577	123,499.78
<b>Bacillus thuringiensis subsp. israelensis, strain sum-6218</b>	0.01	N/A	N/A
<b>Bacillus thuringiensis subspecies kurstaki, genetically engineered strain eg7841 lepidopteran active toxin</b>	9,200.23	2,126	18,931.82
<b>Bacillus thuringiensis, subsp. aizawai, strain abts-1857</b>	161,994.22	19,555	191,218.56
<b>Bacillus thuringiensis, subsp. aizawai, strain sd-1372, lepidopteran active toxin(s)</b>	3.42	35	27.02
<b>Bacillus thuringiensis, subsp. israelensis, strain am 65-52</b>	58,254.83	1,485	2,742.36
<b>Bacillus thuringiensis, subsp. kurstaki, strain abts-351, fermentation solids and solubles</b>	112,965.67	12,079	168,029.33
<b>Bacillus thuringiensis, subsp. kurstaki, strain hd-1</b>	18.74	29	198.89
<b>Bacillus velezensis</b>	1.85	N/A	144.8
<b>Bacteriophages active against xylella fastidiosa</b>	<0.01	19	36.32
<b>Bandane</b>	0.02	N/A	N/A
<b>Beauveria bassiana hf23</b>	38.72	N/A	95.58
<b>Beauveria bassiana strain ant-03</b>	4,687.03	1,408	5,451.31
<b>Beauveria bassiana strain gha</b>	9,049.59	4,689	28,675.74
<b>Beauveria bassiana strain ppri 5339</b>	39.81	453	428.57
<b>Bendiocarb</b>	0.9	N/A	N/A
<b>Benefin</b>	5,723.36	149	6,429.8
<b>Bensulfuron methyl</b>	313.42	93	6,220.93
<b>Bensulide</b>	327,047.84	10,496	90,408.17
<b>Bentazon, sodium salt</b>	6,775.35	480	5,779.49
<b>Bentonite</b>	90,856.43	3,239	65,257.91
<b>Benzenesulfonic acid, c10-16-alkyl derivatives</b>	918.12	2,905	32,973.68
<b>Benzobicyclon</b>	28,533.87	1,636	124,391.86
<b>Benzoic acid</b>	3,618.72	20,214	477,819.78

Chemical	Pounds Applied	Apps	Area Treated
Benzovindiflupyr	7,801.0	1,318	32,101.13
Beta-conglutin	11,816.24	1,034	25,012.21
Beta-cyfluthrin	16,955.25	15,501	347,964.89
Beta-pinene polymer	261.39	67	1,209.0
Bifenazate	303,868.96	12,661	481,744.37
Bifenthrin	304,990.35	30,841	1,357,673.42
Bis butenylene tetrahydro furfural	0.11	1	0.2
Bis(trichloromethyl) sulfone	0.06	N/A	N/A
Bispyribac-sodium	1,546.34	674	46,750.63
Borax	145,076.7	1,148	39,727.43
Boric acid	884,284.91	35	158.52
Boscalid	101,374.37	20,628	361,157.51
Brodifacoum	0.71	5	14.22
Bromacil	13,801.51	64	919.93
Bromadiolone	3.38	278	4,590.75
Bromethalin	110.06	97	509.84
Bromoxynil heptanoate	12,085.67	1,210	54,773.82
Bromoxynil octanoate	37,262.4	2,030	105,983.62
Bronopol	1,784.68	N/A	N/A
Buprofezin	277,759.76	5,688	272,568.92
Burkholderia rinojensis strain a396	587,377.32	8,067	116,135.57
Butoxy polypropylene glycol	0.83	1	0.2
Butyl alcohol	25,028.23	7,507	367,879.04
Butyl lactate	4,127.37	1,941	79,284.1
Cacodylic acid	0.71	N/A	10.0
Cadmium chloride	0.1	1	1.0
Calcium carbonate	153,664.08	N/A	N/A
Calcium chloride	15,194.87	5,882	242,190.09
Calcium hydroxide	4,093,609.97	9,292	209,488.26
Calcium hypochlorite	24,129.39	1,920	968.24
Canola oil	1,482.43	2,157	36,608.91
Capric acid	220,008.61	3,027	45,571.94
Caprylic acid	308,266.46	3,030	45,600.44
Capsicum oleoresin	255.42	1,081	2,759.11
Captan	332,669.43	5,528	186,860.7
Captan, other related	3,364.56	2,515	82,625.48
Carbaryl	84,127.68	2,959	106,089.37
Carbo methoxy ether cellulose, sodium salt	24.04	538	5,981.49
Carbon	952.41	11	427.0
Carbon dioxide	41,042.07	1	7.0
Carboxin	13.13	N/A	N/A
Carfentrazone-ethyl	12,237.21	18,640	568,184.84

Chemical	Pounds Applied	Apps	Area Treated
Casein	6,767.63	3,234	65,142.41
Castor oil	7.5	1	4.5
Castor oil ethoxylate	24,412.75	8,066	260,805.43
Cerevisane (cell walls of saccharomyces cerevisiae strain las117)	173.44	107	386.01
Chenopodium ambrosiodes near ambrosiodes	22.63	16	25.44
Chlorantraniliprole	170,759.89	44,156	2,140,107.82
Chlordane	0.28	2	2.0
Chlordecone	0.09	N/A	N/A
Chlorfenapyr	26,669.36	676	2,454.47
Chlorflurenol, methyl ester	49.24	N/A	N/A
Chlorine	510,828.42	N/A	N/A
Chlorine dioxide	3,613.1	N/A	N/A
Chlormequat chloride	559.73	1,530	4,207.97
Chlorophacinone	9.11	388	16,976.59
Chloropicrin	8,769,969.63	2,356	49,077.43
Chlorothalonil	800,484.94	12,537	358,175.04
Chlorpropham	1,528.59	N/A	N/A
Chlorpyrifos	1,838.76	26	374.22
Chlorsulfuron	2,190.84	45	5,461.14
Chlorthal-dimethyl	192,599.39	6,100	44,290.65
Cholecalciferol	309.95	N/A	N/A
Choline chloride	14.04	N/A	N/A
Chromobacterium subsugae strain praa4-1	34,568.82	4,656	44,551.77
Cinnamaldehyde	1,567.18	74	3,449.57
Citric acid	212,843.0	65,631	2,284,031.16
Clarified hydrophobic extract of neem oil	42,792.26	3,402	13,286.54
Clethodim	182,854.99	28,712	1,142,467.82
Clofentezine	22,238.03	1,758	97,787.19
Clomazone	18,471.52	603	44,370.09
Clonostachys rosea strain j1446	94.83	35	247.04
Clopyralid	0.06	N/A	N/A
Clopyralid, monoethanolamine salt	7,965.09	599	26,348.88
Clopyralid, triethylamine salt	102.38	6	125.99
Clothianidin	17,005.92	4,528	101,774.2
Coal tar neutral oils and coal tar acid combinations	28.33	2	11.0
Coconut diethanolamide	21,092.96	4,606	111,968.28
Coconut imidazoline sodium carboxylate	0.03	N/A	N/A
Coconut oil amine acetate	0.78	10	57.0
Codling moth granulosis virus	0.36	283	2,855.99
Complex carbohydrate polymer derivative	6.84	10	90.0
Coniothyrium minitans strain con/m/91-08	871.03	365	7,207.04



Chemical	Pounds Applied	Apps	Area Treated
Copper	3,281.41	51	961.55
Copper 8-quinolinoleate	0.04	N/A	N/A
Copper ammonium carbonate	167.54	N/A	N/A
Copper ammonium complex	74.59	26	13.56
Copper carbonate, basic	1,862.93	N/A	N/A
Copper citrate chelate	347.66	N/A	N/A
Copper diammonium diacetate complex	1,019.47	79	238.17
Copper ethanolamine complexes, mixed	1,170,348.03	63	6,428.24
Copper ethylenediamine complex	13,848.11	3	646.0
Copper gluconate chelate	336.88	N/A	N/A
Copper hydroxide	2,100,732.7	32,393	992,378.91
Copper monoethanolamine complex	0.03	1	0.01
Copper naphthenate	7,586.83	1	0.05
Copper octanoate	15,312.26	4,592	24,318.89
Copper oxychloride	378,150.27	9,549	295,514.68
Copper oxychloride sulfate	392.02	13	346.54
Copper salts of fatty and rosin acids	138.42	11	20.64
Copper sulfate (anhydrous)	1.48	N/A	N/A
Copper sulfate (basic)	891,985.75	9,189	236,455.81
Copper sulfate (pentahydrate)	1,213,978.64	2,683	167,295.31
Copper triethanolamine complex	15,427.95	8	250.0
Copper-zinc sulfate complex	1,458.0	1	400.0
Corn gluten meal	6.31	N/A	N/A
Corn product, hydrolyzed	80,328.72	3,259	72,951.33
Corn steep liquor	128,032.4	1,026	36,148.23
Corn syrup	19,564.89	1,393	48,967.33
Cottonseed oil	10,958.92	181	8,079.5
Coyote urine	26.8	N/A	N/A
Cryolite	205,197.68	920	24,330.28
Cube extracts	0.14	2	17.5
Cuprous oxide	196,831.12	3,841	75,911.4
Cyanazine	0.82	N/A	N/A
Cyantraniliprole	57,708.08	26,656	381,700.99
Cyanuric acid	N/A	1	29.0
Cyazofamid	3,615.94	3,075	22,806.93
Cyclanilide	1,429.86	495	20,595.23
Cyclaniliprole	876.65	1,686	17,223.16
Cycloate	40,465.59	2,690	20,296.2
Cyflufenamid	7,524.71	8,957	280,461.95
Cyflumetofen	77,464.73	9,364	426,462.0
Cyfluthrin	13,116.07	7,498	228,301.88
Cyhalofop-butyl	8,747.37	491	27,505.47

Chemical	Pounds Applied	Apps	Area Treated
Cymoxanil	5,952.17	2,096	41,191.01
Cypermethrin	16,918.43	565	11,024.91
Cyprodinil	114,062.05	14,249	390,042.82
Cyromazine	3,907.79	2,901	24,331.94
Cytokinin (as kinetin)	<0.01	1	38.0
D-allethrin	3.83	N/A	N/A
D-allethrin, other related	0.25	N/A	N/A
D-trans allethrin	8.47	N/A	N/A
Daminozide	4,609.17	2,925	9,939.73
Dazomet	30,661.77	3	10.0
Ddvp	4,944.02	1	2,192.49
Ddvp, other related	95.03	1	1,794.49
Decyl phenoxy benzene disulfonic acid, disodium salt	1,533.32	1,063	46,629.63
Deet	13.2	12	15.02
Deet, other related	0.69	12	15.02
Deltamethrin	24,959.92	7	27.26
Deltamethrin, other related	<0.01	N/A	N/A
Dextrin	0.37	N/A	N/A
Dialkyl phthalate	0.97	1	7.5
Diatomaceous earth	778,768.34	5,268	51,962.31
Diatomaceous earth, other related	7,768.46	108	3,352.52
Diazinon	42,553.43	682	17,131.5
Dicamba	1,335.77	138	3,810.67
Dicamba, dimethylamine salt	4,218.55	399	15,943.14
Dicamba, dimethylamine salt, other related	2.4	2	3.01
Dicamba, sodium salt	3,972.76	558	29,625.88
Dichlobenil	54,941.89	1	1.0
Dicloran	10,739.45	1,020	9,383.77
Didecyl dimethyl ammonium chloride	495.83	252	623.2
Diethanolamine	49.18	49	3,714.32
Diethylene glycol	174,626.24	22,899	1,200,673.4
Difenoconazole	67,923.24	13,561	601,920.58
Difethialone	1.3	14	147.68
Diflubenzuron	25,502.39	6,000	132,960.63
Diflufenzopyr, sodium salt	1,129.92	453	24,638.28
Diglycerides of fatty acids	41.53	N/A	47.2
Diglycolamine salt of 3,6-dichloro-o-anisic acid	41,007.67	2,041	114,640.54
Diiodomethyl p-tolyl sulfone	571.07	N/A	N/A
Dikegulac sodium	4,121.55	144	175.94
Dimethenamid-p	15,025.51	1,054	21,189.79
Dimethoate	86,637.19	4,659	272,558.93
Dimethomorph	20,913.03	11,133	105,632.0

Chemical	Pounds Applied	Apps	Area Treated
Dimethyl alkyl tertiary amines	3,949.25	20,214	477,819.78
Dimethyl and methyl naphthalene sulfonic acid, sodium salt	0.03	N/A	N/A
Dimethyl dicocoalkyl ammonium chloride	0.06	1	10.0
Dimethyl dicocoalkyl ammonium salt with naphthalenesulfonic acid, formaldehyde condensate	342.85	143	9,548.48
Dimethyl silicone fluid emulsion	1,292.2	16,817	189,617.19
Dimethylpolysiloxane	183,124.98	130,759	4,633,142.88
Dinotefuran	67,756.92	5,020	74,354.86
Diocetyl dimethyl ammonium chloride	7,094.89	8	32.0
Diocetyl phthalate	16.82	4	220.0
Diphacinone	84.01	3,341	146,443.68
Diphacinone, sodium salt	1.48	2	48.65
Dipropyl isocinchomerate	0.12	1	0.2
Dipropylene glycol	1.59	1	N/A
Dipropylene glycol methyl ether	50.91	190	8,755.08
Diquat dibromide	103,242.91	5,559	37,123.51
Disodium lauryl sulfosuccinate	2.24	N/A	N/A
Disodium octaborate anhydrous	11,536.27	N/A	N/A
Disodium octaborate tetrahydrate	286,960.47	11	1,028.83
Disodium phosphate	545.18	45	282.9
Disulfoton	1.09	N/A	N/A
Dithiopyr	53,213.63	1,438	3,843.82
Diuron	92,716.31	3,553	188,197.38
Dodecyl dimethyl benzyl ammonium naphthenate	0.06	1	0.08
Dodecyl guanidine hydrochloride	5.77	N/A	N/A
Dodecylbenzene sulfonic acid	1,071.5	2,986	38,541.29
Dodecylbenzene sulfonic acid, calcium salt	95.11	1,621	35,172.15
Dodine	1,846.66	52	1,456.51
Dsma	0.67	N/A	N/A
E,e-8,10-dodecadien-1-ol	1,327.29	496	13,861.31
E-11-tetradecen-1-yl acetate	4.5	162	2,745.35
E-8-dodecenyl acetate	223.78	2,931	39,392.02
Edta	1,805.49	2,125	124,937.95
Edta, tetrasodium salt	67.81	3,036	38,678.26
Emamectin benzoate	3,092.25	13,549	194,908.73
Emulsifiable methylated vegetable oil	178,350.99	18,979	325,550.02
Emulsifiable polyethylene	7.81	16	46.25
Endosulfan	58.81	N/A	N/A
Endothall, dipotassium salt	53,069.73	N/A	2,205.83
Endothall, disodium salt	14,400.87	N/A	N/A
Endothall, mono [n,n-dimethyl alkylamine] salt	89,319.54	1	707.06

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Area Treated</b>
Epn	10.87	N/A	N/A
Eptc	153,580.43	960	57,361.77
Esbiothrin	0.02	N/A	N/A
Esfenvalerate	36,761.75	15,344	484,094.38
Essential oils	2.39	10	134.5
Ethaboxam	1.6	N/A	N/A
Ethalfuralin	20,877.74	397	16,798.54
Ethanolamine	6,229.83	4,824	113,691.14
Ethephon	333,362.03	8,628	381,928.23
Ethion	0.5	1	0.5
Ethofumesate	9,991.36	165	8,449.91
Ethoprop	14,200.11	230	3,427.58
Ethyl alcohol	442.07	11	140.4
Ethylene	1,531.09	163	17.6
Ethylene glycol	32,430.88	5,968	113,282.33
Ethylene glycol monomethyl ether	493.77	769	3,496.85
Etofenprox	1,241.09	N/A	N/A
Etoxazole	63,900.16	11,321	505,975.09
Eugenol	0.02	N/A	N/A
Famoxadone	2,879.46	670	23,420.59
Farnesol	16.82	136	2,327.76
Fatty acids derived from tallow	16,827.36	6,079	300,376.86
Fatty acids, c16-18 and c18-unsaturated, branched and linear	817.53	1,710	65,010.41
Fatty acids, c16-c18 and c18-unsaturated, methyl esters	293,559.31	27,726	748,204.62
Fatty acids, methyl esters	359,008.37	8,176	302,861.13
Fatty acids, mixed	153,790.6	36,819	1,734,897.54
Fenamidone	16,570.16	5,679	70,427.63
Fenarimol	2.24	5	18.81
Fenazaquin	84,856.33	2,473	128,374.7
Fenbuconazole	2,309.26	854	25,200.68
Fenbutatin-oxide	7,955.39	363	7,290.13
Fenhexamid	56,627.36	4,464	104,907.4
Fenoxaprop-p-ethyl	67.7	52	1,083.3
Fenoxycarb	0.67	3	54.34
Fenpropathrin	52,537.58	5,987	154,547.13
Fenpyroximate	31,619.11	6,114	258,071.3
Fenthion	0.11	N/A	N/A
Fenugreek	0.29	N/A	N/A
Fenvalerate	3.25	1	0.5
Ferric sodium edta	4,153.15	293	5,921.52
Ferric sulfate (anhydrous)	6.61	N/A	N/A

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Area Treated</b>
Ferrous sulfate	0.17	N/A	N/A
Fipronil	20,741.42	3	35.98
Flazasulfuron	1,603.37	2,582	52,673.05
Flonicamid	31,854.03	12,702	366,336.3
Florasulam	42.21	N/A	30.0
Fluazifop-butyl	79.05	9	45.0
Fluazifop-p-butyl	26,827.36	2,973	84,309.39
Fluazinam	5,272.3	255	3,430.05
Flubendiamide	176.1	93	3,233.45
Fludioxonil	47,537.07	10,498	188,869.07
Fluensulfone	3,349.84	45	2,048.88
Flumioxazin	107,298.65	13,994	404,208.16
Fluopicolide	3,949.81	4,185	32,687.66
Fluopyram	69,791.45	21,532	723,000.31
Fluoxastrobin	33.17	46	83.11
Flupyradifurone	67,254.39	18,902	460,757.68
Flurecol-methyl	11.75	N/A	N/A
Fluridone	2,476.95	6	3,312.7
Fluroxypyr, 1-methylheptyl ester	814.54	15	229.17
Flurprimidol	1,585.42	388	2,713.74
Flutianil	643.46	773	30,628.11
Flutolanil	3,877.05	33	1,010.26
Flutriafol	26,978.4	6,661	271,412.52
Fluxapyroxad	51,548.23	11,102	511,647.25
Foramsulfuron	207.54	50	1,076.88
Forchlorfenuron	154.78	1,013	46,963.46
Formaldehyde	5,137.8	N/A	N/A
Formetanate hydrochloride	55,718.81	2,456	50,777.38
Formic acid	236.49	19	300.0
Fosetyl-al	141,225.98	6,835	47,842.73
Fox urine	7.73	N/A	N/A
Free fatty acids and/or amine salts	194.17	7	1.53
Freon 12	12.5	N/A	N/A
Gamma-cyhalothrin	1,097.91	N/A	N/A
Garlic	736.38	1,058	2,664.78
Geraniol	42.0	136	2,327.76
Gibberellins	17,359.14	16,245	466,835.63
Gliocladium virens gl-21 (spores)	0.27	10	2.15
Glufosinate-ammonium	1,781,692.3	63,983	1,799,657.43
Glutaraldehyde	86,679.7	29	128.48
Glycerine	213.95	29	1,260.03
Glycerol	114,311.48	15,177	532,466.64

Chemical	Pounds Applied	Apps	Area Treated
Glyphosate	448.31	5	307.0
Glyphosate, diammonium salt	14,493.46	229	6,750.11
Glyphosate, dimethylamine salt	191,940.03	2,072	70,771.17
Glyphosate, isopropylamine salt	5,141,182.84	75,976	2,200,147.6
Glyphosate, monoammonium salt	16,431.83	8	136.43
Glyphosate, potassium salt	4,399,453.34	67,019	2,236,400.65
Glyphosate-trimesium	59.98	1	40.0
Gs-omega/kappa-hctx-hv1a (versitide peptide)	11,986.43	4,071	130,704.48
Guar gum	10.65	N/A	N/A
Halosulfuron-methyl	8,510.64	2,865	168,607.59
Harpin protein	0.52	8	375.74
Heptamethyltrisiloxane ethoxylated	60,826.46	12,496	571,140.33
Heptamethyltrisiloxane-1,3-propanediol ether, ethoxylated propoxylated	81,049.08	22,405	566,871.16
Heptyl butyrate	8.97	N/A	N/A
Hexaflumuron	0.04	N/A	N/A
Hexazinone	62,891.25	1,195	68,639.46
Hexylene glycol	3,220.02	N/A	N/A
Hexythiazox	69,768.54	9,089	400,428.75
Humic acid	3,574.86	2,125	124,937.95
Hydramethylnon	449.15	399	3,881.74
Hydrogen chloride	854.66	8	18.55
Hydrogen cyanamide	532,002.23	1,233	38,499.7
Hydrogen peroxide	430,996.72	14,042	199,929.99
Hydroprene	8,489.93	9	3.85
Hydrotreated paraffinic solvent	2,989.42	343	18,090.16
Hypochlorous acid	0.01	N/A	N/A
Iba	34.68	1,533	2,182.77
Imazalil	21,178.98	11	N/A
Imazalil sulfate	20,093.42	10	N/A
Imazamox, ammonium salt	6,759.83	1,473	85,207.72
Imazapic, ammonium salt	3.72	1	3.0
Imazapyr, isopropylamine salt	53,842.22	1,887	65,832.92
Imazethapyr	16.84	2	70.0
Imazethapyr, ammonium salt	4,160.44	941	56,585.41
Imazosulfuron	1,380.05	108	7,815.7
Imidacloprid	318,995.68	44,444	980,061.75
Imiprothrin	0.01	N/A	N/A
Indaziflam	39,235.46	24,650	664,744.49
Indole	0.01	N/A	N/A
Indoxacarb	30,329.21	10,760	284,085.47
Iodine	2.49	N/A	N/A

Chemical	Pounds Applied	Apps	Area Treated
Iodosulfuron-methyl-sodium	1.22	10	58.85
Iprodione	38,551.9	4,768	31,947.86
Iron hedta	185.3	N/A	N/A
Iron phosphate	3,638.7	1,097	12,505.47
Isaria fumosorosea strain fe 9901	454.97	673	1,037.65
Isodecyl alcohol	212.93	45	2,650.03
Isfetamid	11,093.67	1,406	46,898.9
Isooctyl phthalate	500.74	769	3,496.85
Isoparaffinic hydrocarbons	13,133.63	642	20,969.93
Isopropyl alcohol	38,205.83	28,667	824,581.58
Isopropylamine dodecylbenzene sulfonate	1,480.58	3,077	135,547.81
Isoxaben	25,292.23	3,284	14,529.9
Kaolin	2,862,924.43	3,184	77,820.39
Kasugamycin hydrochloride	2,352.56	711	24,583.24
Kerosene	19.55	N/A	N/A
Kinoprene	3.42	6	1.68
Kresoxim-methyl	26,879.84	2,016	87,515.07
Lactic acid	15.12	1	13.59
Lactose	6,814.39	3,239	65,257.91
Lambda-cyhalothrin	108,017.0	67,896	2,394,279.31
Laminarin	227.53	319	5,960.91
Lauric acid	4,169.15	1,620	73,426.98
Lauryl alcohol	357.45	236	4,728.77
Lauryl dimethylamine oxide	531.66	193	4,656.9
Lavandulyl senecioate	3,158.75	6,022	221,978.24
Lecithin	736,336.9	82,311	2,767,160.86
Lignin sulfonic acid, calcium salt	25.22	2	23.0
Lignin sulfonic acid, magnesium salt	7.63	2	10.0
Lignin sulfonic acid, zinc salt	60.06	6	27.5
Lime-sulfur	1,168,482.48	3,123	104,082.97
Limonene	33,262.7	643	20,806.37
Linalool	0.09	N/A	N/A
Lindane	2.22	1	1.4
Linuron	44,768.56	3,368	65,810.06
Low molecular weight paraffinic oil	2,554.2	5,196	101,986.88
Magnesium chloride	8.02	N/A	N/A
Magnesium phosphide	15,369.97	4	3.0
Malathion	450,398.46	8,785	173,905.13
Maleic hydrazide, potassium salt	9,523.45	92	3,128.28
Malic acid	0.06	1	25.26
Mancozeb	996,511.41	28,621	555,197.62
Mandestrobin	8.37	N/A	N/A

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Area Treated</b>
Mandipropamid	25,203.56	19,386	199,752.13
Maneb	165.4	40	95.44
Manganese sulfate	208.15	36	6,914.1
Margosa oil	70,163.41	3,484	43,245.23
Mcpa, 2-ethyl hexyl ester	93.84	1	25.0
Mcpa, dimethylamine salt	63,212.56	1,837	99,125.13
Mcpa, isooctyl ester	1,247.41	N/A	N/A
Mcpp	22.59	N/A	N/A
Mcpp, dimethylamine salt	115.64	124	71.95
Mcpp, potassium salt	38.6	22	12.04
Mcpp-p, dimethylamine salt	1,286.1	10	326.01
Mcpp-p, potassium salt	363.33	N/A	30.0
Mecoprop-p	1,499.9	74	1,456.35
Mefenoxam	88,319.07	14,149	276,094.52
Mefenoxam, other related	76.26	4,172	11,597.21
Mefentrifluconazole	16,636.76	2,100	124,918.32
Mefluidide, diethanolamine salt	106.99	N/A	N/A
Mepiquat chloride	5,271.14	2,548	128,844.95
Mesosulfuron-methyl	263.86	319	20,787.38
Mesotrione	12,232.96	1,938	75,042.57
Meta-cresol	0.53	4	63.32
Metaflumizone	339.67	5,556	365,734.85
Metalaxyl	3,937.41	99	2,622.49
Metaldehyde	38,360.63	4,223	70,718.81
Metallic silver	<0.01	2	2.4
Metam-sodium	3,630,275.72	460	18,209.4
Metconazole	37,804.63	6,018	350,576.33
Methiocarb	557.09	226	303.34
Methomyl	251,948.68	26,971	384,232.54
Methoprene	1,018.36	7	314.79
Methoxychlor	0.46	N/A	N/A
Methoxychlor, other related	0.06	N/A	N/A
Methoxyfenozide	541,448.82	34,614	1,842,632.89
Methyl anthranilate	1,536.71	204	3,691.92
Methyl bromide	1,618,797.34	378	5,825.48
Methyl cellulose	16.52	3	215.0
Methyl esters of cottonseed oil	198.13	5	141.03
Methyl eugenol	1,202.88	N/A	N/A
Methyl parathion	21.73	1	7.0
Methyl silicone resins	222,518.38	24,564	675,120.39
Methyl-2,7-dichloro-9-hydroxyfluorene-9-carboxylate	8.95	N/A	N/A
Methylated fatty acids from canola oil	260,493.71	4,026	146,875.53



Chemical	Pounds Applied	Apps	Area Treated
Methylated silica	38.67	43	2,943.0
Methylated soybean oil	2,392,442.76	125,592	4,120,044.33
Methylene bis(thiocyanate)	2.89	N/A	N/A
Methylene chloride	6.88	N/A	N/A
Metiram	28.52	1	6.4
Metofluthrin	10.21	N/A	N/A
Metolachlor	24,123.95	331	15,061.83
Metrafenone	45,738.14	4,221	163,341.44
Metribuzin	35,173.37	1,496	68,917.81
Milbemectin	1.09	3	5.0
Mineral oil	34,390,364.77	144,554	4,529,760.1
Modified phthalic glycerol alkyd resin	169,194.42	15,460	549,307.97
Molasses	18,030.92	55	1,319.55
Morpholine	223.79	773	3,716.85
Msma	13,766.06	57	2,572.6
Muscalure	9.56	9	19.38
Myclobutanil	34,212.54	13,752	288,453.61
Myristyl alcohol	72.61	236	4,728.77
Myrothecium verrucaria, dried fermentation solids & solubles, strain aarc-0255	13,030.27	239	2,611.57
N,n-bis-(2-(omega-hydroxypoly(oxyethylene)/poly(oxypropylene))ethyl)alkyl (c8-c18) amine	9,928.91	243	12,781.99
N,n-bis-(2-(omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids	142,567.19	62,870	2,041,540.51
N-(2-hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt	<0.01	N/A	N/A
N-dialkyl (60%c14, 30%c16, 5%c12, 5%c18) methyl benzyl ammonium chloride	8.27	N/A	N/A
N-methyl-n-oleoyltaurine, sodium salt	16.24	10	90.0
N-octyl bicycloheptene dicarboximide	17,270.61	20	189.76
N6-benzyl adenine	272.19	2,060	3,611.04
Naa	7.42	695	28.82
Naa, ammonium salt	233.45	50	1,950.8
Naa, ethyl ester	3,554.45	24	2,646.31
Naa, potassium salt	873.68	179	6,290.97
Nabam	0.09	N/A	N/A
Naled	226,060.48	4,013	142,397.28
Naphtha, heavy aromatic	0.06	N/A	N/A
Naphthalenesulfonic acid, formaldehyde condensate, sodium salt	64.9	2,905	32,973.68
Napropamide	15,355.34	1,106	14,642.43

Chemical	Pounds Applied	Apps	Area Treated
Natamycin	43.67	132	172.93
Nerolidol	41.99	136	2,327.76
Nicarbazin	6.86	N/A	N/A
Nicosulfuron	538.63	436	21,250.21
Nithiazine	<0.01	N/A	N/A
Nonanoic acid	10,755.28	167	928.43
Nonanoic acid, other related	564.78	128	379.93
Norflurazon	2,871.24	74	1,975.86
Novaluron	18,959.55	7,289	239,548.83
Noviflumuron	82.49	N/A	N/A
Nuranone	<0.01	N/A	N/A
Octhilinone	126,904.29	3	N/A
Octyl decyl dimethyl ammonium chloride	128.97	8	32.0
Oil of black pepper	0.16	N/A	N/A
Oil of citronella	0.27	N/A	N/A
Oil of orange	242.49	636	20,389.0
Oleic acid	55,887.86	18,996	576,694.46
Oleic acid, ethyl ester	233,583.87	27,045	490,972.95
Oleic acid, methyl ester	795,687.17	17,339	818,238.83
Orchex 796 oil	702.16	7	602.93
Organo/modified polysiloxane	43.05	537	18,274.5
Organosilicone, poly oxyalkylene ether copolymer	6,227.76	889	34,509.07
Ortho-benzyl-para-chlorophenol	0.11	N/A	3.0
Ortho-phenylphenol	1.44	9	137.5
Orthosulfamuron	7,345.42	1,011	32,078.8
Oryzalin	15,186.97	284	3,967.56
Oxadiazon	3,096.88	382	698.68
Oxalic acid	1.24	1	13.0
Oxamyl	36,590.09	1,135	41,639.16
Oxathiapiprolin	4,086.59	7,961	118,817.53
Oxirane, 2-methyl-, polymer with oxirane, mono(2-ethylehexyl) ether	2,141.75	2,905	32,973.68
Oxydemeton-methyl	0.01	1	0.13
Oxyfluorfen	806,714.05	58,356	1,863,501.94
Oxytetracycline hydrochloride	4,397.51	649	22,507.24
Oxytetracycline hydrochloride, other related	40.33	640	22,461.19
Oxytetracycline, calcium complex	1,582.39	350	10,351.36
Oxythioquinox	0.13	2	1.0
Paclobutrazol	30,423.47	5,426	17,066.23
Paecilomyces fumosoroseus apopka strain 97	1,206.47	1,355	3,344.95
Para-dichlorobenzene	0.06	N/A	N/A
Para-tert-amylphenol	0.3	9	134.5

Chemical	Pounds Applied	Apps	Area Treated
Paraquat dichloride	373,438.41	6,264	367,894.75
Parathion	197.93	1	50.0
Parathion, other related	9.51	1	50.0
Pcnb	9,158.53	48	564.05
Pcp, other related	<0.01	N/A	N/A
Pendimethalin	2,184,220.69	26,887	1,036,277.55
Penflufen	13.64	N/A	N/A
Penoxsulam	4,791.61	3,216	140,870.78
Pentachlorophenol	1.35	2	2.0
Penthiopyrad	99,286.41	12,425	394,970.97
Permethrin	172,725.52	36,521	458,938.26
Permethrin, other related	0.07	N/A	N/A
Peroxyacetic acid	165,733.47	13,234	197,889.87
Petroleum distillates	3,172.69	151	6,012.36
Petroleum distillates, aromatic	37.51	6	6.21
Petroleum distillates, refined	7,227.67	20	25.59
Petroleum hydrocarbons	18.91	1	10.0
Petroleum oil, paraffin based	92,479.46	897	19,088.65
Petroleum oil, unclassified	115,262.86	248	7,277.58
Phenmedipham	251.32	54	505.69
Phenothrin	840.73	2	0.26
Phenothrin, other related	0.01	N/A	N/A
Phenylethyl propionate	8.03	N/A	N/A
Phorate	10,109.12	181	8,245.5
Phosmet	13,270.51	291	6,528.84
Phosphamidon	39.26	1	13.0
Phosphamidon, other related	1.3	1	13.0
Phosphine	15,661.69	9	89.58
Phosphoric acid	177,458.17	54,202	1,597,774.96
Phosphorus	0.16	N/A	N/A
Picloram	0.85	N/A	N/A
Pindone	0.01	N/A	N/A
Pine oil	5.14	1	26.5
Pinoxaden	1,772.28	549	33,218.66
Piperalin	245.38	249	1,073.01
Piperine	0.06	N/A	N/A
Piperonyl butoxide	73,002.49	1,976	16,373.64
Piperonyl butoxide, other related	8,226.51	1,547	10,255.69
Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, mono-c11-14-isoalkyl ethers, c13-rich, phosphates	595.37	1,435	31,588.85
Poly(oxy-1,2-ethanediyl), alpha-isodecyl-omega-hydroxy-phosphate, potassium salt	10,186.67	2,177	71,205.49

Chemical	Pounds Applied	Apps	Area Treated
Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	5,056.61	N/A	N/A
Poly(oxyethylene) poly(oxypropylene) glycol monoallyl ether	42,496.13	13,240	417,429.98
Poly-i-para-menthene	4,212.97	643	10,841.35
Polyacrylamide polymer	10,149.83	22,690	1,099,218.07
Polyacrylamide, polyethylene glycol mixture	1,261.6	1,368	110,588.05
Polyacrylic polymer	3,892.11	8,773	269,531.48
Polyalkene oxide modified heptamethyl trisiloxane	35,534.9	31,431	976,221.53
Polyalkyleneoxide modified polydimethyl-siloxane	74,228.47	6,672	253,592.41
Polybutenes	63,506.64	28,495	762,123.91
Polyether modified polysiloxane	90,615.95	32,739	754,862.87
Polyethoxylated castor oil	15,383.73	8,147	311,347.51
Polyethylene glycol	133,010.54	19,806	806,056.5
Polyethylene glycol diacetate	80.85	482	16,968.58
Polyethylene glycol ditallate	12.98	99	4,895.8
Polyethylene glycol mono(3-(tetramethyl-1-(trimethylsiloxy)disiloxanyl)propyl)ether	42,580.72	11,579	303,881.65
Polyethylene glycol oleate	793.97	143	9,548.48
Polyethylene glycol stearate	55,730.97	27,006	487,857.82
Polyhedral occlusion bodies (ob's) of the nuclear polyhedrosis virus of helicoverpa zea (corn earworm)	46.69	480	9,932.22
Polymeric terpenes	139.22	14	162.8
Polymerized acrylic acid	1,010.74	94	8,702.74
Polymerized pinene	73,685.16	5,156	105,740.81
Polyoxin d, zinc salt	8,700.96	6,938	221,678.55
Polyoxyethylene cetyl-stearyl ether	2,241.35	4,361	4,841.81
Polyoxyethylene dioleate	1,913.78	735	32,074.62
Polyoxyethylene mixed fatty acid ester	3,936.1	382	16,913.98
Polyoxyethylene polyol fatty acid esters	13,607.64	1,800	62,114.98
Polyoxyethylene polyoxypropylene	139,886.64	26,797	769,795.16
Polyoxyethylene sorbitan mixed fatty acid esters	14,015.06	365	16,206.27
Polyoxyethylene sorbitan monolaurate	19,194.35	1,434	64,558.2
Polyoxyethylene sorbitan monooleate	14,750.25	5,625	253,624.13
Polyoxyethylene sorbitan trioleate	26,416.81	4,062	150,306.96
Polyoxyethylene sorbitol, mixed ether ester	23,154.77	1,704	30,169.87
Polyoxyethylene soybean oil fatty acid ester	132,856.52	8,405	324,773.78
Polyoxyethylene tall oil fatty acid ester	411.58	198	12,039.75
Polypropylene glycol	164.91	3,612	54,633.13
Polysaccharide polymer	18.57	266	31,307.72
Polysiloxane	354.15	387	13,324.12
Polysorbate 65	14,442.3	5,820	147,121.38
Potash soap	133,683.05	7,119	27,829.66

Chemical	Pounds Applied	Apps	Area Treated
Potassium bicarbonate	227,270.24	6,154	88,077.06
Potassium carbonate	505.82	407	9,763.28
Potassium hydroxide	5,631.54	13,247	359,284.61
Potassium n-methyldithiocarbamate	8,005,691.79	1,160	40,018.13
Potassium nitrate	16,358.59	4,497	199,218.59
Potassium permanganate	52.1	N/A	N/A
Potassium peroxymonosulfate	2,792.02	50	78.38
Potassium phosphite	1,177,730.47	21,939	419,154.86
Potassium salt of hop beta acids	1.05	14	N/A
Potassium silicate	21,796.63	842	14,293.16
Prallethrin	1,767.38	172	81.67
Prodiamine	45,140.28	1,515	7,663.91
Prodiamine, other related	8.15	N/A	N/A
Prohexadione-calcium	1,072.53	211	4,401.15
Prometon	0.01	N/A	N/A
Prometryn	44,252.45	4,460	33,780.45
Propamocarb	2,598.89	N/A	40.89
Propamocarb hydrochloride	78,732.54	7,342	80,235.66
Propanil	1,333,939.95	4,051	305,575.48
Propargite	167,919.51	1,529	73,376.78
Propetamphos	0.1	N/A	N/A
Propiconazole	92,295.66	16,238	437,972.74
Propionic acid	186,098.52	38,155	1,119,156.46
Propoxur	3.01	N/A	N/A
Propylene glycol	84,745.46	40,169	989,512.91
Propylene glycol, methyl ether	16.96	12	1,034.5
Propylene oxide	138,059.0	N/A	N/A
Propyzamide	114,278.11	11,974	114,952.28
Pseudomonas chlororaphis subsp. aurantiaca strain afs009	34,555.89	714	15,431.06
Pseudomonas fluorescens, strain a506	19.32	18	146.11
Purpureocillium lilacinum strain 251	3,324.87	410	12,321.59
Putrescent whole egg solids	1.22	N/A	N/A
Pydiflumetofen	11,441.25	2,901	115,346.48
Pymetrozine	1,814.27	2,631	18,515.39
Pyraclostrobin	107,900.7	28,603	863,344.16
Pyraflufen-ethyl	2,833.22	18,625	770,233.73
Pyrethrins	19,024.59	19,403	175,697.8
Pyridaben	2,376.4	668	3,981.2
Pyridalyl	372.23	917	3,199.12
Pyriproxyfen	152.71	749	4,021.87
Pyrimethanil	45,627.05	3,018	127,572.58

Chemical	Pounds Applied	Apps	Area Treated
Pyriofenone	7,226.15	3,035	75,433.46
Pyriproxyfen	22,829.92	9,330	379,563.45
Pyrithiobac-sodium	134.17	89	2,410.81
Pyroxsulam	1,620.7	2,186	123,510.69
Qst 713 strain of dried bacillus subtilis	15,650.47	11,679	119,371.76
Quillaja	519.5	613	7,198.09
Quinclorac	579.98	3	59.89
Quinclorac, dimethylamine salt	1,811.87	8	286.24
Quinoxifen	40,784.16	11,266	374,609.34
Resmethrin	111.08	9	199.5
Resmethrin, other related	0.77	1	4.0
Reynoutria sachalinensis	15,274.91	8,845	79,847.72
Rimsulfuron	40,405.87	27,029	841,255.28
Rotenone	0.13	7	20.34
Rotenone, other related	0.13	5	2.84
S,s,s-tributyl phosphorotrithioate	3,789.36	86	3,504.6
S-abscisic acid	1,219.99	217	5,951.75
S-bioallethrin	0.04	N/A	N/A
S-methoprene	4,734.22	1,333	91,789.23
S-metolachlor	350,134.94	4,839	216,293.17
Sabadilla alkaloids	225.4	403	8,197.34
Saflufenacil	41,071.17	26,731	1,044,936.4
Salicylic and benzoic esters of propylene glycol	15.85	1	28.0
Saponin	779.63	277	5,168.89
Sawdust	7.42	N/A	72.0
Sedaxane	147.51	N/A	N/A
See chem code 3974	0.79	19	228.34
Sethoxydim	22,062.62	2,225	77,991.4
Siduron	44.23	1	6.37
Silica filled polydimethylsiloxane	161.98	1,589	77,010.95
Silica gel	2,797.86	N/A	N/A
Silicone	416.55	223	4,135.97
Silicone defoamer	75.27	3,810	65,920.81
Silver nitrate	1.19	26	33.72
Silver, ionic	0.04	N/A	N/A
Simazine	60,674.79	1,442	39,679.33
Soap	0.29	N/A	3.0
Sodium alpha-olefin (c14-c16) sulfonate	24,507.96	N/A	N/A
Sodium arsenate	<0.01	N/A	N/A
Sodium bicarbonate	0.87	1	9.0
Sodium bisulfate	56.72	15	150.5
Sodium bromide	171,599.89	N/A	129.0

Chemical	Pounds Applied	Apps	Area Treated
Sodium bromosulfamate, sodium chlorosulfamate, potassium bromosulfamate, potassium chlorosulfamate	24,049.5	N/A	N/A
Sodium cacodylate	4.12	N/A	10.0
Sodium carbonate	30.26	N/A	N/A
Sodium carbonate peroxyhydrate	293,914.86	193	12,257.3
Sodium chlorate	285,311.96	457	27,745.73
Sodium chloride	194.71	47	30.88
Sodium chlorite	183,975.83	30	358.16
Sodium cyanide	2,349.55	N/A	N/A
Sodium decyl sulfate	2,881.09	N/A	N/A
Sodium di (1-alkenyl) phenoxy benzene disulfonate	0.01	N/A	N/A
Sodium dichloro-s-triazinetrione	59,192.29	N/A	N/A
Sodium dichloro-s-triazinetrione dihydrate	8,384.28	N/A	N/A
Sodium diisooctylsulfosuccinate	782.11	3,298	119,386.42
Sodium dimethyl dithio carbamate	0.09	N/A	N/A
Sodium dioctylsulfosuccinate	4.74	328	14,708.23
Sodium fluoride	0.2	N/A	N/A
Sodium fluosilicate	0.05	N/A	N/A
Sodium hydroxide	16,562.31	7,720	246,726.33
Sodium hypochlorite	930,880.35	162	2,780.89
Sodium lauroampho acetate	2,174.41	N/A	N/A
Sodium lauryl ether sulfate	10,748.47	3,734	189,845.73
Sodium lauryl sulfate	1,470.53	N/A	N/A
Sodium metabisulfite	6,225.57	1	10.0
Sodium metasilicate	1.05	11	98.51
Sodium mono (1-alkenyl) phenoxy benzene disulfonate	0.02	N/A	N/A
Sodium nitrate	1,998.3	8	423.0
Sodium polyacrylate	2,335.5	9,774	376,981.27
Sodium tetraborate (pentahydrate)	239.29	N/A	N/A
Sodium tripolyphosphate	2,218.43	2,072	82,433.81
Sodium xylene sulfonate	9,463.67	9,596	241,888.7
Sorbitan fatty acid esters	2,544.63	136	8,664.64
Sorbitan monooleate	992.43	320	9,638.55
Sorbitan trioleate	14,442.4	5,821	147,132.38
Sorbitol	6,676.98	2,807	131,897.34
Soybean fatty acids, dimethylamine salt	0.57	N/A	N/A
Soybean oil	69,366.49	2,056	18,427.97
Spinetoram	66,450.55	57,388	1,021,717.17
Spinosad	30,489.19	28,447	276,599.41
Spirodiclofen	28,899.47	2,049	68,147.44
Spiromesifen	32,818.56	3,884	146,851.29
Spirotetramat	98,064.3	50,884	910,391.39

Chemical	Pounds Applied	Apps	Area Treated
Starch	1.31	1,050	5,652.78
Streptomyces griseoviridis strain k61	0.14	1	2.0
Streptomyces lydicus wyec 108	2.08	1,561	9,313.33
Streptomycin	14.19	16	520.0
Streptomycin sulfate	8,825.27	1,728	37,488.11
Strychnine	788.97	1,357	71,773.96
Styrene butadiene copolymer	14,403.62	9,786	163,823.81
Sugar	3.61	12	47.0
Sulfamethazine	0.09	1	1.5
Sulfanilamide	0.28	1	1.5
Sulfaquinoxaline	0.15	14	14.0
Sulfentrazone	3,634.2	21	1,244.68
Sulfluramid	1.75	N/A	N/A
Sulfometuron-methyl	9,824.58	140	2,573.84
Sulfosulfuron	17.58	3	35.7
Sulfoxaflor	12,895.23	22,798	260,407.01
Sulfoxide	0.01	N/A	N/A
Sulfoxide, other related	<0.01	N/A	N/A
Sulfur	38,982,186.94	118,329	4,587,374.68
Sulfur dioxide	272,817.89	9	74.57
Sulfuric acid	5,666.67	4,746	181,168.96
Sulfuryl fluoride	3,472,322.46	40	2,569.2
Swinglea glutinosa extract	13,032.35	174	8,530.6
Tall oil	41,400.37	11,987	479,785.65
Tall oil fatty acids	150,007.99	44,821	1,623,606.69
Tallow bis(2-hydroxyethyl)amine	98.46	193	4,656.9
Tartrazine	71.04	25	710.0
Tau-fluvalinate	929.03	2,142	3,926.88
Tea tree oil	3.81	8	26.06
Tebuconazole	111,324.82	15,360	625,590.36
Tebufenozide	114.11	37	482.5
Tebuthiuron	2,434.51	6	61.03
Tembotrione	9,247.66	2,302	114,133.38
Temephos	8.77	N/A	N/A
Terbuthylazine	179.87	N/A	N/A
Terrazole	127.75	148	176.01
Tetrachloroethylene	20.01	N/A	N/A
Tetrachlorvinphos	0.03	N/A	10.0
Tetraconazole	6,845.9	4,556	169,924.54
Tetrakis (hydroxymethyl) phosphonium sulfate	2,639.56	N/A	N/A
Tetramethrin	7.67	3	0.03
Tetraniliprole	4.27	1	4.0



Chemical	Pounds Applied	Apps	Area Treated
Tetrapotassium pyrophosphate	164.79	2,986	38,541.29
Thiabendazole	27,617.09	427	68.22
Thiabendazole, hypophosphite salt	2.37	N/A	N/A
Thiamethoxam	57,960.97	23,099	492,487.71
Thidiazuron	8,930.22	2,573	162,332.56
Thiencarbazone-methyl	27.38	27	278.29
Thifensulfuron-methyl	0.02	1	0.84
Thiobencarb	231,986.36	820	70,110.69
Thiophanate	613.25	24	717.76
Thiophanate-methyl	114,419.16	8,561	109,014.7
Thiram	135,024.79	1,653	57,142.6
Thyme	2.89	N/A	N/A
Thyme oil	1.61	N/A	N/A
Thymol	391.59	109	34.02
Tolfenpyrad	2,525.52	825	8,709.85
Topramezone	15.21	5	151.3
Toxaphene	0.25	N/A	N/A
Tralomethrin	0.47	N/A	N/A
Triadimefon	1,016.17	124	419.89
Triadimenol	3.51	N/A	N/A
Triallate	326.13	4	286.4
Tribenuron-methyl	2,021.15	3,060	163,125.95
Tributyl tetradecylphosphonium chloride	191.8	N/A	N/A
Tributyltin oxide	0.01	N/A	N/A
Trichlorfon	0.05	1	0.13
Trichloro-s-triazinetriene	11,017.34	N/A	N/A
Trichlorofluoromethane	48.95	N/A	N/A
Trichoderma asperellum strain t-34	0.2	13	0.77
Trichoderma harzianum rifai strain krl-ag2	156.51	1,945	3,088.51
Trichoderma icc 012 asperellum	80.54	231	3,736.89
Trichoderma icc 080 gamsii	80.54	231	3,736.89
Trichoderma virens strain g-41	18.46	1,219	2,007.43
Triclopyr choline	44,663.59	152	7,729.24
Triclopyr, butoxyethyl ester	53,795.39	500	13,097.43
Triclopyr, triethylamine salt	110,020.48	2,722	188,597.06
Triethanolamine	12,195.71	7,066	257,287.75
Triethanolamine oleate	1,304.71	947	52,808.28
Triethanolamine sulfonate	0.04	1	10.0
Triethylene glycol	6.39	1	N/A
Trifloxystrobin	53,125.9	17,376	493,955.29
Trifloxysulfuron-sodium	43.6	30	534.54
Triflumizole	16,760.68	2,506	65,093.47

Chemical	Pounds Applied	Apps	Area Treated
Trifluralin	326,707.04	6,601	281,107.12
Triflusulfuron-methyl	100.03	54	4,111.14
Trimethylamine	0.03	N/A	N/A
Trinexapac-ethyl	9,179.82	98	15,538.37
Triptolide	0.01	N/A	N/A
Trisodium phosphate	2.64	7	348.0
Triticonazole	257.16	59	555.93
Ulocladium oudemansii (u3 strain)	374.66	101	264.64
Uniconazole-p	2.01	773	2,851.61
Urea	18,485.18	1,518	62,017.75
Urea dihydrogen sulfate	229,421.26	12,526	515,972.44
Urea inclusion adduct of polyoxy(ethylene)/polyoxy(propylene) block copolymer	3.76	1	12.0
Vanillin	0.05	N/A	N/A
Vegetable oil	520,302.01	2,953	330,777.21
Vinclozolin	1.63	1	1.3
Vinyl ester polymer	1,099.3	324	14,690.23
Vinyl polymer	3,522.21	10,131	262,933.94
Warfarin	1.01	34	738.5
Warfarin, sodium salt	<0.01	1	167.0
Xanthan gum	373.44	2,420	101,033.4
Xylene	117.93	35	259.77
Xylene range aromatic solvent	108.14	6	0.79
Yeast	0.01	N/A	N/A
Yucca schidigera	15,305.66	506	20,746.91
Z,e-9,12-tetradecadien-1-yl acetate	91.24	1	9.7
Z-11-tetradecen-1-yl acetate	0.44	155	2,724.15
Z-7-tetradecen-2-one	<0.01	N/A	N/A
Z-8-dodecenol	38.52	2,931	39,392.02
Z-8-dodecenyl acetate	3,394.09	2,931	39,392.02
Zeta-cypermethrin	6,954.65	11,652	263,820.35
Zinc 2-pyridinethiol-1-oxide	0.07	2	10.0
Zinc naphthenate	1,226.82	10	493.3
Zinc phosphide	4,601.42	591	42,756.83
Zinc sulfate	597.42	169	14,148.5
Ziram	385,719.94	4,250	71,792.9
Zoxamide	618.32	58	3,629.6