

# Insecticide & Miticide Registrations in Oregon Strawberries – March 2023

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Active Ingredient	Example Trade Name	IRAC <sup>1</sup>	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	Aphids	Lygus Bug	Root Weevil	Leafrollers	SWD	Mites (see label for spp)	Thrips	Others
Abamectin	Agri-Mek	6	12	3						✓		
Acequinocyl	Kanemite 15SC	20B	12	1						✓		
Acetamiprid	Assail 30SG	4A	12	1	✓							
Acetamiprid + Novaluron	Cormoran	4A + 15	12	1	✓	✓			✓	✓		Leafhopper, Armyworm
<b>Azadirachtin</b>	Aza-Direct	UN	4	0	✓	✓		✓		✓	✓	others
<b>Bt</b>	Dipel DF, others	11	4	0				✓				Omnivorous leaf-tier
<b><i>Beauveria bassiana</i></b>	Mycotrol, others	UN	4	0	✓							Stinkbug, others
Bifenazate	Acramite WS	20	12	1						✓		
Bifenthrin	Brigade	3A	12	0			✓	✓	✓	✓		
Bifenthrin + Imidacloprid	Brigadier	3A + 4A	12	7	✓	✓						Armyworm
<b><i>Burkholderia spp.</i></b>	Venerate XC	UN	4	0				✓	✓		✓	Armyworm
Carbaryl	Sevin	1	12	7	✓			✓				Others
Chlorantraniliprole	Coragen	28	4	1								Armyworm, loopers
<b><i>Chromobacterium spp.</i></b>	Grandevo	UN	4	0	✓	✓		✓	✓	✓	✓	Armyworm
Cyantraniliprole	Exirel	28	12	1					✓		✓	Armyworm
Cyclaniliprole	Harvanta 50SL	28	4	1								Armyworm, loopers
Cyflumetofen	Nealta	25	12	1						✓		
Diazinon	Diazinon	1B	72	5	✓			✓				others
Etoxazole	Zeal	10B	12	1		✓				✓		Spittlebug
Fenazaquin	Magister SC	21A	12	1						✓		
Fenbutatin-Oxide	Vendex 50WP	12B	48	1						✓		
Fenpropathrin	Danitol 2.4EC	3A	24	2		✓			✓	✓		Spittlebug

Active Ingredient	Example Trade Name	IRAC <sup>1</sup>	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	Aphids	Lygus Bug	Root Weevil	Leafrollers	SWD	Mites (see label for spp)	Thrips	Others
Fenpyroximate	FujiMite SC	21A	12	1						✓		
Flonicamid	Beleaf 50 SG	29	12	1	✓	✓						Leafhopper, plant bugs
Flupyradifurone	Sivanto	4D	4	0	✓							
GS-Omega	Spear-LEP	32	4	0				✓				
Hexythiazox	Savey DF	10	12	3						✓		
Imidacloprid (soil)	Admire Pro	4A	12	14	✓							Spittlebug
Imidacloprid (foliar)	Admire Pro	4A	12	7	✓							Spittlebug
Malathion	Malathion	1B	12	3	✓		✓	✓				Others
Methoxyfenozide	Intrepid 2F	18	4	3				✓				
Naled	Dibrom	1B	48	1	✓			✓		✓	✓	
Novaluron	Rimon 0.8 EC	15	12	1		✓						
Propargite	Omite	12C	10 days	365						✓		
<b>Pyrethrins</b>	Pyganic	3A	12	0	✓			✓		✓		Others
Pyridaben	Nexter SC	21A	12	1	✓					✓		Leafhoppers
Pyriproxyfen	Esteem	7C	12	2	✓			✓			✓	Others
<b>Soap</b>	Safer, M-Pede	?	12	0	✓					✓		
Spinetoram	Radiant SC	5	4	1				✓	✓		✓	Thrips
<b>Spinosad</b>	Success, Entrust	5	4	1				✓	✓		✓	Thrips
Spiromesifen	Oberon 2 SC	23	12	3						✓		
Sulfoxaflor	Transform WG	4C	12	7							✓	Plant bugs
Thiamethoxam (foliar)	Actara	4A	12	3	✓		✓					
Thiamethoxam (soil)	Platinum	4A	12	50	✓		✓					Leafhoppers
Tolfenpyrad	Bexar	21A	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 Strawberries – March 2023

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Active Ingredient	Example Trade Name	FRAC <sup>1</sup>	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	Anthraco	Botrytis	Powdery Mildew	Root rot	Leaf spot	Others
Acibenzolar-s-methyl	Actigard 50WG	P1	12	0						<i>Xanthomonas</i>
<b><i>Aureobasidium pullalans</i></b>	Botector	NC	4	0	✓	✓				
Azoxystrobin	Abound	11	4	0		✓	✓			
Azoxystrobin + Difenconazole	Quadris Top	11+3	4	0	✓		✓		✓	Leaf rust
Azoxystrobin + Flutriafol	Topguard EQ	11+3	12	0	✓		✓			Leather rot
Azoxystrobin + Propiconazole	Quilt Excel	11+3	12	0	✓		✓		✓	Leaf rust
<b><i>Bacillus subtilis</i></b>	Serenade	BM02	4	0	✓	✓	✓	✓	✓	
<b><i>Bacillus amyloliquefaciens</i></b>	Stargus	BM02	4	0	✓	✓				
Boscalid + Pyraclostrobin	Pristine	11+7	12	0		✓	✓		✓	
Captan	Captan	M4	24	0		✓				
Captan + Fenhexamid	CaptEvate 68 WDG	M4+17	24	0		✓				
Chlorothalonil	Chlorothalonil	M5	12	0					✓	
<b>Copper Hydroxide</b>	Kocide 2000	M1	24	0	✓				✓	
Cyflufenamid	Torino	U6	4	0			✓			
Cyprodinil	Vango WG	9	12	0	✓	✓	✓			
Cyprodinil + Difenconazole	Inspire Super	9+3	12	0	✓	✓	✓		✓	
Cyprodinil + Fludioxinil	Switch	9+12	12	0		✓	✓			
Difenconazole	Inspire	3	12	0	✓		✓		✓	Leaf rust
Fenhexamid	Elevate	17	12	0		✓				
Fludioxinil	Canavine WG	12	12	0	✓	✓				
Fludioxinil + Pydiflumetofen	Miravis Prime	12+7	12	0	✓	✓	✓			
Fluopyram	Velum Prime	7	12	0			✓			
Fluopyram + Pyrimethanil	Luna Tranquility	7+9	12	1		✓	✓			
Fluopyram + Trifloxystrobin	Luna Sensation	7+11	12	0	✓	✓	✓		✓	

Active Ingredient	Example Trade Name	FRAC <sup>1</sup>	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	Anthraxnose	Botrytis	Powdery Mildew	Root Rot	Leaf Spot	Others
Fluoxastrobin	Evito	11	12	1	✓		✓			
Fluxapyroxad + Pyraclostrobin	Merivon	7+11	12	0	✓	✓	✓		✓	
Flutianil	Gatten	U13	12	0			✓			
Fosetyl Al	Aliette WDG	P7	12	0				✓		
Iprodione	Rovral	2	24	Pre-bloom only		✓			✓	
Isofetamid	Kenja 400 SC	7	12	0	✓	✓	✓			
Mandestrobin	Intuity	11	12	0		✓	✓			
Mefenoxam	Ridomil Gold SL	4	48	0				✓		
Metalaxyl	MetaStar 2E	4	48	0				✓		Leather rot
Myclobutanil	Rally 40 WSP	3	24	0			✓		✓	
<b>Oil</b>	BioCover, JMS	NC	4	0			✓			
Oxathiapiprolin + Mefenoxam	Orondis Gold	49+4	48	28				✓		Crown rot
Penthiopyrad	Fontelis	7	12	0		✓	✓			
Phosphorous acid	Phostrol, Fosphite	33	4	0		✓	✓	✓		
Polyoxin D	Ph-D	19	4	0	✓	✓	✓			
<b>Potassium bicarbonate</b>	Kaligreen, Milstop	NC	1	0		✓	✓		✓	
Propiconazole	Tilt	3	12	0			✓		✓	
Propiconazole + Thiophanate Methyl	Talaris XL	3+1	24	1	✓	✓	✓		✓	Leaf rust
Pyraclostrobin	Cabrio	11	12	0		✓	✓		✓	
Pyrimethanil	Scala SC	9	12	1		✓				
Pyriofenone	Prolivo 300	U8	4	0			✓			
Quinoxifen	Quintec	13	12	1			✓			
<b>Reynoutria sachalinensis</b>	Regalia 12	P5	4	0	✓	✓	✓	✓	✓	Crown rots, leaf blight
<b>Streptomyces lydicus</b>	Actinovate AG	BM02	4	0	✓	✓	✓	✓		Alternaria
<b>Sulfur</b>	Microthiol	M2	24	0			✓		✓	Downy mildew
Tetraconazole	Mettle	3	12	0			✓			
Thiophanate Methyl	Topsin	1	24	1		✓	✓			Leaf scorch
Thiram	Thiram SC	M3	24	1		✓				
Trifloxystrobin	Flint Extra	11	12	0			✓			
Triflumizole	Procure 480SC	3	12	1			✓			

<sup>1</sup>FRAC: Fungicide Resistance Action Committee Code Number. Fungicides with the same number should not be used consecutively

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## Herbicide and Misc. Registrations in Oregon Strawberries – March 2023

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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
2,4-D Amine	multiple	4	48	Post-harvest or dormant		✓		✓	
2,4-D Choline	Embed Extra	4	48	Post-harvest or dormant		✓		✓	
<b>Acetic acid</b>	Vinagreen	?	48	0		✓	✓	✓	
Acifluorfen	Acifluorfen 2	14	48	60		✓	✓	✓	
<b>Ammonium nonanoate</b>	Axxe Broad Spectrum	?	4	0	✓	✓	✓	✓	
Carfentrazone-ethyl	Aim EC	14	12	0		✓		✓	
Clethodim	Select Max	1	24	14		✓	✓		
Clopyralid	Stinger	4	12	30		✓		✓	
DCPA	Dacthal	3	12	Pre-bloom only	✓		✓	✓	
<b>Caprylic acid</b>	Suppress	?	24	0		✓	✓	✓	
Fluazifop-P-butyl	Fusilade DX	1	12	14		✓	✓		
Flumioxazin	Chateau	14	12	Prior to fruit set	✓		✓	✓	
Glyphosate	Roundup	9	4	14		✓	✓	✓	
<b>Limonene</b>	Avenger	?	4	7		✓	✓	✓	
Napropamide	Devrinol	15	24	Spring/Fall use	✓		✓	✓	
Paraquat	Gramoxone	22	24	21		✓	✓	✓	
Pelargonic acid	Scythe	27	12	1		✓	✓	✓	
Pendimethalin	Prowl H2O	3	24	35	✓		✓	✓	
Sethoxydim	Poast	1	12	7		✓	✓		
Simazine	Princep	5	12	Spring/Fall use	✓		✓	✓	
S-metolachlor	Dual Magnum	15	24	30	✓		✓	✓	Nutsedge
Sulfentrazone	Spartan	14	12	70	✓		✓	✓	
Terbacil	Sinbar	5	12	110	✓		✓	✓	

(See next page for footnotes)

<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.

<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.

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### Misc. Registrations in Oregon Strawberries – February 2022

Active Ingredient	Example Trade Name	REI <sup>1</sup> (hours)	PHI <sup>2</sup> (days)	Purpose (as listed on label)
Fluensulfone	Nimitz	12	0	Lesion and other nematodes
<b>Iron Phosphate</b>	Sluggo Maxx	4	0	Slugs and snails
Metaldehyde	Deadline, others	12	0	Slugs and snails
Sodium Ferric EDTA	Ferroxx	0	0	Slugs and snails

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<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.