

TREE PEST UPDATES

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May 26, 2000

CODLING MOTH

HOST CROPS: Apple, Pear, Walnut

1B BIOFIX: In recent years many orchards have seen a resumption of flight around 600-700 DD. This is still part of the overwintering generation (or first flight) which is just coming out of winter rest later than usual. We have begun calling this the 1B flight. Many orchards started showing an increase in trap catches around **May 18**, indicating a 1B flight. Not all orchards will have this flight but those that do may want to consider treatment. If you have little or no 1B flight, wait until the 2nd generation to treat. With “normal” weather, the 2nd generation flight is predicted to occur mid June with traditional spray treatments going on at the end of June or beginning of July.

TREATMENT TIMING:

APPLES & PEARS: If you have a 1B flight and the residual from your first spray is gone, retreat at 250 DD or about **12 calendar days** from the beginning of the new flight in your own orchard. If your flight started on May 18th, this should occur about **May 31st**.

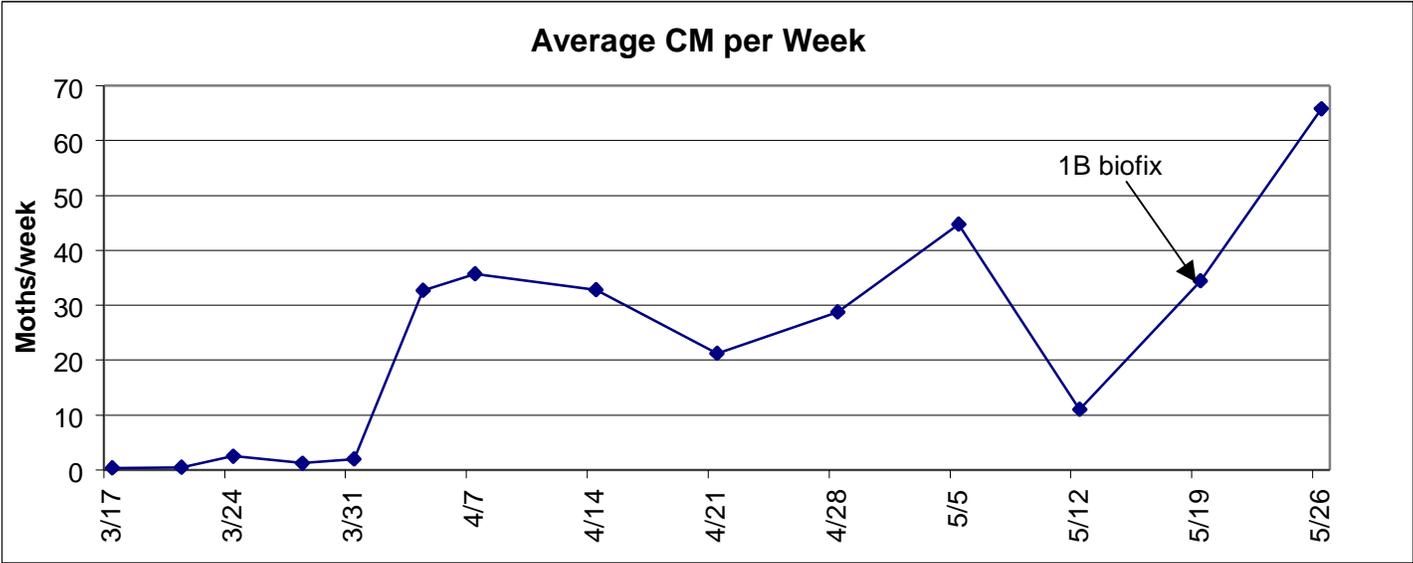
WALNUTS: If you had greater than 3% worm damage last season, you may want to treat a significant 1B flight. Spray when the residual from the 1A spray ends or 300 DD (about **15 calendar days**) from the beginning of the 1B flight. If your flight started on May 18th, this should occur about **June 3rd**. Do not spray if there is no 1B flight.

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.

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