

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

Pesticides Included on List of Designated Chemicals

**Pesticides** <sup>1, 2</sup>

**Carbamate Insecticides** <sup>1</sup>

Benfuracarb  
Carbofuranphenol  
Carbaryl  
1-Hydroxynaphthalene <sup>3</sup>  
2-Hydroxynaphthalene <sup>3</sup>  
Carbofuran  
Carbofuranphenol  
Carbosulfan  
Carbofuranphenol  
Furathiocarb  
Carbofuranphenol  
Propoxur  
2-Isopropoxyphenol

**Fungicides** <sup>1</sup>

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** <sup>1</sup>

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  
Triflusulfuron-methyl  
Non-specific metabolites  
Dimethoxy pyrimidine  
Dimethyl pyrimidine  
Methyl methoxytriazine

**Organochlorine Pesticides** <sup>1</sup>

Aldrin  
Dieldrin  
Chlordane  
*trans*-Nonachlor  
Oxychlordane  
Dichlorodiphenyltrichloroethane (DDT) (including *p,p'*-DDT and *o,p'*-DDT)  
*p,p'*-Dichlorodipenyldichloroethene (*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** <sup>1</sup>

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

Pirimiphos-methyl

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

Dimethylphosphate

Dimethylthiophosphate

Sulfotep

Diethylphosphate

Diethylthiophosphate

Temephos

Dimethylphosphate

Dimethylthiophosphate

Terbufos

Diethyldithiophosphate

Diethylphosphate

Diethylthiophosphate

Tetrachlorvinphos

Dimethylphosphate

**Pyrethroid Pesticides** <sup>4</sup>

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.