Codling Moth and Peach Twig Borer Timing Dates

August 22, 2005

Codling Moth

Today is the photoperiod (day length) deadline for triggering emergence of 3rd generation codling moth. If 1920 degree days (DD) has been reached by today, then there is likelihood of a small 3rd generation. A small 3rd generation of codling moth is predicted for seven monitoring sites in northern Utah: West Valley City, Salt Lake City, Pleasant View, Perry, Orem, Provo, and Kaysville. From 4-29% of the 3rd generation moths have already emerged at these seven sites (see table below). A 3rd generation should not occur in other northern Utah monitoring sites. Egg hatch of the 2nd generation ranges from 48-100%. Fruit should remain protected through 2100 DD (see table below for predicted end dates for 2nd generation). Harvest dates of apples and pears and preharvest intervals of insecticides (required interval between last application and picking fruit) need to be considered when applying late season insecticides.

2nd and 3rd generation of Codling Moth

Location	DD	% egg hatch	Predicted onset and end dates (2nd gen.)	% adult emergence & predicted onset date (3rd gen.)
Perry	2050	97%	Jul 15/ Aug 24	8% / Aug 26
Logan(Airport)	1570	48%	Jul 27/ Sep 11	0% / no 3rd gen.
Kaysville	2006	95%	Jul 16 / Aug 25	4% / Aug 28
Salt Lake City	2234	completed	Jul 12 / Aug 16	23% / Aug 18
West Valley City	2280	completed	Jul 11 / Aug 15	29% / Aug 17
Alpine	1686	66%	Jul 25 / Sep 6	0% / no 3rd gen.
Lincoln Point	1767	77%	Jul 23 / Sep 3	0% / no 3rd gen.
Orem	2016	95%	Jul 14 / Aug 25	4% / Aug 28
Payson	1912	90%	Jul 18 / Aug 29	0% / no 3rd gen.
Provo	1996	95%	Jul 14 / Aug 26	4% / Aug 29
Santaquin	1839	85%	Jul 18 / Aug 31	0% / no 3rd gen.

West Mountain	1787	80%	Jul 18 / Sep 1	0% / no 3rd gen.
Pleasant View	2114	100%	Jul 14 / Aug 21	11% / Aug 24

Peach Twig Borer

A 3rd generation of peach twig borer (PTB) is underway in the two warmest northern Utah monitoring sites: West Valley City and Salt Lake City (see table below). Egg hatch of the 2nd generation of PTB is 18-100% completed in monitoring sites in northern Utah. Peach and nectarine fruits should generally be protected from PTB through harvest, however, orchards with good PTB control in the first two generations may have minimal populations and late season control may not be necessary. See below for predicted onset and end dates for 2nd generation, and onset dates for 3rd generation of PTB. Predicted dates are based on an average of 25 DD per day.

2nd and 3rd generation of Peach Twig Borer

Location	DD	% egg hatch (2nd gen.)	Predicted onset and end dates (2nd gen.)	Predicted onset date (3rd gen.)
Perry	1877	99%	Jul 25/ Aug 20	Sep 2
Logan (Airport)	1311	18%	Aug 13 / Sep 11	no 3rd gen.
Kaysville	1822	98%	Jul 26 / Aug 22	Sep 3
Salt Lake City	2136	completed	Jul 18 / Aug 10	Aug 22
West Valley City	2163	completed	Jul 11 / Aug 9	Aug 21
Alpine	1618	82%	Jul 29 / Aug 31	Sep 12
Lincoln Point	1649	87%	Jul 29 / Aug 28	Sep 8
Orem	1753	95%	Jul 28 / Aug 25	Sep 6
Payson	1764	96%	Jul 27 / Aug 25	Sep 6
Provo	1719	94%	Jul 29 / Aug 27	Sep 8
Pleasant View	1840	99%	Jul 27 / Aug 22	Sep 3

Precautionary Statement: All pesticides have benefits and risks, however following the label will maximize the benefits and reduce risks. Pay attention to the directions for use and follow precautionary statements. Pesticide labels are considered legal documents containing instructions and limitations. Inconsistent use of the product or disregarding the label is a violation of both federal and state laws. The pesticide applicator is legally responsible for proper use. Any mention of a pesticide brand in this document is not an endorsement by USU, and brand lists are not all-inclusive.