

# 2018 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, None = Not Available: many nonagricultural pesticide use reports are not legally required to report area treated or number of applications (0.0 indicates the value was less than 0.01). See Pesticide Use Annual Report Data Access, References, and Definitions Guide for more information.

Chemical	Pounds Applied	Apps
abamectin	52,989.96	73,595
abamectin, other related	0.04	None
s-abscisic acid	1,861.08	266
acephate	164,829.96	12,008
acequinocyl	12,169.94	1,795
acetamiprid	63,542.14	21,498
acetic acid	4,248.05	1,047
acibenzolar-s-methyl	3,388.64	11,839
acid blue 9, diammonium salt	1,130.72	28
acifluorfen, sodium salt	0.0	None
acrolein	57,971.15	14
acrylamide/sodium acrylate copolymer	503.83	385
acrylic acid	24,298.58	4,918
agrobacterium radiobacter	58.93	100
alachlor	4.51	1
alcohols, c4-c12, normal	0.35	1
alcohols, c12-c14, aliphatic	1,200.58	None
alcohols, c12 - c13, ethoxylated	180.86	27
alkyl and alkylaryl poly (oxyethylene) glycols, mixed	9,645.34	951
alpha-alkylaryl-omega-hydroxypoly(oxyethylene)	3,088.07	382
alpha-alkylaryl-omega-hydroxypoly(oxyethylene) phosphate	4.18	11
alkyl (as in fatty acids of coconut oil) monoethanolamide	15.05	None
alkyl benzene sulfonic acid	19.16	6
alkyl (50%c14, 40%c12, 10%c16) dimethylbenzyl ammonium chloride	22,589.89	438
alkyl (58%c14, 28%c16, 14%c12) dimethylbenzyl ammonium chloride	2.62	1
alkyl (60%c14, 30%c16, 5%c12, 5%c18) dimethylbenzyl ammonium chloride	7,881.36	147
alkyl (61%c12,23%c14,11%c16,2.5%c8 & c10,2.5%c18) dimethyl benzyl ammonium chloride	0.15	None

Chemical	Pounds Applied	Apps
alkyl (67%c12, 25%c14, 7%c16, 1%c8,c10,c18) dimethylbenzyl ammonium chloride	2.0	None
alkyl (50%c14, 40%c12, 10%c16) dimethylbenzyl ammonium saccharinate	0.13	None
alkyl (50%c12, 30%c14, 17%c16, 3%c18) dimethylethylbenzyl ammonium chloride	1.69	1
alkyl (68%c12, 32%c14) dimethylethylbenzyl ammonium chloride	7,545.61	146
alpha-alkyl-omega-hydroxypoly(oxyethylene) phosphate	0.02	1
alpha-alkyl (c8-c18)-omega-hydroxypoly(oxyethylene) poly(oxypropylene)	94.59	69
alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)	269,982.68	77,447
alpha-alkyl (c9-c16)-omega-hydroxypoly(oxyethylene)	89,064.01	8,985
alpha-alkyl (c9-c18)-omega-hydroxypoly(oxyethylene)	6,498.35	871
alpha-alkyl (c10-c14)-omega-hydroxypoly(oxyethylene)	4,367.49	1,259
alpha-alkyl (c10-c16)-omega-hydroxypoly(oxyethylene)	56,738.91	2,761
alpha-alkyl-omega-hydroxypoly(oxyethylene)	1,621.65	19
alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)	3,621.48	1,819
alpha-alkyl (c12-c16)-omega-hydroxypoly(oxyethylene)	529.03	984
alpha-alkyl (mixed)-omega-hydroxypoly (oxyethylene) sulfate	48.15	None
alpha-pinene beta-pinene copolymer	191,176.91	23,151
alpha-alkyl (c12-c14)-omega-hydroxypoly(oxyethylene)	50,563.76	7,782
alpha-alkyl (secondary c11-c15)-omega-hydroxypoly(oxyethylene)	73.81	6
alpha-alkyl (c12-c15)-omega-hydroxypoly(oxyethylene) sulfate, sodium salt	3,913.56	2,021
alpha-alkylphenyl-omega-hydroxypoly(oxyethylene)	34.75	8
alkyl (c9-c11) oligomeric d-glucopyranoside	6,830.5	4,933
alkyl (c8,c10) polyglucoside	110,254.31	17,044
alkyl(42%c12, 26%c18, 15%c14, 8%c16, 5%c10, 4%c8)1,3-propylenediamine	148,505.37	None
allethrin	1.23	16
allethrin, other related	0.0	6
d-allethrin	0.18	None
d-allethrin, other related	0.03	None
d-trans allethrin	18.95	1
allyloxypolyethylene glycol acetate	8,547.48	4,995
almond, bitter	0.09	3
aluminum phosphide	123,526.92	1,727
aluminum sulfate	1,147.68	46
ametoctradin	21,086.74	6,083
aminocyclopyrachlor	1,433.53	None

Chemical	Pounds Applied	Apps
aminocyclopyrachlor, potassium salt	2,343.12	None
amino ethoxy vinyl glycine hydrochloride	2,531.65	888
aminopyralid, triisopropanolamine salt	25,141.67	478
4-aminopyridine	10.53	None
amitraz	53.41	15
ammonium citrate	45.51	4
ammonium nonanoate	17,272.11	39
ammonium nitrate	78,170.62	26,079
ammonium propionate	106,669.08	16,272
ammonium sulfate	980,294.04	66,343
ammonium tall oil fatty acid soap	9.18	1
amyl acetate	505.01	3,067
para-tert-amylphenol	103.14	91
ancymidol	0.27	781
antu	0.23	1
aromatic 200	74,094.5	3,087
arsenic pentoxide	3,676.94	None
aspergillus flavus strain af36	16.38	1,836
atrazine	17,102.67	295
atrazine, other related	349.34	295
aureobasidium pullulans strain dsm 14940	3,946.84	500
aureobasidium pullulans strain dsm 14941	3,946.84	500
azadirachtin	4,386.87	19,123
azoxystrobin	246,478.99	33,434
bacillus amyloliquefaciens strain d747	272,674.58	5,215
bacillus firmus (strain i-1582)	160.35	None
bacillus mycoides isolate j	568.37	1,001
bacillus pumilus, strain qst 2808	7,550.64	7,613
bacillus popilliae	0.0	None
bacillus sphaericus 2362, serotype h5a5b, strain abts 1743 fermentation solids, spores and insecticidal toxins	10,652.0	None
bacillus subtilis gb03	2.84	130
bacillus amyloliquefaciens strain mbi 600	275.08	199
bacillus subtilis strain iab/bs03	5.0	108
bacillus thuringiensis (berliner)	17.13	59
bacillus thuringiensis (berliner), subsp. aizawai, gc-91 protein	44,961.37	4,993
bacillus thuringiensis (berliner), subsp. aizawai, serotype h-7	48.43	150
bacillus thuringiensis, subsp. aizawai, strain abts-1857	88,345.38	11,039
bacillus thuringiensis, subsp. aizawai, strain sd-1372, lepidopteran active toxin(s)	16.16	30
bacillus thuringiensis (berliner), subsp. israelensis, serotype h-14	14,132.23	193

Chemical	Pounds Applied	Apps
bacillus thuringiensis, subsp. israelensis, strain am 65-52	66,597.6	1,223
bacillus thuringiensis (berliner), subsp. kurstaki, serotype 3a,3b	82.84	55
bacillus thuringiensis var. kurstaki strain m-200	0.6	None
bacillus thuringiensis, var. kurstaki delta endotoxins cry 1a(c) and cry 1c (genetically engineered) encapsulated in pseudomonas fluorescens (killed)	4.63	None
bacillus thuringiensis var. kurstaki, genetically engineered strain eg7826	14.8	1
bacillus thuringiensis (berliner), subsp. kurstaki, strain eg 2348	7.68	3
bacillus thuringiensis, subsp. kurstaki, strain abts-351, fermentation solids and solubles	120,926.42	13,629
bacillus thuringiensis, subsp. kurstaki, strain hd-1	536.38	51
bacillus thuringiensis subspecies kurstaki, genetically engineered strain eg7841 lepidopteran active toxin	0.76	6
bacillus thuringiensis (berliner), subsp. kurstaki, strain sa-11	118,789.77	7,684
bacillus thuringiensis (berliner), subsp. kurstaki strain sa-12	561.9	56
balsam fir oil	0.01	None
beauveria bassiana hf 23	67.43	None
beauveria bassiana strain gha	7,030.78	3,263
bendiocarb	2.08	None
benefin	10,164.78	321
benomyl	145.47	12
bensulfuron methyl	915.84	229
bensulide	311,543.83	8,855
bentazon, sodium salt	8,043.76	620
bentonite	105,460.13	3,304
1,2-benzisothiazolin-3-one	0.16	2
benzobicyclon	25,499.96	1,414
benzoic acid	5,800.1	21,446
n6-benzyl adenine	197.58	1,802
ortho-benzyl-para-chlorophenol	518.07	None
ortho-benzyl-para-chlorophenol, potassium salt	0.04	None
beta-conglutin	4,313.89	343
bifenazate	262,542.91	11,731
bifenthrin	330,517.9	32,586
s-bioallethrin	0.0	1
bis butenylene tetrahydro furfural	0.05	None
n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids	170,895.26	67,341

Chemical	Pounds Applied	Apps
n,n-bis-(2-(omega-hydroxypoly(oxyethylene)/poly(oxypropylene))ethyl)alkyl (c8-c18) amine	28,620.58	537
bispyribac-sodium	5,269.47	2,169
borax	68,000.73	541
boric acid	677,103.81	109
boscalid	141,437.04	24,819
brodifacoum	9.71	24
bromacil	22,606.34	242
bromacil, lithium salt	4,398.86	None
bromadiolone	45.67	181
bromethalin	3.83	156
bromine chloride	1.21	None
1-bromo-3-chloro-5,5-dimethyl hydantoin	62,386.35	None
bromoxynil heptanoate	10,800.39	1,009
bromoxynil octanoate	38,696.27	2,004
bronopol	459.11	None
buffalo gourd root powder	73.13	16
buprofezin	297,982.78	7,111
burkholderia sp strain a396 cells and fermentation media	216,044.4	3,550
2-butoxyethanol	4,737.21	2,261
butoxy polypropylene glycol	0.3	None
butyl alcohol	77,331.37	18,598
butyl lactate	2,672.68	1,554
alpha-(para-tert-butylphenyl)-omega-hydroxypoly(oxyethylene) phosphate	20,945.01	4,271
cacodylic acid	1.31	3
cadmium chloride	26.81	24
calcium acetate	0.0	None
calcium acid methanearsonate	0.01	None
calcium carbonate	145,459.44	None
calcium chloride	9,096.48	5,789
calcium hydroxide	5,016,452.7	10,385
calcium hypochlorite	176,871.2	1,999
calcium thiosulfate	12.69	1
canola oil	2,174.57	3,415
capric acid	134,897.67	1,834
caprylic acid	198,130.95	1,834
capsicum oleoresin	635.12	1,696
captan	413,621.94	6,005
captan, other related	3,853.14	2,674
carbaryl	128,622.53	3,037
carbo methoxy ether cellulose, sodium salt	303.04	5,048

Chemical	Pounds Applied	Apps
complex carbohydrate polymer derivative	2.66	1
carbon	1,393.27	8
carbon dioxide	36,307.04	None
carboxin	904.14	34
carfentrazone-ethyl	12,967.4	14,926
casein	7,810.49	3,296
castor oil	3.05	1
castor oil ethoxylate	16,705.18	4,165
chenopodium ambrosiodes near ambrosiodes	387.08	43
chloramben	3.96	1
chlorantraniliprole	195,286.36	51,223
chlordane	0.0	None
chlordane, other related	0.0	None
chlordecone	0.27	None
chlorfenapyr	19,441.07	778
chlorflurenol, methyl ester	171.39	None
chlorine	457,773.51	None
chlorine dioxide	1.88	1
chlormequat chloride	840.93	2,012
5-chloro-2-(2,4-dichlorophenoxy) phenol	6.59	None
5-chloro-2-methyl-4-isothiazolin-3-one	8,848.85	None
chlorophacinone	10.02	467
chloropicrin	7,436,424.85	2,034
chlorothalonil	1,171,125.94	16,026
3-chloro-p-toluidine hydrochloride	0.57	7
chlorpropham	5,529.0	16
chlorpyrifos	601,172.59	6,827
chlorsulfuron	6,078.05	108
chlorthal-dimethyl	184,413.91	5,881
cholecalciferol	24.74	18
chromic acid	5,497.03	None
chromobacterium subtsugae strain praa4-1	42,396.82	4,519
cinnamaldehyde	0.82	4
citric acid	152,230.69	52,146
clarified hydrophobic extract of neem oil	137,951.28	5,617
clethodim	89,623.43	9,313
clofentezine	30,071.45	2,263
clomazone	51,100.26	1,478
clopyralid	4.23	7
clopyralid, monoethanolamine salt	10,420.37	936
clopyralid,triethylamine salt	178.91	1
clothianidin	15,965.04	5,360
coconut diethanolamide	19,440.95	12,115

Chemical	Pounds Applied	Apps
coconut imidazoline sodium carboxylate	188.12	723
coconut oil soap	3.34	1
codling moth granulosis virus	0.34	400
coniothyrium minitans strain con/m/91-08	423.71	207
copper	5,018.74	63
copper ammonium carbonate	112,235.41	3
copper ammonium complex	40.87	37
copper carbonate, basic	155.83	None
copper citrate chelate	3,726.86	None
copper diammonium diacetate complex	2,405.34	322
copper ethanolamine complexes, mixed	1,510,703.14	86
copper ethylenediamine complex	17,872.4	5
copper gluconate chelate	3,611.3	None
copper hydroxide	2,346,019.83	39,578
copper naphthenate	5,416.9	1
copper octanoate	18,037.98	5,076
copper oleate	0.0	None
copper oxide (ic)	1,930.4	None
copper oxide (ous)	400,539.27	7,665
copper oxychloride	427,762.91	12,807
copper oxychloride sulfate	1,371.89	22
copper 8-quinolinoleate	0.0	None
copper salts of fatty and rosin acids	162.2	31
copper sulfate (basic)	1,202,538.56	10,993
copper sulfate (pentahydrate)	1,801,463.84	3,016
copper triethanolamine complex	17,780.32	7
corn product, hydrolyzed	86,387.02	2,715
corn steep liquor	253,021.54	1,508
corn syrup	22,752.86	1,865
cottonseed flour	9.17	23
cottonseed oil	35,071.52	737
coumafuryl	0.0	None
coumaphos	5.0	1
coyote urine	2.94	None
creosote	0.01	None
cryolite	338,066.01	1,495
cube extracts	0.07	None
cyanazine	0.08	1
cyantraniliprole	35,668.76	16,165
cyanuric acid	235.0	2
cyazofamid	4,088.42	3,114
cyclanilide	2,745.3	790
cycloate	41,743.32	2,696

Chemical	Pounds Applied	Apps
cyflufenamid	6,808.25	11,136
cyflumetofen	61,007.18	6,715
cyfluthrin	17,783.4	5,953
beta-cyfluthrin	29,112.94	14,999
cyhalofop-butyl	14,753.68	683
cymoxanil	7,150.42	2,863
cypermethrin	22,548.96	249
(s)-cypermethrin	32,476.25	30,762
cyprodinil	176,936.1	21,617
cyromazine	3,373.19	3,123
cytokinin (as kinetin)	0.13	92
2,4-d	6,083.26	204
2,4-d, alkanolamine salts (ethanol and isopropanol amines)	204.26	1
2,4-d, butoxyethanol ester	2,105.1	36
2,4-d, diethanolamine salt	3,232.75	385
2,4-d, dimethylamine salt	326,899.33	8,556
2,4-d, 2-ethylhexyl ester	20,817.61	353
2,4-d, isooctyl ester	630.01	34
2,4-d, isopropyl ester	13,543.4	7,117
2,4-d, triethylamine salt	0.05	None
2,4-d, triisopropanolamine salt	1,411.67	2
2,4-d, triisopropylamine salt	263.55	None
daminozide	6,818.79	4,358
dazomet	25,947.86	4
4-(2,4-db), dimethylamine salt	64,161.1	1,342
ddvp	3,505.31	2
ddvp, other related	108.73	1
2,4-decadienoic acid, ethyl ester, (2e,4z)-	1.97	38
(e)-5-decenol	5.0	59
(e)-5-decen-1-ol	1.53	18
(e)-5-decenyl acetate	47.94	77
alpha-decyl-omega-hydroxypoly(oxyethylene) phosphate	792.98	26
decyl phenoxy benzene disulfonic acid, disodium salt	1,160.48	586
deet	3.19	None
deltamethrin	10,053.57	85
deltamethrin, other related	0.01	None
derivated natural polymers	0.8	2
desmedipham	76.94	13
dextrin	0.35	None
n-dialkyl (60%c14, 30%c16, 5%c12, 5%c18) methyl benzyl ammonium chloride	1.34	None
dialkyl phthalate	0.64	2



Chemical	Pounds Applied	Apps
diatomaceous earth	181,394.7	423
diatomaceous earth, other related	106.06	2
diazinon	33,489.06	648
1,3-dibromo-5,5-dimethylhydantoin	245.0	None
2,2-dibromo-3-nitrilopropionamide	30,586.5	None
dicamba	1,159.54	247
dicamba, dimethylamine salt	8,710.66	456
dicamba, dimethylamine salt, other related	0.72	None
dicamba, potassium salt	0.09	None
dicamba, sodium salt	4,420.17	598
dichlobenil	84,843.72	2
para-dichlorobenzene	0.0	None
1,3-dichloro-5,5-dimethylhydantoin	22,228.5	None
1,3-dichloro-5-ethyl-5-methylhydantoin	12,179.46	None
dichloroisocyanuric acid, potassium salt	50.48	5
1,3-dichloropropene	12,569,270.42	2,763
dicloran	23,045.56	1,357
dicofol	2.59	8
didecyl dimethyl ammonium bicarbonate	26,632.88	None
didecyl dimethyl ammonium carbonate	26,632.88	None
didecyl dimethyl ammonium chloride	367.72	577
dienochlor	0.57	2
diethanolamine	388.9	232
diethylene glycol	230,690.17	31,211
difenacoum	0.0	7
difenoconazole	59,129.62	15,958
difethialone	11.99	37
diflubenzuron	33,280.12	6,601
diflufenzopyr, sodium salt	883.22	373
diglycolamine salt of 3,6-dichloro-o-anisic acid	37,513.43	1,867
diiodomethyl p-tolyl sulfone	588.72	None
2-(2-(p-(diisobutyl) phenoxy) ethoxy) ethyl dimethylbenzyl ammonium chloride	11.24	None
dikegulac sodium	2,463.99	78
dimethenamid-p	17,588.21	1,508
dimethoate	164,880.48	8,404
dimethomorph	28,181.91	11,960
dimethyl alkyl tertiary amines	6,329.93	21,446
dimethyl and methyl naphthalene sulfonic acid, sodium salt	0.81	2
dimethyl dicocoalkyl ammonium salt with naphthalenesulfonic acid, formaldehyde condensate	85.11	54
5,5-dimethylhydantoin	1,793.9	None

Chemical	Pounds Applied	Apps
1,4-dimethylnaphthalene	835.86	None
3,7-dimethyl-6-octen-1-ol	97.62	379
dimethylpolysiloxane	254,731.09	143,700
dimethyl silicone fluid emulsion	2,760.55	20,457
alpha-(ortho,para-dinonylphenyl)-omega-hydroxypolyoxy(ethylene) phosphate	0.79	3
dinoseb	2.96	6
dinotefuran	32,028.16	4,922
dioctyl dimethyl ammonium chloride	10,021.53	59
dioctyl phthalate	0.8	2
diphacinone	173.21	3,538
diphacinone, sodium salt	2.89	18
diphenylamine	199.12	None
dipropylene glycol methyl ether	162.2	357
dipropyl isocinchomeronate	0.07	None
diquat dibromide	81,057.83	4,853
disodium lauryl sulfosuccinate	4.95	None
disodium octaborate anhydrous	1,963.2	None
disodium octaborate tetrahydrate	248,410.02	43
disodium phosphate	2,321.3	63
disulfoton	15.58	None
dithiopyr	50,715.55	951
diuron	188,273.52	6,073
e,e-8,10-dodecadien-1-ol	1,208.82	506
z-8-dodecenol	46.99	2,842
e-8-dodecenyl acetate	269.59	2,842
z-8-dodecenyl acetate	4,137.57	2,842
dodecyl ammonium methanearsonate	0.11	None
dodecylbenzene sulfonic acid	7,164.17	10,096
dodecylbenzene sulfonic acid, calcium salt	259.56	3,242
dodecyl dimethyl betaine	94.33	88
dodecyl guanidine hydrochloride	5.31	None
alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)	19,799.34	17,363
dodine	6,673.37	150
dichlorprop, butoxyethanol ester	42.64	None
2-(2,4-dp), dimethylamine salt	10.56	None
2,4-dp-p, dimethylamine salt	25.21	5
2,4-dp-p, isooctyl ester	3.27	None
edta	144.15	296
edta, sodium salt	0.4	4
edta, tetrasodium salt	442.68	10,104
(e,e)-9, 11-tetradecadien-1-yl acetate	1.62	38

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
emamectin benzoate	1,862.53	5,981
emulsifiable methylated vegetable oil	192,737.0	23,188
emulsifiable polyethylene	15.0	2
endosulfan	1.01	3
endothall, dipotassium salt	92,012.6	None
endothall, disodium salt	2,645.69	None
endothall, mono [n,n-dimethyl alkylamine] salt	87,722.83	None
eprn	0.62	None
eptc	218,450.72	1,593
esbiothrin	0.01	1
esfenvalerate	44,282.95	18,371
essential oils	10.72	90
ethalfluralin	47,097.42	671
ethanolamine	520.9	189
ethephon	433,459.31	10,366
etofenprox	1,369.84	None
ethofumesate	14,413.63	186
ethoprop	5,847.72	207
ethoxylated polyaryl phenol	26.95	46
ethyl alcohol	1,991.25	91
ethylene	952.76	301
ethylene glycol	41,035.85	5,543
ethylene glycol monomethyl ether	3,506.45	967
2-ethylhexyl sulfate, sodium salt	2.52	6
etoxazole	69,100.85	11,783
eugenol	0.04	None
famoxadone	4,210.02	1,585
farnesol	39.1	379
fatty acids, methyl esters	163,639.4	3,648
fatty acids, mixed	140,120.04	47,148
fatty acids, c16-18 and c18-unsaturated, branched and linear	832.75	1,693
fatty acids, c16-c18 and c18-unsaturated, methyl esters	502,437.41	39,968
fatty acids derived from tallow	20,229.96	7,782
fenamidone	30,703.92	10,151
fenamiphos	0.06	None
fenarimol	14.02	18
fenazaquin	34,901.12	1,032
fenbuconazole	3,414.13	1,003
fenbutatin-oxide	10,809.66	382
fenhexamid	80,477.81	7,138
fenoxaprop-p-ethyl	124.17	4
fenoxycarb	0.8	5

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
fenpropathrin	60,262.92	6,795
fenpyroximate	24,955.72	5,121
fenugreek	10.01	3
ferric sodium edta	8,081.8	584
ferric sulfate (anhydrous)	4.73	None
ferrous sulfate	978.47	724
ferrous sulfate (monohydrate)	12.8	None
fipronil	62,644.16	8
flazasulfuron	1,266.79	2,848
flonicamid	49,079.08	15,146
florasulam	1.04	1
fluazifop-butyl	76.24	2
fluazifop-p-butyl	16,939.32	2,056
fluazinam	1,753.0	92
flubendiamide	5,035.42	2,799
fludioxonil	38,455.95	10,864
fluensulfone	2,823.15	41
flumioxazin	85,184.41	14,536
flumiclorac-pentyl	237.72	72
fluopicolide	6,238.39	5,986
fluopyram	112,851.75	28,798
fluoxastrobin	27.17	14
flupyradifurone	66,291.19	21,812
flurecol-methyl	40.9	None
fluridone	11,649.27	2
fluroxypyr	3.13	None
fluroxypyr, 1-methylheptyl ester	828.89	44
flurprimidol	1,505.88	426
flutolanil	7,156.82	59
flutriafol	10,954.2	3,816
tau-fluvalinate	1,205.34	2,538
fluxapyroxad	48,917.6	10,902
foramsulfuron	185.95	25
forchlorfenuron	183.3	671
formaldehyde	1,348.98	None
formetanate hydrochloride	40,163.75	1,773
formic acid	952.7	21
fosetyl-al	176,486.34	8,648
fox urine	1.66	None
free fatty acids and/or amine salts	349.0	15
freon 12	18.03	None
gamma-cyhalothrin	1,008.54	14
garlic	1,126.09	1,689

Chemical	Pounds Applied	Apps
geraniol	97.62	379
german cockroach pheromone	0.0	None
gibberellins	28,619.15	16,493
gliocladium virens gl-21 (spores)	2,706.71	356
glufosinate-ammonium	1,595,020.35	56,657
glutaraldehyde	79,403.27	13
glycerol	57,241.97	9,637
glycolic acid	0.77	None
glyphosate	69.82	None
glyphosate, diammonium salt	28.12	2
glyphosate, dimethylamine salt	140,478.56	1,314
glyphosate, isopropylamine salt	5,766,081.1	81,008
glyphosate, monoammonium salt	7,097.8	38
glyphosate, potassium salt	6,109,801.74	87,939
glyphosate-trimesium	18.82	1
gs-omega/kappa-hctx-hv1a (versitide peptide)	3.19	4
halosulfuron-methyl	8,363.91	2,757
heptachlor	0.0	None
heptachlor, other related	0.0	None
heptamethyltrisiloxane ethoxylated	33,499.41	6,388
heptamethyltrisiloxane-1,3-propanediol ether, ethoxylated propoxylated	40,671.25	14,980
heptyl butyrate	3.77	None
hexachlorophene, sodium salt	0.44	1
(z)-9-hexadecenal	0.3	None
(z)-11-hexadecen-1-yl acetate	33.97	160
(z)-11-hexadecenal	33.49	152
(z,z)-11,13-hexadecadienal	1,403.63	565
hexaflumuron	0.2	None
hexazinone	47,862.53	1,376
hexylene glycol	3,087.22	None
hexythiazox	85,208.66	11,032
humic acid	285.37	295
hydramethylnon	193.55	172
hydrogen chloride	3,957.52	1
hydrogen cyanamide	684,190.01	1,162
hydrogen peroxide	345,059.45	6,539
hydroprene	2,912.92	46
hydrotreated paraffinic solvent	363,824.94	14,439
1-(2-hydroxyethyl)-2-alkyl-2-imidazoline, alkyl derived from tall oil fatty acids	103.12	None
n-(2-hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt	0.01	1

Chemical	Pounds Applied	Apps
2-hydroxypropyl guar gum	598.91	88
2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate	124,157.3	33,363
iba	16.55	1,297
imazalil	20,409.48	None
imazalil sulfate	13,793.48	None
imazamox, ammonium salt	5,160.02	1,752
imazapic, ammonium salt	10.84	9
imazapyr, isopropylamine salt	34,840.04	1,357
imazethapyr	72.69	8
imazethapyr, ammonium salt	5,521.89	1,257
imazosulfuron	3,398.67	348
imidacloprid	466,268.5	60,754
imiprothrin	0.0	None
indaziflam	39,888.22	24,539
indole	0.01	None
indoxacarb	38,004.17	14,408
iodine	4.16	1
3-iodo-2-propynyl butylcarbamate	2,160.72	8
iodosulfuron-methyl-sodium	1.94	1
ipconazole	8.38	None
iprodione	111,587.34	10,290
iron hedta	112.78	None
iron phosphate	2,835.26	791
isodecyl alcohol	12.64	14
alpha-isodecyl-omega-hydroxypoly(oxyethylene)	896.51	725
alpha-isodecyl-omega-hydroxypoly(oxyethylene) phosphate	12,664.66	1,232
isofetamid	1,183.51	69
alpha-isoctadecyl-omega-hydroxypoly(oxyethylene)	759.67	None
isooctyl phthalate	3,555.48	964
isoparaffinic hydrocarbons	25,356.52	2,156
isopropyl alcohol	55,713.43	45,803
isopropylamine dodecylbenzene sulfonate	3,324.94	6,290
isoxaben	40,235.21	3,626
kaolin	3,268,359.87	3,531
kasugamycin hydrochloride	1,376.12	488
kerosene	0.98	None
kinoprene	0.49	5
(s)-kinoprene	377.28	839
kresoxim-methyl	19,943.96	3,014
lactic acid	9.7	1
lactose	7,903.19	3,304

Chemical	Pounds Applied	Apps
lambda-cyhalothrin	95,361.44	70,605
lanolin	0.1	1
lauric acid	3,557.78	2,021
lauryl alcohol	309.04	225
lauryl dimethylamine oxide	0.03	1
lavandulyl senecioate	2,282.37	4,697
lecithin	728,946.43	76,319
lignin sulfonic acid	1,600.63	10
lignin sulfonic acid, copper salt	2.3	None
lignin sulfonic acid, iron salt	6.31	None
lignin sulfonic acid, magnesium salt	34.86	1
lignin sulfonic acid, manganese salt	69.39	1
lignin sulfonic acid, zinc salt	2,265.72	83
lime-sulfur	1,701,224.17	2,889
limonene	106,938.31	2,162
linalool	2.37	None
linuron	48,733.68	3,524
low molecular weight paraffinic oil	10.26	3
magnesium chloride	0.08	None
magnesium phosphide	8,343.58	6
malathion	360,906.14	10,304
maleic hydrazide, potassium salt	6,734.81	96
mancozeb	1,315,141.47	33,787
mandipropamid	31,299.11	24,676
maneb	59.04	20
manganese sulfate	1,422.95	741
margosa oil	13,552.73	2,728
mcpa, dimethylamine salt	97,238.11	2,819
mcpa, 2-ethyl hexyl ester	362.51	11
mcpa, isooctyl ester	2,233.47	None
mcpp	27.36	2
mcpp, dimethylamine salt	118.57	1
mcpp, potassium salt	44.78	19
mcpp-p, dimethylamine salt	1,354.86	9
mcpp-p, potassium salt	547.45	None
mecoprop-p	2,353.21	235
mefenoxam	96,579.5	17,050
mefenoxam, other related	96.63	4,571
mefluidide, diethanolamine salt	127.88	None
mepiquat chloride	13,596.02	4,936
mesosulfuron-methyl	365.99	469
mesotrione	16,108.09	2,551
meta-cresol	0.44	11

Chemical	Pounds Applied	Apps
metaflumizone	254.24	3,852
metalaxyl	312.35	107
metaldehyde	35,170.35	4,659
metallic silver	0.72	13
metam-sodium	3,765,705.15	573
metarhizium anisopliae strain f52	1.23	2
metconazole	43,607.57	7,119
methamidophos	0.2	None
methidathion	140.03	3
methiocarb	2,485.0	659
methiozolin	28.9	None
methomyl	224,535.21	18,106
methoprene	763.42	None
s-methoprene	4,068.82	1,250
methoxyfenozide	614,164.99	42,367
methyl anthranilate	958.22	137
methylated fatty acids from canola oil	192,305.51	3,328
methylated naphthalene	0.11	None
methylated silica	135.41	317
methylated soybean oil	2,177,919.19	120,782
methyl bromide	1,682,989.11	380
2-methyl-1-butanol	0.42	None
methyl cellulose	0.79	2
1-methylcyclopropene	0.84	None
methyl-2,3-dichloro-9-hydroxyfluorene-9-carboxylate	0.01	None
methyl-2,7-dichloro-9-hydroxyfluorene-9-carboxylate	31.15	None
methylene chloride	9.98	None
methyl esters of cottonseed oil	7,073.75	122
methyl eugenol	1,148.67	None
(3s, 6r)-3-methyl-6-isopropenyl-9-decen-1-yl acetate	25.39	982
(3s, 6s)-3-methyl-6-isopropenyl-9-decen-1-yl acetate	25.39	982
2-methyl-4-isothiazolin-3-one	3,136.87	None
methyl isothiocyanate	511.29	None
methyl nonyl ketone	0.56	None
n-methyl-n-oleoyltaurine, sodium salt	6.32	1
methyl parathion	2.02	1
methyl salicylate	0.46	1
methyl silicone resins	44,747.9	12,615
metiram	17.98	None
metofluthrin	11.32	None
metolachlor	71,949.87	699
s-metolachlor	335,598.93	4,427
metrafenone	52,092.96	7,338



Chemical	Pounds Applied	Apps
metribuzin	26,616.35	1,088
mevinphos	7.46	2
mevinphos, other related	4.95	2
mineral oil	29,611,581.74	105,540
modified phthalic glycerol alkyd resin	176,766.65	17,384
molasses	28,379.4	28
morpholine	1,537.69	966
msma	6,656.63	59
muscalure	60.02	7
myclobutanil	49,186.39	17,189
myristyl alcohol	62.77	225
myrothecium verrucaria, dried fermentation solids & solubles, strain aarc-0255	23,021.27	558
naa	10.93	536
naa, ammonium salt	334.66	97
naa, ethyl ester	13,161.81	47
naa, potassium salt	606.77	169
nabam	11,257.14	None
naled	330,719.43	4,904
naphthalene	0.0	None
1-naphthaleneacetamide	16.56	10
napropamide	16,310.34	1,123
nerolidol	97.62	379
nicarbazin	24.25	None
nicosulfuron	981.83	706
nithiazine	0.0	None
nitrapyrin	16.49	2
nonanoic acid	12,754.71	402
nonanoic acid, other related	670.79	342
4-nonylphenol, formaldehyde resin, propoxylated	177,908.17	47,094
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)	2,529,936.36	250,118
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), branched	46,011.86	9,749
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester	232,442.84	39,927
nonyl phenoxy polyoxyethylene ethanol-iodine complex	14.37	5
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene) sulfate, ammonium salt	106.26	213
norflurazon	12,658.62	387
nosema locustae spores	0.0	1
novaluron	21,233.95	4,752
noviflumuron	14.37	None
octhilinone	29,189.0	None

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
octylammonium methanearsonate	0.11	None
n-octyl bicycloheptene dicarboximide	7,605.09	38
octyl decyl dimethyl ammonium chloride	78.8	59
alpha-octylphenyl-omega-hydroxypoly(oxyethylene)	5,746.6	2,322
oil of anise	0.01	None
oil of black pepper	0.17	None
oil of citronella	0.5	None
oil of orange	479.02	2,132
oleic acid	58,604.93	17,596
oleic acid, ethyl ester	249,648.11	27,327
oleic acid, methyl ester	520,203.15	14,281
orchex 796 oil	1,728.45	56
organo/modified polysiloxane	74.22	804
organosilicone, poly oxyalkylene ether copolymer	11,123.97	2,427
orthosulfamuron	159.43	40
oryzalin	297,678.67	4,584
oxadiazon	8,256.02	419
oxamyl	78,736.69	1,448
oxathiapiprolin	1,411.73	6,891
oxydemeton-methyl	1,459.84	193
oxyfluorfen	852,992.16	62,878
oxytetracycline, calcium complex	1,430.0	313
oxytetracycline hydrochloride	6,433.01	1,324
oxytetracycline hydrochloride, other related	59.25	1,324
oxythioquinox	0.03	1
paclobutrazol	3,846.73	6,790
paecilomyces fumosoroseus apopka strain 97	5,100.11	1,533
purpureocillium lilacinum strain 251	3,805.16	421
paraquat dichloride	1,301,934.72	28,084
parathion	3.35	None
pcnb	83,619.07	339
pcp, other related	3.07	33
pendimethalin	2,244,648.56	27,980
penoxsulam	7,477.24	5,052
pentachlorophenol	27.26	33
penthiopyrad	89,267.53	10,659
permethrin	130,432.74	35,114
permethrin, other related	1.15	None
peroxyacetic acid	142,871.54	4,933
petroleum distillates	47,129.89	715
petroleum distillates, aliphatic	1,878.37	403
petroleum distillates, aromatic	203,100.25	6,663
petroleum distillates, refined	1,395,968.99	6,411

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
petroleum hydrocarbons	56.88	1
petroleum naphthenic oils	350.88	369
petroleum oil, paraffin based	589,746.73	10,643
petroleum oil, unclassified	7,734,445.13	11,802
phenmedipham	375.7	104
phenol	0.49	1
phenothrin	2,263.27	1
phenothrin, other related	0.01	None
phenylethyl propionate	33.64	None
phenylmercuric acetate	0.14	None
ortho-phenylphenol	417.81	91
phorate	25,476.56	400
phosacetin	0.09	1
phosmet	22,594.55	311
phosphine	49,831.91	36
phosphoric acid	264,882.22	64,503
phosphoric acid, monopotassium salt	10,125.0	39
picloram	0.07	None
beta-pinene polymer	302.89	126
pine oil	3.31	None
pinoxaden	973.44	298
piperalin	314.61	319
piperine	0.07	None
piperonyl butoxide	54,872.0	2,964
piperonyl butoxide, other related	5,060.62	2,223
polyacrylamide, polyethylene glycol mixture	3,333.49	4,473
polyacrylamide polymer	11,217.38	21,460
polyacrylic polymer	5,058.36	6,322
polyalkene oxide modified heptamethyl trisiloxane	69,835.01	36,904
polyalkyleneoxide modified polydimethyl-siloxane	33,305.68	3,546
polybutenes	95,865.44	37,462
poly(oxy-1,2-ethanediyl), alpha-isodecyl-omega-hydroxy-phosphate, potassium salt	3,947.51	999
polyether modified polysiloxane	71,297.06	36,190
polyethoxylated castor oil	9,904.93	5,805
polyethylene glycol	141,827.72	20,971
polyethylene glycol diacetate	777.04	4,995
polyethylene glycol ditallate	40.93	274
polyethylene glycol mono(3-(tetramethyl-1-(trimethylsiloxy)disiloxanyl)propyl)ether	85,036.24	12,439
polyethylene glycol oleate	197.1	54
polyethylene glycol stearate	60,930.56	27,319

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
polyhedral occlusion bodies (ob's) of the nuclear polyhedrosis virus of helicoverpa zea (corn earworm)	40.65	436
polyoxyethylene polyol fatty acid esters	1,970.38	229
poly-i-para-menthene	16,018.13	2,097
polymerized acrylic acid	562.17	61
polymerized pinene	69,369.32	4,384
polyoxin d, zinc salt	11,332.98	6,526
poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, mono-c11-14-isoalkyl ethers, c13-rich, phosphates	548.14	1,184
polyoxyethylene cetyl-stearyl ether	567.9	698
poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	2,911.09	None
polyoxyethylene dioleate	1,268.65	2,420
polyoxyethylene mixed fatty acid ester	3,093.39	563
polyoxyethylene polyoxypropylene	95,720.06	16,575
poly(oxyethylene) poly(oxypropylene) glycol monoallyl ether	9,335.13	7,061
polyoxyethylene sorbitol, mixed ether ester	101,086.88	4,125
polyoxyethylene sorbitan mixed fatty acid esters	3,677.85	258
polyoxyethylene sorbitan monolaurate	11,935.68	1,326
polyoxyethylene sorbitan monooleate	14,040.1	5,354
polyoxyethylene sorbitan trioleate	63,505.74	7,405
polyoxyethylene soybean oil fatty acid ester	91,490.23	5,136
polyoxyethylene tall oil fatty acid ester	898.94	430
polypropylene glycol	69.52	2,336
polysaccharide polymer	48.79	852
polysiloxane	2,689.11	897
polysorbate 65	12,221.84	3,436
potash soap	177,242.97	6,980
potassium bicarbonate	349,173.5	7,231
potassium carbonate	1.68	1
potassium hydroxide	5,459.47	5,732
potassium n-methyldithiocarbamate	8,527,736.42	3,853
potassium nitrate	7,620.39	1,594
potassium peroxymonosulfate	1,570.27	115
potassium phosphite	1,203,726.55	28,002
potassium salt of hop beta acids	0.03	1
potassium silicate	13,820.88	402
prallethrin	1,328.89	8
prodiamine	25,694.53	2,505
prohexadione-calcium	1,459.25	257
prometon	0.03	None
prometryn	42,619.74	4,199
propamocarb	138.7	None

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
propamocarb hydrochloride	61,872.17	5,667
propanil	1,829,002.28	4,768
propargite	226,091.35	2,059
propetamphos	0.41	None
propiconazole	168,546.37	23,466
propionic acid	190,706.54	37,018
propoxur	28.47	1
propylene glycol	107,437.01	36,475
propylene glycol, methyl ether	7.44	6
propylene oxide	213,681.11	None
propyzamide	114,447.25	11,196
prothioconazole	92.05	2
pseudomonas fluorescens, strain a506	112.9	22
putrescent whole egg solids	6.21	None
pymetrozine	4,727.25	4,423
pyraclostrobin	136,595.58	37,449
pyraflufen-ethyl	2,551.59	16,273
pyrethrins	12,442.92	19,033
pyridaben	4,863.61	798
pyridalyl	635.95	1,151
pyridate	23.43	None
pyrfluquinazon	83.73	569
pyrimethanil	73,584.63	5,688
pyriofenone	4,801.72	1,958
pyriproxyfen	26,946.0	10,040
pyrithiobac-sodium	526.37	355
pyroxsulam	2,071.46	2,614
qst 713 strain of dried bacillus subtilis	21,153.19	14,582
quillaja	1,444.66	5,160
quinclorac	369.7	6
quinclorac, dimethylamine salt	1,782.25	11
quinoxifen	49,807.41	19,313
red cabbage color	347.91	434
resmethrin	54.22	2
resmethrin, other related	0.24	None
reynoutria sachalinensis	19,945.99	8,355
rimsulfuron	32,302.71	23,126
rotenone	0.44	32
rotenone, other related	0.53	32
sabadilla alkaloids	139.0	173
saflufenacil	33,615.73	19,709
salicylic and benzoic esters of propylene glycol	205.61	18
saponin	178.4	93

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
sesame oil	2.12	1
sethoxydim	48,473.37	4,071
siduron	1,720.71	12
silica aerogel	5,169.15	None
silicone	320.65	950
silicone defoamer	296.94	11,859
silica filled polydimethylsiloxane	175.3	1,531
simazine	117,877.39	3,064
soap	0.13	None
sodium arsenate	0.06	None
sodium bicarbonate	3.32	1
sodium bisulfate	201.13	30
sodium bromide	539,355.77	None
sodium bromosulfamate, sodium chlorosulfamate, potassium bromosulfamate, potassium chlorosulfamate	8,732.16	None
sodium cacodylate	7.55	3
sodium carbonate	18.97	8
sodium carbonate peroxyhydrate	329,252.35	187
sodium chlorate	470,862.17	613
sodium chloride	109.69	109
sodium chlorite	89,478.23	None
sodium cyanide	2,985.82	None
sodium decyl sulfate	2,596.9	None
sodium di (1-alkenyl) phenoxy benzene disulfonate	0.22	2
sodium dichloro-s-triazinetrione	78,888.22	None
sodium dichloro-s-triazinetrione dihydrate	27,904.45	None
sodium diisooctylsulfosuccinate	886.86	2,669
sodium dimethyl dithio carbamate	11,257.14	None
sodium dioctylsulfosuccinate	5.16	27
sodium fluoride	0.01	None
sodium hydroxide	16,123.63	8,879
sodium hypochlorite	1,074,744.19	217
sodium lauroampho acetate	1,959.93	None
sodium lauryl sulfate	1,329.14	None
sodium metabisulfite	11,057.66	None
sodium metaborate	498.75	None
sodium metaborate tetrahydrate	128.04	6
sodium metasilicate	1.17	10
sodium mono (1-alkenyl) phenoxy benzene disulfonate	0.51	2
sodium nitrate	3,217.84	8
sodium alpha-olefin (c14-c16) sulfonate	23,497.14	None
sodium persulfate	19.69	None
sodium polyacrylate	5,886.23	13,144

Chemical	Pounds Applied	Apps
sodium sulfate	0.11	1
sodium tetraborate (pentahydrate)	774.44	None
sodium xylene sulfonate	4,932.32	11,794
sorbitan fatty acid esters	740.35	213
sorbitan monooleate	265.0	230
sorbitan trioleate	12,618.33	3,462
sorbitol	2,081.37	741
soybean fatty acids, dimethylamine salt	0.02	None
soybean oil	82,504.87	3,094
spinetoram	82,000.64	61,273
spinosad	35,466.32	32,714
spirodiclofen	52,286.18	3,431
spiromesifen	36,503.59	4,280
spirotetramat	109,711.25	56,268
starch	1.6	688
streptomyces griseoviridis strain k61	1.84	11
streptomyces lydicus wyec 108	2.12	1,712
streptomycin sulfate	10,152.12	2,398
strychnine	481.41	1,862
styrene butadiene copolymer	20,176.82	9,519
sugar	20.46	26
sulfaquinoxaline	0.06	2
sulfentrazone	3,923.74	161
sulfluramid	0.07	1
sulfometuron-methyl	14,638.74	78
sulfosulfuron	150.42	None
sulfoxaflor	12,466.65	11,732
sulfur	48,571,278.72	157,172
sulfur dioxide	277,820.66	23
sulfuric acid	5,576.11	5,300
sulfuryl fluoride	2,991,913.87	22
tall oil	53,064.29	23,486
tall oil fatty acids	147,479.52	41,485
tallow bis(2-hydroxyethyl)amine	0.0	1
tartrazine	88.72	28
tcmtb	1,892.51	None
tebuconazole	106,817.23	19,732
tebufenozide	19.13	3
tebuthiuron	6,855.22	1
tembotrione	1,086.09	304
temephos	2.34	None
1080	1.03	7
terbuthylazine	210.95	None

Chemical	Pounds Applied	Apps
terrazole	166.14	148
tetrachloroethylene	28.84	None
tetrachlorophenol	0.0	None
tetrachlorvinphos	108.99	None
tetraconazole	6,329.91	6,832
z,e-9,12-tetradecadien-1-yl acetate	61.99	9
e-11-tetradecen-1-yl acetate	40.15	42
z-11-tetradecen-1-yl acetate	0.1	4
tetradecyl dimethyl betaine	31.44	88
tetrakis (hydroxymethyl) phosphonium sulfate	5,771.69	None
tetramethrin	5.72	3
alpha-[para-(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxyethylene)	10,431.16	10,244
alpha-[para-(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxyethylene) phosphate ester	1.86	2
tetrapotassium pyrophosphate	1,101.37	10,094
thiabendazole	27,152.93	464
thiabendazole, hypophosphite salt	23.03	2
thiacloprid	0.86	None
thiamethoxam	61,505.55	29,301
thidiazuron	15,069.52	3,909
thiencarbazone-methyl	30.9	2
thiobencarb	592,803.93	2,142
thiophanate	153.93	7
thiophanate-methyl	175,723.08	12,175
thiram	122,912.96	1,259
thyme	24.86	None
thyme oil	7.43	None
thymol	667.23	48
tolfenpyrad	144.25	186
toxaphene	8.33	None
tralomethrin	3.05	None
triadimefon	1,681.01	488
triallate	3,795.85	43
tribenuron-methyl	2,418.69	3,726
s,s-s-tributyl phosphorotrithioate	8,911.11	267
tributyl tetradecyl phosphonium chloride	20.0	None
tributyltin oxide	0.02	None
trichlorfon	4.03	None
trichloro ethylene	0.07	None
trichlorofluoromethane	48.23	None
trichloro-s-triazinetrione	21,551.49	2
trichoderma harzianum rifai strain krl-ag2	85.72	1,461



Chemical	Pounds Applied	Apps
trichoderma icc 012 asperellum	0.63	13
trichoderma icc 080 gamsii	0.63	13
trichoderma virens strain g-41	12.34	719
triclopyr, butoxyethyl ester	57,346.48	652
triclopyr choline	816.45	8
triclopyr, triethylamine salt	159,878.03	4,889
(e)-4-tridecen-1-yl-acetate	0.02	None
(z)-4-tridecen-1-yl-acetate	0.39	None
alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate	35,942.13	12,504
triethanolamine	4,157.23	14,929
triethanolamine oleate	4,739.19	4,127
triethylene glycol	2.08	None
trifloxystrobin	89,570.89	23,797
trifloxysulfuron-sodium	149.41	29
triflumizole	34,057.48	5,231
trifluralin	352,309.91	7,251
triflusulfuron-methyl	238.44	183
triforine	0.19	None
trimethylamine	0.05	None
alpha-2,4,6-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)	0.3	None
alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)	62,756.17	14,496
trinexapac-ethyl	8,178.55	105
triptolide	0.0	None
trisodium phosphate	473.15	289
triticonazole	631.7	145
ulocladium oudemansii (u3 strain)	2,130.65	177
alpha-undecyl-omega-hydroxypoly(oxyethylene)	445,576.2	76,183
uniconazole-p	3.01	1,027
urea	32,465.73	1,888
urea dihydrogen sulfate	378,206.07	10,900
vanillin	1.55	3
vegetable oil	824,828.61	4,991
vegetable wax	0.18	1
(s)-verbenone	4.63	3
vinclozolin	39.25	None
4-vinylcyclohexenediepoide	0.16	None
vinyl polymer	1,745.52	4,696
warfarin	0.6	72
warfarin, sodium salt	0.02	None
xanthan gum	13.49	1,169

<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>
xylene	159.98	24
xylene range aromatic solvent	5.76	1
2,4-xylenol	0.44	11
yeast	11.82	23
yucca schidigera	5,732.58	547
zinc chloride	4.14	None
zinc naphthenate	11.31	3
zinc phosphide	4,327.53	557
zinc 2-pyridinethiol-1-oxide	0.1	1
zinc sulfate	7,118.35	2,408
ziram	665,996.31	5,667
zoxamide	476.94	84