

# June 2020 - 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.

## SWEET & TART CHERRY

PRODUCT	AI <sup>1</sup>	IRAC group <sup>2</sup>	EPA#	RATE/A	REI <sup>3</sup>	DTH <sup>4</sup>	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust 80WP Naturalyte (2ee) <sup>a</sup>	spinosad	5	62719-282	1.25-2.5 oz	4 hr	7 d	9 oz (0.45 lb)	refer to label	> 7 d	Good to Excellent <sup>#</sup>
^@@Entrust 2SC (2ee) <sup>a</sup>	spinosad	5	62719-621	4-8 fl oz	4 hr	7 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Good to Excellent <sup>#</sup>
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	7 d	28 oz (0.438 lb)	4	> 7 d	Moderate <sup>#</sup>
*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	Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	3	7 d	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	Excellent
*Asana XL (2ee)	esfenvalerate	3	352-515	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*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	Excellent
*Lambda-Cy EC (2ee)	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	zeta-cypermethrin	3A	279-3426	4 fl oz	12 hr	14 d	24 fl oz (0.15 lb)	6	> 7 d	Excellent
^Grandevo	<i>Chromobacterium subtsugae</i> strain PRAA4-1 and spent fermentation media	UN	84059-27	2-3 lb	4 hr	0 d	-	-	≤ 7 d	Fair to Poor <sup>#</sup>
Tart Cherry Only										
*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	-	Excellent

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

\*Refer to label for details and additional restrictions.

<sup>#</sup>Adding sugar (sucrose) at 2 lb/100 gal water as a feeding stimulant will increase efficacy.

<sup>^</sup>Approved for organic use in NY.

@After 2 consecutive applications, rotate to different IRAC.

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

<sup>1</sup> Active Ingredient.

<sup>2</sup> Mode of Action, IRAC group code (UN = unknown).

<sup>3</sup> Re-entry Interval (hr = hours).

<sup>4</sup> Days to Harvest (PHI) (d = days).

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## PEACH & NECTARINE

PRODUCT	AI <sup>1</sup>	IRAC group <sup>2</sup>	EPA#	RATE/A	REI <sup>3</sup>	DTH <sup>4</sup>	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust Naturalyte (2ee) <sup>a</sup>	spinosad	5	62719-282	1.25-2.5 oz	4 hr	1 d	9 oz (0.45 lb)	refer to label	> 7 d	Moderate <sup>#</sup>
^@@Entrust SC (2ee) <sup>a</sup>	spinosad	5	62719-621	4-8 fl oz	4 hr	1 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Moderate <sup>#</sup>
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	1 d	28 oz (0.438 lb)	4	> 7 d	Moderate <sup>#</sup>
*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	Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	3	7 d	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	Excellent
*Asana XL (2ee)	esfenvalerate	3	352-515	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*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	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	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	-	Excellent
^Grandevo	<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 Poor <sup>#</sup>

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

\*Refer to label for details and additional restrictions.

<sup>#</sup>Adding sugar (sucrose) at 2 lb/100 gal water as a feeding stimulant will increase efficacy.

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PLUM & PRUNE										
PRODUCT	AI <sup>1</sup>	IRAC group <sup>2</sup>	EPA#	RATE/A	REI <sup>3</sup>	DTH <sup>4</sup>	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust Naturalyte (2ee) <sup>a</sup>	spinosad	5	62719-282	1.25-2.5 oz	4 hr	7 d	9 oz (0.45 lb)	refer to label	> 7 d	Moderate <sup>#</sup>
^@@Entrust SC (2ee) <sup>a</sup>	spinosad	5	62719-621	4-8 fl oz	4 hr	1 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Moderate <sup>#</sup>
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	1 d	28 oz (0.438 lb)	4	> 7 d	Moderate <sup>#</sup>
*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	Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	3	7 d	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	Excellent
*Asana XL (2ee)	esfenvalerate	3	352-515	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*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	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	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	-	Excellent
^Grandevo	<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 Poor <sup>#</sup>

<sup>a</sup> 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 <sup>1</sup>	IRAC group <sup>2</sup>	EPA#	RATE/A	REI <sup>3</sup>	DTH <sup>4</sup>	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@@Entrust Naturalyte (2ee) <sup>a</sup>	spinosad	5	62719-282	1.25-2.5 oz	4 hr	14 d	9 oz (0.45 lb)	refer to label	> 7 d	Moderate <sup>#</sup>
^@@Entrust SC (2ee) <sup>a</sup>	spinosad	5	62719-621	4-8 fl oz	4 hr	14 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Moderate <sup>#</sup>
@@Delegate WG	spinetoram	5	62719-541	4.5-7 oz	4 hr	14 d	28 oz (0.438 lb)	4	> 7 d	Moderate <sup>#</sup>
*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	Excellent
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	3	7 d	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	Excellent
*Asana XL (2ee)	esfenvalerate	3	352-515	4.8-14.5 fl oz	12 hr	14 d	72.7 fl oz (0.375 lb)	refer to label	-	Good to Excellent
*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	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	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	-	Excellent
^Grandevo	<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 Poor <sup>#</sup>

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

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

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GRAPES										
PRODUCT	AI <sup>1</sup>	IRAC group <sup>2</sup>	EPA#	RATE/A	REI <sup>3</sup>	DTH <sup>4</sup>	Max Prod/A/yr (ai)	Total applic's	Spray Interval	Probable efficacy
^@Entrust Naturalyte 2(ee) <sup>a</sup>	spinosad	5	62719-282	1.25-2.5 oz	4 hr	7 d	7.2 oz (0.36 lb)	5	> 5 d	Good to Excellent <sup>#</sup>
^@Entrust SC 2(ee) <sup>a</sup>	spinosad	5	62719-621	4-8 fl oz	4 hr	7 d	23.2 fl oz (0.36 lb)	5	> 5 d	Good to Excellent <sup>#</sup>
@Delegate WG	spinetoram	5	62719-541	3-5 oz	4 hr	7 d	19.5 oz (0.305 lb)	5	> 4 d	Excellent <sup>#</sup>
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	Good <sup>#</sup>
*Verdepryn 100 SL	cyclaniliprole	28	71512-34-88783	11 fl oz.	4 hr	7 d	27 fl oz (0.18lb)	3	7 d	Good to Excellent
*Danitol 2.4EC	fenpropathrin	3A	59639-35	10.66-21.33 fl oz	24 hr	21 d	42.66 fl oz (0.8 lb)	2	> 7 d	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	Excellent
*Malathion 5EC 2(ee)	malathion	1B	19713-217	3 pts	24 hr*	3 d	-	2	> 14 d	Good
*Malathion 5EC 2(ee)	malathion	1B	66330-220	3 pts	12 hr	3 d	-	-	-	Good
*Malathion 57% 2(ee)	malathion	1B	67760-40-53883	3 pts	24 hr*	3 d	-	2	> 14 d	Good
*Malathion 8 Aquamul	malathion	1B	34704-474	1.88 pts	24 hr*	3 d	3.76 pts (3.76 lb)	2	> 14 d	Good
^Grandevo	<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 Poor <sup>#</sup>

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