

## Tree Fruit Pest and Disease Management Advisory - Tim Smith, WSU Extension

Date of Advisory: August 16, 2004

Not current after seven days.

**Codling Moth:** This time of year, the codling moth situation becomes quite variable, and must be treated on a site by site basis. The model information is useful, but it is less accurate than it was during May, June and July. There are significant differences caused by geographical features, such as altitude, air drainage, slope aspect and, especially, the number of codling moth that survived the control programs (or lack of control programs) in your area. These differences cause minor variation in the early season, but the factors build up as the season continues. You must monitor your orchard with traps and observe your fruit for "stings" to know what this pest is doing this late in the season. Codling Moth control seems to have improved this year, compared to the last two seasons, but "hot spots" remain.

The model indicates some general trends that are important this year. Last year, we experienced a "long, hot" codling moth season, and a significant part of a third generation of codling moth emerged in Mid-August and September. This year, the model indicates that the development of the codling moth is four days ahead of last year in the warmest, Southern Basin sites and Mattawa. It is about two days ahead of last year at the WSU TFREC, Manson, and the Wenatchee airport. It is four or five days ahead of last year at Oroville, Tonasket, and Pogue Flats (Omak). Expect another exceptionally extended season this year, with a significant third generation in warm and moderately warm sites.

In early, warm areas of the state, adult flight for the third generation is already at 40% of the potential. If there is an up-coming problem with this pest, the traps should have become very active during this past week. If codling moth are present, the period August 15 through mid-September will call for careful control. In lower elevations of the Wenatchee district, adult flight for the next generation is starting to increase rapidly, and traps should show where high numbers of cm are flying now and this next week. The critical period for control of third generation in this area is August 20 through September 20. The middle to higher elevation cooler sites in the Wenatchee district is nearing the end of egg hatch for the second generation, and won't see third generation adults increasing until the last ten days of August. If trap catch indicates a problem in these areas, control would be called for from early September until the weather turns quite cool in September.

"Stings" should be visible where control has not been adequate. "Stings" are actually the early signs of the newly hatched larvae entering the fruit. When a cm egg hatches, the larva often manages to damage the fruit, even if it dies soon after chewing through the skin. This damage is often most visible on Golden Delicious fruit this time. If you are catching high numbers of adults in your traps, but see few stings, this may indicate that the males in the traps are coming from some distant source. Male codling moth fly much farther than females. Males have been trapped over two miles from where they were released. Females tend to fly downwind until they find the first host trees, then settle down to lay eggs in a very local area. If the cm problem is local, you will see large emergence holes in the fruit.

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Site	Current Codling Moth Degree Days (8/16)	C Moth Current % Adult flight emerged	% Codling Moth egg hatch last week	C. Moth current total % egg hatch for 2 <sup>nd</sup> generation	Date of 98% 2 <sup>nd</sup> Gen Codling Moth Egg Hatch & 5% of 3 <sup>rd</sup>
Tri-Cities area	2368	16% of 3 <sup>rd</sup>	7	2% of 3 <sup>rd</sup>	8/5 - 8/12
Mattawa PAWS	2017	10% of 3 <sup>rd</sup>	7	99	8/8 - 8/15
Royal City	NA				
Quincy (warm)	2030	5% of 3 <sup>rd</sup>	9	95	8/10 - 8/18
Wenatchee Airport	1954	2% of 3 <sup>rd</sup>	13	93	8/13 - 8/21
WSU-TFREC	2007	4% of 3 <sup>rd</sup>	9	95	8/11 - 8/19
Baker Flat	2046	6% of 3 <sup>rd</sup>	8	96	8/10 - 8/17
Om ak - Pogue Fl.	1672	91% of 2 <sup>nd</sup>	23	65	9/1 - 9/15
Manson 1700 Ft.	1738	94% of 2 <sup>nd</sup>	21	73	8/24 - 9/3
Tonasket - Ellisforde	1834	98% of 2 <sup>nd</sup>	18	84	8/18 - 8/27
Oroville - PAWS	1955	2% Of 3 <sup>rd</sup>	13	93	8/13 - 8/21

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