

TREE PEST UPDATES

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June 18, 2015

CODLING MOTH

HOST CROPS: Apple, Pear, Walnut

2nd BIOFIX: The second flight of codling moth begun in apple orchards about **June 5** but has not yet begun in many walnut orchards. This may be due to late May sprays for the 1B flight that are suppressing the beginning of the 2A flight OR it may be due to low survival of the 1A flight due to the late walnut leaf-out. It's best to use the trap catches in your own orchard to set your own orchard biofix at this time of year *as there may be several days variation from orchard to orchard.*

TREATMENT TIMING: Wait until your traps show renewed activity and apply a spray **8-13 days** later depending on your material choice (see below). Watch for a 2nd increase in trap counts indicating a 2B flight *the 1st week of July*. This flight may be more substantial in walnuts than the 2A flight. *Retreat if numbers are significant and your 2A residual is gone.* If the weather remains "normal," the projected degree days (DD) and corresponding treatment dates for those orchards that resumed flight in early June will be as follows:

200 DD = June 12 = or **8 days after your own orchard flight begins**

250 DD = June 14 = or **10 days after your own orchard flight begins**

300 DD = June 17 = or **13 days after your own orchard flight begins**

APPLES & PEARS

Delegate, Altacor, Imidan, Warrior, Assail: Should be applied at 250DD. *Delegate and Altacor* are newer, reduced risk materials that are effective against moderately high populations; *Assail* is effective against moderate populations. The addition of 1% oil to the reduced risk materials can improve efficacy.

Intrepid, Entrust, Cxd-X or Oil: Should be applied at 200 DD. *Intrepid* is a reduced risk material that is effective against low to moderate populations. *Entrust* and *Cxd-X* are organic spray options and effective against lower populations. The addition of 1% oil can improve their efficacy. *Oil* is a mild organic suppressant that is best used as a supplement to Mating Disruption or an additions to other sprays.

Mating Disruption: Reapply the mating disruption product at the interval recommended by the manufacturer. If this is the first year under mating disruption and/or you have a high population or a problem spot, you may want to consider a supplemental insecticide spray.

WALNUTS

Not all walnut orchards need to treat every generation of codling moth. If you've had close to 2% damage from the previous generation, you should probably treat this generation.

PennCap, Warrior, Baythroid, Brigade, Delegate, Altacor, Imidan, Lorsban, Asana, Ambush: Should be applied at 300 DD. *Delegate and Altacor* are newer, reduced risk materials that are effective against moderately high populations.

Intrepid, Entrust, Cyd-X: should be applied at 200 DD. *Intrepid* is a reduced risk material that is effective against low to moderate populations. The addition of Latron or similar spreader/sticker improves efficacy. *Entrust* and *Cyd-X* are organic options effective against lower populations. Efficacy is improved with the addition of 1% oil.

Dimlin should have been applied just before the flight began, if used alone, or at the 300 DD timing if mixed with a *low rate* of insecticide. The Dimlin + insecticide tank mix will provide control for any eggs laid over the last 14 days plus a 21 day residual. This amounts to 5 weeks of control with 1 spray!

Note: The above information is provided to serve as baseline data for East Contra Costa County. For best results compare with traps in your own orchards. Depending on pest pressure, sprays may not be necessary. Projected treatment times are based on historical weather data.

CODLING MOTH UPDATE

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Pleasant Hill, CA 94523

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

FOR MORE DETAILED INFORMATION ON TREATMENTS AND TIMING, CALL FOR A COPY OF OUR MOST RECENT CODLING MOTH IPM GUIDELINES FOR APPLES, PEARS, OR WALNUTS.

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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 codling moth 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 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.