

# Spotted Wing Drosophila (SWD)



**SWD larvae**

Hearldandnews.com



Umn.edu



Entomophily.wordpress.com



Ucanr.edu

## SWD Identification – key characters

**Male**

Black spot on wings

2 black combs on front legs

**Female**

She inserts saw-like device (ovipositor) into fruits and lays eggs



SWD egg

**Male:**

- ✓ Black spot on the end of the first wing vein
- ✓ Two sets of combs on the front legs
- ✓ Antenna with many hairs (branched)
- ✓ Large red eyes

**Female:**

- ✓ No black spot on wing
- ✓ Sclerotized, double serrated ovipositor (>12 teeth per side)
- ✓ Antenna with many hairs (branched)
- ✓ Large red eyes

Active Ingredient	Trade name	IRAC #	Blueberry	Caneberry	Strawberry	Probable Efficacy
			PHI (days)	PHI (days)	PHI (days)	
Carbaryl	Sevin 80S	1A	7	7	7	Good
Methomyl	Lannate LV	1A	3	Not labeled	Not labeled	Excellent
Phosmet	Imidan	1B	3	Not labeled	Not labeled	Excellent
Malathion	Malathion	1B	1	1	3	Good
Bifenthrin	Brigade	3	1	3	0	Excellent
Esfenvalerate	Asana	3	14	7	Not labeled	Excellent
Fenpropathrin	Danitol	3	3	3	2	Excellent
Zeta-cypermethrin	Mustang Max	3	1	1	Not labeled	Excellent
Pyrethrin	Pyganic (OMRI)	3	0	0	0	Fair
Spinetoram	Delegate	5	3	1	Not labeled	Excellent
Spinetoram	Radiant	5	Not labeled	Not labeled	1	Excellent
Spinosad	Entrust (OMRI)	5	3	1	1	Good
Cyantraniliprole	Exirel	28	3			Good

*If SWD present & fruit is ripening, spray weekly, reapply after rain.*

*Rotate insecticides with different IRAC # to delay SWD resistance.*

**Pick fruit daily, refrigerate instantly**  
(kills eggs in 3 days)

**Do you have SWD-infested berries?**

*Check 30 harvested berries for eggs/larvae with 20X hand lens or soak fruit 30 minutes in 1 qt water + either ¼ cup salt or ¾ cup sugar and check for floating larvae.*



- **Check traps weekly for flies:** 4 traps in edge of planting at height of ripening fruit. Move traps to next block of ripening fruit.
- **Trap** - 1 qt transparent cup with lid and 20 holes (3/16" diameter) around cup middle. Add red and black 1" strips of tape.
- Add one of 2 recommended lures to trap.
  1. **Yeast bait** = 32 oz water + 2 tbsp yeast + 4 tbsp sugar; let it ferment 1 day, then add 4 fl oz to trap **OR**
  2. **SWD lure** - wire lures to the lid inside the trap. Replace lures every 4 wks (Great Lakes IPM; 1-800-235-0285).
- **Add fly drowning solution** - weekly add ¾ cup apple cider vinegar to trap – only for use with dual lures.
- **Weekly, discard yeast bait or vinegar in trash.**

**For SWD fly confirmation, mail vial of flies to:**  
Ms. Barbara Lewis  
AGRI 319, Department of Entomology  
University of Arkansas, Fayetteville, AR 72701

