

Pesticide Active Ingredients Subject To Washington Toxics Coalition Lawsuit
(As of December 10, 2003)

Active ingredient	Crops	Importance	Status
1,3-Dichloropropene	Insecticide – controls plant parasitic nematodes & soil pests in vegetable crops, field crops, fruit & nut crops, nursery crops	Essential for the potato industry, 100% ground applied.	
*2,4-D	Herbicide – vegetables, corn, potatoes, wheat, hay, oats, pasture, rangeland, fallow land, turf, non-crop areas, forestry, tree fruit (Labeled for aquatic use.), roadsides	Second most commonly used herbicide in the state and applied by air within 300 feet of salmon streams routinely. Make or break product for a number of crops, particularly dry land growers.	
Acephate (Orthene)	Insecticide –vegetables (beans and lima beans, celery, cole crops, cranberries, mint) carrot seed	Important to a number of crops including: mint, carrot seed, cranberry	
Alachlor (-Bullet, Lasso)	Herbicide – annual grasses and broadleaves, vegetables (corn, grain), woody ornamentals		No effect, 5/30/02
*Atrazine	Herbicide – corn, wheat, broadleaf & grass weeds, forestry	Important to field corn growers.	No effect, 8/1/03
Azinphos-methyl (Guthion)	Insecticide – tree fruits (apples, peaches) grapes, vegetables (broccoli, cabbage, cauliflower, onions, potatoes, carrots)	Critical to tree fruit and to a lesser extent to other crops.	May effect, 7/31/03 25 ESU's
Bensulide (Prefar, Betasan)	Herbicide – annual grass and broadleaf weeds, cucurbit vegetables (cucumbers, squash, pumpkin, cole vegetables (broccoli, Brussels sprouts, cabbage, cauliflower), onions, turf	Limited use on a variety of crops.	May effect, 11/29/02 17 ESU's
Bentazon (Basagran, Pledge)	Herbicide – corn, dry and succulent beans, corn, peppermint and spearmint, peas, potatoes		No effect, 5/30/02
Bromoxynil (Buctril)	Herbicide – broadleaf weeds, barley, oats, corn, onions	Very important in WA, used on 99% of onions.	
Captan	Fungicide – tree fruit (apples, apricots, cherries, grapes, peaches), ornamentals (azaleas, camellias, roses), strawberries, red raspberries, blueberries	Very important to small fruits	May effect Snake River sockeye, Upper Columbia Chinook, 12/01/03
*Carbaryl (Sevin)	Insecticide – asparagus, vegetables, wheat, alfalfa, clover, berries, grapes, tree fruits (apples, pears, cherries), oyster beds	Important to asparagus, very important in apples, tree fruit.	May effect, 4/1/03 20 ESU's
Carbofuran (Furadan)	Insecticide – alfalfa, corn, ornamentals, small grains (wheat, oats, barley), potatoes, spinach, spinach seed	Used in alfalfa and potatoes – moderate importance.	
Chlorothalonil (Bravo, Echo, Equus, Terranil, Daconil)	Fungicide – field and row crops (dry beans, cabbage, cauliflower, broccoli, Brussels sprouts, carrots, corn, cranberry, cucumber, pumpkin, grasses grown for seed, mint, onion, potato, tree fruit (peach, nectarine, cherry), conifers, turf, vegetable seed	Most commonly used pesticide for potatoes in PNW - critical. Important on many minor crops. Essential in cranberries.	May effect, 12/01/03 9 ESU's
Chlorpyrifos (Lorsban, Dursban)	Insecticide – alfalfa, corn, wheat, cranberries, apples, pears, vegetables (cauliflower, Brussels sprouts, cabbage), veg seed, strawberries	Very important for a wide variety of crops – only maggot control for radish seed.	May effect, 4/1/03 19 ESU's

Active ingredient	Crops	Importance	Status
Coumaphos (Bee Strips, Co-Ral)	Miticide- beehives Insecticide- cattle ear tags, direct application to cattle		
*Diazinon	Insecticide – tree fruit, blueberries, cranberries, grapes, vegetable crops (beans, beets, broccoli, Brussels sprouts, cabbage, carrots, cucumbers, onions, peas, potatoes, squash, corn) veg seeds, hops, sugar beets, ornamentals, radish seed	Small amounts of use on lots of crops. Very important for aphid control in small fruits. Important for cabbage and radish seed.	May effect, 11/29/02 22 ESU's
*Dicamba (Banvel, Weedmaster, Trimec)	Herbicide – field, grass seed crops, corn, small grains (wheat, barley, and oats), annual grass and broadleaf weeds, turf, roadsides	Very important herbicide.	No effect, 4/1/03
*Dichlobenil (Casoron, Dyclomec, Norosac)	Herbicide – woody ornamentals, fruit (apples, blueberries, cherries, grapes, pears, cranberries), roadsides	Important in cranberries and tree fruits.	No effect, 7/31/03
Diflubenzuron (Dimilin)	Insecticide – trees and shrubs, ornamentals, commercial fish ponds and tanks	Use is increasing in ag. Currently more important for ornamentals.	
Dimethoate (Cygon)	Insecticide – fruit (apples, pears, grapes), vegetable crops (beans, broccoli, cauliflower, cabbage, peas, potatoes), lentils, field crops (alfalfa, corn, wheat), ornamentals, Christmas trees	Widely used, important product. Important for peas & lentils.	
Disulfoton (Di-Syston)	Insecticide –barley, wheat, tree fruit, vegetables (beans, Brussels sprouts, broccoli, cauliflower, cabbage, peas, lentils, potatoes), vegetable seed crops, ornamentals	Critical to asparagus, radish and clover seed, used in small amounts in lots of other crops such as small grains, potatoes, etc. Most important aphid control in radish seed.	May effect, 12/01/03 6 ESU's, Snake River Chinook, Snake & Columbia Steelhead
*Diuron (Karmex, Direx, Krovar)	Herbicide – alfalfa, apples, peach, pear, asparagus, corn, grape, grass, seed crops, peas, mint, wheat, non-crop weed control, red raspberries, blueberries, roadsides	Critical for asparagus, used in tree fruit and some non-cropland. Very important.	May effect, 8/1/03 16 ESU's - crop uses 22 ESU's – non crop
Ethoprop (Mocap)	Insecticide –beans, cabbage, corn, potatoes	Critical for wireworm control in potatoes.	May effect, 12/01/03 6 ESU's, Columbia River Chinook, Snake & Columbia Steelhead
Fenamiphos (Nemacur)	Nematicide –vegetables (cabbage, Brussels sprouts, garlic), red raspberries	The only post-plant nematicide in red raspberries	May effect, 12/01/03 2 ESU's - California
Fenbutatin-oxide (Vendex)	Acaracide – apples, pear, grape, peaches, cherry, Christmas trees, red raspberries, strawberries	Used in tree fruit, moderate importance. Very important for small fruits	May effect, 11/29/02 17 ESU's
Iprodione (Rovral)	Fungicide – tree fruit, small fruit (berries, grapes), vegetables (beans, broccoli, carrots, onions, garlic, potatoes), vegetable seed crops, turf	Used a small amount in potatoes and other crops. More important for vegetable seed.	No effect, 12/01/03
Lindane	Insecticide – Seed crops, corn, beans, wheat seed		

Active ingredient	Crops	Importance	Status
Linuron (Lorox)	Herbicide – broadleaf weeds and grasses, wheat, corn, potatoes, carrots, vegetable seed crops	Critical in carrots and asparagus, probably other crops.	
*Malathion	Insecticide – beans, vegetables (broccoli, turnips, cabbage, kale, corn, cucumber, squash, mint), alfalfa, clover, grass crops, grain (barley, wheat, oat, rye), garlic, lentil, onion, pea, potato, beet, fruits (apricot, cherry, peach), ornamentals, red raspberries, strawberries, blueberries	Used in small amounts in lots of crops, important niche uses.	
Methamidophos (Monitor)	Insecticide – potatoes	Used only on potatoes in WA – very, very important.	
Methidathion (Supracide)	Insecticide –alfalfa, dormant use on fruit trees, clover, nursery stock	Important for onions and pyrethroid resistant bugs.	
Methomyl (Lannate)	Insecticide – alfalfa, asparagus, barley, beans, broccoli, Brussels sprouts, cabbage, carrot, cauliflower, corn, cucumber, mint, onions, oats, peas, potato, wheat, ornamentals, blueberries		May effect, 4/1/03 24 ESU's
Methyl Parathion (Penncap, Declare)	Insecticide – corn, beans, potatoes, onions, wheat, pasture/range	Used in small amounts on a variety of crops.	
*Metolachlor (Dual, Cinch)	Herbicide - corn, grain, potatoes, vegetable seed crops, ornamentals	Important to corn, moderate importance to potatoes.	May effect, 11/29/02 15 ESU's
Metribuzin (Lexone, Sencor)	Herbicide – potatoes, alfalfa, asparagus, carrots, potatoes, wheat, barley, weed and grass control	Critical to potatoes, asparagus and some other crops.	
Molinate	Herbicide		No effect, 8/1/02
Naled (Dibrom)	Insecticide – peas, beans, broccoli, cauliflower, cabbage, hops, grapes, peaches, sugar beets, alfalfa, ornamentals		
Norflurazon	Herbicide – cranberries, asparagus, alfalfa, weed control in tree, and vine crops	Moderate importance.	No effect, 4/1/03
*Oryzalin (Surflan)	Herbicide – annual grasses and broadleaf weeds in fruit trees, vineyards, turf, & ornamentals, Christmas trees, red raspberries, blueberries, roadsides	Very important in trees and vines.	No effect or not likely to adversely affect, 4/1/03
Oxyfluorfen (Goal)	Herbicide –broccoli, cabbage, cabbage seed, cauliflower, corn, grapes, mint, onion, tree fruits, conifers, cottonwood, fallow bed, noncrop, red raspberries	Very, very important for grapes, tree fruit, mint, veg., all brassica's. Used on 99% of onion crop.	
Paraquat Dichloride (Boa, Gramoxone)	Herbicide - fruit orchards, ornamentals, alfalfa, clover, potato, red raspberries, blueberries	Critical	No effect, 4/1/03
Pebulate (Tillam)	Herbicide		No effect, 5/30/02
Pendimethalin (Prowl, Pendulum)	Herbicide –onions, beans, corn, legumes, vineyards, potatoes, small grains, carrot seed, ornamentals	Important to lots of crops including potatoes, grapes, onions. About to be registered on carrots.	
Phorate (Thimet)	Insecticide – wheat, beans, corn, potatoes, sugar beets	Important to potatoes and sugar beets.	May effect, 8/1/03 19 ESU's

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Phosmet (Imidan)	Insecticide – alfalfa, apples, apricots, blueberries, cherries, cranberries, grapes, nectarines, peaches, pears, peas, potatoes, ornamentals, Christmas trees	Very important in tree fruit and other fruit crops, moderately important in other crops such as potatoes.	No effect or not likely to adversely affect, 12/01/03
Prometryn (Caparol)	Herbicide	Very important for carrot seed. Only herbicide registered on dill.	May effect, 11/29/02 19 ESU's
Propargite (Omite, Comite)	Acaricide –beans, carrots, Christmas trees, conifers, clover, corn, grapes, hops, mint, nectarines, ornamentals, potatoes, sugar beets, cherries, apples, apricots, peaches, plums, pears	Critical to a number of crops including potatoes and tree fruit.	May effect, 8/1/02 7 ESU's (Eastern WA)
*Simazine (Princep)	Herbicide – alfalfa, apples, caneberrries, cherries, corn, cranberries, grapes, peaches, pears, ornamentals, berries, blueberries	Important in grapes and tree fruit, and probably other crops. Essential part of rotation with diuron and oryzalin	No effect, 8/1/03
Tebuthiuron (Spike)	Herbicide – industrial sites, soil sterilant (no crops)		
Terbacil (Sinbar)	Herbicide –alfalfa, apples, blueberries, mint, peaches	Moderate importance in tree fruit, possibly some other crops.	No effect, 7/29/03
Thiobencarb	Herbicide		No effect, 8/1/02
Thiodicarb	Insecticide		No effect, 4/1/03
Triallate (Far-go)	Herbicide		No effect, 11/29/02
*Triclopyr (Garlon)	Herbicide – grass pastures, forestry, industrial sites, turf, roadsides	Important in some areas.	No effect, 11/29/02
*Trifluralin (Treflan, Snapshot, Team)	Herbicide – tree fruit, alfalfa, asparagus, barley, beans, broccoli, cabbage, carrot, cauliflower, corn, cucumber, grapes, hops, peas, potato, vegetable seed crops, sugar beat, wheat, ornamentals, turf	Critical, widely used in many minor crops, it is the only product with its spectrum available. Only herbicide available for mustard and many seed crops.	

*Homeowner products.

Notes: The WTC v EPA lawsuit covers 26 ESU's across Washington, Oregon and California. Products with a “no effect” or “not likely to adversely affect” determination will not be subject to buffers. Buffers will apply to ESU's with “may effect” determinations.