

# Pesticide Registrations in Oregon Strawberries – February 17, 2016

Joe DeFrancesco; Oregon State University; 541-737-0718; defrancj@science.oregonstate.edu

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.

## Fungicides

Name	Alternative Name	Pest Controlled (as listed on the label)	Label*	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)	FRAC <sup>c</sup>
Abound	Azoxystrobin	Botrytis fruit rot (suppression only), powdery mildew,	F	0	4	11
Actigard	Acibenzolar	Xanthomonas (might help with other bacterial and fungal diseases)	F	0	12	21
<b>Actinovate AG</b>	<b><i>Streptomyces lydicus</i></b>	Alternaria, anthrac., Botrytis, powdery mildew, root rot	F	0	1	?
Aliette	Fosetyl-al	Red stele root rot	F	0	12	33
Cabrio	Pyraclostrobin	Botrytis fruit rot, leaf spot, powdery mildew	F	0	24	11
Captan	Captan, others	Botrytis fruit rot	F	0	24	M4
Captevate	Captan + fenhexamid	Botrytis fruit rot	F	0	24	M4+17
<b>Champ</b> ,Kocide,etc.	<b>Copper</b>	Anthraco-nose, leaf spot	F	None listed	Check label	M1
Elevate	Fenhexamid	Botrytis fruit rot	F	0	12	17
Evito	Fluoxastrobin	Anthraco-nose, powdery mildew	F	1	12	11
Flint	Trifloxystrobin	Powdery mildew	F	0	12	11
Fontelis	Penthiopyrad	Botrytis fruit rot, powdery mildew	F	0	12	7
Fosphite, Phostrol	Phosphorous acid	Fruit rot, powdery mildew, red stele, root rot	F	None listed	4	33
Inspire Super	Difenconazole+cyprodinil	Anthraco-nose, fruit rot, leaf spot, powdery mildew	F	0	12	3 + 9
Merivon	Fluxapyroxad+pyraclastrobin	Leaf spot, powdery mildew, anthracnose, Botrytis	S	0	12	7+11
Mettle	Tetraconazole	Powdery mildew	F	0	12	3
Oil	BioCover; Sun; <b>JMS</b>	Powdery mildew, mite	F	delayed dormant or postharvest	4	?
Orbit/Tilt	Propiconazole	Leaf spot, powdery mildew	F	0	24	3
Oso, Ph-D, Tavano	Polyoxin-D	Anthraco-nose leaf and fruit rot, powdery mildew. Botrytis fruit rot	F	0	4	19
<b>Kaligreen, Milstop</b>	<b>Potassium bicarbonate</b>	Botrytis fruit rot, leaf spot, powdery mildew	F	1	4	?
Kenja	Isofetamid	Botrytis fruit rot, powdery mildew, anthracnose,	F	0	12	7
Pristine	Boscalid+pyraclostrobin	Botrytis fruit rot, leaf spot, powdery mildew	F	0	24	7+11
Procure	Triflumizole	Powdery mildew	F	1	12	3
Protexio	Fenpyrazamine	Botrytis fruit rot	F	0	12	17
Quadris Top	Azoxystrobin+difenconazole	Anthraco-nose, leaf rust, leaf spot, powdery mildew	F	0	12	11 + 3
Quilt Xcel	Azoxystrobin+propiconazole	Anthraco-nose, leaf rust, leaf spot, powdery mildew	F	0	12	11 + 3
Quintec	Quinoxifen	Powdery mildew	F	1	12	13
Rally	Myclobutanil	Leaf spot, powdery mildew	F	0	24	3
Ridomil Gold	Mefenoxam	Root Rot	F	0	48	4
Rovral, Meteor	Iprodione	Botrytis fruit rot, leaf spot	F	Pre-bloom	24	2
Scala	Pyrimethanil	Botrytis fruit rot	F	1	12	9
<b>Serenade</b>	<b><i>Bacillus subtilis</i></b>	Powdery mildew, anthracnose, and Botrytis	F	0	4	?
<b>Sulfur</b>	<b>Microthiol</b> , others	Powdery and Downy mildews, leaf spot & insects	F	None listed	24	M2
Syllit	Dodine	Leaf scorch, leaf spot	F	14	48	M7
Switch	Cyprodinil+fludioxonil	Botrytis fruit rot, powdery mildew	F	0	12	9+12
Thiram	Thiram	Botrytis fruit rot	F	3	24	M3
Topsin-M	Thiophanate methyl	Botrytis fruit rot, leaf scorch, powdery mildew	F	1	12	1
Torino	Cyflufenamid	Powdery mildew	F	0	4	U6

**Insecticides/Miticides**

Name	Alternative Name	Pests Controlled (as listed on the label)	Label*	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)	IRAC <sup>d</sup>
Acramite WS	Bifenazate	Twospotted spider mite	F	1	12	25
Actara	Thiamethoxam	Aphids, root weevil	F	3	12	4A
Admire Pro	Imidacloprid	Aphids	F	14	12	4A
Agri-Mek	Abamectin	Twospotted spider mite	F	3	12	6
Assail	Acetamiprid	Aphids	F	1	12	4A
<b>Beauveria bassiana</b>	<b>Mycotrol, others</b>	Aphid, stinkbug, and other insects	F	0	12	?
Beleaf	Flonicamid	Aphid, lygus, leafhopper, and other plant bugs	F	0	12	9C
Belt	Flubendiamide	Leafroller, armyworm, cutworm	F	8	12	28
Brigade	Bifenthrin	Leafroller, 2-spotted spider mite, root weevil, SWD	F	0	12	3A
<b>DiPel, Javelin</b>	<b>Bt</b>	Leafroller, omnivorous leaftier	F	0	4	11B2
Closer	Sulfoxaflor	Plant bugs, Lygus bug, thrips (suppression)	F	1	12	4C
Coragen	Chlorantraniliprole	Armyworm, loopers	F	1	4	28
Courier	Buprofezin	Leafhoppers, whiteflies	F	3	12	16
Cryolite Bait	Cryolite	Root weevils	S	3	12	9A
Danitol	Fenpropathrin	Lygus bug, 2-spotted spider mite, spittlebug, SWD	F	2	24	3A
Diazinon	Several brands	Aphid, leafroller, and other insects	F	5	3 days	1B
Dibrom	Naled	Aphid, leafroller, twospotted spider mite, thrips	F	1	48	1B
Dicofol	Dicofol	Twospotted spider mite; cyclamen mite	F	2	31 days	?
Esteem 0.86EC	Pyriproxyfen	Aphids, leafrollers, thrips, and other insects	F	2	12	7C
Fujimite	Fenpyroximate	Two spotted spider mite; cyclamen mite	F	1	12	21A
Intrepid	Methoxyfenozide	Leafrollers	F	3	4	18A
Kanemite	Acequinocyl	Twospotted spider mite	F	1	12	20B
Lorsban	Chlorpyrifos	Crown moth, symphylan	F	21	24	1B
Malathion	Malathion	Aphid, leafroller, root weevil and other insects	F	3	12	1B
<b>AzaDirect, Neemix</b>	<b>Neem</b>	Aphid, leafroller and other insects and mites	F	0	4	18B
Nealta	Cyflumetofen	Twospotted spider mite	F	1	12	25
Oberon	Spiromesifen	Twospotted spider mite	F	3	12	23
Platinum	Thiamethoxam	Aphid, root weevil	F	50	12	4A
Provado	Imidacloprid	Aphid, spittlebug	F	7	12	4A
<b>Pyganic</b>	<b>Pyrethrin</b>	Aphid, leafroller, other insects and mites	F	0	12	3A
Radiant	Spinetoram	Leafroller, thrips, SWD	F	1	4	5
Rimon	Novaluron	Lygus bug	F	1	12	15
<b>Safer, M-Pede</b>	<b>Soap</b>	Aphid, twospotted spider mite & diseases	F	0	12	?
Savey	Hexythiozox	Twospotted spider mite	F	3	12	10A
Sevin	Carbaryl	Aphid, leafroller, and other insects	F	7	12	1A
Sivanto	Flupyradifurone	Aphid	F	0	4	4D
Success, <b>Entrust</b>	Spinosad	Leafroller, thrips, SWD	F	1	4	5
Thiodan, Thionex	Endosulfan	Aphid, cyclamen mite, lygus bug, spittlebug	F	See label	See label	2A
Vendex	Fenbutatin-Oxide	Twospotted spider mite	F	1	48	12B
Zeal	Etoxazole	Lygus bug, spittlebug, twospotted spider mites	F	1	12	10B

**Herbicides**

Name	Alternative Name	Pest Controlled; Herbicide Type	Label*	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)	HRG <sup>e</sup>
Aim	Carfentrazone-ethyl	Broadleaf weeds; post-emergence	F	0	12	14
Chateau, Warfox	Flumioxazin	Broadleaf weeds and grasses; pre-emergence	F	Prior to fruit set	12	14
Dacthal	DCPA	Broadleaf and grass weeds; pre-emergence	F	Pre-bloom	12	?
Devrinol	Napropamide	Broadleaf weeds and grasses; pre-emergence	F	Spring/Fall use	12	15
Formula 40	2,4-D amine	Broadleaf weeds; post-emergence	F	Dormant	48	4
Fusilade	Fluazifop	Grass weeds; post-emergence	N	365	12	1
Gramoxone	Paraquat	Broadleaf weeds and grass; post-emergence	F	21	24	22
Poast	Sethoxydim	Grass weeds; post-emergence	F	7	12	1
Prowl	Pendimethalin	Broadleaf weeds and grasses; pre-emergence	F	35	24	3
Roundup & others	Glyphosate	Broadleaf weeds and grasses; post-emergence	F	3	4	9
Scythe	Pelargonic acid	Total vegetation control, weeds	F	1	24	?
Select Max, others	Clethodim	Grass weeds; post-emergence	F	4	24	1
Simazine	Princep	Broadleaf weeds and grasses; pre-emergence	F	Spring/Fall use	12	5
Sinbar	Terbacil	Broadleaf weeds and grasses; pre-emergence	F	Spring/Fall use	12	5
Spartan	Sulfentrazone	Broadleaf weeds and grasses; pre-emergence	S	70	12	14
Stinger	Clopyralid	Broadleaf weeds; post-emergence	S	30	12	4
<b>Vinegar</b> (Weed Pharm)	<b>Acetic Acid</b>	Broadleaf weeds and grasses; post-emergence	F	0	48	?

**Other**

Name	Alternative Name	Pest Controlled (as listed on the label)	Label*	PHI <sup>a</sup> (days)	REI <sup>b</sup> (hrs)	
Deadline, others	Metaldehyde	Slugs	F	None listed	12	?
<b>Sluggo</b>	<b>Iron Phosphate</b>	Slugs	F	0	0	?

**Legend:**

\* **F** = Federal Label, **S** = State or Supplemental Label, **N** = Non-bearing crop only;

<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> **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>d</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>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.

**Bold Type** indicates approved for organic production.