

## Monitoring Traps for Spotted Wing Drosophila in Oregon 2010

[3-15-2010 ajd-OSU,USDA-ARS]

SWD website address: **SWD.hort.oregonstate.edu**

As we gain more knowledge during the 2010 season, recommendations for making, placing, servicing traps may change. A baited trap can be made for capturing and monitoring adult flies. See website for current information: **SWD.hort.oregonstate.edu**.

### **Assembling Traps:**

- *Obtain 32 oz clear plastic cups or 16 oz cups for use in strawberry fields.*
- *Drill four-five, 3/16 to 3/8-inch holes on the side of the cup. Leave a 3-inch pour space on side of cup for pouring out attractant when ineffective.*
- *Place a yellow sticky card loosely-arched inside the top half of cup, for easy counting of male flies that get stuck on card when they enter trap. Add a heavier wire, strap or durable string to hang and secure trap on plant.*
- *Add  $\approx 1 \frac{1}{2}$  inches of apple cider vinegar to cup.*

### **Placing Traps:**

- Begin monitoring early with baited traps, when day time air temperatures are greater than 50°F for several days; and/or when fruit is young.
- Hang trap with heavy wire on shady or cooler side of plant; or securely place on ground next to strawberry plants.



### **Servicing Traps:**

- Check traps at least once a week. Take counts of male flies only (black spot on each wing) stuck on yellow sticky card. Use a 30x hand lens or OptiVisor to better see the spots on male fly wings.

### **Recording Trap Numbers:**

- Record fly counts in record book and follow abundance of seasonal fly catch.
- Replace bait solution and yellow card weekly. Dump bait solution away from fruiting plants.

**Where to find monitoring trap supplies:**

32 oz clear plastic cups	Cash & Carry in bulk or 4 cups for \$1.00 at Dollar Tree
Apple cider vinegar	Local grocery store @ \$4.50 to \$5.00 1 gallon jug
Yellow sticky cards (3" x 5" size)	Local greenhouse supplier or buy in bulk for 100-1000s, 35-45¢ each at: Great Lakes IPM ( <a href="http://www.greatlakesipm.com/">http://www.greatlakesipm.com/</a> ) Rincon Vitova IPM ( <a href="http://www.rinconvitova.com/">www.rinconvitova.com/</a> ) BioQuip ( <a href="http://www.bioquip.com">www.bioquip.com</a> )
OptiVisor	
30x illuminated loupe (hand lens)	<a href="http://www.amazon.com/SE-30x-Illuminated-Jewelers-Loupe/dp/B001T40WZ/ref=sr_1_2?ie=UTF8&amp;s=home-garden&amp;qid=1268198938&amp;sr=8-2">http://www.amazon.com/SE-30x-Illuminated-Jewelers-Loupe/ dp/B001T40WZ/ref=sr_1_2?ie=UTF8&amp;s=home-garden&amp;qid=1268198938&amp;sr=8-2</a>