

2019 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 |
|---|----------------|--------|
| abamectin | 51,276.54 | 69,659 |
| abamectin, other related | 0.03 | N/A |
| s-abscisic acid | 1,856.38 | 230 |
| acephate | 158,054.76 | 11,082 |
| acequinocyl | 11,808.25 | 1,903 |
| acetamiprid | 63,220.8 | 21,922 |
| acetic acid | 1,506.48 | 673 |
| acibenzolar-s-methyl | 3,242.98 | 11,622 |
| acid blue 9, diammonium salt | 1,303.83 | 25 |
| acrolein | 54,899.48 | 10 |
| acrylamide/sodium acrylate copolymer | 601.32 | 423 |
| acrylic acid | 26,737.5 | 3,621 |
| agrobacterium radiobacter | 248.09 | 68 |
| alachlor | 9.43 | 1 |
| alcohols, c4-c12, normal | 1.6 | 3 |
| alcohols, c12-c14, aliphatic | 1,289.89 | N/A |
| alcohols, c12 - c13, ethoxylated | 1,419.51 | 49 |
| alkyl and alkylaryl poly (oxyethylene) glycols, mixed | 7,287.24 | 805 |
| 1-alkyl (c6-c18) amino-3-aminopropane diacetate | 0.38 | N/A |
| alpha-alkylaryl-omega-hydroxypoly(oxyethylene) | 2,783.57 | 334 |
| alpha-alkylaryl-omega-hydroxypoly(oxyethylene) phosphate | 0.89 | 3 |
| alkyl (as in fatty acids of coconut oil) monoethanolamide | 6.71 | N/A |
| alkyl benzene sulfonic acid | 11.9 | 9 |
| alkyl (50%c14, 40%c12, 10%c16) dimethylbenzyl ammonium chloride | 20,866.44 | 134 |
| alkyl (58%c14, 28%c16, 14%c12) dimethylbenzyl ammonium chloride | 1.34 | N/A |
| alkyl (60%c14, 30%c16, 5%c12, 5%c18) dimethylbenzyl ammonium chloride | 9,502.93 | 152 |
| alkyl (61%c12,23%c14,11%c16,2.5%c8 & c10,2.5%c18) dimethyl benzyl ammonium chloride | 0.09 | N/A |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| alkyl (95%c14, 3%c12, 2%c16) dimethyl benzyl ammonium chloride | 0.19 | N/A |
| alkyl (50%c14, 40%c12, 10%c16) dimethylbenzyl ammonium saccharinate | 0.09 | N/A |
| alkyl (50%c12, 30%c14, 17%c16, 3%c18) dimethylethylbenzyl ammonium chloride | 0.26 | 1 |
| alkyl (68%c12, 32%c14) dimethylethylbenzyl ammonium chloride | 8,484.1 | 130 |
| alpha-alkyl (c8-c18)-omega-hydroxypoly(oxyethylene) poly(oxypropylene) | 75.06 | 56 |
| alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene) | 241,148.23 | 79,924 |
| alpha-alkyl (c9-c16)-omega-hydroxypoly(oxyethylene) | 116,175.69 | 11,677 |
| alpha-alkyl (c9-c18)-omega-hydroxypoly(oxyethylene) | 1,881.53 | 566 |
| alpha-alkyl (c10-c14)-omega-hydroxypoly(oxyethylene) | 293.57 | 142 |
| alpha-alkyl (c10-c16)-omega-hydroxypoly(oxyethylene) | 93,802.26 | 2,634 |
| alpha-alkyl-omega-hydroxypoly(oxyethylene) | 824.01 | 34 |
| alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene) | 9,680.86 | 1,569 |
| alpha-alkyl (c12-c16)-omega-hydroxypoly(oxyethylene) | 35.44 | 80 |
| alpha-alkyl (mixed)-omega-hydroxypoly (oxyethylene) sulfate | 21.46 | N/A |
| alpha-alkyl (c6-c14)-omega-hydroxypoly(oxyethylene) poly(oxypropylene) | 0.31 | 1 |
| alpha-pinene beta-pinene copolymer | 293,633.13 | 28,015 |
| alpha-alkyl (c12-c14)-omega-hydroxypoly(oxyethylene) | 52,325.82 | 7,908 |
| alpha-alkyl (secondary c11-c15)-omega-hydroxypoly(oxyethylene) | 2,779.47 | 200 |
| alpha-alkyl (c12-c15)-omega-hydroxypoly(oxyethylene) sulfate, sodium salt | 5,945.88 | 2,616 |
| alpha-alkylphenyl-omega-hydroxypoly(oxyethylene) | 13.22 | 3 |
| alkyl (c9-c11) oligomeric d-glucopyranoside | 7,066.2 | 3,245 |
| alkyl (c8,c10) polyglucoside | 107,654.32 | 17,863 |
| alkyl(42%c12, 26%c18, 15%c14, 8%c16, 5%c10, 4%c8)1,3-propylenediamine | 181,443.99 | N/A |
| alkyl pyridines, mixed | 0.06 | N/A |
| allethrin | 4.02 | 17 |
| allethrin, other related | <0.01 | N/A |
| d-allethrin | 0.26 | N/A |
| d-allethrin, other related | <0.01 | N/A |
| d-trans allethrin | 15.21 | N/A |
| allyl isothiocyanate | 0.04 | N/A |
| allyloxypolyethylene glycol acetate | 7,836.22 | 2,916 |
| almond, bitter | <0.01 | 2 |
| aluminum phosphide | 90,236.24 | 1,540 |

| Chemical | Pounds Applied | Apps |
|--|----------------|--------|
| aluminum sulfate | 1,331.82 | 54 |
| ametoctradin | 22,657.98 | 7,893 |
| aminocyclopyrachlor | 243.15 | N/A |
| aminocyclopyrachlor, potassium salt | 7,274.6 | N/A |
| amino ethoxy vinyl glycine hydrochloride | 2,983.44 | 889 |
| aminopyralid, triisopropanolamine salt | 32,088.84 | 516 |
| 4-aminopyridine | 11.2 | N/A |
| amitraz | 122.85 | 26 |
| amitrole | 14.41 | N/A |
| ammonium citrate | 29.55 | 4 |
| ammonium nonanoate | 5,421.19 | 56 |
| ammonium nitrate | 84,496.2 | 25,695 |
| ammonium propionate | 105,158.95 | 15,519 |
| ammonium sulfate | 883,187.07 | 71,096 |
| amyl acetate | 450.07 | 2,801 |
| para-tert-amylphenol | 98.55 | 41 |
| ancymidol | 0.24 | 828 |
| aromatic 200 | 93,361.31 | 3,807 |
| aspergillus flavus strain af36 | 17.68 | 2,034 |
| atrazine | 21,281.31 | 321 |
| atrazine, other related | 415.17 | 321 |
| aureobasidium pullulans strain dsm 14940 | 2,794.06 | 597 |
| aureobasidium pullulans strain dsm 14941 | 2,794.06 | 597 |
| azadirachtin | 4,572.21 | 20,171 |
| azoxystrobin | 287,449.13 | 37,019 |
| bacillus amyloliquefaciens strain d747 | 298,210.84 | 6,812 |
| bacillus firmus (strain i-1582) | 33.07 | N/A |
| bacillus mycoides isolate j | 530.56 | 1,179 |
| bacillus pumilus, strain qst 2808 | 7,694.06 | 8,329 |
| bacillus sphaericus 2362, serotype h5a5b, strain abts 1743 fermentation solids, spores and insecticidal toxins | 11,726.29 | N/A |
| bacillus subtilis gb03 | 3.2 | 111 |
| bacillus amyloliquefaciens strain mbi 600 | 683.05 | 476 |
| bacillus subtilis strain iab/bs03 | 47.6 | 588 |
| bacillus thuringiensis (berliner) | 8.25 | 43 |
| bacillus thuringiensis (berliner), subsp. aizawai, gc-91 protein | 54,292.47 | 5,376 |
| bacillus thuringiensis (berliner), subsp. aizawai, serotype h-7 | 547.99 | 186 |
| bacillus thuringiensis, subsp. aizawai, strain abts-1857 | 117,899.96 | 13,455 |
| bacillus thuringiensis, subsp. aizawai, strain sd-1372, lepidopteran active toxin(s) | 1.91 | 8 |
| bacillus thuringiensis (berliner), subsp. israelensis, serotype h-14 | 18,284.64 | 136 |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| bacillus thuringiensis, subsp. israelensis, strain am 65-52 | 56,831.51 | 1,457 |
| bacillus thuringiensis (berliner), subsp. kurstaki, serotype 3a,3b | 27.05 | 46 |
| bacillus thuringiensis var. kurstaki strain m-200 | 0.16 | 1 |
| bacillus thuringiensis (berliner), subsp. kurstaki, strain eg 2348 | 0.12 | 2 |
| bacillus thuringiensis, subsp. kurstaki, strain abts-351, fermentation solids and solubles | 160,628.17 | 15,630 |
| bacillus thuringiensis, subsp. kurstaki, strain hd-1 | 24.5 | 52 |
| bacillus thuringiensis subspecies kurstaki, genetically engineered strain eg7841 lepidopteran active toxin | 2,503.25 | 513 |
| bacillus thuringiensis (berliner), subsp. kurstaki, strain sa-11 | 116,356.77 | 7,079 |
| bacillus thuringiensis (berliner), subsp. kurstaki strain sa-12 | 335.73 | 81 |
| bacillus thuringiensis (berliner), subsp. san diego | 1.61 | N/A |
| bacteriophage active against xanthomonas campestris pv. vesicatoria and pseudomonas syringae pv. tomato | <0.01 | 8 |
| balsam fir oil | <0.01 | N/A |
| bandane | 0.06 | 1 |
| beauveria bassiana hf 23 | 70.68 | N/A |
| beauveria bassiana strain gha | 6,182.92 | 3,858 |
| beauveria bassiana strain ppri 5339 | 11.07 | 60 |
| bendiocarb | 2.48 | N/A |
| benefin | 9,446.19 | 227 |
| benomyl | 0.65 | 8 |
| bensulfuron methyl | 632.14 | 166 |
| bensulide | 310,643.58 | 8,999 |
| bentazon, sodium salt | 8,542.92 | 621 |
| bentonite | 109,165.53 | 3,492 |
| benzenesulfonic acid, c10-16-alkyl derivatives | 7.31 | N/A |
| benzobicyclon | 25,106.19 | 1,492 |
| benzoic acid | 5,704.56 | 22,029 |
| n6-benzyl adenine | 477.39 | 2,357 |
| ortho-benzyl-para-chlorophenol | 498.75 | 1 |
| benzyl-diethyl [(2,6-xylyl-carbamoyl)methyl] ammonium saccharide | 0.03 | N/A |
| beta-conglutin | 2,886.91 | 210 |
| bifenazate | 306,965.29 | 12,452 |
| bifenthrin | 312,114.52 | 33,376 |
| s-bioallethrin | <0.01 | N/A |
| bis butenylene tetrahydro furfural | 0.15 | N/A |

| Chemical | Pounds Applied | Apps |
|--|----------------|--------|
| n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids | 178,679.69 | 67,748 |
| n,n-bis-(2-(omega-hydroxypoly(oxyethylene)/poly(oxypropylene))ethyl)alkyl (c8-c18) amine | 13,985.91 | 296 |
| bispyribac-sodium | 5,971.43 | 2,153 |
| borax | 199,120.71 | 562 |
| boric acid | 590,724.6 | 69 |
| boscalid | 133,502.47 | 24,542 |
| brodifacoum | 13.47 | 17 |
| bromacil | 18,597.34 | 189 |
| bromacil, lithium salt | 1,595.68 | N/A |
| bromadiolone | 41.38 | 214 |
| bromethalin | 3.51 | 151 |
| bromine chloride | 3.63 | N/A |
| 1-bromo-3-chloro-5,5-dimethyl hydantoin | 62,166.07 | N/A |
| bromoxynil heptanoate | 12,258.65 | 1,103 |
| bromoxynil octanoate | 35,758.46 | 1,892 |
| bronopol | 760.1 | N/A |
| buffalo gourd root powder | 33.26 | 21 |
| buprofezin | 210,526.0 | 5,815 |
| burkholderia sp strain a396 cells and fermentation media | 412,529.07 | 6,269 |
| 2-butoxyethanol | 5,066.27 | 2,496 |
| 2-(2-butoxy ethoxy) ethyl thiocyanate | 0.01 | N/A |
| butoxy polypropylene glycol | 0.06 | 1 |
| butyl alcohol | 47,856.53 | 17,452 |
| butyl lactate | 3,935.37 | 2,532 |
| alpha-(para-tert-butylphenyl)-omega-hydroxypoly(oxyethylene) phosphate | 24,185.21 | 5,199 |
| cadmium chloride | 4.5 | 22 |
| calcium acid methanearsonate | 0.03 | N/A |
| calcium carbonate | 205,800.0 | N/A |
| calcium chloride | 9,572.99 | 6,531 |
| calcium hydroxide | 4,801,423.19 | 10,527 |
| calcium hypochlorite | 103,020.75 | 1,369 |
| calcium salts of phosphorous acid | 0.2 | 1 |
| canola oil | 2,832.53 | 2,998 |
| capric acid | 131,670.71 | 1,593 |
| caprylic acid | 193,393.12 | 1,594 |
| capsicum oleoresin | 409.18 | 1,031 |
| captan | 375,416.95 | 5,965 |
| captan, other related | 3,449.65 | 2,552 |
| carbaryl | 113,084.49 | 2,730 |

| Chemical | Pounds Applied | Apps |
|--|----------------|--------|
| carbo methoxy ether cellulose, sodium salt | 242.57 | 3,955 |
| complex carbohydrate polymer derivative | 38.03 | 9 |
| carbon | 1,378.64 | 7 |
| carbon dioxide | 73,103.89 | N/A |
| carboxin | 454.47 | 21 |
| carfentrazone-ethyl | 17,697.9 | 20,514 |
| casein | 8,101.0 | 3,491 |
| castor oil ethoxylate | 24,298.04 | 7,898 |
| chenopodium ambrosiodes near ambrosiodes | 186.26 | 16 |
| chlolantraniliprole | 188,790.82 | 55,221 |
| chlordecone | <0.01 | N/A |
| chlorfenapyr | 12,222.43 | 809 |
| chlorflurenol, methyl ester | 66.51 | N/A |
| chlorine | 509,509.73 | N/A |
| chlorine dioxide | 704.5 | N/A |
| chlormequat chloride | 953.26 | 2,375 |
| 5-chloro-2-(2,4-dichlorophenoxy) phenol | 0.5 | 1 |
| 5-chloro-2-methyl-4-isothiazolin-3-one | 8,682.59 | N/A |
| chlorophacinone | 7.14 | 328 |
| chloropicrin | 8,056,245.74 | 2,189 |
| chlorothalonil | 1,160,778.8 | 16,668 |
| 3-chloro-p-toluidine hydrochloride | 0.16 | 2 |
| chlorpropham | 5,595.29 | 20 |
| chlorpyrifos | 12,812.55 | 367 |
| chlorsulfuron | 2,953.43 | 171 |
| chlorthal-dimethyl | 216,597.91 | 6,750 |
| cholecalciferol | 39.0 | 11 |
| chromobacterium subtsugae strain praa4-1 | 38,877.44 | 4,334 |
| citric acid | 165,576.64 | 55,387 |
| clarified hydrophobic extract of neem oil | 138,593.11 | 7,425 |
| clethodim | 89,062.19 | 9,391 |
| clofentezine | 30,156.91 | 2,301 |
| clomazone | 45,159.98 | 1,353 |
| clopyralid | 0.12 | 1 |
| clopyralid, monoethanolamine salt | 10,269.06 | 828 |
| clopyralid,triethylamine salt | 76.04 | 2 |
| clothianidin | 20,197.66 | 6,483 |
| coconut diethanolamide | 28,324.16 | 12,190 |
| coconut imidazoline sodium carboxylate | 141.32 | 376 |
| codling moth granulosis virus | 0.35 | 429 |
| coniothyrium minitans strain con/m/91-08 | 216.29 | 167 |
| copper | 5,406.36 | 99 |
| copper ammonium carbonate | 90,015.18 | 3 |

| Chemical | Pounds Applied | Apps |
|---------------------------------------|----------------|--------|
| copper ammonium complex | 61.81 | 18 |
| copper carbonate, basic | 47.48 | N/A |
| copper citrate chelate | 1,893.54 | N/A |
| copper diammonium diacetate complex | 1,397.15 | 156 |
| copper ethanolamine complexes, mixed | 1,454,458.93 | 76 |
| copper ethylenediamine complex | 20,125.92 | 1 |
| copper gluconate chelate | 1,834.83 | N/A |
| copper hydroxide | 2,780,177.7 | 42,896 |
| copper naphthenate | 4,869.23 | N/A |
| copper octanoate | 19,658.14 | 5,249 |
| copper oxide (ous) | 349,805.21 | 8,247 |
| copper oxychloride | 401,812.67 | 12,611 |
| copper oxychloride sulfate | 2,621.05 | 49 |
| copper salts of fatty and rosin acids | 264.92 | 44 |
| copper sulfate (basic) | 1,209,040.07 | 10,726 |
| copper sulfate (pentahydrate) | 1,798,201.08 | 3,145 |
| copper triethanolamine complex | 20,156.65 | 3 |
| copper-zinc sulfate complex | 3.24 | 1 |
| corn product, hydrolyzed | 72,357.65 | 2,506 |
| corn steep liquor | 141,016.62 | 1,107 |
| corn syrup | 18,250.89 | 1,711 |
| cottonseed flour | 88.54 | N/A |
| cottonseed oil | 39,588.48 | 548 |
| coumafuryl | 0.15 | 1 |
| coyote urine | 2.8 | N/A |
| creosote | 1.48 | N/A |
| cryolite | 361,996.92 | 1,670 |
| cube extracts | 0.32 | N/A |
| cyanazine | 0.03 | 2 |
| cyantraniliprole | 52,188.74 | 19,599 |
| cyanuric acid | 3.39 | 2 |
| cyazofamid | 3,295.76 | 3,633 |
| cyclanilide | 1,978.47 | 505 |
| cycloate | 43,662.36 | 3,094 |
| cyclohexanone | 0.87 | N/A |
| cyflufenamid | 7,615.52 | 13,259 |
| cyflumetofen | 52,390.34 | 6,574 |
| cyfluthrin | 11,236.36 | 4,722 |
| beta-cyfluthrin | 24,195.8 | 16,700 |
| cyhalofop-butyl | 14,468.99 | 605 |
| cymoxanil | 11,601.73 | 3,865 |
| cypermethrin | 20,643.43 | 705 |
| (s)-cypermethrin | 21,290.56 | 25,370 |

| Chemical | Pounds Applied | Apps |
|--|----------------|--------|
| cyprodinil | 227,983.83 | 26,510 |
| cyromazine | 2,574.73 | 2,468 |
| cytokinin (as kinetin) | 0.03 | 31 |
| 2,4-d | 5,388.54 | 240 |
| 2,4-d, alkanolamine salts (ethanol and isopropanol amines) | 7.16 | 1 |
| 2,4-d, butoxyethanol ester | 1,616.54 | 26 |
| 2,4-d, butyl ester | 32.66 | N/A |
| 2,4-d, diethanolamine salt | 3,047.49 | 314 |
| 2,4-d, dimethylamine salt | 319,741.93 | 7,376 |
| 2,4-d, 2-ethylhexyl ester | 23,842.71 | 296 |
| 2,4-d, isooctyl ester | 491.46 | 22 |
| 2,4-d, isopropyl ester | 13,850.18 | 7,329 |
| 2,4-d, triethylamine salt | 11.73 | N/A |
| 2,4-d, triisopropanolamine salt | 806.55 | N/A |
| 2,4-d, triisopropylamine salt | 69.2 | N/A |
| daminozide | 6,071.19 | 4,260 |
| dazomet | 13,316.8 | 5 |
| 4-(2,4-db), dimethylamine salt | 54,941.99 | 1,038 |
| ddvp | 3,331.15 | 1 |
| ddvp, other related | 83.96 | N/A |
| 2,4-decadienoic acid, ethyl ester, (2e,4z)- | 1.35 | 83 |
| 3-decen-2-one | 443.07 | N/A |
| (e)-5-decenol | 4.65 | 37 |
| (e)-5-decen-1-ol | 45.02 | 71 |
| (e)-5-decenyl acetate | 741.28 | 108 |
| alpha-decyl-omega-hydroxypoly(oxyethylene) phosphate | 1,044.62 | 17 |
| decyl phenoxy benzene disulfonic acid, disodium salt | 1,108.39 | 712 |
| deet | 16.95 | 2 |
| deet, other related | 0.82 | 2 |
| deltamethrin | 11,894.6 | 52 |
| derivated natural polymers | 1.36 | 17 |
| desmedipham | 145.8 | 13 |
| dextrin | 0.51 | N/A |
| n-dialkyl (60%c14, 30%c16, 5%c12, 5%c18) methyl benzyl ammonium chloride | 4.15 | N/A |
| dialkyl phthalate | 0.06 | 1 |
| diatomaceous earth | 403,510.18 | 1,829 |
| diatomaceous earth, other related | 0.51 | N/A |
| diazinon | 40,065.03 | 655 |
| 1,3-dibromo-5,5-dimethylhydantoin | 196.0 | N/A |
| 2,2-dibromo-3-nitrilopropionamide | 24,408.26 | N/A |
| dibutylphthalate | 0.38 | N/A |

| Chemical | Pounds Applied | Apps |
|---|----------------|---------|
| dicamba | 1,152.68 | 204 |
| dicamba, dimethylamine salt | 15,325.46 | 488 |
| dicamba, potassium salt | 0.01 | N/A |
| dicamba, sodium salt | 4,103.26 | 537 |
| dichlobenil | 85,316.39 | 5 |
| para-dichlorobenzene | 1.25 | N/A |
| 1,3-dichloro-5,5-dimethylhydantoin | 18,460.43 | N/A |
| 1,3-dichloro-5-ethyl-5-methylhydantoin | 10,142.5 | N/A |
| 1,3-dichloropropene | 11,300,808.59 | 2,759 |
| dicloran | 19,898.73 | 1,226 |
| dicofol | 4.64 | 7 |
| didecyl dimethyl ammonium bicarbonate | 21,786.37 | N/A |
| didecyl dimethyl ammonium carbonate | 21,786.37 | N/A |
| didecyl dimethyl ammonium chloride | 1,412.71 | 298 |
| diethanolamine | 352.05 | 216 |
| diethylene glycol | 242,118.05 | 32,551 |
| difenacoum | 0.01 | N/A |
| difenoconazole | 65,626.12 | 18,665 |
| difenzoquat methyl sulfate | 17.47 | N/A |
| difethialone | 13.79 | 8 |
| diflubenzuron | 34,512.26 | 7,291 |
| diflufenzopyr, sodium salt | 940.23 | 379 |
| diglycolamine salt of 3,6-dichloro-o-anisic acid | 39,835.86 | 1,792 |
| dihydro-5-heptyl-2(3h)-furanone | <0.01 | 10 |
| dihydro-5-pentyl-2(3h)-furanone | <0.01 | 10 |
| n,n-di (hydroxy ethyl) alkyl amine, alkyl derived from soybean fatty acids | 0.02 | 1 |
| diiodomethyl p-tolyl sulfone | 355.02 | N/A |
| 2-(2-(p-(diisobutyl) phenoxy) ethoxy) ethyl dimethylbenzyl ammonium chloride | 2.4 | N/A |
| dikegulac sodium | 2,417.41 | 68 |
| dimethenamid-p | 18,318.04 | 1,203 |
| dimethoate | 160,874.36 | 8,212 |
| dimethomorph | 30,632.72 | 13,945 |
| dimethyl alkyl tertiary amines | 6,223.28 | 22,025 |
| dimethyl and methyl naphthalene sulfonic acid, sodium salt | 0.01 | N/A |
| dimethyl dicocoalkyl ammonium salt with naphthalenesulfonic acid, formaldehyde condensate | 309.28 | 223 |
| 5,5-dimethylhydantoin | 2,869.97 | N/A |
| 1,4-dimethylnaphthalene | 378.5 | N/A |
| 3,7-dimethyl-6-octen-1-ol | 70.1 | 224 |
| dimethylpolysiloxane | 227,667.26 | 153,628 |
| dimethyl silicone fluid emulsion | 2,722.85 | 19,633 |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| alpha-(ortho,para-dinonylphenyl)-omega-hydroxypolyoxy(ethylene) phosphate | 31.37 | 2 |
| dinotefuran | 76,857.09 | 4,861 |
| dioctyl dimethyl ammonium chloride | 9,837.78 | 38 |
| dioctyl phthalate | 7.74 | 4 |
| diphacinone | 33.92 | 2,971 |
| diphacinone, sodium salt | 1.42 | 2 |
| diphenylamine | 88.76 | N/A |
| dipropylene glycol | 0.28 | N/A |
| dipropylene glycol methyl ether | 207.59 | 315 |
| dipropyl isocinchomeronate | 0.25 | N/A |
| diquat dibromide | 104,999.1 | 6,324 |
| disodium lauryl sulfosuccinate | 3.06 | N/A |
| disodium octaborate anhydrous | 68.43 | N/A |
| disodium octaborate tetrahydrate | 262,165.01 | 40 |
| disodium phosphate | 1,381.33 | 51 |
| disulfoton | 19.6 | N/A |
| dithiopyr | 46,367.37 | 1,483 |
| diuron | 169,639.08 | 5,755 |
| e,e-8,10-dodecadien-1-ol | 861.77 | 533 |
| z-8-dodecenol | 51.53 | 3,154 |
| e-8-dodecenyl acetate | 321.55 | 3,154 |
| z-8-dodecenyl acetate | 4,028.19 | 3,154 |
| dodecylbenzene sulfonic acid | 5,622.33 | 9,574 |
| dodecylbenzene sulfonic acid, calcium salt | 218.95 | 2,705 |
| dodecyl dimethyl betaine | 0.44 | 2 |
| alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene) | 24,998.4 | 20,541 |
| dodine | 7,583.21 | 157 |
| dichlorprop, butoxyethanol ester | 14.21 | N/A |
| 2-(2,4-dp), dimethylamine salt | 1.44 | N/A |
| 2,4-dp, isooctyl ester | 0.09 | N/A |
| 2,4-dp-p, dimethylamine salt | 39.61 | 6 |
| edta | 1,183.27 | 1,412 |
| edta, sodium salt | 0.07 | 1 |
| edta, tetrasodium salt | 349.42 | 9,598 |
| (e,e)-9, 11-tetradecadien-1-yl acetate | 0.3 | 3 |
| emamectin benzoate | 2,840.07 | 9,413 |
| emulsifiable methylated vegetable oil | 202,136.54 | 22,757 |
| emulsifiable polyethylene | 29.62 | 5 |
| endosulfan | 81.37 | 3 |
| endothall, dipotassium salt | 99,529.43 | 3 |
| endothall, disodium salt | 2,932.61 | N/A |

| Chemical | Pounds Applied | Apps |
|--|-----------------------|-------------|
| endothall, mono [n,n-dimethyl alkylamine] salt | 73,481.73 | N/A |
| e pn | 4.38 | N/A |
| e ptc | 181,661.74 | 1,285 |
| esbiothrin | <0.01 | N/A |
| esfenvalerate | 45,421.13 | 17,577 |
| essential oils | 6.76 | 43 |
| ethalfluralin | 40,085.97 | 609 |
| ethanolamine | 686.42 | 225 |
| ethephon | 444,819.23 | 10,040 |
| ethion | 1.87 | 3 |
| etofenprox | 1,314.02 | N/A |
| ethofumesate | 11,125.42 | 169 |
| ethoprop | 5,949.56 | 202 |
| ethoxylated polyaryl phenol | 2.02 | 6 |
| ethyl alcohol | 1,238.56 | 40 |
| ethylene | 1,020.62 | 284 |
| ethylene glycol | 48,063.42 | 5,803 |
| ethylene glycol monomethyl ether | 2,453.04 | 591 |
| 2-ethylhexyl sulfate, sodium salt | 35.04 | 9 |
| etoxazole | 66,557.39 | 11,609 |
| famoxadone | 6,610.02 | 1,926 |
| farnesol | 28.07 | 224 |
| fatty acid and phosphatic | 0.05 | 1 |
| fatty acids, methyl esters | 188,364.04 | 4,129 |
| fatty acids, mixed | 185,638.87 | 49,104 |
| fatty acids, c16-18 and c18-unsaturated, branched and linear | 982.51 | 1,929 |
| fatty acids, c16-c18 and c18-unsaturated, methyl esters | 488,423.09 | 39,505 |
| fatty acids derived from tallow | 20,935.15 | 7,908 |
| fenamidone | 30,245.41 | 10,861 |
| fenarimol | 16.63 | 15 |
| fenazaquin | 45,100.51 | 1,337 |
| fenbuconazole | 5,579.24 | 1,347 |
| fenbutatin-oxide | 6,455.4 | 277 |
| fenhexamid | 84,296.43 | 8,100 |
| fenoxaprop-p-ethyl | 5.49 | 3 |
| fenoxycarb | 0.32 | 3 |
| fenpropathrin | 58,145.49 | 7,092 |
| fenpyroximate | 28,494.66 | 5,624 |
| fenthion | 0.01 | 1 |
| fenvalerate | 0.01 | N/A |
| fenugreek | 0.45 | 2 |
| ferbam | 5.55 | N/A |

| Chemical | Pounds Applied | Apps |
|-------------------------------------|----------------|--------|
| ferric sodium edta | 8,568.28 | 489 |
| ferric sulfate (anhydrous) | 0.59 | N/A |
| ferrous sulfate | 736.02 | 379 |
| fipronil | 23,091.99 | 24 |
| flazasulfuron | 1,514.22 | 3,204 |
| flonicamid | 56,716.29 | 17,166 |
| florasulam | 0.11 | 1 |
| fluazifop-butyl | 93.48 | N/A |
| fluazifop-p-butyl | 16,558.19 | 1,772 |
| fluazinam | 2,381.45 | 188 |
| flubendiamide | 785.56 | 723 |
| fludioxonil | 37,531.45 | 11,374 |
| fluensulfone | 2,178.42 | 64 |
| flumioxazin | 82,572.9 | 15,345 |
| flumiclorac-pentyl | 113.07 | 38 |
| fluopicolide | 6,649.71 | 6,376 |
| fluopyram | 126,847.73 | 33,764 |
| fluoxastrobin | 14.76 | 15 |
| flupyradifurone | 63,681.65 | 20,712 |
| flurecol-methyl | 15.87 | N/A |
| fluridone | 7,923.89 | 4 |
| fluroxypyr | 14.31 | N/A |
| fluroxypyr, 1-methylheptyl ester | 2,097.63 | 29 |
| flurprimidol | 1,904.46 | 401 |
| flutolanil | 5,987.18 | 33 |
| flutriafol | 13,200.65 | 6,164 |
| tau-fluvalinate | 988.6 | 2,139 |
| fluxapyroxad | 54,605.92 | 11,457 |
| folpet | <0.01 | 1 |
| foramsulfuron | 162.11 | 29 |
| forchlorfenuron | 169.56 | 754 |
| formaldehyde | 3,082.37 | N/A |
| formetanate hydrochloride | 42,670.1 | 1,839 |
| formic acid | 351.16 | 13 |
| fosetyl-al | 250,337.85 | 10,096 |
| fox urine | 1.28 | N/A |
| free fatty acids and/or amine salts | 926.72 | 15 |
| freon 12 | 31.73 | N/A |
| gamma-cyhalothrin | 1,219.53 | 1 |
| garlic | 1,097.61 | 1,606 |
| geraniol | 70.1 | 224 |
| german cockroach pheromone | <0.01 | N/A |
| gibberellins | 25,377.51 | 17,756 |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| gliocladium virens gl-21 (spores) | 1,217.53 | 171 |
| glufosinate-ammonium | 1,975,044.81 | 64,103 |
| glutaraldehyde | 108,582.73 | 35 |
| glycerol | 71,503.93 | 12,469 |
| glyceryl stearate | 0.01 | 1 |
| glycolic acid | 0.89 | N/A |
| glyphosate | 9.81 | N/A |
| glyphosate, dimethylamine salt | 172,483.56 | 1,434 |
| glyphosate, isopropylamine salt | 6,306,993.07 | 82,192 |
| glyphosate, monoammonium salt | 10,861.54 | 31 |
| glyphosate, potassium salt | 6,068,782.66 | 87,891 |
| glyphosate-trimesium | 3.0 | N/A |
| gs-omega/kappa-hctx-hv1a (versitide peptide) | 21.98 | 17 |
| halosulfuron-methyl | 7,795.95 | 2,718 |
| heptamethyltrisiloxane ethoxylated | 43,700.2 | 8,071 |
| heptamethyltrisiloxane-1,3-propanediol ether, ethoxylated propoxylated | 54,601.79 | 17,087 |
| heptyl butyrate | 27.57 | N/A |
| (z)-9-hexadecenal | 0.02 | N/A |
| (z)-11-hexadecen-1-yl acetate | 30.07 | 116 |
| (z)-11-hexadecenal | 19.29 | 81 |
| (z,z)-11,13-hexadecadienal | 1,845.78 | 1,816 |
| hexaflumuron | 0.2 | N/A |
| hexazinone | 48,280.73 | 1,171 |
| hexylene glycol | 3,316.87 | N/A |
| hexythiazox | 82,358.87 | 10,027 |
| humic acid | 2,342.87 | 1,412 |
| hydramethylnon | 311.73 | 236 |
| hydrogen chloride | 1,385.28 | N/A |
| hydrogen cyanamide | 579,701.56 | 1,075 |
| hydrogen peroxide | 460,682.38 | 15,963 |
| hydroprene | 3,988.54 | 48 |
| hydrotreated paraffinic solvent | 316,773.14 | 12,833 |
| 1-(2-hydroxyethyl)-2-alkyl-2-imidazoline, alkyl derived from tall oil fatty acids | 147.81 | 1 |
| 2-hydroxyethyl octyl sulfide | 8.82 | N/A |
| hydroxyethyl octyl sulfide, other related | 0.46 | N/A |
| 2-hydroxypropyl guar gum | 2.79 | 2 |
| 2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate | 117,581.93 | 33,157 |
| iba | 29.12 | 1,498 |
| imazalil | 28,838.65 | N/A |
| imazalil sulfate | 16,819.77 | N/A |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| imazamox, ammonium salt | 6,405.83 | 1,473 |
| imazapic, ammonium salt | 51.05 | 17 |
| imazapyr, isopropylamine salt | 91,123.24 | 1,514 |
| imazethapyr | 39.89 | 4 |
| imazethapyr, ammonium salt | 5,538.23 | 1,223 |
| imazosulfuron | 3,976.83 | 353 |
| imidacloprid | 523,769.58 | 55,584 |
| imiprothrin | <0.01 | N/A |
| indaziflam | 41,214.27 | 25,816 |
| indole | 0.02 | N/A |
| indoxacarb | 39,591.37 | 14,470 |
| 3-iodo-2-propynyl butylcarbamate | 1,302.84 | 5 |
| iodosulfuron-methyl-sodium | 1.61 | N/A |
| ipconazole | 28.5 | N/A |
| iprodione | 108,238.15 | 10,502 |
| iron hedta | 157.21 | N/A |
| iron phosphate | 3,210.72 | 1,272 |
| isodecyl alcohol | 54.95 | 36 |
| alpha-isodecyl-omega-hydroxypoly(oxyethylene) | 1,146.73 | 868 |
| alpha-isodecyl-omega-hydroxypoly(oxyethylene) phosphate | 24,792.76 | 2,065 |
| isofetamid | 1,570.69 | 163 |
| alpha-isoctadecyl-omega-hydroxypoly(oxyethylene) | 845.81 | N/A |
| isooctyl phthalate | 2,487.37 | 590 |
| isoparaffinic hydrocarbons | 25,206.57 | 2,378 |
| isopropyl alcohol | 56,944.35 | 45,551 |
| isopropylamine dodecylbenzene sulfonate | 4,928.97 | 5,829 |
| isoxaben | 37,556.65 | 3,762 |
| kaolin | 2,720,805.64 | 3,337 |
| kasugamycin hydrochloride | 2,771.26 | 957 |
| kerosene | 106.53 | 3 |
| kinoprene | 0.15 | 5 |
| (s)-kinoprene | 531.16 | 813 |
| kresoxim-methyl | 17,426.56 | 2,978 |
| lactic acid | 14.69 | 9 |
| lactose | 8,185.7 | 3,492 |
| lambda-cyhalothrin | 96,148.58 | 73,508 |
| lauric acid | 5,405.34 | 2,616 |
| lauryl alcohol | 229.05 | 192 |
| lauryl dimethylamine oxide | 15.11 | 16 |
| lavandulyl senecioate | 4,187.17 | 8,643 |
| lecithin | 752,275.39 | 76,942 |
| lignin sulfonic acid | 4.75 | 3 |

| Chemical | Pounds Applied | Apps |
|--|----------------|--------|
| lignin sulfonic acid, copper salt | 0.25 | N/A |
| lignin sulfonic acid, magnesium salt | 1.82 | 1 |
| lignin sulfonic acid, zinc salt | 906.79 | 59 |
| lime | 0.1 | 3 |
| lime-sulfur | 1,448,877.48 | 2,594 |
| limonene | 56,870.49 | 2,393 |
| linalool | 0.55 | N/A |
| lindane | 0.51 | N/A |
| linear alkyl sulfonate, potassium salt | 4.5 | 1 |
| linuron | 50,180.47 | 3,453 |
| low molecular weight paraffinic oil | 112.17 | 16 |
| magnesium chloride | 18.04 | N/A |
| magnesium phosphide | 9,660.2 | 3 |
| malathion | 323,904.76 | 9,539 |
| maleic hydrazide | 0.11 | N/A |
| maleic hydrazide, potassium salt | 6,920.28 | 74 |
| mancozeb | 1,540,118.72 | 34,430 |
| mandipropamid | 34,913.33 | 25,614 |
| maneb | 3,157.37 | 98 |
| manganese sulfate | 1,121.57 | 417 |
| margosa oil | 41,098.43 | 3,005 |
| mcpa, dimethylamine salt | 76,884.77 | 2,584 |
| mcpa, 2-ethyl hexyl ester | 483.91 | 20 |
| mcpa, isooctyl ester | 3,055.86 | N/A |
| mcpa, sodium salt | 0.89 | 1 |
| mcpp | 31.75 | N/A |
| mcpp, dimethylamine salt | 43.23 | N/A |
| mcpp, potassium salt | 44.56 | 16 |
| mcpp-p, dimethylamine salt | 1,137.1 | 25 |
| mcpp-p, potassium salt | 749.33 | 4 |
| mecoprop-p | 2,767.21 | 200 |
| mefenoxam | 95,359.02 | 16,904 |
| mefenoxam, other related | 87.14 | 5,058 |
| mefluidide, diethanolamine salt | 98.68 | N/A |
| mepiquat chloride | 14,385.02 | 5,135 |
| mesosulfuron-methyl | 239.96 | 285 |
| mesotrione | 15,366.32 | 2,548 |
| meta-cresol | 0.28 | 3 |
| metaflumizone | 329.54 | 5,223 |
| metalaxyl | 1,548.46 | 108 |
| metaldehyde | 42,932.32 | 5,612 |
| metallic silver | <0.01 | 3 |
| metam-sodium | 4,124,364.47 | 616 |

| Chemical | Pounds Applied | Apps |
|--|----------------|---------|
| metarhizium anisopliae strain f52 | 0.53 | 20 |
| metconazole | 58,876.08 | 8,691 |
| methidathion | 1.52 | 1 |
| methiocarb | 1,830.57 | 567 |
| methiozolin | 0.07 | N/A |
| methomyl | 203,184.02 | 17,573 |
| methoprene | 801.46 | N/A |
| s-methoprene | 11,535.51 | 1,503 |
| methoxychlor | 9.85 | 1 |
| methoxyfenozide | 512,945.75 | 36,449 |
| methyl anthranilate | 1,208.28 | 119 |
| methylated fatty acids from canola oil | 179,498.05 | 2,852 |
| methylated naphthalene | 0.24 | N/A |
| methylated silica | 98.57 | 174 |
| methylated soybean oil | 2,480,146.7 | 124,015 |
| methyl bromide | 1,637,709.07 | 364 |
| 2-methyl-1-butanol | 0.99 | N/A |
| methyl cellulose | 7.63 | 4 |
| 1-methylcyclopropene | 0.59 | N/A |
| methyl-2,3-dichloro-9-hydroxyfluorene-9-carboxylate | 0.52 | N/A |
| methyl-2,7-dichloro-9-hydroxyfluorene-9-carboxylate | 11.57 | N/A |
| methylene chloride | 19.23 | N/A |
| methyl esters of cottonseed oil | 4,369.28 | 92 |
| methyl eugenol | 1,138.09 | N/A |
| methyl iodide | 9.44 | 1 |
| (3s, 6r)-3-methyl-6-isopropenyl-9-decen-1-yl acetate | 64.6 | 1,737 |
| (3s, 6s)-3-methyl-6-isopropenyl-9-decen-1-yl acetate | 64.6 | 1,737 |
| 2-methyl-4-isothiazolin-3-one | 3,072.99 | N/A |
| methyl nonyl ketone | 0.03 | N/A |
| n-methyl-n-oleoyltaurine, sodium salt | 90.29 | 9 |
| methyl parathion | 10.1 | 2 |
| methyl parathion, other related | 0.33 | 1 |
| methyl silicone resins | 48,307.06 | 11,900 |
| metiram | 12.89 | N/A |
| metofluthrin | 11.91 | N/A |
| metolachlor | 72,056.71 | 692 |
| s-metolachlor | 269,416.66 | 4,102 |
| metrafenone | 61,878.33 | 9,919 |
| metribuzin | 24,787.4 | 1,069 |
| mevinphos | 149.84 | 3 |
| mevinphos, other related | 99.54 | 3 |
| milbemectin | 0.04 | 2 |
| mineral oil | 30,165,317.52 | 112,948 |

| Chemical | Pounds Applied | Apps |
|--|----------------|---------|
| modified phthalic glycerol alkyd resin | 148,083.05 | 16,848 |
| molasses | 5,127.69 | 10 |
| molinate | 0.05 | N/A |
| morpholine | 1,078.85 | 594 |
| msma | 7,088.07 | 20 |
| muscalure | 18.0 | 7 |
| myclobutanil | 62,854.05 | 17,677 |
| myristyl alcohol | 46.52 | 192 |
| myrothecium verrucaria, dried fermentation solids & solubles, strain aarc-0255 | 21,638.78 | 555 |
| naa | 14.47 | 656 |
| naa, ammonium salt | 248.86 | 73 |
| naa, ethyl ester | 13,843.63 | 70 |
| naa, potassium salt | 613.02 | 154 |
| naa, sodium salt | 1.2 | 4 |
| nabam | 4,796.98 | N/A |
| naled | 317,861.2 | 5,194 |
| naphtha, heavy aromatic | 0.12 | N/A |
| naphthalene | 0.12 | N/A |
| 1-naphthaleneacetamide | 7.31 | 4 |
| naphthalenesulfonic acid, formaldehyde condensate, sodium salt | 0.52 | N/A |
| napropamide | 17,102.71 | 1,162 |
| natamycin | 96.2 | 3 |
| nerolidol | 70.1 | 224 |
| nicarbazin | 45.2 | N/A |
| nicosulfuron | 984.07 | 725 |
| nitrapyrin | 178.67 | 16 |
| nonanoic acid | 12,279.81 | 384 |
| nonanoic acid, other related | 645.35 | 376 |
| 4-nonylphenol, formaldehyde resin, propoxylated | 166,817.34 | 46,823 |
| alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene) | 2,361,688.79 | 249,743 |
| alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), branched | 31,452.54 | 7,822 |
| alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester | 238,842.42 | 37,154 |
| alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene) sulfate, ammonium salt | 685.19 | 164 |
| norflurazon | 6,631.21 | 257 |
| novaluron | 25,669.68 | 6,825 |
| noviflumuron | 13.05 | 1 |
| octhilinone | 27,088.51 | N/A |
| n-octyl bicycloheptene dicarboximide | 4,630.83 | 28 |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| octyl decyl dimethyl ammonium chloride | 42.33 | 38 |
| alpha-octylphenyl-omega-hydroxypoly(oxyethylene) | 7,388.25 | 2,568 |
| oil of anise | 0.01 | N/A |
| oil of black pepper | 0.06 | N/A |
| oil of citronella | 1.5 | N/A |
| oil of jojoba | 12.27 | 1 |
| oil of orange | 486.18 | 2,355 |
| oleic acid | 80,020.32 | 21,900 |
| oleic acid, ethyl ester | 251,326.2 | 27,959 |
| oleic acid, methyl ester | 625,924.32 | 15,784 |
| orchex 796 oil | 996.16 | 42 |
| organo/modified polysiloxane | 80.29 | 920 |
| organosilicone, poly oxyalkylene ether copolymer | 8,706.36 | 1,742 |
| orthosulfamuron | 1.0 | 1 |
| oryzalin | 245,059.86 | 3,918 |
| oxadiazon | 3,626.15 | 290 |
| oxalic acid | 22.02 | 14 |
| oxamyl | 103,763.17 | 1,764 |
| oxathiapiprolin | 2,150.92 | 7,585 |
| oxirane, 2-methyl-, polymer with oxirane, mono(2-ethylehexyl) ether | 17.04 | N/A |
| oxycarboxin | <0.01 | 1 |
| oxydemeton-methyl | 9.43 | 1 |
| oxyfluorfen | 878,203.41 | 62,047 |
| oxytetracycline, calcium complex | 1,284.65 | 270 |
| oxytetracycline hydrochloride | 4,942.27 | 1,068 |
| oxytetracycline hydrochloride, other related | 45.64 | 1,068 |
| paclobutrazol | 6,234.54 | 7,667 |
| paecilomyces fumosoroseus apopka strain 97 | 8,341.37 | 2,938 |
| purpureocillium lilacium strain 251 | 2,872.18 | 378 |
| paraquat dichloride | 1,340,824.82 | 24,630 |
| parathion | 46.68 | 1 |
| pcnb | 69,718.43 | 256 |
| pcp, other related | 2.37 | 22 |
| pendimethalin | 2,319,035.47 | 28,787 |
| penflufen | 10.66 | N/A |
| penoxsulam | 6,609.17 | 4,263 |
| pentachlorophenol | 21.01 | 22 |
| penthiopyrad | 132,930.5 | 15,469 |
| permethrin | 138,561.31 | 36,217 |
| permethrin, other related | 0.41 | N/A |
| peroxyacetic acid | 169,586.61 | 13,688 |
| petroleum distillates | 64,119.46 | 683 |

| Chemical | Pounds Applied | Apps |
|--|-----------------------|-------------|
| petroleum distillates, aliphatic | 1,131.73 | 443 |
| petroleum distillates, aromatic | 219,993.5 | 6,002 |
| petroleum distillates, refined | 1,764,078.33 | 7,411 |
| petroleum hydrocarbons | 116.23 | 6 |
| petroleum naphthenic oils | 420.69 | 422 |
| petroleum oil, paraffin based | 939,038.38 | 10,150 |
| petroleum oil, unclassified | 6,958,986.46 | 12,484 |
| phenmedipham | 394.65 | 64 |
| phenol | 2.27 | 3 |
| phenothrin | 2,457.71 | 1 |
| phenothrin, other related | 0.01 | 1 |
| phenylethyl propionate | 20.16 | N/A |
| phenylmercuric acetate | 1.71 | 1 |
| ortho-phenylphenol | 400.05 | 41 |
| phorate | 30,814.57 | 427 |
| phosacetin | 0.04 | 1 |
| phosmet | 24,686.92 | 280 |
| phosphamidon | 1.4 | 1 |
| phosphamidon, other related | 0.05 | 1 |
| phosphine | 48,882.5 | 1 |
| phosphoric acid | 161,745.13 | 65,023 |
| phosphoric acid, monopotassium salt | 3,350.0 | 18 |
| picloram | 0.83 | 1 |
| picoxystrobin | 0.47 | 1 |
| pindone | <0.01 | N/A |
| beta-pinene polymer | 803.79 | 164 |
| pine oil | 13.55 | 2 |
| pinoxaden | 944.46 | 266 |
| piperalin | 272.25 | 281 |
| piperine | 0.02 | N/A |
| piperonyl butoxide | 52,264.41 | 2,244 |
| piperonyl butoxide, other related | 3,721.96 | 1,972 |
| polyacrylamide, polyethylene glycol mixture | 17,900.05 | 4,750 |
| polyacrylamide polymer | 10,837.21 | 24,125 |
| polyacrylic polymer | 3,171.8 | 6,777 |
| polyalkylene ether | 0.04 | N/A |
| polyalkene oxide modified heptamethyl trisiloxane | 53,455.84 | 36,333 |
| polyalkyleneoxide modified polydimethyl-siloxane | 51,110.77 | 4,728 |
| polybutenes | 97,291.49 | 38,257 |
| poly(oxy-1,2-ethanediyl), alpha-isodecyl-omega-hydroxy-phosphate, potassium salt | 8,487.01 | 1,828 |
| polyether modified polysiloxane | 78,152.43 | 36,703 |
| polyethoxylated castor oil | 15,486.29 | 9,011 |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| polyethoxy polypropoxy polyethoxy ethanol - iodine complex | 0.16 | N/A |
| polyethylene glycol | 159,790.37 | 24,009 |
| polyethylene glycol diacetate | 712.38 | 2,916 |
| polyethylene glycol ditallate | 4.46 | 62 |
| polyethylene glycol mono(3-(tetramethyl-1-(trimethylsiloxy)disiloxanyl)propyl)ether | 65,895.86 | 12,876 |
| polyethylene glycol oleate | 716.23 | 223 |
| polyethylene glycol stearate | 60,460.88 | 27,953 |
| polyhedral occlusion bodies (ob's) of the nuclear polyhedrosis virus of helioverpa zea (corn earworm) | 22.03 | 259 |
| polyoxyethylene polyol fatty acid esters | 3,257.82 | 506 |
| poly-i-para-menthene | 11,102.15 | 1,276 |
| polymerized acrylic acid | 806.41 | 64 |
| polymerized pinene | 76,079.0 | 4,608 |
| polyoxin d, zinc salt | 13,107.93 | 7,784 |
| poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, mono-c11-14-isoalkyl ethers, c13-rich, phosphates | 547.05 | 1,136 |
| polyoxyethylene cetyl-stearyl ether | 448.89 | 654 |
| poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride | 1,522.58 | 2 |
| polyoxyethylene dioleate | 1,840.73 | 1,683 |
| polyoxyethylene mixed fatty acid ester | 1,917.81 | 567 |
| polyoxyethylene polyoxypropylene | 110,193.01 | 21,358 |
| poly(oxyethylene) poly(oxypropylene) glycol monoallyl ether | 12,189.84 | 7,781 |
| polyoxyethylene sorbitol, mixed ether ester | 94,008.89 | 3,815 |
| polyoxyethylene sorbitan mixed fatty acid esters | 22,114.4 | 197 |
| polyoxyethylene sorbitan monolaurate | 15,442.7 | 2,026 |
| polyoxyethylene sorbitan monooleate | 28,647.48 | 6,285 |
| polyoxyethylene sorbitan trioleate | 105,571.92 | 6,185 |
| polyoxyethylene soybean oil fatty acid ester | 99,927.86 | 7,196 |
| polyoxyethylene tall oil fatty acid ester | 556.42 | 235 |
| polyoxyethylene (6) tridecyl alcohol | 1.82 | 1 |
| polypropylene glycol | 157.13 | 2,636 |
| polysaccharide polymer | 33.31 | 679 |
| polysiloxane | 2,433.29 | 719 |
| polysorbate 65 | 13,259.88 | 4,415 |
| potash soap | 154,553.59 | 6,787 |
| potassium bicarbonate | 468,514.05 | 10,720 |
| potassium carbonate | 1.89 | 2 |
| potassium hydroxide | 5,313.09 | 6,417 |
| potassium n-methyldithiocarbamate | 6,629,297.74 | 2,872 |
| potassium nitrate | 9,714.38 | 1,736 |

| Chemical | Pounds Applied | Apps |
|---|-----------------------|-------------|
| potassium peroxymonosulfate | 2,101.85 | 101 |
| potassium phosphite | 1,651,324.8 | 27,049 |
| potassium salt of hop beta acids | 9.21 | N/A |
| potassium silicate | 28,004.23 | 564 |
| prallethrin | 1,719.71 | 5 |
| prodiamine | 45,861.59 | 2,802 |
| prodiamine, other related | 1.3 | 3 |
| prohexadione-calcium | 1,545.27 | 297 |
| prohydrojasmon | <0.01 | N/A |
| prometon | 43.5 | N/A |
| prometryn | 43,210.15 | 4,123 |
| propamocarb | 400.34 | N/A |
| propamocarb hydrochloride | 63,242.31 | 5,483 |
| propanil | 1,855,890.45 | 4,883 |
| propargite | 227,357.1 | 2,081 |
| propetamphos | 0.93 | N/A |
| propiconazole | 199,462.18 | 25,631 |
| propionic acid | 207,886.25 | 37,241 |
| propoxur | 14.93 | N/A |
| propylene glycol | 122,111.48 | 40,675 |
| propylene glycol, methyl ether | 26.03 | 9 |
| propylene glycol n-propyl ether | 0.34 | N/A |
| propylene oxide | 229,979.18 | N/A |
| propyzamide | 115,296.84 | 11,150 |
| prothioconazole | 36.6 | 4 |
| pseudomonas fluorescens, strain a506 | 66.18 | 14 |
| putrescent whole egg solids | 2.3 | N/A |
| pymetrozine | 5,843.35 | 4,670 |
| pyraclostrobin | 132,890.0 | 37,349 |
| pyraflufen-ethyl | 2,774.36 | 17,368 |
| pyrazon | 1.3 | N/A |
| pyrethrins | 12,246.56 | 18,671 |
| pyridaben | 2,877.69 | 664 |
| pyridalyl | 542.31 | 1,022 |
| pyrfluquinazon | 101.24 | 652 |
| pyrimethanil | 102,656.37 | 7,902 |
| pyriofenone | 7,825.86 | 2,768 |
| pyriproxyfen | 19,271.08 | 8,757 |
| pyrithiobac-sodium | 139.64 | 103 |
| pyroxsulam | 2,357.05 | 2,804 |
| qst 713 strain of dried bacillus subtilis | 25,388.05 | 17,479 |
| quillaja | 1,635.54 | 4,055 |
| quinclorac | 455.47 | 4 |

| Chemical | Pounds Applied | Apps |
|--|----------------|--------|
| quinclorac, dimethylamine salt | 2,158.34 | 4 |
| quinoxifen | 45,485.56 | 20,177 |
| red cabbage color | 282.99 | 475 |
| resmethrin | 2.56 | N/A |
| resmethrin, other related | 0.08 | N/A |
| reynoutria sachalinensis | 23,074.76 | 10,166 |
| rimsulfuron | 34,416.04 | 25,699 |
| ronnel | 0.12 | 1 |
| rotenone | 0.61 | 31 |
| rotenone, other related | 0.51 | 31 |
| sabadilla alkaloids | 188.34 | 274 |
| saflufenacil | 34,745.92 | 20,435 |
| salicylic and benzoic esters of propylene glycol | 27.19 | N/A |
| saponin | 780.2 | 187 |
| sethoxydim | 55,595.9 | 4,390 |
| siduron | 989.67 | 9 |
| silica aerogel | 8,399.19 | N/A |
| silicone | 320.07 | 305 |
| silicone defoamer | 227.89 | 11,122 |
| silica filled polydimethylsiloxane | 100.14 | 2,227 |
| silver, ionic | <0.01 | N/A |
| silver nitrate | 0.13 | 17 |
| simazine | 100,447.91 | 2,700 |
| soap | 1.01 | 1 |
| sodium arsenate | 0.02 | N/A |
| sodium bisulfate | 12.89 | 5 |
| sodium bromide | 183,118.82 | 1 |
| sodium bromosulfamate, sodium chlorosulfamate, potassium bromosulfamate, potassium chlorosulfamate | 9,548.82 | N/A |
| sodium carbonate | 17.44 | 4 |
| sodium carbonate peroxyhydrate | 276,479.28 | 169 |
| sodium chlorate | 554,446.22 | 662 |
| sodium chloride | 146.96 | 97 |
| sodium chlorite | 102,358.11 | 5 |
| sodium cyanide | 2,617.82 | N/A |
| sodium decyl sulfate | 2,245.93 | N/A |
| sodium di (1-alkenyl) phenoxy benzene disulfonate | <0.01 | N/A |
| sodium dichloro-s-triazinetrione | 63,341.83 | N/A |
| sodium dichloro-s-triazinetrione dihydrate | 25,051.21 | N/A |
| sodium diisooctylsulfosuccinate | 858.33 | 2,643 |
| sodium dimethyl dithio carbamate | 4,796.98 | N/A |
| sodium dioctylsulfosuccinate | 4.91 | 20 |
| sodium fluoride | 0.32 | N/A |

| Chemical | Pounds Applied | Apps |
|---|-----------------------|-------------|
| sodium fluosilicate | 0.08 | N/A |
| sodium hydroxide | 19,226.74 | 10,421 |
| sodium hypochlorite | 1,525,624.05 | 99 |
| sodium lauroampho acetate | 1,695.04 | N/A |
| sodium lauryl sulfate | 1,147.98 | N/A |
| sodium metabisulfite | 9,166.68 | N/A |
| sodium metaborate | 1,073.97 | N/A |
| sodium metaborate tetrahydrate | 339.5 | 6 |
| sodium metasilicate | 7.36 | 3 |
| sodium mono (1-alkenyl) phenoxy benzene disulfonate | 0.01 | N/A |
| sodium nitrate | 5,058.58 | 7 |
| sodium alpha-olefin (c14-c16) sulfonate | 25,245.05 | N/A |
| sodium persulfate | 0.28 | N/A |
| sodium polyacrylate | 6,320.34 | 12,654 |
| sodium tetraborate (pentahydrate) | 272.11 | N/A |
| sodium tripolyphosphate | 317.6 | 458 |
| sodium xylene sulfonate | 5,361.16 | 11,597 |
| sorbitan fatty acid esters | 4,796.31 | 164 |
| sorbitan monooleate | 42.76 | 46 |
| sorbitan trioleate | 13,782.19 | 4,432 |
| sorbitol | 5,221.85 | 1,891 |
| soybean fatty acids, dimethylamine salt | 3.09 | 3 |
| soybean oil | 70,157.59 | 2,993 |
| spinetoram | 76,395.31 | 58,912 |
| spinosad | 36,159.8 | 32,732 |
| spirodiclofen | 47,910.47 | 2,794 |
| spiromesifen | 37,986.96 | 4,478 |
| spirotetramat | 107,948.11 | 55,949 |
| starch | 1.48 | 653 |
| streptomyces griseoviridis strain k61 | 0.64 | 10 |
| streptomyces lydicus wyec 108 | 3.49 | 2,182 |
| streptomycin | 0.56 | 2 |
| streptomycin sulfate | 9,881.87 | 2,090 |
| strychnine | 1,091.16 | 2,085 |
| styrene butadiene copolymer | 19,586.53 | 11,716 |
| sugar | 774.84 | 5 |
| sulfaquinoxaline | 0.26 | 1 |
| sulfentrazone | 2,534.54 | 54 |
| sulfluramid | 0.02 | N/A |
| sulfometuron-methyl | 14,755.16 | 35 |
| sulfosulfuron | 41.94 | 5 |
| sulfoxaflor | 15,363.79 | 15,152 |
| sulfur | 49,038,554.0 | 170,396 |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| sulfur dioxide | 283,376.57 | 23 |
| sulfuric acid | 5,042.2 | 4,658 |
| sulfuryl fluoride | 3,019,149.34 | 50 |
| tall oil | 45,636.68 | 20,238 |
| tall oil fatty acids | 186,469.11 | 47,491 |
| tallow bis(2-hydroxyethyl)amine | 2.8 | 16 |
| tartrazine | 102.63 | 25 |
| tcmtb | 1,934.22 | N/A |
| tebuconazole | 116,656.96 | 22,563 |
| tebufenozide | 2,699.81 | 226 |
| tebuthiuron | 7,750.29 | 1 |
| tembotrione | 4,674.08 | 1,166 |
| temephos | 1.55 | N/A |
| 1080 | 1.2 | 14 |
| terbuthylazine | 1,149.02 | N/A |
| terbutryn | 0.97 | N/A |
| terrazole | 108.22 | 100 |
| tetrachloroethylene | 50.77 | N/A |
| tetrachlorvinphos | 63.02 | N/A |
| tetraconazole | 7,174.28 | 6,651 |
| z,e-9,12-tetradecadien-1-yl acetate | 159.01 | 35 |
| e-11-tetradecen-1-yl acetate | 7.79 | 36 |
| z-11-tetradecen-1-yl acetate | 0.08 | 33 |
| tetradecyl dimethyl betaine | 0.15 | 2 |
| tetrakis (hydroxymethyl) phosphonium sulfate | 5,313.63 | N/A |
| tetramethrin | 9.93 | 1 |
| alpha-[para-(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxyethylene) | 8,312.37 | 9,715 |
| alpha-[para-(1,1,3,3,-tetramethylbutyl)phenyl]-omega-hydroxypoly(oxyethylene) phosphate ester | 0.5 | 4 |
| tetrapotassium pyrophosphate | 864.97 | 9,574 |
| thiabendazole | 32,300.34 | 466 |
| thiabendazole, hypophosphite salt | 2.89 | N/A |
| thiamethoxam | 52,166.58 | 27,845 |
| thidiazuron | 13,678.02 | 3,740 |
| thiencarbazone-methyl | 21.77 | 1 |
| thifensulfuron-methyl | 0.48 | N/A |
| thiobencarb | 654,018.35 | 2,341 |
| thiophanate | 306.91 | 14 |
| thiophanate-methyl | 203,084.77 | 12,260 |
| thiram | 129,590.42 | 1,417 |
| thyme | 10.79 | N/A |
| thyme oil | 6.82 | N/A |

| Chemical | Pounds Applied | Apps |
|---|----------------|--------|
| thymol | 161.98 | 24 |
| tolfenpyrad | 256.19 | 438 |
| topramezone | 20.91 | 15 |
| toxaphene | 0.95 | N/A |
| tralkoxydim | 0.44 | 1 |
| tralomethrin | 0.77 | N/A |
| triadimefon | 1,178.69 | 477 |
| triallate | 1,421.73 | 19 |
| tribenuron-methyl | 2,374.21 | 3,446 |
| s,s,s-tributyl phosphorotrithioate | 8,104.42 | 141 |
| tributyl tetradecyl phosphonium chloride | 36.0 | N/A |
| tributyltin oxide | 0.01 | 1 |
| trichlorfon | 7.2 | N/A |
| trichloro ethylene | 1.96 | N/A |
| trichlorofluoromethane | 65.43 | N/A |
| trichloro-s-triazinetrione | 25,064.96 | N/A |
| 2,3,5-trichloro-4-(propylsulfonyl) pyridine | 0.48 | N/A |
| 2,3,5-trichloro-4-(propylsulfonyl)pyridine, other related | 0.05 | N/A |
| trichoderma harzianum rifai strain krl-ag2 | 94.72 | 1,771 |
| trichoderma icc 012 asperellum | 32.4 | 29 |
| trichoderma icc 080 gamsii | 32.4 | 29 |
| trichoderma virens strain g-41 | 11.02 | 770 |
| triclopyr, butoxyethyl ester | 76,034.43 | 533 |
| triclopyr choline | 7,497.71 | 43 |
| triclopyr, triethylamine salt | 513,894.88 | 4,652 |
| (e)-4-tridecen-1-yl-acetate | 0.14 | 2 |
| (z)-4-tridecen-1-yl-acetate | 3.35 | 2 |
| alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate | 45,514.85 | 13,522 |
| triethanolamine | 10,111.22 | 14,645 |
| triethanolamine oleate | 2,720.62 | 2,316 |
| triethylene glycol | 1.99 | 3 |
| trifloxystrobin | 99,375.97 | 25,627 |
| trifloxysulfuron-sodium | 142.28 | 25 |
| triflumizole | 28,096.82 | 4,242 |
| trifluralin | 320,049.75 | 6,904 |
| triflusulfuron-methyl | 148.38 | 116 |
| triforine | 0.09 | N/A |
| 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride | 0.41 | 1 |
| trimethylamine | 0.08 | N/A |
| alpha-2,4,6-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene) | 0.36 | 2 |

| Chemical | Pounds Applied | Apps |
|---|-----------------------|-------------|
| alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene) | 69,026.93 | 14,862 |
| trinexapac-ethyl | 8,204.57 | 127 |
| triptolide | 0.01 | N/A |
| trisodium phosphate | 327.35 | 220 |
| triticonazole | 525.02 | 132 |
| ulocladium oudemansii (u3 strain) | 1,431.16 | 172 |
| alpha-undecyl-omega-hydroxypoly(oxyethylene) | 524,542.73 | 78,608 |
| uniconzole-p | 1.95 | 964 |
| urea | 32,933.85 | 2,138 |
| urea dihydrogen sulfate | 399,044.6 | 11,281 |
| vanillin | 0.07 | 2 |
| vegetable oil | 668,393.31 | 4,520 |
| (s)-verbenone | 26.01 | N/A |
| vinclozolin | 11.7 | 1 |
| 4-vinylcyclohexenediepoide | 0.91 | N/A |
| vinyl ester polymer | 21.61 | 33 |
| vinyl polymer | 1,859.03 | 4,995 |
| warfarin | 2.67 | 225 |
| warfarin, sodium salt | 0.08 | 1 |
| xanthan gum | 9.45 | 933 |
| xylene | 780.92 | 57 |
| xylene range aromatic solvent | 38.41 | N/A |
| 2,4-xylenol | 0.28 | 3 |
| yeast | 0.06 | N/A |
| yucca schidigera | 6,750.06 | 1,027 |
| zinc chloride | 0.55 | N/A |
| zinc naphthenate | 4.13 | 1 |
| zinc phosphide | 2,276.98 | 352 |
| zinc sulfate | 4,882.13 | 1,356 |
| zineb | 4.65 | 4 |
| ziram | 585,681.2 | 5,111 |
| zoxamide | 1,603.57 | 158 |
| unknown | N/A | 1 |