Insecticide & Miticide Registrations in Washington Blueberries – March 2022

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Always remember – the label is the law.

Active Ingredient	Example Trade Name	IRAC¹	REI ² (hours)	PHI ³ (days)	Aphids	Leafhoppers	Weevils (see label for spp)	Leafrollers	SWD	Cherry Fruitworm	Winter Moth	Others
Acequinocyl	Kanemite 15SC	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 or 2 see label						✓		

Active Ingredient	Example Trade Name	IRAC¹	REI ²	PHI ³	Aphids	Leafhoppers	Weevils (see label for spp)	Leafrollers	SWD	Cherry Fruitworm	Winter Moth	Others
Methomyl	Lannate	1A	48	3	✓	✓		✓	✓	✓	✓	
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			✓	✓	✓	✓		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	3				✓	✓	✓	✓	Blueberry Gall Midge, Thrips
Spinosad	Entrust SC	5	4	1				✓	✓	✓		Armyworm, Thrips
Spirotetramat	Movento	23	24	7	✓	✓						Thrips, Blueberry Gall Midge
Sulfoxaflor	Transform WG	4C	24	1	✓	✓						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			✓	✓				

¹IRAC: 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.

²PHI: 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.

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Fungicide Registrations in Washington Blueberries - March 2022

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Active Ingredient	Example Trade Name	FRAC ¹	REI ² (hours)	PHI³ (days)	Alternaria	Anthracnose	Mummyberry	Phomopsis	Botrytis	Root Rot	Others
Aureobasidium pullulans	Botector	?	4	0		✓		✓	✓		
Azoxystrobin	Abound Flowable	11	4	0	✓	✓	✓	✓			Powdery Mildew
Azoxystrobin + propiconazole	Quilt Xcel	11 + 3	12	30			✓	✓			
Azoxystrobin + difenoconazole	Quadris Top	11 + 3	12	7	✓	✓	✓				
Bacillus subtilis	Serenade	?	4	0	✓	✓	✓		✓		
Boscalid + pyraclostrobin	Pristine	7 + 11	12	0	✓	✓	✓	✓	✓		
Calcium Polysulfide	Lime Sulfur, etc.	?	See label	Dormancy		✓	✓	✓			
Captan	Captan 80 WDG	M4	48	0			✓		✓		
Captan + fenhexamid	Captevate 68 WDG	M4 + 17	48	0		\	\		✓		
Chlorothalonil	Bravo Ultrex	M5	12	42		✓	✓				
Copper	Kocide, Nordox, etc	M1	24 or 48	0				✓			Bacterial Canker
Cyprodinil + fludioxonil	Switch	9 + 12	12	0	✓	✓	✓	✓	✓		
Difenoconazole + cyprodinil	Inspire Super	3 + 9	12	7	✓	\	\				
Fenbuconazole	Indar 2F	3	12	30	✓	✓	✓	✓			
Fenhexamid	Elevate 50WDG	17	12	0					✓		
Fenpyrazamine	Protexio SC	17	12	0					✓		
Fluazinam	Omega 500F	29	12	30		\		✓	✓		
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 ¹	REI ²	PHI ³	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	✓	✓	\	✓	✓		
Oxathiapiprolin + Mefenoxam	Orondis Gold	49 + 4	48	1						✓	
Penthiopyrad	Fontelis	7	12	0			✓	✓	✓		
Phosphorous acid	Fosphite, Phostrol	33	4	None listed						✓	
Polyoxin-D	Ph-D, Oso	19	4	0	✓	✓			✓		
Potassium bicarbonate	Kaligreen, Milstop	?	4	1	✓	✓			✓		
Propiconazole	Tilt, PropiMax, etc.	3	12	30			✓				Powdery Mildew
Prothioconazole	Proline 480SC	3	12	7	✓	✓	✓	✓	✓		
Pydiflumetofen + Fludioxonil	Miravis Prime	7 + 12	12	0	✓	✓	✓	✓	✓		
Pyriofenone	Prolivo 300SC	50	4	0							Powdery Mildew
Reynoutria sachalinensis	Regalia	P5	4	0	✓	✓	\		✓		Bacterial Canker
Streptomyces lydicus	Actinovate	?	4	0			✓		✓	✓	
Sulfur	Thiolux, etc.	M2	24	None listed							Powdery Mildew
Ziram	Ziram Granuflo	M3	48	3 wks > full bloom		√	✓	✓	✓		

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Herbicide and Misc. Registrations in Washington Blueberries – March 2022

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Active Ingredient	Example Trade Name	HRG ¹	REI ² (hours)	PHI³ (days)	PRE	POST	Grass	Broadleaf	Others
Bentazon	Basagran, Broadloom	6	48	365 (non-bearing only)		✓		✓	sedges
Caprylic & Capric acids	Suppress EC	?	24	0		✓	✓	✓	
Carfentrazone-ethyl	Aim EC	14	12	0		✓		✓	
Clethodim	Select Max, Arrow	1	24	14		✓	✓		
Clopyralid	Stinger	4	12	30		✓		✓	
Dichlobenil	Casoron 4G	20	12	Avoid new shoots	✓			\	some grasses
Diquat dibromide	Regione	22	24	365 (non-bearing only)		✓	✓	✓	
Diruon	Karmex DF	7	12	Spring or fall use	✓		✓	✓	
Fluazifop	Fusilade DX	1	12	1		✓	✓		
Flumioxazin	Chateau	14	12	7	✓			✓	some grasses
Glufosinate	Rely 280	10	12	14		✓	✓	✓	
Glyphosate	Roundup	9	4	14, avoid foliage		✓	✓	✓	
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	✓			✓	
Mesotrione	Callisto	27	12	Pre-bloom	✓	✓		✓	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		✓	✓	✓	

Active Ingredient	Example Trade Name	HRG ¹	REI ² (hours)	PHI³ (days)	PRE	POST	Grass	Broadleaf	Others
Pelargonic acid	Scythe	17	12	1		✓	✓	✓	
Pendimethalin	Prowl H2O	3	24	30	✓		✓	✓	
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	✓		✓	✓	

¹HRG: 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 ¹		
Active Ingredient	Example Trade Name	(hours)	PHI ² (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		70 (Dormant use only)	Voles

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