

TREE PEST UPDATES

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July 5, 2005

PEACH TWIG BORER

HOST CROPS: Peaches, Nectarine, Apricot, Plum

2nd BIOFIX: Trap catches started increasing in most stone fruit orchards between June 26th and July 3rd so I am establishing an areawide biofix of **June 30th**. If you have traps in your own orchard, use the date that you first started seeing an increase in your trap catches as your own biofix.

TREATMENT TIMING: Not all orchards will need to treat this generation. If you still have fruit on the trees, consider a treatment if trap catches in your orchard have been high. As fruit begins to ripen it becomes more susceptible to attack; damage is most likely to occur from color break to harvest. Also, if you have young trees, watch for damage to the tips of the shoots which can set back the structural development of your orchard. If you see a damaging level of shoot strikes, consider a treatment.

Traditional Spray Timing (*Ambush, Asana, Diazinon, Imidan, Sevin, Success, Entrust*):

Apply at 300 DD if your fruit is close to ripe and at 400 DD if it is still green. These DD are projected to occur **July 12 (300 DD) – July 17 (400 DD) OR 11-17 days after your own orchard biofix**. Keep the preharvest interval (PHI) in mind for whatever material you use – many have a 14 day PHI; you may need to use a shorter residual product or apply the spray a little earlier than the optimum to assure that the fruit is clean for harvest. *Success* is a “reduced risk” material (with a 7-14 day PHI) that is soft on beneficial insects (and people) but quite effective against worms. *Entrust* is the organic formulation of *Success*. *Sevin* only has a 1 day PHI but can flare mites.

Bacillus Thuringiensis (BT): This is an organically acceptable material that is soft on beneficial insects and can be applied up to the day of harvest. Since it is short lived in the field, it is best applied twice – once at 300DD which is projected to occur **July 12 OR 11 days after your own biofix** and again at 500 DD which is projected to occur **July 21 OR 21 days after your own orchard biofix**.

Many thanks to Suterra for providing traps for the Contra Costa County Tree Pest Update Program

PEACH TWIG BORER UPDATE

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What's a Biofix?: It's just the beginning of the flight for each new generation. We usually have 3 generations for peach twig borer in this area. We use the Biofix to begin degree day calculations for each generation so we know when egg laying, hatchout, and other lifecycle events will happen. This helps us to time our treatments most effectively.

What's a Degree Day? Insects develop faster or slower depending on the temperature. Degree days are a measure based on the maximum and minimum temperatures for each day which allow us to figure out how fast the insects are developing. You may see them abbreviated as DD or °D. If you have the daily maximum & minimum temperatures for your orchard, you can look the degree days up on a chart. If you have access to the Internet, you can get Brentwood weather data and do a degree day calculation from the UC IPM Program home page. This page also lets you calculate the projected degree days based on historical weather data so you can make projections for potential treatment windows (this is how I do it!). The address is <http://www.ipm.ucdavis.edu>. Give me a call if you would like a degree day chart or more information