COOPERATIVE EXTENSION UNIVERSITY OF CALIFORNIA

CONTRA COSTA COUNTY

## TREE PEST UPDATES

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Knightsen Farm Center, Delta Rd. & 2nd St., Knightsen

May 1, 2017

### PEACH TWIG BORER

HOST CROPS: Almonds, Apricots, Peaches, Nectarines, Plums

BIOFIX: Flight started in most orchards between April 3rd and 6th. I’m setting a general areawide biofix of April 4. If your own traps show that consistent flight started on a different day in your orchard, use that as your own orchard biofix.

TREATMENT AND TIMING: In-season sprays may be needed to protect fruit and nuts from damage only if you have significant trap counts. This will be especially important if you did not apply a dormant spray or bloom sprays for PTB. Effective control can be achieved by applying most sprays 400-500 degree days (DD) after biofix. This is projected to occur May 10 - 17 OR 36-43 days after your own orchard biofix. If weather is warmer than average or in orchards with heavy flight, spray during the earlier part of the window. If weather is cooler than normal or in orchards with light populations, spray later in the window.

The table below lists some of the materials which can be used to control PTB. If you are close to harvest, select a material with a sufficient Pre-harvest Interval for that crop (double check the figures below with your label). Delegate, Altacor, Belt, Entrust, Intrepid and BT can be very effective, have very low human toxicity, and are less likely to disrupt beneficial insects. Note the variation in treatment timing for BT and Intrepid in the table below. More information can be found at the UC IPM website: <http://www.ipm.ucdavis.edu>

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Material | Treatment Timing | | | Almond | Apricot | Nectarine & Peach | Plum |
| Degree Days | Expected Dates | Days after biofix | Pre-Harvest Interval (days) | | | |
| Delegate | 400-500 | 5/10 - 5/17 | 36 - 43 | 1 | 14 | 1 | 7 |
| Altacor | 400-500 | 5/10 - 5/17 | 36 - 43 | 10 | 10 | 10 | 10 |
| Belt | 400-500 | 5/10 - 5/17 | 36 - 43 | 14 | 7 | 7 | 7 |
| Entrust 2 | 400-500 | 5/10 - 5/17 | 36 - 43 | 1 | 14 | 1 | 7 |
| Intrepid | 300-400 | 5/3 – 5/10 | 29 - 36 | 14 | 7 | 7 | 7 |
| BT 2 | 300 & 500 | 5/3 & 5/17 | 29 & 43 | 0 | 0 | 0 | 0 |
| Imidan3 | 400-500 | 5/10 - 5/17 | 36 - 43 | 30 | 14 | 14 | 7 |
| Asana 1 | 400-500 | 5/10 - 5/17 | 36 - 43 | 21 | 14 | 14 | 14 |
| Warrior (Lambda) | 400-500 | 5/10 - 5/17 | 36 - 43 | 14 | 14 | 14 | 14 |

NOTES: 1 toxic to mite predators - may increase mite problems

2 organically acceptable material

3 acidify water to 5.0 or below before adding material

*Mating Disruption* materials are also available and can be effective in controlling PTB in orchards larger than 5-10 acres. They should have been applied before biofix. Think about this option for next year.