

2020 Spotted Wing Drosophila Insecticides: Blueberries, Strawberries, Caneberries and Grapes

Trade name	Active Ingredient	IRAC code	Blueberry			Caneberry			Strawberry			Grapes			Probable Efficacy	Comments
			PHI (days)	REI	Rate per Acre	PHI (days)	REI	Rate per acre	PHI (days)	REI	Rate per acre	PHI (days)	REI	Rate per acre		
Actara	Thiamethoxam	4A	3	12 hr	3-4 oz	3	12 hr	2-3 oz	3	12 hr	1.5-4 oz	5	12 hr	1.5-3.5 oz	Weak/fair	
Admire Pro	Imidacloprid	4A	3	12 hr	2.1-2.8 oz	3	12 hr	2.8 oz	7	12 hr	1.3 oz	0	12 hr	1.0-1.4 oz	Good	
Assail 30SG	Acetamiprid	4A	1	12 hr	4.5-5.3 oz	1	12 hr	4.5-5.3 oz	1	12 hr	4-6.9 oz	3	12 hr	2.5-5.3 oz	Fair/Good	Short residual
AzaSol*	Azadirachtin	UN	0	4 hr	6 oz/50gal/A	0	4 hr	6 oz/50 gal/A	0	4 hr	6 oz/50 gal/A	0	4 hr	6 oz/50 gal/A	Fair-Poor	
Baythroid	Beta-cyfluthrin	3	Not labeled			Not labeled			Not labeled			3	12 hr	2.4-3.2 fl oz	Excellent	
Belay	Clothianidin	4A	Not labeled			Not labeled			Not labeled			0	12 hr	2-6 fl oz	Good	1 appl/yr
Bifenture 10DF	Bifenthrin	3	1	12 hr	5.3-16 oz	3	12 hr	8-16 oz	0	12 hr	6.4-32 oz	30	12 hr	8-16 oz	Excellent	
Brigade WSB	Bifenthrin	3	1	12 hr	5.3-16 oz	3	12 hr	8-16 oz	0	12 hr	6.4-32 oz	30	12 hr	8-16 oz	Excellent	
Danitol 2.4EC	Fenpropathrin	3	3	24 hr	10.6-16 oz	3	24 hr	10.6-16 oz	2	24 hr	10.6-21.3 fl oz	21	24 hr	10.6-16 oz	Excellent	
Delegate	Spinetoram	5	3	4 hr	3-6 oz	1	4 hr	3-6 oz	Not labeled			7	4 hr	3-5 oz	Good/Exc	
Diazinon AG 500	Diazinon	1B	7	5 day	1 pt/100	Not labeled			5	3 day	1 pt	Not labeled			Good	
Entrust*	Spinosad	5	3	4 hr	1.25-2 oz	1	4 hr	1.25-2 oz	1	4 hr	1.25-2 oz	7	4 hr	1.25-2.5 oz	Good	
Entrust SC*	Spinosad	5	3	4 hr	4-6 fl oz	1	4 hr	4-6 fl oz	1	4 hr	4-6 fl oz	7	4 hr	4-8 fl oz	Good	
Entrust Naturalyte	Spinosad	5	3	4 hr	1.25-2 oz	1	4 hr	1.25-2 oz	1	4 hr	1.25-2 oz	7	4 hr	1.25-2.5 oz	Good/Exc	
Exirel	Cyantraniliprole	28	3	12 hr	13.5-20.5 fl oz		12 hr	13.5-20.5 fl oz	Not Labeled			Not labeled			Good/Exc	
Grandevo*	Chromobacterium	UN	0	4 hr	2-3 lbs	0	4 hr	2-3 lbs	0	4 hr	3 lb	0	4 hr	3 lb	Weak/Fair	
Hero	Zeta-Cypermethrin & Bifenthrin	3A	1	12 hr	4-10.3 oz	3	12 hr	4-10.3 oz	Not labeled			30	12 hr	4-10.3 oz	Good	
Imidan	Phosmet	1B	3	24 hr	1.3 lb	Not labeled			Not labeled			7-14 ¹	14 day	1.3-2 1/8 lb	Excellent	

Lannate LV	Methomyl	1A	3	48 hr	1.5-3 pt	Not labeled			Not labeled			Not labeled			Excellent	
Lannate SP	Methomyl	1A	3	48 hrs	0.5-1 lb	Not labeled			Not labeled			Not labeled			Excellent	
Leverage 360	Imidacloprid & cyfluthrin	4A, 3	Not labeled			Not labeled			Not labeled			3	12 hr	2.4-6.4 fl oz	Good	
Malathion 5EC	Malathion	1B	1	12 hr	2 pt	1	12 hr	3 pt	3	12 hr	1.5-3.2 pt	3	24-72 hr	3 pt	Good	
Molt-X*	Azadirachtin	UN	0	4 hr	10 oz	0	4 hr	10 oz	0	4 hr	10 oz	0	4 hr	10 oz	Fair/Poor	
Mustang Max	Zeta-cypermethrin	3	1	12 hr	4 fl oz	1	12 hr	4 fl oz	Not labeled			1	12 hr	4 fl oz	Excellent	
Pyganic EC 1.4*	Pyrethrin	3A	0	12 hr	1 pt – 2 qt	0	12 hr	1 pt–2 qt	0	12 hr	1 pt – 2 qt	0	12 hr	1 pt – 2 qt	Weak	Very short residual
Radiant SC	Spinetoram	5	Not labeled			Not labeled			1	4 hr	6-10 oz	Not labeled			Good/Exc	
Rimon 0.83EC	Novaluron	15	8	12 hr	20-30 fl oz	Not labeled			1	12 hr	9-12 fl oz	Not labeled			?	
Sevin XLR	Carbaryl	1A	7	12 hr	1.5-2 qt	7	12 hr	1.5-2 qt	7	12 hr	1.5-2 qt	7	2 day	1.5-2 qt	Fair/Good	
Success	Spinosad	5	Not labeled			1	4 hr	4-6 fl oz	Not labeled			7	4 hr	4-6 fl oz	Good	ME & NH ONLY
Surround ²	Kaolin clay	UN	See note 2 below	4 hr	25-50 lb/100	Labeled, not recommended for SWD			Labeled, not recommended for SWD			See note 2 below	4 hr	25-50 lb/100	Repellent	
Triple Crown	Bifenthrin + zeta-cypermethrin + imidacloprid	3, 4A	12	3 hr	6.4-10.3 oz.	12	3 hr	6.4-10.3 oz	Not labeled			12	30	5 oz	Good/Exc	CT Only
Verdepryn 100SL ⁴	Cyclanilprole	28	1	4 hr	11 fl oz	1	4 hr	11 fl oz	1	4 hr	11 fl oz	7	4 hr	11 fl oz	Good/Exc	
Venerate XC*	<i>Burkholderia</i> spp	UN	0	4 hr	2-4 qt	0	4 hr	1-4 qt	0	4 hr	2-4 qt	0	4 hr	1-4 qt	Suppression only	
Venom	Dinotefuran	4A	7 ³	12 hr ³	2-4 oz ³	Not labeled			Not labeled			1	12 hr	1-3 oz	Good	

*OMRI listed

1. Grapes – Imidan PHI is rate dependent

2. For Berries: allowed up to the first 3 weeks after fruit set. Application of plain water via normal sprayer prior to harvest can help to reduce Surround WP residues. For Grapes: table grapes, do not spray after first bloom; Wine grapes sprayed up to veraison will have minimal adherence to berries. Applications after veraison will adhere more to grape berries.

3. Lo bush blueberry ONLY

4. Short residual toxicity time. Prohibited from onset of flowering until flowering is complete. Application only made between 2 hours prior to sunset and 8 hours prior to sunrise.

PHI= pre-harvest interval; time between last application and harvest

REI= Restricted entry interval; time between application and when workers may re-enter the field

Probable efficacy ratings based on lab and field assays in western USA, Michigan, Connecticut

Additional materials labeled for SWD control with a probable efficacy of poor are not listed.

→ Add 2 lbs sugar/100 gal to increase SWD interaction with pesticides.

→ Add 4-16 oz Nu Film P/100 gal with all materials to improve SWD efficacy.

→ If it rains, re-apply a pesticide material. Read the label for any re-application restrictions of the same material.

This is a guide. ALWAYS check the label!

Updated information based on work by *The Sustainable SWD Management SCRI Project*, January 2018; New label information.

Updated 06/18/2020, Mary Concklin, University of Connecticut



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