

## 2021 Spotted Wing Drosophila Insecticides for Stone Fruits

Trade name	Active Ingredient	IRAC code	Apricot			Cherry			Nectarine			Peach			Plum / Prune			Probable Efficacy
			PHI (days)	REI	Rate per acre	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	14	12 hr	4.5-5.5 oz	14	12 hr	4.5-5.5 oz	14	12 hr	4.5-5.5 oz	14	12 hr	4.5-5.5 oz	14	12 hr	4.5-5.5 oz	Weak/Fair
Admire Pro	Imidacloprid	4A	0	12 hr	1.4-2.8 oz	0	12 hr	1.4-2.8 oz	0	12 hr	1.4-2.8 oz	0	12 hr	1.4-2.8 oz	0	12 hr	1.4-2.8 oz	Weak
Assail 30SG	Actamiprid	4A	7	12 hr	5.3-8 oz	7	12 hr	5.3-8 oz	7	12 hr	5.3-8 oz	7	12 hr	5.3-8 oz	7	12 hr	5.3-8 oz	Fair
Asana XL	Esfenvalerate	3	14	12 hr	4.8-14.5 fl oz	14	12 hr	4.8-14.5 fl oz	14	12 hr	4.8-14.5 fl oz	14	12 hr	4.8-14.5 fl oz	14	12 hr	4.8-14.5 fl oz	Good/Exc
Baythroid XL	Beta-cyfluthrin	3	7	12 hr	2.4-2.8 oz	7	12 hr	2.4-2.8 oz	7	12 hr	2.4-2.8 oz	7	12 hr	2.4-2.8 oz	7	12 hr	2.4-2.8 oz	Good
BioCeres WP*	<i>Beauveria bassiana</i>	UN	4	0	1-3 lb	4	0	1-3 lb	4	0	1-3 lb	4	0	1-3 lb	4	0	1-3 lb	
Cormoran	Novaluron & Acetamiprid	15, 4A	8	12	20-28 fl oz	8	12	20-28 fl oz	8	12	20-28 fl oz	8	12	20-28 fl oz	8	12	20-28 fl oz	Excellent
Danitol 2.4EC	Fenpropathrin	3	3	24 hr	10.6-21.3 fl oz	3	24 hr	10.6-21.3 fl oz	3	24 hr	10.6-21.3 fl oz	3	24 hr	10.6-21.3 fl oz	3	24 hr	10.6-21.3 fl oz	Excellent
Delegate	Spinetoram	5	14	4 hr	6-7 oz	7	4 hr	6-7 oz	1	4 hr	6-7 oz	1	4 hr	6-7 oz	7	4 hr	6-7 oz	Good/Exc
Diazinon AG500	Diazinon	1B	21	4 day	1 pt/100 gal	21	4 day	0.5 -1 pt/100 gal	21	4 day	1 pt/100 gal	21	4 day	1 pt/100	21	4 day	1 pt/100 gal	Good/Exc
Endigo ZC	Lambda-cyhalothrin & Thiamethoxam	3A, 4A	7	24 hr	5.5-6 fl oz	7	24 hr	5.5-6 fl oz	7	24 hr	5.5-6 fl oz	7	24 hr	5.5-6 fl oz	7	24 hr	5.5-6 fl oz	Good
Entrust*	Spinosad	5	14	4 hr	1.25-2.5 oz	7	4 hr	1.25-2.5 oz	1	4 hrs	1.25-2.5 oz	1	4 hrs	1.25-2.5 oz	7	4 hr	1.25-2.5 oz	Good
Entrust Naturalyte*	Spinosad	5	14	4 hr	1.25-2.5 oz	7	4 hr	1.25-2.5 oz	1	4 hr	1.25-2.5 oz	1	4 hr	1.25-2.5 oz	7	4 hr	1.25-2.5 oz	Good
Entrust SC*	Spinosad	5	14	4 hr	4-8 fl oz	7	4 hr	4-8 fl oz	1	4 hr	4-8 fl oz	1	4 hr	4-8 fl oz	7	4 hr	4-8 fl oz	Good
Exirel	Cyantraniliprole	28	3	12 hr	13.5-20.5 oz/A	3	12 hr	13.5-20.5 oz/A	3	12 hr	13.5-20.5 oz/A	3	12 hr	13.5-20.5 oz/A	3	12 hr	13.5-20.5 oz/A	Good/Exc
Grandevo*	<i>Chromobacterium subsugae</i> strain	UN	0	4 hr	2-3 lb	0	4 hr	2-3 lb	0	4 hr	2-3 lb	0	4 hr	2-3 lb	0	4 hr	2-3 lb	Fair

Imidan 70W	Phosmet	1B	14	7 day	2 1/8-4.25 lb	7 (tart)	3 day	2 1/8 lb	14	4 day	2 1/8-4.25 lb	14	4 day	2 1/8-4.25 lb	14	7 day	2 1/8-4.25 lb	Excellent
Lambda-Cy EC	Lambda-cyhalothrin	3	14	24 hr	2.56-5.12 fl oz	14	24 hr	2.56-5.12 fl oz	14	24 hr	2.56-5.12 fl oz	14	24 hr	2.56-5.12 fl oz	14	24 hr	2.56-5.12 fl oz	Good/Exc
Lannate LV	Methomyl	1A	Not Labeled			Not Labeled			Not Labeled			4	4 day	3 pt	Not Labeled			Excellent
Lannate SP	Methomyl	1A	Not Labeled			Not Labeled			Not Labeled			4	4 day	1 lb	Not Labeled			Excellent
Leverage 360	Imidacloprid & cyfluthrin	4A, 3	7	12 hr	2.4-2.8 fl oz	7	12 hr	2.4-2.8 fl oz	7	12 hr	2.4-2.8 fl oz	7	12 hr	2.4-2.8 fl oz	7	12 hr	2.4-2.8 fl oz	Good
Magister SC	Fenazaquin	21A, 39	3	12 hr	32-36 oz	3	12 hr	32-36 oz	3	12 hr	32-36 oz	3	12 hr	32-36 oz	3	12 hr	32-36 oz	Good/Exc
Malathion 5EC	Malathion	1B	6	12 hr	2 pt	3	12 hr	2.8 pt	7	24 hr	4-4.8 pt	7	24 hr	2.5-4.8 pt	Not Labeled			Good
Minecto Pro	Cyantranilprole & Abamectin	28, 6	21	12 hr	10-12 fl oz	21	12 hr	10-12 fl oz	21	12 hr	10-12 fl oz	21	12 hr	10-12 fl oz	21	12 hr	10-12 fl oz	Excellent
Molt-X	Azadirachtin	UN	0	4 hr	10 fl oz	0	4 hr	10 fl oz	0	4 hr	10 fl oz	0	4 hr	10 fl oz	0	4 hr	10 fl oz	?
Mustang Maxx	Zeta-cypermethrin	3	14	12 hr	4 oz	14	12 hr	4 oz	14	12 hr	4 oz	14	12 hr	4 oz	14	12 hr	4 oz	Excellent
Pyganic 1.4*	Pyrethrin	3A	0	12 hr	1pt-2qt	0	12 hr	1pt-2qt	0	12 hr	1pt-2qt	0	12 hr	1pt-2qt	0	12 hr	1pt-2qt	Weak/Fair
Rimon 0.83EC	Novaluron	15	8	12 hr	20-40 fl oz	8	12 hr	20-40 fl oz	8	12 hr	20-40 fl oz	8	12 hr	20-40 fl oz	8	12 hr	20-40 fl oz	Weak
Sevin XLR	Carbaryl	1A	3	12 hr	2-3 qt	3	12 hr	2-3 qt	3	12 hr	2-3 qt	3	12 hr	2-3 qt	3	12 hr	2-3 qt	Fair
Success <sup>1</sup>	Spinosad	5	14	4 hr	4-8 fl oz	7	4 hr	4-8 fl oz	1	4 hr	4-8 fl oz	1	4 hr	4-8 fl oz	7	4 hr	4-8 fl oz	Good
Surround <sup>2</sup>	Kaolin clay	UN	0	4 hr	25-50 lb/100	0	4 hr	25-50 lb/100	0	4 hr	25-50 lb/100	0	4 hr	25-50 lb/100	0	4 hr	25-50 lb/100	Repellent/Desiccant
Venon	Dinotefuran	4A	Not labeled			Not labeled			3	12 hr	2-4 oz	3	12 hr	2-4 oz	Not labeled			Good
Verdepryn 100 SL	Cyclaniloprole	28	7	4 hr	11 fl oz	7	4 hr	11 fl oz	7	4 hr	11 fl oz	7	4 hr	11 fl oz	7	4 hr	11 fl oz	Excellent
Warrior	Lambda-cyhalothrin	3	14	24 hr	1.28-2.56 fl oz	14	24 hr	1.28-2.56 fl oz	14	24 hr	1.28-2.56 fl oz	14	24 hr	1.28-2.56 fl oz	14	24 hr	1.28-2.56 fl oz	Good/Exc

\*OMRI certified. Rotate Entrust, Pyganic and Grandevo for resistance management.

1. For NH and Maine ONLY

2. Surround- see label regarding washing residue off. If unable to wash off, discontinue use when fruit are approximately 3/4" diameter.

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

REI= re-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, CT, NY

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.**

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

**This is a guide. ALWAYS check the label!**

*Updated 04/27/2021 - Mary Concklin, University of Connecticut*



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