

June 2017 - Labeled Insecticides for Control of Spotted Wing Drosophila in New York Tree Fruit and Grapes – Quick Guide

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

Most tree fruit crops, especially apples, are currently considered at low risk of SWD infestation.

APPLES & PEARS – refer to the Cornell Guidelines for Commercial Tree Fruit Production, <http://ipmguidelines.org/>.

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 (2ee) ^a	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 [#]
^@@Entrust 2SC (2ee) ^a	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 [#]
@@Delegate WG (2ee)	spinetoram	5	62719-541	4.5-7 oz	4 hr	7 d	28 oz (0.438 lb)	4	> 7 d	Moderate [#]
*Exirel	cyazypyr	28	352-859	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 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 (2ee)	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
Tart Cherry Only										
*Imidan 70W	phosmet	1B	10163-169	2.13 lb	72 hr	7 d	7.5 lb (5.25 lb)	3	-	Excellent

^a In organic production, Entrust must be rotated with insecticides with different modes of action, consider using Grandevo or products containing the active ingredients azadirachtin or pyrethrin.

*Refer to label for details and additional restrictions.

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

[^]Approved for organic use in NY.

@After two consecutive applications must rotate to different mode of action.

@@ After three consecutive applications must rotate to different mode of action.

¹ Active Ingredient.

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

³ Re-entry Interval (hr = hours).

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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 (2ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	1 d	9 oz (0.45 lb)	refer to label	> 7 d	Moderate [#]
[^] @ [@] Entrust SC (2ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	1 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Moderate [#]
[@] @ [@] Delegate WG (2ee)	spinetoram	5	62719-541	4.5-7 oz	4 hr	1 d	28 oz (0.438 lb)	4	> 7 d	Moderate [#]
*Exirel	cyazapyr	28	352-859	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 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 (2ee)	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	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

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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 (2ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	7 d	9 oz (0.45 lb)	refer to label	> 7 d	Moderate [#]
[^] @@Entrust SC (2ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	7 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Moderate [#]
[@] @Delegate WG (2ee)	spinetoram	5	62719-541	4.5-7 oz	4 hr	7 d	28 oz (0.438 lb)	4	> 7 d	Moderate [#]
*Exirel	cyazypyr	28	352-859	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 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 (2ee)	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	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

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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 (2ee) ^a	spinosad	5	62719-282	1.25-2.5 oz	4 hr	14 d	9 oz (0.45 lb)	refer to label	> 7 d	Moderate [#]
^@@Entrust SC (2ee) ^a	spinosad	5	62719-621	4-8 fl oz	4 hr	14 d	29 fl oz (0.45 lb)	refer to label	> 7 d	Moderate [#]
@@Delegate WG (2ee)	spinetoram	5	62719-541	4.5-7 oz	4 hr	14 d	28 oz (0.438 lb)	4	> 7 d	Moderate [#]
*Exirel	cyazypyr	28	352-859	13.5-20.5 fl oz	12 hr	3 d	61.5 fl oz (0.4 lb)	3	> 7 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 (2ee)	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	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

^a In organic production, Entrust must be rotated with insecticides with different modes of action, consider using Grandevo or products containing the active ingredients azadirachtin or pyrethrin.

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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 (2ee) ^a	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 [#]
[^] @Entrust SC (2ee) ^a	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 [#]
@Delegate WG (2ee)	spinetoram	5	62719-541	3-5 oz	4 hr	7 d	19.5 oz (0.305 lb)	5	> 4 d	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 Max Insecticide (2ee)	zeta-cypermethrin	3A	279-3249	4 fl oz	12 hr	1 d	24 fl oz (0.15 lb)	6	> 7 d	Excellent
*Mustang Maxx Insecticide (2ee)	zeta-cypermethrin	3A	279-3426	4 fl oz	12 hr	1 d	24 fl oz (0.15 lb)	6	> 7 d	Excellent
*Triple Crown	bifenthrin, imidacloprid, zeta-cypermethrin	3A,4A	279-3440	5 fl oz	12 hr	30 d	*10.2 fl oz (0.18 lb)	2	> 14 d	Good to excellent
Malathion 5EC (2ee)	malathion	1B	19713-217	3 pts	24 hr	3 d	-	2	> 14 d	Good
*Malathion 5EC (2ee)	malathion	1B	66330-220	3 pts	12 hr	3 d	-	-	-	Good
Malathion 57% (2ee)	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

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