

2 June 2021 - Labeled Insecticides for Control of Spotted Wing Drosophila in New York Tree Fruit and Grapes – Quick Guide

Compiled by Art Agnello, Greg Loeb, Peter Jentsch & Juliet Carroll. Updated regularly.

For **APPLES & PEARS** – refer to the yearly Cornell Guidelines for Commercial Tree Fruit Production, cropandpestguides.cce.cornell.edu/.

SWEET & TART CHERRY

PRODUCT	AI ¹	IRAC group ²	EPA#	RATE/A	REI ³	DTH ⁴	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust 80WP Naturalyte 2(ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	7 d	9 oz (0.45 lb)	refer to label	> 7 d	Fair to Good
^@@Entrust SC 2(ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	7 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Fair to Good
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	7 d	28 oz (0.438 lb)	4	> 7 d	Moderate
*Exirel	cyazypyr	28	279-9615	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 d	Good to Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	2	≤ 7 d	Good to Excellent
Cyclaniliprole 50 SL	cyclaniliprole	28	7152-26	22 fl oz	4 hr	7 d	54 fl oz (0.18 lb)	2	≤ 7 d	Good to Excellent
*@Minecto Pro	cyantaniiprole & abamectin	28, 6	100-1592	10-12 fl oz	12 hr	21 d	24 fl oz (0.21 lb, 0.044 lb)	refer to label	≥ 21 d	Good to Excellent
*Asana XL 2(ee)	esfenvalerate	3	59639-209	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*Baythroid XL 2(ee)	beta-cyfluthrin	3	264-840	2.4-2.8 fl oz	12 hr	7 d	5.6 fl oz (0.044 lb)	2	> 14 d	Fair to Good
*Danitol 2.4EC	fenpropathrin	3	59639-35	10.66-21.33 fl oz	24 hr	3 d	42.66 fl oz (0.8 lb)	2	> 10 d	Good to Excellent
*Lambda-Cy EC 2(ee)	lambda-cyhalothrin	3	70506-121	5.12 fl oz	24 hr	14 d	*25.6 fl oz (0.2 lb)	5 total, 4 post bloom	> 5 d	Good to Excellent
*Mustang Maxx Insecticide 24(c)	zeta-cypermethrin	3A	279-3426	4 fl oz	12 hr	3 d	24 fl oz (0.15 lb)	6	> 7 d	Good to Excellent

*Refer to label for details and additional restrictions.

^Approved for organic use in NY.

@After 2 consecutive applications, rotate to different IRAC.

@@ After 3 consecutive applications, rotate to different IRAC.

¹ Active Ingredient.

² Mode of Action, IRAC group code (UN = unknown).

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⁴ Days to Harvest (PHI) (d = days).

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SWEET & TART CHERRY										
PRODUCT	AI ¹	IRAC group ²	EPA#	RATE/A	REI ³	DTH ⁴	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^Grandevo WDG	<i>Chromobacterium subsugae</i> strain PRAA4-1 and spent fermentation media	UN	84059-27	2-3 lb	4 hr	0 d	-	-	≤ 7 d	Weak to Fair
<i>Tart Cherry Only</i>										
Imidan 70W	phosmet	1B	10163-169	2.13 lb (0.75 lb/100 gal water)	72 hr	7 d	7.5 lb (5.25 lb)	3	-	Good to Excellent

^a In organic production, Entrust must be rotated with different IRAC insecticides, consider Grandevo or products containing the AI's azadirachtin or pyrethrin.

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PEACH & NECTARINE										
PRODUCT	AI ¹	IRAC group ²	EPA#	RATE/A	REI ³	DTH ⁴	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust Naturalyte 2(ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	1 d	9 oz (0.45 lb)	refer to label	> 7 d	Fair to Good
^@@Entrust SC 2(ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	1 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Fair to Good
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	1 d	28 oz (0.438 lb)	4	> 7 d	Moderate
*Exirel	cyazypyr	28	279-9615	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 d	Good to Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	2	≤ 7 d	Good to Excellent
Cyclaniliprole 50 SL	cyclaniliprole	28	7152-26	22 fl oz	4 hr	7 d	54 fl oz (0.18 lb)	2	≤ 7 d	Good to Excellent
*@Minecto Pro	cyantaniiprole & abamectin	28, 6	100-1592	10-12 fl oz	12 hr	21 d	24 fl oz (0.21 lb, 0.044 lb)	refer to label	≥ 21 d	Good to Excellent
*Asana XL 2(ee)	esfenvalerate	3	59639-209	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*Baythroid XL 2(ee)	beta-cyfluthrin	3	264-840	2.4-2.8 fl oz	12 hr	7 d	5.6 fl oz (0.044 lb)	2	> 14 d	Fair to Good
*Danitol 2.4EC	fenpropathrin	3	59639-35	10.7-21.3 fl oz	24 hr	3 d	42.66 fl oz (0.8 lb)	2	> 10 d	Good to Excellent
*Mustang Maxx Insecticide	zeta-cypermethrin	3A	279-3426	4 fl oz	12 hr	14 d	24 fl oz (0.15 lb)	6	> 7 d	Good to Excellent
Imidan 70W	phosmet	1B	10163-169	2.13-4.25 lb (0.75-1 lb/100 gal water)	96 hr	14 d	7.5 lb (5.25 lb)	3	-	Good to Excellent
^Grandevo WDG	<i>Chromobacterium subsugae</i> strain PRAA4-1 and spent fermentation media	UN	84059-27	2-3 lb	4 hr	0 d	-	-	≤ 7 d	Fair to Weak

^a In organic production, Entrust must be rotated with different IRAC insecticides, consider Grandevo or products containing the AI's azadirachtin or pyrethrin.

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PLUM & PRUNE										
PRODUCT	AI ¹	IRAC group ²	EPA#	RATE/A	REI ³	DTH ⁴	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust Naturalyte 2(ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	7 d	9 oz (0.45 lb)	refer to label	> 7 d	Fair to Good
^@@Entrust SC 2(ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	1 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Fair to Good
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	1 d	28 oz (0.438 lb)	4	> 7 d	Moderate
*Exirel	cyazapyr	28	279-9615	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 d	Good to Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	2	≤ 7 d	Good to Excellent
Cyclaniliprole 50 SL	cyclaniliprole	28	7152-26	22 fl oz	4 hr	7 d	54 fl oz (0.18 lb)	2	≤ 7 d	Good to Excellent
*@Minecto Pro	cyantilaniliprole & abamectin	28, 6	100-1592	10-12 fl oz	12 hr	21 d	24 fl oz (0.21 lb, 0.044 lb)	refer to label	≥ 21 d	Good to Excellent
*Asana XL 2(ee)	esfenvalerate	3	59639-209	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*Baythroid XL 2(ee)	beta-cyfluthrin	3	264-840	2.4-2.8 fl oz	12 hr	7 d	5.6 fl oz (0.044 lb)	2	> 14 d	Fair to Good
*Danitol 2.4EC	fenpropathrin	3	59639-35	10.7-21.3 fl oz	24 hr	3 d	42.66 fl oz (0.8 lb)	2	> 10 d	Good to Excellent
*Mustang Maxx Insecticide	zeta-cypermethrin	3A	279-3426	4 fl oz	12 hr	14 d	24 fl oz (0.15 lb)	6	> 7 d	Good to Excellent
Imidan 70W	phosmet	1B	10163-169	2.13-4.25 lb (0.75-1 lb/100 gal water)	7 days	14* d	7.5 lb (5.25 lb)	3	-	Good to Excellent
^Grandevo WDG	<i>Chromobacterium subsugae</i> strain PRAA4-1 and spent fermentation media	UN	84059-27	2-3 lb	4 hr	0 d	-	-	≤ 7 d	Fair to Weak

^a In organic production, Entrust must be rotated with different IRAC insecticides, consider Grandevo or products containing the AI's azadirachtin or pyrethrin.

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APRICOT

PRODUCT	AI ¹	IRAC group ²	EPA#	RATE/A	REI ³	DTH ⁴	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust Naturalyte 2(ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	14 d	9 oz (0.45 lb)	refer to label	> 7 d	Fair to Good
^@@Entrust SC 2(ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	14 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Fair to Good
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	14 d	28 oz (0.438 lb)	4	> 7 d	Moderate
*Exirel	cyazapyr	28	279-9615	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 d	Good to Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	2	≤ 7 d	Good to Excellent
Cyclaniliprole 50 SL	cyclaniliprole	28	7152-26	22 fl oz	4 hr	7 d	54 fl oz (0.18 lb)	2	≤ 7 d	Good to Excellent
*@Minecto Pro	cyantilaniliprole & abamectin	28, 6	100-1592	10-12 fl oz	12 hr	21 d	24 fl oz (0.21 lb, 0.044 lb)	refer to label	≥ 21 d	Good to Excellent
*Asana XL 2(ee)	esfenvalerate	3	59639-209	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*Baythroid XL 2(ee)	beta-cyfluthrin	3	264-840	2.4-2.8 fl oz	12 hr	7 d	5.6 fl oz (0.044 lb)	2	> 14 d	Fair to Good
*Danitol 2.4EC	fenpropathrin	3	59639-35	10.7-21.3 fl oz	24 hr	3 d	42.66 fl oz (0.8 lb)	2	> 10 d	Good to Excellent
*Mustang Maxx Insecticide	zeta-cypermethrin	3A	279-3426	4 fl oz	12 hr	14 d	24 fl oz (0.15 lb)	6	> 7 d	Good to Excellent
*Imidan 70W	phosmet	1B	10163-169	2.13-4.25 lb (0.75-1 lb/100 gal water)	7 days	14 d	7.5 lb (5.25 lb)	3	-	Good to Excellent
^Grandevo WDG	<i>Chromobacterium subsugae</i> strain PRAA4-1 and spent fermentation media	UN	84059-27	2-3 lb	4 hr	0 d	-	-	≤ 7 d	Fair to Weak

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GRAPES										
PRODUCT	AI ¹	IRAC group ²	EPA#	RATE/A	REI ³	DTH ⁴	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@Entrust Naturalyte 2(ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	3 d	7.2 oz (0.36 lb)	5	> 5 d	Fair to Good
^@Entrust SC 2(ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	3 d	23 fl oz (0.36 lb)	5	> 5 d	Fair to Good
@Delegate WG	spinetoram	5	62719-541	3-5 oz	4 hr	3 d	19.5 oz (0.305 lb)	5	> 4 d	Good to Excellent
Assail 30SG 2(ee)	acetamiprid	4A	8033-36-70506	4.5-5.3 oz	12 hr	3 d	10.6 oz (0.2 lb)	2	> 14 d	Fair to Good
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz	4 hr	7 d	27 fl oz (0.18lb)	2	≤ 7 d	Good to Excellent
Cyclaniliprole 50 SL	cyclaniliprole	28	7152-26	22 fl oz	4 hr	7 d	54 fl oz (0.18 lb)	2	≤ 7 d	Good to Excellent
*Baythroid XL 2(ee)	beta-cyfluthrin	3	264-840	2.4-3.2 fl oz	12 hr	3 d	12.8 fl oz (0.1 lb)	4	> 14 d	Good
*Danitol 2.4EC	fenpropathrin	3	59639-35	10.66-21.33 fl oz	24 hr	21 d	42.66 fl oz (0.8 lb)	2	> 7 d	Good to Excellent
*Mustang Maxx Insecticide	zeta-cypermethrin	3A	279-3426	4 fl oz	12 hr	1 d	24 fl oz (0.15 lb)	6	> 7 d	Good to Excellent
Malathion 5EC (Drexel)	malathion	1B	19713-217	3 pts	24 hr	3 d	3 pts (1.88 lb)	2	> 14 d	Good to Excellent
Malathion 8 Aquamul	malathion	1B	34704-474	1.88 pts	24 hr	3 d	3.76 pts (3.76 lb)	2	> 14 d	Good to Excellent
^Grandevo WDG	<i>Chromobacterium subsugae</i> strain PRAA4-1 and spent fermentation media	UN	84059-27	2-3 lb	4 hr	0 d	-	-	≤ 7 d	Weak to Fair

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