

Additional Products for Home Use in North Dakota to Control *Spotted Winged Drosophila*

Please see NDSU Extension publication E1715, "Integrated Pest Management of Spotted Winged Drosophila in North Dakota." In addition to the pesticides listed in the publication, other chemicals have become available for home use that are effective against this pest. It is important to use several classes of insecticides so that the fly does not develop resistance to the control method. Use a different class of insecticide each time you spray. Product names are listed to assist you in finding these products.

Read all labels before using the products. Different brands of similar products may have differing labels. The label is the law. If you need help understanding the label, contact your local Extension agent.

Bifenthrin

Ferti-lome: Broad Spectrum Insecticide, Concentrate (0.3%)

Ferti-lome: Broad Spectrum Insecticide, Ready to Spray (0.3%)

Ferti-lome: Broad Spectrum Insecticide, Ready to Use (0.05%)

Bifenthrin + zeta-cypermethrin

Ortho: Bug B Gon Insect Killer for Lawns & Gardens, Concentrate (0.3% + 0.075%)

Ortho: Bug B Gon Insect Killer for Lawns & Gardens, Ready-to-Spray (0.3% + 0.075%)

Cyfluthrin (Grapes only)

Bayer Advanced: Vegetable & Garden Insect Spray, Concentrate (0.75%)

Bayer Advanced: Vegetable & Garden Insect Spray, Ready to Spray (0.75%)

Bayer Advanced: Vegetable & Garden Insect Spray, Ready to Use (0.003%)

Esfenvalerate* (approval in ND is pending)

Monterey: Bug Buster II Concentrate (0.425%) *

Monterey: Bug Buster Ready to Spray (0.425%)*

Gamma-cyhalothrin

Spectracide Triazicide Insect Killer for Lawns & Landscapes, Concentrate (0.08%)

Spinosad (Some brands are suitable for organic production)

Green Light: Lawn & Garden Spray with Spinosad, Ready to Spray (0.5%)

Monterey: Garden Insect Spray, Concentrate (0.5%)

Malathion and Carbaryl

Multiple choices exist. Brands: Bonide, Gardentech, Gordons, Spectracide, Ortho, etc

Pyrethrins (Some brands are suitable for organic production)

Multiple choices exist. Brands: Ortho, Bonide, Earthtech, Fertilome, Greenlight, etc

**"I found a pesticide online. Is it registered for use in North Dakota??" Find out below:
Pesticide Registration Search at North Dakota Department of Agriculture**

- Main Page: www.nd.gov/ndda/program/pesticide-registration-program
- Pesticide Registration Search Page: www.kellysolutions.com/nd/

Pesticides for use against SWD, Ordered by Efficacy Ratings

Efficacy Rating	Active Ingredient	IRAC Class	Residual Activity (days)	# of applications allowed per year	Pre-Harvest Interval (PHI)					
					Apple	Cane berry	Straw-berry	Grape	Cherry	Plum
Very Effective	Bifenthrin	3A	7-10	0.2lb a.i./acre or 0.0046lb a.i./1000ft ²	X	3 days	1 day	X	X	X
	Bifenthrin + zeta-cypermethrin	3A	7-10	0.3lb a.i./acre or 0.0069lb a.i./1000ft ²	X	3 days	X	X	X	X
	Cyfluthrin	3A	7-10	4 – grapes	X	X	X	3 days	X	X
	Esfenvalerate *	3A	7-10	0.15lb a.i./acre or 0.0035 lb a.i./1000ft ²	X	21 days	X	X	14 days	14 days
	Gamma-cyhalothrin	3A	7-10	9 – apple (5 post bloom)	21 days	X	X	X	14 days	14 days
7-10			9 – cherry (5 post bloom)							
7-10			9 – plum (5 post bloom)							
Effective	Spinosad	5	5-7	6 – all	7 days	1-3 day	1 day	7 days	7 days	7 days
Effective	Malathion	1B	7	2 – apples	1 day	1 day	X	X	3 days	X
				3 – caneberries						
Effective	Malathion + Carbaryl	1B, 1A	7	4 – cherries						
				2 – apples	14 days	X	14 days	7 days	14 days	X
				4 – strawberry						
				2 – grape						
Moderately Effective	Carbaryl	1A	14	4 – cherry						
				8 – apples	3 days	7 days	7 days	7 days	3 days	3 days
				5 – berries, grape						
Sl. Effective	Pyrethrins	3A	1-3	3 – cherry, plum						
				0.05lb a.i./acre or 0.0012lb a.i./1000ft ²	0 day	0 day	0 day	0 day	0 day	0 day

X = Not approved for use on this fruit

* *Esfenvalerate use is provisional. Monterey agreed to request certification in ND on 6/18/14*

IRAC Class: Pesticides in the same class use the same modes of action to control pests. To prevent insect resistance, use chemicals with a different mode of action each time you spray.

Residual Activity: This is the length of time that one application of pesticide should be effective against the targeted pest. You may not respray the crop with this pesticide in less than this time.

of Applications Allowed per Year: The number of times you are allowed to spray one crop with the pesticide
a.i.= active ingredient (ex: 0.05% a.i. in a 32 ounce bottle = 0.001 lb of active ingredient) That is: (.0005 x 2lb = 0.001lb)

Pre-harvest Interval: The number of days to wait to harvest a crop after applying a pesticide. Some labels for similar products differ in the number of days to wait. Follow the label of the product you are using.