



Tree Fruit IPM Advisory: August 23rd, 2006

Past IPM advisories are archived at:

<http://extension.usu.edu/cooperative/ipm/index.cfm/cid.610/>

Note: Please let us know by replying to this email if you see any fruit tree pest problems not covered in this advisory or if need more information on a topic. Diane

*******Insect Advisory*******

CODLING MOTH (Apple and Pear): Codling moth development is slowing down and daily DD accumulations have dropped to 18-21 DDs per day. Egg hatch of the 3rd generation is underway (see CM table below). There won't be a 3rd generation in Cache County or in Alpine and West Mountain in Utah County.

For sites with a 3rd generation, keep apple and pear fruit protected through Sep 15 or harvest whichever comes first. After Sep 15, emergence of codling moth larvae from eggs should be completed for the season. For sites without a 3rd generation, fruit should remain protected through the end date of larval emergence for the 2nd generation (see CM table below). Harvest dates of apples and pears and preharvest intervals of insecticides (PHI: required interval between last application and picking fruit) need to be considered when applying late season insecticides.

Insecticides effective for codling moth in commercial orchards and recommended near harvest include Assail (7 d PHI), Imidan (7 d PHI), Intrepid (14 d PHI), and codling moth granulosis virus (see label). PHIs for Guthion and Calypso are 21 d and 30 d, respectively, so they may not be a good fit for late season control. Homeowners can find a list of effective insecticides in the Utah Home Orchard Pest Management Guide: <http://extension.usu.edu/files/publications/homeorchard20061.pdf>.

Codling Moth (CM) Phenology Table

<u>DDs Since Biofix</u>	<u>Projected End of 2nd Gen.*</u>	<u>Projected Onset of 3rd Gen.**</u>	<u>% Egg Hatch of 3rd Gen.^</u>
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Box Elder County

Perry	2368	Aug 10	Aug 11	>10%
Cache County				
Logan	1845	Sep 7	--	--
North Logan	1786	Sep 10	--	--
Davis County				
Kaysville	2237	Aug 15	Aug 17	3%
Salt Lake County				
Salt Lake City	2523	Aug 5	Aug 6	>10%
Utah County				
Alpine	1990	Aug 27	--	--
Genola	2184	Aug 16	Aug 20	2%
Payson	2146	Aug 19	Aug 22	0%
Provo (bench)	2218	Aug 16	Aug 18	3%
Santaquin	2195	Aug 17	Aug 19	2%
West Mountain	1939	Sep 1	--	--

*Projected end of 2nd generation = 99% egg hatch completed.

**Projected 1% egg hatch of 3rd generation.

^Percentage of 3rd generation eggs that have hatched.

Also, you can go to the “Orchard Spray Timing” tables posted on the IPM website to track the rate of codling moth development for your area:

<http://extension.usu.edu/cooperative/ipm/index.cfm/cid.645/>. Select 2nd and 3rd Generation CM in the right column and then the most recent date

PEACH TWIG BORER (Peach, Nectarine, and Apricot): The 3rd generation of PTB is underway (see PTB table below). If fruit hasn’t been picked then it should be protected through Sep 15 or through harvest, whichever comes first. Be sure to consider the preharvest intervals of insecticides (required interval between last application and picking fruit) when applying late season insecticides.

Peach Twig Borer (PTB) Phenology Table

	<u>DDs Since Biofix</u>	<u>Projected Onset of 3rd Gen.*</u>	<u>% Egg Hatch of 3rd Gen.^</u>
Box Elder County			
Perry	2220	Aug 18	12%
Davis County			
Kaysville	2110	Aug 22	3%
Utah County			
Alpine	1883	Sep 3	0%
Genola	2108	Aug 23	3%

Lincoln Point	2019	Aug 30	1%
Payson	2082	Aug 23	3%
Provo (bench)	2227	Aug 17	13%

*Projected 5% egg hatch of 3rd generation.

^Percentage of 3rd generation eggs that have hatched.

Also, you can go to the “Orchard Spray Timing” tables posted on the IPM website to track the rate of PTB development for your area:
<http://extension.usu.edu/cooperative/ipm/index.cfm/cid.645/>. Select 2nd or 3rd Generation PTB in the right column and then the most recent date

Insecticides effective for preventing twig borer larvae in fruit include Success, Intrepid, Imidan, and Thionex. Pyrethroid insecticides (Asana, Pounce, Ambush) should be avoided at this time of year as they are harsh on predatory mites that provide biological control of spider mites.

SPIDER MITES: Spider mite reproduction is slowing down. Orange-colored adult females that will overwinter on the lower trunks and on debris and groundcover near trunks can be observed as daylength shortens in late August and September. If spider mite densities are high, a late season treatment may be helpful, but it is uncommon to need to treat for spider mites after approx. mid August as reproduction slows dramatically and adult females transform into their diapausing (overwintering) state. See archived advisories for miticide recommendations if needed.

BOXELDER BUGS and EARWIGS: Boxelder bugs and earwigs can be late-season threats to peaches. If there is a problem with large numbers of boxelder bugs or earwigs in the canopy, then a treatment of Pyganic, Lannate, Ambush/Pounce, or Sevin should provide some suppression (Lannate will also take care of problematic thrips populations, which may be a concern for nectarine or plum growers). Remember that Ambush, Pounce, and Sevin are toxic to predatory mites and may reduce overwintering populations that will contribute to mite control next season. Earwigs and boxelder bugs can feed directly on peaches, but these insects usually don't become interested in the fruit until it's nearly ripe. Fruit injury from earwigs is typically small, deep pits (1/4-1/2 inch deep) in the surface of the peach, usually with some relatively large frass pellets scattered within the pit (and no webbing present). Beat-samples or close examinations of fruit (especially split-pits) will determine if earwigs are present.

[A possible upcoming pest concern:](#)

ERIOPHYID MITES: This group of mites (also known as blister mites, peach silver mites, and cherry rust mites) is generally neutral-to-good because while they do feed on leaves and sometimes fruit, they serve as alternate food sources for predatory mites when spider mites aren't around. As an alternate food source, they keep predatory mite numbers higher so that they can more effectively exploit spider mites. However, populations of blister mites can become excessive, especially in pears because pear leaves are somewhat sensitive to feeding injury. September and October are when female

pearleaf blister mites (and other eriophyid mites) travel from leaves to buds where they'll overwinter under bud scales. If a grower has had substantial trouble with blister mites, then it might be wise to apply a spray of horticultural oil (2 % by volume) soon after leaves begin to senesce (take on fall colors). This will target the mites during the commute from leaves to buds. Otherwise, a spring application of oil will target these mites as buds open and leaves emerge.

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