

# Pesticide Registrations in Oregon Raspberries and Blackberries – March 28, 2017

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This document is just a guide and not intended as a recommendation or endorsement of the pesticides listed within. Pesticide registrations and labels are subject to change. Consult with your supplier, field representative, pest consultant or OSU Extension Service prior to pesticide use.

## Insecticides/Miticides

Name	Alternative Name	Pests Controlled (as listed on the label)	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)	IRAC <sup>c</sup>
Acramite	Bifenazate	Twospotted spider mite	1	12	25
Actara	Thiamethoxam	Aphid, root weevil	3	12	4A
Admire Pro	Imidacloprid	Aphid, leafhopper, thrips (suppression)	Soil = 7 Foliar = 3	12	4A
AgriMek	Abamectin/Avermectin	Twospotted spidermite	7	12	6
Altacor	Chlorantraniliprole	Leafroller, raspberry crown borer	3	4	28
Asana XL	Esfenvalerate	Aphid, leafroller, root weevil	7	12	3A
Assail	Acetamiprid	Aphids, fruitworm, leafhopper, thrips	1	12	4A
<b>Beauveria bassiana</b>	<b>Mycotrol</b>	Aphid, stinkbug, and other insects	0	12	?
Brigade	Bifenthrin	Leafroller, root weevil, rasp. crown borer	3	12	3A
<b>Bt</b>	<b>DiPel, Javelin, MVP</b>	Leafrollers and other Lep insects	0	4	11B2
Confirm	Tebufenozide	Leafrollers and other Lep insects	14	4	18A
Cryolite Bait (Raspberry only)	Sodium aluminoflouride	Root weevils	3	12	9A
Danitol	Fenpropathrin	Leafroller, fruitworm	3	24	3A
Delegate	Spinetoram	Armyworm, leafrollers, looper, raspberry fruitworm, thrips	1	4	5
Diazinon	Diazinon	Raspberry crown borer, raspberry fruitworm	7	5 days	1B
Esteem/Knack	Pyriproxyfen	Fruitworm	7	12	7C
Intrepid	Methoxyfenozide	Leafrollers, winter moth, fruitworm	3	4	18A
Kanemite	Acequinocyl	Twospotted spider mites	1	12	20B
Malathion	Malathion	Aphid, leafroller, lygus bug, mites, thrips	1	12	1B
Mustang	Zeta-cypermethrin	Leafroller, root weevil	1	12	3A
<b>Neem</b>	AzaDirect, Neemix, etc.	Aphid, leafroller and other insects and mites	0	4	18B
<b>Pyganic</b>	<b>Pyrethrin</b>	Aphid, leafroller, and other insects	0	12	3A
<b>Pyrellin</b>	<b>Rotenone+pyrethrin</b>	Aphid, leafroller and other insects	12 hours	12	21B+3A
Savey	Hexythiozox	Twospotted spider mites	3	12	10A
Sevin	Carbaryl	Aphid, leafroller, and other insects	7	12	1A
Sivanto	Flupyradifurone	Aphids	0	4	4D
<b>Soaps</b>	<b>Safer, M-Pede</b>	Aphid, powdery mildew	0	12	?
Success, <b>Entrust</b>	Spinosad	Armyworm, leafroller, looper, raspberry fruitworm, thrips	1	4	5
Vendex (Raspberry only)	Fenbutatin-Oxide	Twospotted spider mite	3	48	12B
Zeal	Etoazole	Twospotted spider mite	0	12	10B

**Fungicides**

Name	Alternative Name	Pest Controlled (as listed on the label)	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)	FRAC <sup>d</sup>
Abound	Azoxystrobin	Anthraco-nose, leaf spot, powdery, spur blight, rust	0	4	11
Aliette	Fosetyl-al	Root rot	60	12	33
<b>Actinovate</b>	<b><i>Streptomyces lydicus</i></b>	Alternaria, Anthracnose, Botrytis, Powdery, Downy; Root Rot (soil)	0	1	?
Cabrio	Pyraclostrobin	Anthraco-nose, leaf spot, powdery mildew, rust	0	24	11
Captan		Anthraco-nose, fruit rot, spur blight	3	72	M4
Capte-vate (Rasp only)	Captan + fenhexamid	Anthraco-nose, Botrytis fruit rot, spur blight	3	48	M4+17
<b>Coppers</b>	Kocide, <b>Champ</b> , etc.	Anthraco-nose, leaf spot, purple blotch, rust	None listed	Varies; see label	M1
Elevate	Fenhexamid	Anthraco-nose, Botrytis fruit rot, spur blight	0	12	17
Fosphite, Phostrol	Phosphorous acid	Anthraco-nose, downy mildew, root rot	None listed	4	33
<b>Lime Sulfur (Rex)</b>	<b>Calcium Polysulfide</b>	Anthraco-nose, cane blight, leaf spot, powdery mildew, rust, spur blight and mites	Delayed dormant use	Varies; see label	?
Luna Tranquility	Fluopyram+pyrimethanil	Botrytis, powdery mildew, Septoria	0	12	7+9
Oil	BioCover; Sun; <b>JMS</b>	Powdery mildew, insect, and mites.	Delayed dormant or postharvest	4	?
Orbit/Tilt, others	Propiconazole	Powdery mildew, rust, septoria leaf spot	30	12	3
Ph-D, Tavano, Oso	Polyoxin-D	Botrytis fruit rot, anthracnose, powdery mildew	0	4	19
<b>Potassium bicarb.</b>	<b>Kaligreen, Milstop</b>	Botrytis fruit rot, leaf spot, powdery mildew, & others	1	4	?
Pristine	Boscalid+pyraclostrobin	Anthraco-nose, blight, botrytis fruit rot, leaf spot, powdery mildew, rust, spur blight	0	24	7+11
Protexio	Fenpyrazamine	Botrytis fruit rot	0	12	17
Rally	Myclobutanil	Orange rust, yellow rust, powdery mildew	0	24	3
QuiltXcel	Azoxystrobin+propiconazole	Anthraco-nose, Septoria, rusts, powdery mildew	30	12	11 + 3
<b>Regalia</b>	<b><i>Reynoutria sachalinensis</i></b>	Anthraco-nose, Botrytis fruit rot, leaf spot	0	4	?
Ridomil Gold	Mefenoxam	Root rot	45	48	4
Ridomil Gold Copper	Mefenoxam + Cop. Hydroxide	Downy Mildew	0	48	4 + M1
Rovral, Meteor	Iprodione	Botrytis fruit rot	0	24	2
<b>Serenade</b>	<b><i>Bacillus subtilis</i></b>	Anthraco-nose, Botrytis	0	4	?
<b>Sulfur</b>	<b><i>Microthiol sp.</i></b> , others	Powdery and Downy mildews, leaf spot & insects	None listed	24	M2
Switch	Cyprodinil+fludioxonil	Anthraco-nose, botrytis fruit rot	0	12	9+12
Tanos	Cymoxanil+famoxadone	Anthraco-nose, spur blight, Septoria leaf spot	0	12	27 +11

**Other**

Name	Alternative Name	Pest Controlled (as listed on the label)	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)
Deadline, others	Metaldehyde	Slugs	None listed; assume zero	12
Ethrel (Blackberry only)	Ethephon	For fruit ripening	3	48
Prozap Z-P Pellets	Zinc Phosphate	Voles	Check label for details	24
<b>Sluggo</b>	<b>Iron Phosphate</b>	Slugs	0	0

**Herbicides**

Name	Alternative Name	Pest Controlled; Herbicide Type	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)	HRG <sup>e</sup>
Aim	Carfentrazone-ethyl	Primocane suppress; broadleaves; post-emerge	15	12	14
Basagran	Bentazon	Broadleaf weeds and sedges; post-emergence	365 (non-bearing only)	48	6
Callisto	Mesotrione	Broadleaf weeds; pre- and post-emergence	Pre-bloom	12	27
Casoron	Dichlobenil	Broadleaf weeds and grasses; pre-emergence	Avoid new shoots	12	20
Chateau	Flumioxazin	Broadleaf weeds and grasses; pre-emergence	7	12	14
Devrinol	Napropamide	Broadleaf weeds and grasses; pre-emergence	Spring/Fall use	12	15
Dual Magnum	S-metolachlor	Pre-emerge, broadleaves and nutsedge	28	24	15
Fusilade	Fluazifop	Grass weeds; post-emergence	365 (non-bearing only)	12	1
Gallery	Isoxaben	Broadleaf weeds; pre-emergence	365 (non-bearing only)	12	20
Goal 2XL	Oxyfluorfen	Primo suppress;bl weeds;pre- & post-emerg	Rasp= 50; Black = 15	24	14
Gramoxone	Paraquat	Broadleaf weeds and grass; post-emergence	Avoid new shoots	24	22
Karmex	Diuron	Broadleaf weeds and grasses; pre-emergence	Late Spring or Fall	12	7
Kerb	Pronamide	Broadleaf weeds and grasses; pre-emergence	Fall or Winter use	24	3
Matrix	Rimsulfuron	Pre- & post-emerge, broadleaves & grasses	21	4	2
Poast	Sethoxydim	Grass weeds; post-emergence	45	12	1
Prowl H <sub>2</sub> O	Pendimethalin	Broadleaf weeds and grasses; pre-emergence	30	24	3
Roundup, Others	Glyphosate	Broadleaf weeds and grass; post-emergence	14	4	9
Sandea	Halosulfuron	Pre- & Post-emerge, broadleaves & nutsedge	14	24	2
Scythe	Pelargonic acid	Broadleaf weeds and grass; post-emergence	1	24	?
Select Max, Arrow	Clethodim	Grass weeds; post-emergence	7	24	1
Simazine, Princep	Simazine	Broadleaf weeds and grasses; pre-emergence	Spring or Fall use	12	5
Sinbar	Terbacil	Broadleaf weeds and grasses; pre-emergence	70 days	12	5
Solicam	Norflurazon	Broadleaf weeds and grasses; pre-emergence	60	12	12
Surflan	Oryzalin	Broadleaf weeds and grasses; pre-emergence	Spring or Fall use	12	3
<b>Vinegar</b> (Weed Pharm)	<b>Acetic acid</b>	Post-emerge, broadleaves and grasses	0	48	?
Zeus XC	Sulfentrazone	Pre- & Post-emerge;broadleaves&grasses,nutsedge	3	12	14

**Legend:**

\* F = Federal Label, S = State or Supplemental Label, N = Non-bearing crop only; **Bold Type** indicates approved for organic production

<sup>a</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>b</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.

<sup>c</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 resistance.

<sup>d</sup> **FRAC:** Fungicide Resistance Action Committee Code Number. Fungicides 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 resistance.

<sup>e</sup> **HRG:** Herbicide Rotation Guide (from the Weed Science Society of America). 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.