

# TREE PEST UPDATES

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August 25, 2016

## CODLING MOTH

**HOST CROPS:** Apple, Pear, Walnut

**4A BIOFIX:** Due to the early emergence and warm summer weather, it looks like we will have a partial 4<sup>th</sup> generation of codling moth this year. I expect this small flight to begin in late August or early September and only last about 10-14 days. It is best to rely on trap and damage counts in your own orchard at this time of year to decide if and when to treat this generation.

### TREATMENT TIMING:

Wait to see if the trap counts in your own orchard start to increase and apply a spray (if needed) **9-14 days after the flight begins**, depending on material. Plan your spray timing and material according to your projected harvest date to avoid Pre-Harvest Interval (PHI) problems. If the weather remains “normal”, the projected calendar days for the target degree days is as follows:

<b>200 DD</b>	=	<b>9 days after your own orchard flight begins</b>
<b>250 DD</b>	=	<b>11 days after your own orchard flight begins</b>
<b>300 DD</b>	=	<b>14 days after your own orchard flight begins</b>

### APPLES & PEARS

Treat at 250 DD OR 11 days after your own flight begins with any of these materials:

*Altacor* (5 day PHI), *Delegate* (7 day PHI), *Assail* (7 day PHI), *Imidan* (7 day PHI),  
*Warrior* (21 day PHI):

Treat at 200 DD OR 9 days after your own flight begins with any of these materials:

*Intrepid* (14 day PHI), *Entrust\** (7 day PHI), *Cxd-X\** (0 day PHI), *oil\** (when dry):

### WALNUTS

*Not all walnut orchards need to treat every generation. If you have greater than 2% damage from the last generation, you should consider treating this generation.*

Treat at 300 DD OR 14 days after your own flight begins with any of these materials:

*Altacor* (10 day PHI), *Delegate* (1 day PHI), *Warrior* (14 day PHI), *Baythroid* (14 day PHI),  
*Brigade* (7 day PHI), *Belt* (14 day PHI), *Proclaim* (14 day), *Penncap* (14 day PHI, 25 day REI),  
*Imidan* (28 day PHI), *Lorsban* (14 day PHI), *Pounce/Ambush* (1 day PHI):

*Dimlin* (28 day PHI): Should be applied before the flight begins, if used alone, or at the 300 DD timing if mixed with a low rate of one of the insecticides listed above.

Treat at 200-250 DD OR 9-11 days after the flight begins with any of these materials:

*Intrepid* (14 day PHI), *Entrust+oil\** (1 day PHI), *Cyd-X\** (0 day PHI):

\* organic option

Note: The above information is provided to serve as baseline data for east Contra Costa County. For best results compare with traps and observations 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**

UC Cooperative Extension  
75 Santa Barbara Rd, 2nd floor  
Pleasant Hill, CA 94523

### *Time Sensitive Material*

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

MORE DETAILED INFORMATION ON TREATMENTS AND TIMING CAN BE FOUND IN **THE PEST MANAGEMENT GUIDELINES** ON THE UC IPM WEBSITE: <http://www.ipm.ucdavis.edu/PMG>

If you would like to subscribe to this newsletter by email, go to: [http://ucanr.org/sites/ccoopext/Tree\\_Pest\\_Updates\\_for\\_Codling\\_Moth/](http://ucanr.org/sites/ccoopext/Tree_Pest_Updates_for_Codling_Moth/)

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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.