



Tree Fruit IPM Advisory: June 27th, 2006

Past IPM advisories are archived at:

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

*******News Alert!*******

Please send in any biofix date information for greater peachtree borer (GPTB). No adults have been caught yet at the USU Kaysville Research Farm.

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

Degree-days, spray dates, and fruit protection intervals are being updated twice per week (Mondays and Fridays). Visit the Orchard Spray Timing Tables for the latest updates at: <http://extension.usu.edu/cooperative/ipm/index.cfm/cid.645/> (Select 1st and 2nd generation CM or PTB in the right-side column).

CODLING MOTH (Apple and Pear): In northern Utah, adult moth emergence of the 1st generation of codling moth is 97-100% completed. Larval emergence of the 1st generation is 78-99% completed. Refer to the CM table below for information for each monitoring site. It is important to keep fruit protected from larval entry through the end of egg hatch, but numbers of eggs hatching should now be declining or at a very low point until the beginning of 2nd generation egg hatch. Moth emergence of the 2nd generation begins at 860 DD after biofix, so the beginning of the 2nd generation moth flight has begun in the warmer locations: Perry, Salt Lake City, and Genola. Larval emergence of the 2nd generation is predicted to begin July 2nd in Salt Lake City, July 5th in Perry and Genola, July 8th in Kaysville, Payson, Provo, and Santaquin, and from July 10th to 22nd in cooler locations (see table below). Therefore, there will be a 7-8 day “break” between generations when fruit protection is not necessary.

Summary of Codling Moth DDs, Projected End of 1st Generation, and Beginning of 2nd Generation Larval Emergence

	<u>DDs Since Biofix</u>	<u>% Moth Flight of 1st Gen[^].</u>	<u>% Egg Hatch of 1st Gen.^{^^}</u>	<u>Projected End of 1st Gen.*</u>	<u>Projected Onset of 2nd Gen.**</u>
Box Elder County					
Perry	893	100%	98%	Jun 27	Jul 5

Cache County					
Logan	650	98%	81%	Jul 12	Jul 20
North Logan	623	97%	78%	Jul 13	Jul 22
Davis County					
Kaysville	793	100%	81%	Jul 1	Jul 8
Salt Lake County					
Salt Lake City	944	100%	99%	Jun 25	Jul 2
Utah County					
Alpine	696	99%	86%	Jul 6	Jul 13
Genola	867	100%	97%	Jun 28	Jul 5
Payson	810	100%	95%	Jul 1	Jul 8
Provo (bench)	797	100%	95%	Jul 1	Jul 8
Santaquin	813	100%	95%	Jul 1	Jul 8
West Mountain	739	100%	91%	Jul 3	Jul 10

^ The percentage of 1st generation adult moths that have emerged.

^^ The percentage of 1st generation eggs that have hatched.

* Projected end of 1st generation = 99% egg hatch completed.

** Projected onset of 2nd generation = 1% egg hatch of 2nd generation.

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 1st and 2nd Generation CM in the right column and then the most recent date.

Refer to past advisories for a listing of insecticides recommended to control codling moth in commercial and home orchards.

PEACH TWIG BORER (Peach, Nectarine, and Apricot): Emergence of 1st generation adult peach twig borer moths is completed for all northern Utah sites with monitoring information (see PTB table below). Egg hatch (i.e., larval emergence) is 86-100% completed. Insecticides to protect fruit from tunneling larvae should have been applied by 300-400 DDs (5-28% egg hatch) after biofix and then repeated based on the protection longevity of the product if necessary to prevent wormy fruit throughout the 1st generation. The beginning of the 2nd generation egg hatch (5% egg hatch at 1200 DD) will be reached in mid July (Jul 12-21) (see PTB table below). Protection of fruit with insecticides should once again be initiated at this point.

Summary of Peach Twig Borer DDs, Projected End of 1st Generation, and Beginning of 2nd Generation Larval Emergence

<u>DDs Since Biofix</u>	<u>% Moth Flight of 1st Gen.^</u>	<u>% Egg Hatch of 1st Gen.^^</u>	<u>Projected End of 1st Gen.*</u>	<u>Projected Onset of 2nd Gen.**</u>
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Box Elder County

Perry	745	100%	99%	Jun 25	Jul 15
Davis County Kaysville	666	100%	95%	Jun 29	Jul 17
Utah County					
Alpine	589	100%	86%	Jul 2	Jul 21
Genola	791	100%	99%	Jun 23	Jul 13
Lincoln Point	716	100%	97%	Jun 27	Jul 15
Payson	746	100%	99%	Jun 26	Jul 15
Provo (bench)	805	100%	100%	Jun 22	Jul 12

^ The percentage of 1st generation adult moths that have emerged.

^^ The percentage of 1st generation eggs that have hatched.

* Projected end of 1st generation = 99% egg hatch completed.

** Projected onset of 2nd generation = 5% egg hatch of 2nd generation

Also visit the PTB phenology table to check the projected developmental status of PTB in your area: <http://extension.usu.edu/cooperative/ipm/index.cfm/cid.645/>. Select 1st and 2nd generation PTB to view the most recent tables.

Refer to past advisories for a listing of insecticides recommended to control peach twig borer in commercial and home orchards.

WESTERN CHERRY FRUIT FLY (Sweet and tart cherry): Western cherry fruit fly adult trap catch was generally low but consistent across orchards in northern Utah last week. Cherry fruits are now highly susceptible to egg-laying by female flies. Keep fruit protected through harvest. Insecticides with short preharvest intervals (PHIs) should be used as fruit nears harvest (insecticides and PHIs): GF-120-4 hr, Sevin-3 days, Ambush and Pounce-3 days, Success and Entrust-7 days, Provado-7 days, and Imidan on tart cherries-7 days. Sevin, Ambush, Pounce, and Provado can flare spider mites, so limit use of these insecticides when temperatures rise above 85°F because spider mites reproduce rapidly under hot conditions.

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