

## 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 here 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 Use (0.05%)

### **Zeta-cypermethrin**

Gordon's Bug-No-More, Concentrate (0.35%)  
GardenTech: Sevin Insect Killer, Concentrate (0.35%)  
GardenTech: Sevin Insect Killer, Ready-to-Use (0.04%)

### **Cyfluthrin (Grapes only)**

Bayer Advanced: Vegetable & Garden Insect Spray, Concentrate (0.75%)  
Bayer Advanced: Vegetable & Garden Insect Spray, Ready to Use (0.003%)

### **Lamba-cyhalothrin (plus fungicides for tree fruit)**

Bonide Fruit Tree and Plant Guard, Concentrate (0.5%)

### **Spinosad**

Monterey: Garden Insect Spray, Concentrate (0.5%)  
Bonide Captain Jack's Dead Brew, Concentrate (0.5%)  
Bonide Captain Jack's Dead Brew, Ready-to-Use (0.001%)

### **Malathion and Carbaryl (Not all brands cover all fruits)**

Multiple choices exist. Bayer Advanced, Bonide, Gordon's, Gardentech, Spectracide  
Combo Fruit Tree Sprays with Fungicides: Bonide, Gordon's

### **Pyrethrins (Some brands are suitable for organic production)**

Multiple choices exist. Earth-tone, Ferti-lome Triple Action w/ Neem,  
Gardentech Worry-Free Concentrate, Ortho Tree & Shrub Fruit Tree Spray, Pyganic

**"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/pesticide-fertilizer-division/pesticide-program](http://www.nd.gov/ndda/pesticide-fertilizer-division/pesticide-program)
- Pesticide Registration Search Page: [www.kellysolutions.com/nd/](http://www.kellysolutions.com/nd/)

Update 2/5/18

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**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 <sup>2</sup>	X	3 days	1 day	X	X	X
	Zeta-cypermethrin	3A	7-10	0.3lb a.i./acre or 0.0069lb a.i./1000ft <sup>2</sup>	14	1 days	X	1	14	14
	Cyfluthrin	3A	7-10	4 - grapes	X	X	X	3 days	X	X
	Lambda-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 day	1 day	7 days	7 days	7 days
Effective	Malathion	1B	7	2 - apples	1 day	1 day	3 days	3 days	3 days	X
			7	3 - caneberries						
			7	4 - strawberries						
			14	2 - grapes						
			3	4 - cherry						
Effective	Malathion + Carbaryl	1B, 1A	7	2 - apples	14 days	X	14 days	7 days	14 days	X
			7	4 - strawberry						
			14	2 - grape						
			7	4 - cherry						
Moderately Effective	Carbaryl	1A	14	8 - apples	3 days	7 days	7 days	7 days	3 days	3 days
			14	5 - berries, grape						
			7	3 - cherry, plum						
Sl. Effective	Pyrethrins	3A	1-3	0.05lb a.i./acre or 0.0012lb a.i./1000ft <sup>2</sup>	0 day	0 day	0 day	0 day	0 day	0 day

**Read and follow the label of the product you are using. This table is a guideline.**

X = Not approved for use on this fruit

**IRAC Class:** Pesticides in the same IRAC class use the same modes of action to control pests. To prevent insect resistance, use chemicals from a different IRAC class *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 (ie: 2lb) bottle = 0.001 lb of active ingredient)

**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. *Read and follow the label of the product you are using.*