

STATUS OF PESTICIDES COMMONLY USED IN ORCHARDS & VINEYARDS – NORTHERN CALIFORNIA

PERIOD	COMMON NAME	CHEMICAL NAME	GROUP	PRESENT STATUS	PERSISTENCE
1930-1950's	Arsenates	Ca, sodium, lead arsenate	Mineral	Ag use discontinued	V HI
	Mercury	mercuric chloride/cyanide	Mineral	Ag use discontinued	V HI
1930-1960's	Nicotine, Black Leaf 40	nicotine sulfate	Botanical	Ag use discontinued	V LO
	Carbon disulfide	carbon disulfide	Fumigant	Allowed (2006)	V LO
	Bordeaux	lime & copper sulfate	Mineral	Allowed (2006)	V HI
1930-Present	Sulfur, dust & spray	sulfur, lime sulfur	Mineral	Allowed (2006)	MOD
	Dormant, summer oil	petroleum oil	Mineral	Allowed (2006)	V LO
	Copper	copper, elemental & salts	Mineral	Allowed (2006)	V HI
1940-1970'S	Kelthane	dicofol	Organochlorine	Ag use discontinued	MOD
	Silvex, Fruitone	2,4,5 TP	Hormone, Herbicide	Ag use discontinued	MOD
	Weedar, 2,4,D, others	2,4,D ·		Allowed (2006)	LO
	Rhothane, DDD	p,p' TDE	Organochlorine	Ag use discontinued	V HI
	DDT	DDT		Ag use discontinued	V HI
	Chlordane	chlordane		Ag use discontinued	V HI
	Dieldrin	dieldrin		Ag use discontinued	V HI
	Thiodan	endosulfan ·		Ag use discontinued	HI
	Diazinon, Trithion (d)	organophosphate	Organophosphate	Allowed, discontinued (d)	MOD
	Guthion	azinphosmethyl ·		Allowed (2006)	MOD
	Parathion	ethyl & methyl parathion ·		Restricted	HI
	Cygon, Dimethoate	dimethoate		Allowed (2006)	LO
	Cryolite	sodium aluminofluoride	Mineral	Allowed (2006)	HI
1960-1970's	Dibrom	naled	Organophosphate	Allowed (2006)	V LO
	Fundal, Galecron, Amitraz	chlorodimeform	Formadine	Ag use discontinued	HI
	Sevin	carbaryl ·	Carbamate	Allowed (2006)	MOD
	Cyprex, Syllit	dodine	Fungicide	Discontinued; under review	LO
	Benlate	benomyl	Fungicide	Ag use discontinued	MOD
	Dimecron	phosphamidon	Organophosphate	Allowed (2006)	LO
	Acaraben, Kelthane	chlorobenzilate ·	Organochlorine	Allowed (2006)	HI
	Vendix, Plictran	fenbutatin-oxide, cyhexatin	Organo tin	Ag use discontinued	LO
1960-Present	Agramvcin, Mvco shield	streptomvcin, terramycin	Antibiotic	Allowed (2006)	V LO

1960-Present	Furadan	carbofuran ·	Carbamate	Allowed (2006)	MOD
	Gramoxone	paraquat ·	Herbicide	Allowed (2006)	HI
	Surflan	oryzalin	Herbicide	Allowed (2006)	MOD
	Manzate, Dithane	maneb, mancozeb	Carbamate	Allowed (2006)	LO
	Methyl bromide	methyl bromide ·	Fumigant	Ag use under review	V HI
	Zolone	phosalone	Organophosphate	Ag use discontinued	MOD
1980-Present	Pounce, Pydrin	synthetic pyrethrin	Pyrethroid	Allowed (2006)	MOD
	Roundup	glyphosate	Chem. Herbicide	Allowed (2006)	MOD
	Princep, simazine *	simazine * ·	Chem. Herbicide	Allowed (2006)	MOD
	Goal	oxyfluorfen	Chem. Herbicide	Chem. Herbicide	LO
	Sonar	fluridone	Chem. Herbicide	Allowed (2006)	MOD
	Ribigan, Procure	fungicide, sterol inhibitor	Chemical	Allowed (2006)	LO
	Acramite	bifenazate ·	Chemical, mites	Allowed (2006)	LO
	Nexter	pyridaben	Pyrethroid	Allowed (2006)	MOD
	Quintec	quinoxifen	Fungicide	Allowed (2006)	LO

BIO-RATIONAL PESTICIDES

(low mammalian toxicity & environmental persistence; highly selective)

PERIOD	COMMON NAME	CHEMICAL NAME	GROUP	PRESENT STATUS	PERSISTENCE
1970-Present	Bt, Dipel, others	Bacillus thuringiensis	Biological	Allowed (2006)	V LO
	Natur'l Oil, Cottenseed	vegetable oils	Botanical	Allowed (2006)	V LO
1980-Present	Pyrethrum	pyrethrum	Botanical	Allowed (2006)	V LO
	Mating disruption	various	Pheromone	Allowed (2006)	V LO
	Insecticidal soap	potassium salt – fatty acid	Mineral	Allowed (2006)	V LO
	Neem	azadirachtin	Botanical	Allowed (2006)	V LO
	Pravado, others	nicotinoid	New Chemistry	Allowed (2006)	V LO
	Ribigan, Procure	fungicide, sterol inhibitor	Chemical	Allowed (2006)	V LO
	Avid	abamectin	Biological	Allowed (2006)	V LO
	Flint, Abound, Sourin	strobilurin fungicides	Bio derivative	Allowed (2006)	V LO
	Success, Spintor	spinosad	Biological	Allowed (2006)	V LO
	Adept, Precision, Precor	insect growth regulators	IGR	Allowed (2006)	MOD
	Bt	Bacillus thuringiensis	Biological	Allowed (2006)	V LO
	Cinnamon, clove, rosemary, others	essential plant oils	Botanicals	Allowed (2006)	V LO

• Restricted materials; permit required for most uses in California * Use subject to restrictions near Ukiah, Kelseyville and areas of Sonoma County known as Ground Water Protection Areas (GWPA) or Pesticide Management Zones (PMZ), defined as areas of land that are vulnerable to the movement of pesticides to ground water according to either leaching or runoff processes.