## **Insecticide & Miticide Registrations in Oregon Blueberries – March 2022**

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Active Ingredient	Example Trade Name	IRAC¹	REI <sup>2</sup> (hours)	PHI <sup>3</sup> (days)	Aphids	Leafhoppers	Weevils (see label for spp)	Leafrollers	SWD	Cherry Fruitworm	Winter Moth	Others
Acequinocyl	Kanemite 15 SC	20B	12	1								Mites
Acetamiprid	Assail 70WP	4A	12	1	✓	✓				✓		Thrips, blueberry gall midge
Beauveria bassiana	Mycotrol	UNF	12	0	✓		✓					
Bifenthrin	Brigade 2EC	3A	12	1	✓	✓		✓	✓	✓		Scale, mites
Bifenazate	Acramite 4SC	20D	12	365								Mites
Bt	DiPel, Javelin, MVP	11A	4	0				✓			✓	
Burholderia spp	Venerate XC	?	4	0	✓				✓	✓		
Carbaryl	Sevin	1A	12	7		✓	✓	✓		✓		other insects (see label)
Chlorantraniliprole	Altacor	28	4	1				✓		✓		Crown Borer
Chromobacterium spp	Grandevo WDG	?	4	0				✓		✓		
Cyantraniliprole	Exirel	28	12	3	✓				✓	✓		Blueberry Gall Midge
Cyclaniliprole	Verdepryn	28	4	1				✓	✓	✓		Thrips
Diazinon	Diazinon 50W	1B	5 days	7	✓					✓	✓	Thrips, mites
Esfenvalerate	Asana XL	3A	12	14		✓	✓	✓	✓			Grasshoppers
Ethoprop	Mocap EC	1B	48	365								Symphylans
Fenazaquin	Magister SC	21A	12	7								Mites
Fenpropathrin	Danitol	3A	24	3		✓		✓	✓	✓	✓	Mites
Fenpyroximate	FujiMite SC	21A	12	1								Mites
Flupyradifurone	Sivanto Prime	4D	4	3	✓							
Imidacloprid	Admire Pro (soil)	4A	12	7								
Imidacloprid	Admire Pro (foliar)	4A	12	3	✓	✓						Thrips
Indoxacarb	Avaunt	22A	12	7		✓	✓			✓	✓	
Malathion	Malathion	1B	12	1						✓		
Methomyl	Lannate	1A	48	3	✓	✓		✓	✓	✓	✓	

Active Ingredient	Example Trade Name	IRAC¹	REI <sup>2</sup>	PHI <sup>3</sup>	Aphids	Leafhoppers	Weevils (see label for spp)	Leafrollers	SWD	Cherry Fruitworm	Winter Moth	Others
Methoxyfenozide	Intrepid 2F	18	4	7				✓		✓	✓	
Neem	Neemix, etc	UNE	4	0	✓		✓	✓				Others
Novaluron	Rimon	15	12	8				✓	✓		✓	
Oil	BioCover, JMS, etc	UNE	4	0							Egg	Scale
Phosmet	Imidan	1B	24	3			✓	<b>✓</b>	✓	✓		Blueberry maggot
Propargite	Omite 30WS	12C	10 days	365								Mites
Pyrethrin	Pyganic	3A	12	0								many - cleanup spray
Pyriproxyfen	Knack, Esteem	7C	12	7						✓		Scale
Soaps	Safer, M-Pede	?	12	0	✓							
Spinetoram	Delegate WG	5	4	1 or 3 see label				<b>√</b>	<b>✓</b>	<b>✓</b>	✓	Blueberry Gall Midge, Thrips
Spinosad	Entrust SC	5	4	1				<b>✓</b>	✓	✓		Armyworm, Thrips
Spirotetramat	Movento	23	24	7	✓	<b>✓</b>						Thrips, Blueberry Gall Midge
Sulfoxaflor	Transform WG	4C	24	1	✓	<b>✓</b>						Scale, Stinkbug, Thrips
Tebufenozide	Confirm 2F	18	4	14				✓		✓	✓	Leafrollers
Thiamethoxam	Actara	4A	12	3	✓	✓	✓					Stinkbug
Thiamethoxam	Platinum 75 SG	4A	12	75	✓	✓						
Tolfenpyrad	Bexar	21A	12	3	✓	✓	✓	✓	✓	✓		Blueberry Gall Midge, Thrips
Zeta-cypermethrin	Mustang Maxx	3A	12	1			✓	<b>✓</b>				

<sup>&</sup>lt;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.

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

<sup>&</sup>lt;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>&</sup>lt;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.

## Fungicide Registrations in Oregon Blueberries – March 2022

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Active Ingredient	Example Trade Name	FRAC <sup>1</sup>	REI <sup>2</sup> (hours)	PHI³ (days)	Alternaria	Anthracnose	Mummyberry	Phomopsis	Botrytis	Root Rot	Others
Aureobasidium pullulans	Botector	?	4	0		<b>✓</b>		✓	✓		
Azoxystrobin	Abound Flowable	11	4	0	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓			Powdery Mildew
Azoxystrobin + propiconazole	Quilt Xcel	11 + 3	12	30			<b>✓</b>	✓			
Azoxystrobin + difenoconazole	Quadris Top	11 + 3	12	7	<b>✓</b>	<b>✓</b>	<b>✓</b>				
Bacillus subtilis	Serenade	?	4	0	<b>✓</b>	<b>✓</b>	<b>✓</b>		✓		
Boscalid + pyraclostrobin	Pristine	7 + 11	12	0	✓	✓	<b>✓</b>	✓	✓		
Calcium Polysulfide (lime sulfur)	Lime Sulfur, etc.	?	See label	Dormancy		✓	<b>✓</b>	✓			
Captan	Captan 80 WDG	M4	48	0			<b>✓</b>		✓		
Captan + fenhexamid	CaptEvate 68 WDG	M4 + 17	48	0		<b>✓</b>	<b>✓</b>		✓		
Chlorothalonil	Bravo Ultrex	M5	12	42		<b>✓</b>	<b>✓</b>				
Copper	Kocide, Nordox, etc	M1	24 or 48	0				✓			Bacterial Canker
Cyprodinil + fludioxonil	Switch	9 + 12	12	0	<b>✓</b>	<b>✓</b>	<b>\</b>	✓	✓		
Difenoconazole + cyprodinil	Inspire Super	3 + 9	12	7	<b>\</b>	<b>\</b>	<b>\</b>				
Fenbuconazole	Indar 2F	3	12	30	<b>✓</b>	<b>✓</b>	<b>\</b>	✓			
Fenhexamid	Elevate 50WDG	17	12	0					✓		
Fenpyrazamine	Protexio SC	17	12	0					✓		
Fluazinam	Omega 500F	29	12	30		<b>✓</b>		✓	✓		
Fludioxonil	Cannonball WG	12	12	0						✓	
Fluopyram + prothioconazole	Propulse	7 + 3	12	7	✓	✓			✓		
Fluopyram + pyrimethanil	Luna Tranquility	7 + 9	12	0	✓		✓		✓		
Fosetyl-al	Aliette	33	12	12 hrs	✓	✓		✓		✓	
Iprodione	Meteor	2	24	0					✓		
Isofetamid	Kenja 400SC	7	12	7			✓		✓		

Active Ingredient	Example Trade Name	FRAC <sup>1</sup>	REI <sup>2</sup>	PHI <sup>3</sup>	Alternaria	Anthracnose	Mummyberry	Phomopsis	Botrytis	Root Rot	Others
Mefenoxam	Ridomil Gold	4	48	0						✓	
Mefentrifluconazole	Cevya	3	12	0			✓				
Metalaxyl	Metastar 2E	4	48	see label						✓	
Metconazole	Quash	3	12	7	✓	✓	✓	✓	<b>✓</b>		
Oxathiapiprolin + Mefenoxam	Orondis Gold	49 + 4	48	1						✓	
Penthiopyrad	Fontelis	7	12	0			✓	✓	<b>✓</b>		
Phosphorous acid	Fosphite, Phostrol	33	4	None listed						✓	
Polyoxin-D	Ph-D, Oso	19	4	0	✓	✓			✓		
Potassium bicarbonate	Kaligreen, Milstop	?	4	1	✓	✓			<b>\</b>		
Propiconazole	Tilt, PropiMax, etc.	3	12	30			✓				Powdery Mildew
Prothioconazole	Proline 480SC	3	12	7	✓	✓	✓	✓	<b>\</b>		
Pydiflumetofen + Fludioxinil	Miravis Prime	7 + 12	12	0	✓	✓	✓	✓	<b>\</b>		
Pyriofenone	Prolivo 300SC	50	4	0							Powdery Mildew
Reynoutria sachalinensis	Regalia	P5	4	0	✓	✓	✓		<b>✓</b>		Bacterial Canker
Streptomyces lydicus	Actinovate	?	4	0			✓		<b>✓</b>	✓	
Sulfur	Thiolux, etc.	M2	24	None listed							Powdery Mildew
Ziram	Ziram Granuflo	M3	48	3 wks > full bloom		<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>		

<sup>&</sup>lt;sup>1</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.

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

<sup>&</sup>lt;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>&</sup>lt;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.

## Herbicide and Misc. Registrations in Oregon Blueberries - March 2022

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Active Ingredient	Example Trade Name	HRG <sup>1</sup>	REI <sup>2</sup> (hours)	PHI³ (days)	PRE	POST	Grass	Broadleaf	Others
2,4-D amine	Saber	4	48	30		✓		✓	
Bentazon	Basagran, Broadloom	6	48	365 (non-bearing only)		✓		✓	sedges
Caprylic & Capric acids	Suppress EC	?	24	0		✓	✓	✓	
Carfentrazone-ethyl	Aim EC	14	12	0		<b>✓</b>		<b>\</b>	
Clethodim	Select Max, Arrow	1	24	14		<b>\</b>	✓		
Clopyralid	Stinger	4	12	30		<b>✓</b>		<b>\</b>	
Dichlobenil	Casoron 4G	20	12	Avoid new shoots	<b>✓</b>			<b>✓</b>	some grasses
Diquat dibromide	Regione	22	24	365 (non-bearing only)		✓	✓	✓	
Diruon	Karmex DF	7	12	Spring or fall use	<b>✓</b>		✓	<b>\</b>	
Fluazifop	Fusilade DX	1	12	1		✓	✓		
Flumioxazin	Chateau	14	12	7	<b>\</b>			<b>\</b>	some grasses
Glufosinate	Rely 280	10	12	14		✓	✓	✓	
Glyphosate	Roundup	9	4	14, avoid foliage		✓	✓	<b>✓</b>	
Halosulfuron	Sandea	2	12	14	✓	✓		✓	nutsedge
Hexazinone	Velpar L CU	5	48	50	✓	✓	✓	✓	
Indaziflam	Alion	29	12	Prior to bud swell	✓		✓	✓	
Isoxaben	Trellis SC	21	12	60	<b>\</b>			<b>\</b>	
Mesotrione	Callisto	27	12	Pre-bloom	<b>✓</b>	<b>✓</b>		<b>\</b>	some grasses
Napropamide	Devrinol 2-XT	15	12	Spring or fall use	✓		✓	✓	
Norflurazon	Solicam DF	12	12	60	✓		✓	✓	
Oryzalin	Surflan WDG	3	24	Spring or fall use	✓		✓	✓	
Paraquat	Gramoxone SL 2.0	22	24	Avoid new shoots		<b>√</b>	<b>√</b>	<b>√</b>	

Active Ingredient	Example Trade Name	HRG <sup>1</sup>	REI <sup>2</sup> (hours)	PHI³ (days)	PRE	POST	Grass	Broadleaf	Others
Pelargonic acid	Scythe	17	12	1		✓	✓	✓	
Pendimethalin	Prowl H2O	3	24	30	✓		✓	<b>✓</b>	
Pronamide	Kerb SC	3	24	Fall or winter use	✓		✓	✓	
Quinclorac	Quinstar 4L	4	12	30	✓	✓	✓	✓	
Rimsulfuron	Matrix SG	2	4	21	✓	✓	✓	✓	
Sethoxydim	Poast	1	12	1		✓	✓		
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 WDG	5	12	Spring or fall use	✓		✓	✓	
Trifluralin + Isoxaben	Snapshot DG	3 + 21	12	365	✓		✓	✓	

<sup>&</sup>lt;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.

		REI <sup>1</sup>	Duv2 / 1	2 / 11 / 11 11
Active Ingredient	Example Trade Name	(hours)	PHI² (days)	Purpose (as listed on label)
Ethephon	Ethrel	48	7	PGR, promotes fruit ripening
Iron Phosphate	Sluggo	0	0	Slugs and snails
Metaldehyde	Deadline, others	12	0	Slugs and snails
Zinc Phosphide	Prozap ZP Pellets		See labels	Voles, deer mouse, house mouse

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