

# Insecticide & Miticide Registrations in Oregon Caneberries – February 2020

Dani Lightle, Pesticide Registration Research Leader, Oregon State University

[danielle.lightle@oregonstate.edu](mailto:danielle.lightle@oregonstate.edu)

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Active Ingredient	Example trade Name	IRAC <sup>1</sup>	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	Aphids	Leafrollers	Root Weevils	Mites	Fruitworm	Thrips	SWD	Crown Borer	Others
Abamectin/Avermectin	AgriMek	6	12	7				✓					
Acequinocyl	Kanemite	20B	12	1				✓					
Acetamiprid	Assail	4A	12	1	✓				✓	✓			leafhoppers
<b>Beauveria bassiana</b>	Mycotrol	UNF	4	0	✓								many insects (see label)
Bifenazate	Acramite, Vigilant	20D	12	1				✓					
Bifenthrin	Brigade	3A	12	3		✓	✓	✓			✓	✓	
<b>Bt</b>	DiPel, Javelin, etc.	11A	4	0		✓							other leps (see label)
Carbaryl	Sevin	1A	12	7	✓	✓			✓				other insects (see label)
Chlorantraniliprole	Altacor	28	4	3		✓						✓	
Cyantraniliprole	Exirel	28	12	1			✓				✓		
Diazinon	Diazinon	1B	5 days	7					✓			✓	
Esfenvalerate	Asana XL	3A	12	7	✓	✓	✓						
Etoxazole	Zeal	10B	12	0				✓					
Fenbutatin-Oxide	Vendex ( <i>Raspberry only</i> )	12B	48	3				✓					
Fenpropathrin	Danitol	3A	24	3		✓		✓	✓		✓		armyworm, leafhoppers, lygus bug, stinkbug
Flupyradifurone	Sivanto	4D	4	0	✓								
Hexythiozox	Savey	10A	12	3				✓					
Imidacloprid	Admire Pro (foliar)	4A	12	3	✓					✓			leafhoppers

Active Ingredient	Example trade Name	IRAC <sup>1</sup>	REI <sup>2</sup>	PHI <sup>3</sup>	Aphids	Leafrollers	Root Weevils	Mites	Fruitworm	Thrips	SWD	Crown Borer	Others
Imidacloprid	Admire Pro (soil)	4A	12	7	✓								leafhoppers
Malathion	Malathion	1B	12	1	✓			✓		✓			leafhoppers
Methoxyfenozide	Intrepid	18	4	3		✓			✓				armyworm
<b>Neem</b>	AzaDirect, etc.	UNE	4	0	✓	✓							other insects/mites
<b>Oil</b>	BioCover, 6E, etc.	UNE	4	0				✓					other insects (see label)
Propargite	Omite	12C	10	365				✓					
<b>Pyrethrin</b>	Pyganic	3A	12	0	✓	✓							other insects (see label)
Pyriproxyfen	Esteem/Knack	7C	12	7					✓				scale
<b>Soaps</b>	Safer, M-Pede	?	12	0	✓								
Spinetoram	DelegateWG	5	4	1		✓			✓	✓	✓		armyworm, looper
<b>Spinosad</b>	Success, Entrust	5	4	1		✓			✓				armyworm, looper
Tebufenozide	Confirm	18	4	14		✓							other leps (see label)
Thiamethoxam	Actara	4A	12	3	✓		✓						leafhoppers, stinkbugs
Tolfenpyrad	Bexar	21A	12	1	✓	✓					✓		leafhoppers
Zeta-cypermethrin	Mustang	3A	12	1		✓	✓						

<sup>1</sup>IRAC: Insecticide (and Miticide) Resistance Action Committee Code Number. Insecticides/ Miticides with the same number should not be used consecutively, as they are similar in chemistry and/or mode of action and doing so may increase the risk of insecticide resistance.

<sup>2</sup>PHI: The preharvest interval (PHI) is the amount of time that must elapse between the last application of a pesticide and harvest of the crop. PHI (usually days) is found on the label in the use directions for each crop that is listed on the label.

<sup>3</sup>REI: All pesticide products have a prescribed-time restricted entry interval (REI) for worker protection. REI is clearly stated in the Agricultural Use Requirements section on the label. Generally, entry into treated areas during the prescribed time (usually hours) REI is not allowed unless Personal Protective Equipment (PPE) is worn or used.

Active Ingredients in **bold type** indicates some formulations are approved for organic production.

## Fungicide Registrations in Oregon Caneberries – February 2020

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Active Ingredient	Example Trade Name	FRAC <sup>1</sup>	REI <sup>2</sup>	PHI <sup>3</sup>	Anthraco- nose	Powdery Mildew	Botrytis	Septoria Leaf Spot	Spur Blight	Root Rot	Rust	Other
<b><i>Aureobasidium pullulans</i></b>	Botector	?	4	0	✓		✓					
Azoxystrobin	Abound	11	4	0	✓	✓		✓	✓		✓	
Azoxystrobin + propiconazole	QuiltXcel	11 + 3	12	30	✓	✓		✓			✓	
<b><i>Bacillus subtilis</i></b>	Serenade	?	4	0	✓		✓					
Boscalid + pyraclostrobin	Pristine	7 + 11	12	0	✓	✓	✓	✓	✓		✓	
<b>Calcium polysulfide</b>	Lime Sulfur (Rex)	?	See label	Delayed dormant	✓	✓		✓	✓		✓	Cane blight
Captan	Captan	M4	48	3	✓		✓		✓			
Captan + fenhexamid	Captevate (Raspberry only)	M4+ 17	48	3	✓		✓		✓			
<b>Copper</b>	Kocide, Champ, etc.	M1	48	0	✓			✓			✓	Purple blotch
Cymoxanil + famoxadone	Tanos	27 + 11	12	0	✓			✓	✓			
Cyprodinil + fludioxonil	Switch	9+12	12	0	✓		✓					
Fenhexamid	Elevate	17	12	0			✓					
Fluopyram + pyrimethanil	Luna Tranquility	7+9	12	0		✓	✓	✓				
Fosetyl-al	Aliette	33	12	60						✓		
Iprodione	Rovral, Meteor	2	24	0			✓					
Isofetamid	Kenja	7	12	7			✓					
Mefenoxam	Ridomil Gold SL	4	48	45						✓		

Active Ingredient	Example Trade Name	FRAC <sup>1</sup>	REI <sup>2</sup>	PHI <sup>3</sup>	Anthracnose	Powdery Mildew	Botrytis	Septoria Leaf Spot	Spur Blight	Root Rot	Rust	Other
Mefenoxam + Copper Hydroxide	Ridomil Gold Copper	4 + M1	48	0								Downy mildew
Myclobutanil	Rally	3	24	0		✓					✓	
Oil	BioCover; Sun; JMS	?	4	Delayed dormant or postharvest		✓						
Oxathiapiprolin	Orondis Gold 200	U15	4	1						✓		Use only with Ridomil Gold
Phosphorous acid	Fosphite, Phostrol	33	4	None listed		✓				✓		Downy Mildew
Polyoxin-D	Ph-D, Oso	19	4	0	✓	✓	✓					
Potassium bicarbonate	Kaligreen	?	4	1		✓						
Propiconazole	Tilt, others	3	12	30		✓		✓			✓	
Pyraclostrobin	Cabrio	11	12	0	✓	✓	✓	✓	✓		✓	
Pyriofenone	Prolivo	50	4	0		✓						
<b>Reynoutria sachalinensis</b>	Regalia	P5	4	0	✓	✓	✓				✓	
<b>Streptomyces lydicus</b>	Actinovate	?	4	0			✓					
<b>Sulfur</b>	Microthiol sp, etc	M2	24	None listed		✓		✓				Downy mildew

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<sup>3</sup>REI: All pesticide products have a prescribed-time restricted entry interval (REI) for worker protection. REI is clearly stated in the Agricultural Use Requirements section on the label. Generally, entry into treated areas during the prescribed time (usually hours) REI is not allowed unless Personal Protective Equipment (PPE) is worn or used.

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## Herbicide and Misc. Registrations in Oregon Caneberries – February 2020

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Active Ingredient	Example Trade Name	HRG <sup>1</sup>	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	PRE	POST	Grass	Broadleaf	Others
Bentazon	Basagran	6	48	365 (non-bearing)		✓		✓	sedges
<b>Caprylic &amp; Capric acids</b>	Suppress	?	24	0		✓	✓	✓	
Carfentrazone-ethyl	Aim	14	12	15		✓		✓	Primocane suppression
Clethodim	Select Max; Arrow	1	24	7		✓	✓		
Dichlobenil	Casoron	20	12	Avoid new shoots	✓			✓	some grasses
Diquat dibromide	Reglone	22	24	365 (non-bearing)		✓	✓	✓	
Diuron	Karmex	7	12	Late Spring or Fall	✓		✓	✓	
Fluazifop	Fusilade	1	12	1		✓	✓		
Flumioxazin	Chateau	14	12	7	✓			✓	some grasses
Glyphosate	Roundup, Others	9	4	14		✓	✓	✓	
Halosulfuron	Sandea	2	12	14	✓	✓		✓	nutsedge
Indaziflam	Alion	29	12	Prior to bud swell	✓		✓	✓	
Isoxaben	Trellis	21	12	365 (non-bearing)	✓			✓	
Mesotrione	Callisto	27	12	Pre-bloom	✓	✓		✓	
Napropamide	Devrinol	15	24	Spring/Fall use	✓		✓	✓	
Norflurazon	Solicam	12	12	60	✓		✓	✓	
Oryzalin	Surflan	3	24	Spring or Fall use	✓		✓	✓	
Oxyfluorfen	Goal	14	24	Raspberry = 50 Blackberry = 15	✓	✓		✓	Primocane suppression
Paraquat	Gramoxone	22	24	Avoid new shoots		✓	✓	✓	
Pelargonic acid	Scythe	17	12	1		✓	✓	✓	

Active Ingredient	Example Trade Name	HRG <sup>1</sup>	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	PRE	POST	Grass	Broadleaf	Others
Pronamide	Kerb	3	24	Fall or Winter use	✓		✓	✓	
Quinclorac	Quinstar	4	12	30	✓	✓	✓	✓	
Rimsulfuron	Matrix	2	4	21	✓	✓	✓	✓	
Sethoxydim	Poast	1	12	45		✓	✓		
Simazine	Simazine; Princep	5	12	Spring or Fall use	✓		✓	✓	
S-metolachlor	Dual Magnum	15	24	28	✓		✓	✓	nutsedge
Sulfentrazone	Zeus XC	14	12	3	✓		✓	✓	nutsedge
Terbacil	Sinbar	5	12	70	✓		✓	✓	

<sup>1</sup>HRG: Herbicide Rotation Guide (from the Weed Science Society of America). Based on mode of action. To avoid selecting for herbicide-resistant weeds, do not use herbicides from the same group more than once within three years. Rather, rotate to a different group every year of the production system.

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## Misc.

Active Ingredient	Example Trade Name	REI <sup>1</sup> (hours)	PHI <sup>2</sup> (days)	Purpose (as listed on label)
Ethephon	Ethrel (Blackberry only)	48	3	PGR, promotes fruit ripening
<b>Iron Phosphate</b>	Sluggo	0	0	Slugs and snails
Metaldehyde	Deadline, others	12	0	Slugs and snails
Zinc Phosphide	Prozap ZP Pellets	?	70 (Dormant use only)	Rodents (voles)

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