

**Materials for July 28, 2016
Scientific Guidance Panel Meeting
Biomonitoring California**

Pesticides Included on List of Designated Chemicals

Pesticides ^{1, 2}

Carbamate Insecticides ¹

Benfuracarb
Carbofuranphenol
Carbaryl
1-Hydroxynaphthalene ³
2-Hydroxynaphthalene ³
Carbofuran
Carbofuranphenol
Carbosulfan
Carbofuranphenol
Furathiocarb
Carbofuranphenol
Propoxur
2-Isopropoxyphenol

Fungicides ¹

Captafol
Tetrahydrophthalimide
Captan
Phthalimide
Tetrahydrophthalimide
Chlorothalonil
Dichloran
Folpet
Phthalimide
Iprodione
Mancozeb
Ethylene thiourea
Maneb
Ethylene thiourea
Metalaxyl
Metiram
Ethylene thiourea
Nabam
Ethylene thiourea
Pentachlorophenol
o-Phenylphenol
Propineb
Propylene thiourea
Thiram
Ethylene thiourea
Ziram
Ethylene thiourea

Herbicides - Substituted Ureas ¹

Bensulfuron-methyl
Chlorimuron-ethyl
Chlorsulfuron
Diuron

Ethametsulfuron-methyl
Foramsulfuron
Halosulfuron
Iodosulfuron
Linuron
Mesosulfuron-methyl
Metsulfuron-methyl
Nicosulfuron
Oxasulfuron
Primisulfuron-methyl
Prosulfuron
Rimsulfuron
Sulfometuron-methyl
Sulfosulfuron
Thifensulfuron-methyl
Triasulfuron
Triflurosulfuron-methyl
Non-specific metabolites
Dimethoxy pyrimidine
Dimethyl pyrimidine
Methyl methoxytriazine

Organochlorine Pesticides ¹

Aldrin
Dieldrin
Chlordane
trans-Nonachlor
Oxychlordane
Dichlorodiphenyltrichloroethane (DDT) (including
p,p'-DDT and o,p'-DDT)
p,p'-Dichlorodiphenyldichloroethene (p,p'-
DDE)
Dieldrin
Endosulfan
Endosulfan-ether
Endosulfan-lactone
Endosulfan-sulfate
Endrin
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Pentachlorophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
Hexachlorocyclohexanes (HCH) (including beta-
HCH and gamma-HCH [lindane])
Pentachlorophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
Methoxychlor
Dihydroxy methoxychlor
Monohydroxy methoxychlor

Mirex

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

Organophosphate Insecticides ¹

Acephate

Methamidophos

Azinphos methyl

Dimethyldithiophosphate

Dimethylphosphate

Dimethylthiophosphate

Chlorethoxyphos

Diethylphosphate

Diethylthiophosphate

Chlorpyrifos

Diethylphosphate

Diethylthiophosphate

3,5,6-Trichloro-2-pyridinol (TCPy)

Chlorpyrifos methyl

Dimethylphosphate

Dimethylthiophosphate

3,5,6-Trichloro-2-pyridinol (TCPy)

Coumaphos

3-Chloro-7-hydroxy-4-methyl-2H-chromen-2-one/ol

Diethylphosphate

Diethylthiophosphate

Diazinon

Diethylphosphate

Diethylthiophosphate

2-Isopropyl-4-methyl-6-hydroxypyrimidine

Dichlorvos (DDVP)

Dimethylphosphate

Dicrotophos

Dimethylphosphate

Dimethoate

Dimethyldithiophosphate

Dimethylphosphate

Dimethylthiophosphate

Omethoate

Disulfoton

Diethyldithiophosphate

Diethylphosphate

Diethylthiophosphate

Ethion

Diethyldithiophosphate

Diethylphosphate

Diethylthiophosphate

Fenitrothion

Dimethylphosphate

Dimethylthiophosphate

Fenthion

Dimethylphosphate

Dimethylthiophosphate

Isazophos-methyl

5-Chloro-1,2-dihydro-1-isopropyl-[3H]-1,2,4-triazol-3-one

Dimethylphosphate

Dimethylthiophosphate

Malathion

Dimethyldithiophosphate

Dimethylphosphate

Dimethylthiophosphate

Malathion dicarboxylic acid

Methamidophos

Methidathion

Dimethyldithiophosphate

Dimethylphosphate

Dimethylthiophosphate

Methyl parathion

Dimethylphosphate

Dimethylthiophosphate

p-Nitrophenol

Naled

Dimethylphosphate

Oxydemeton-methyl

Dimethylphosphate

Dimethylthiophosphate

Parathion (Ethyl parathion)

Diethylphosphate

Diethylthiophosphate

p-Nitrophenol

Phorate

Diethyldithiophosphate

Diethylphosphate

Diethylthiophosphate

Phosmet (Imidan)

Dimethyldithiophosphate

Dimethylphosphate

Dimethylthiophosphate

Pyrimiphos-methyl

2-(Diethylamino)-6-methylpyrimidin-4-ol/one

Dimethylphosphate

Dimethylthiophosphate

Sulfotep

Diethylphosphate

Diethylthiophosphate

Temephos

Dimethylphosphate

Dimethylthiophosphate

Terbufos

Diethyldithiophosphate

Diethylphosphate

Diethylthiophosphate

Tetrachlorvinphos

Dimethylphosphate

Pyrethroid Pesticides ⁴

Allethrin
 cis/trans-Dimethylvinylcyclopropane
carboxylic
 diacid
Bifenthrin
Cyfluthrin
 cis-3-(2,2-Dichlorovinyl)-2,2-
dimethylcyclopropane carboxylic acid
 (*cis*-DCCA)
 trans-3-(2,2-Dichlorovinyl)-2,2-
dimethylcyclopropane carboxylic acid
 (*trans*-DCCA)
 4-Fluoro-3-phenoxybenzoic acid
Cyhalothrin (including *lambda*- and *gamma*-)
 3-Phenoxybenzoic acid (3-PBA)
Cypermethrin (including *cis*- and *trans*-)
 cis-3-(2,2-Dichlorovinyl)-2,2-
dimethylcyclopropane carboxylic acid
 (*cis*-DCCA)
 trans-3-(2,2-Dichlorovinyl)-2,2-
dimethylcyclopropane carboxylic acid
 (*trans*-DCCA)
 3-Phenoxybenzoic acid (3-PBA)
Cyphenothrin
Deltamethrin
 cis-3-(2,2-Dibromovinyl)-2,2-
dimethylcyclopropane carboxylic acid
 3-Phenoxybenzoic acid (3-PBA)
Esbiothrin
Esfenvalerate
Etofenprox
Fenpropathrin
 3-Phenoxybenzoic acid (3-PBA)
Fenvalerate
Imiprothrin
Metofluthrin
Permethrin (including *cis*- and *trans*-)
 cis-3-(2,2-Dichlorovinyl)-2,2-
dimethylcyclopropane carboxylic acid
 (*cis*-DCCA)
 trans-3-(2,2-Dichlorovinyl)-2,2-
dimethylcyclopropane carboxylic acid
 (*trans*-DCCA)
 3-Phenoxybenzoic acid (3-PBA)

Phenothrin (Sumithrin)
Prallethrin
Pyrethrin 1
 cis/trans-Dimethylvinylcyclopropane
carboxylic
 diacid
Resmethrin
 cis/trans-Dimethylvinylcyclopropane
carboxylic
 diacid
Tetramethrin
Tralomethrin
 3-Phenoxybenzoic acid (3-PBA)

Other Herbicides

Acetochlor
 Acetochlor mercapturate
Alachlor
 Alachlor mercapturate
Atrazine
 Atrazine mercapturate
 Diaminochlorotriazine
 Desethylatrazine
 Desisopropylatrazine
 Hydroxyatrazine
Dacthal
2,4-Dichlorophenoxyacetic acid (2,4-D), salts
and
 esters
 2,4-Dichlorophenoxyacetic acid
 2,4-Dichlorophenol
Metolachlor
 Metolachlor mercapturate
Pendimethalin
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T),
salts
and esters
 2,4,5-Trichlorophenoxyacetic acid
Trifluralin

Other Pesticides

1,4-Dichlorobenzene (*p*-Dichlorobenzene)
 2,5-Dichlorophenol
N,N-Diethyl-3-methylbenzamide (DEET)
Fipronil
Octhilinone

Notes

- ¹ All members of the chemical group are not designated chemicals; only the specific chemicals listed are designated chemicals.
- ² Fungicides, herbicides, and insecticides are grouped under the general heading of "Pesticides."
- ³ 1-Hydroxynaphthalene is the metabolite of both carbaryl and naphthalene. To determine the percent of 1-hydroxynaphthalene attributable to carbaryl alone, 2-hydroxynaphthalene (which is only a metabolite of naphthalene) must also be measured.
- ⁴ All members of the chemical group are designated chemicals, including, but not limited to, the chemicals shown.