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Upcoming Monitoring/Insect Activity

| | |
|-------------------------|--|
| Peach twig borer | Second generation flight begins at 900 DD (after biofix) |
| Codling Moth | Second generation egg hatch begins at 1100 DD (after biofix) |
| Greater Peachtree Borer | Moth flight continues until mid-September |

Jump to Treatment Timings:

- [Codling Moth - Commercial](#)
- [Codling Moth - Homeowner](#)
- [Peach Twig Borer - Commercial](#)
- [Peach Twig Borer - Homeowner](#)

Attention COMMERCIAL GROWERS: Please see calendar announcements on [page 5](#).

Degree Day Accumulations, as of Thursday, July 5

| County | Location | Codling Moth, Peach Twig Borer (Base 50°F) | | | Western Cherry Fruit Fly (Base 41°F) |
|------------------|------------------|---|---------------------|----------------------|---|
| | | DD since March 1 | CM DD since biofix* | PTB DD since biofix* | DD since March 1 |
| Box Elder | Perry | 1361 | 1178 | 1012 | 2226 |
| Cache | North Logan | 991 | 854 | 693 | 1681 |
| | Richmond | 1133 | 878 | 729 | 1886 |
| | River Heights | 1196 | 913 | 759 | 1935 |
| Carbon | Price | 1397 | 1127 | ---- | 2218 |
| Davis | Kaysville | 1311 | 1108 | 927 | 2166 |
| Juab | Tintic | 1542 | ---- | ---- | 2800 |
| Salt Lake | SLCC | 1541 | 1277 | | 2468 |
| | West Valley City | 1516 | 1262 | 1064 | 2441 |
| Tooele | Erda | 1653 | 1249 | ---- | 2565 |
| | Grantsville | 1707 | 1302 | ---- | 2657 |
| | Tooele | 1669 | 1283 | ---- | 2588 |
| Utah | Alpine | 1200 | 998 | 834 | 2020 |
| | Genola | 1392 | 1151 | 971 | 2244 |
| | Lincoln Point | 1263 | 1051 | 877 | 2094 |
| | Orem | 1414 | 1197 | 955 | 2286 |
| | Payson | 1384 | 1179 | 1026 | 2229 |
| | Provo | 1421 | 1075 | 950 | 2292 |
| | Santaquin | 1273 | 1093 | 934 | 2094 |
| West Mountain | 1229 | 977 | 835 | 2033 | |
| Weber | Pleasant View | 1414 | 1246 | 1062 | 2286 |

*“Base 41F” and “base 50F” refer to the lower temperature threshold at which insects develop; ***Biofix** is the date of moth flight. (=Codling Moth, PTB=Peach Twig Borer)

Insect Activity

APPLES AND PEARS

Codling Moth (CM):

Treatment timings have begun for egg hatch of second generation codling moth. Be sure to keep your fruit protected up until harvest.

[Click here](#) for the USU codling moth fact sheet

PEACHES AND NECTARINES

Peach Twig Borer (PTB):

Second generation flight of PTB is just about under way, except in Cache County.

Continue to monitor for shoot strikes and prune these out as they become visible.

[Click here](#) for the USU peach twig borer fact sheet.

Greater Peachtree Borer (GPTB):

Continue treatment of peaches, nectarines, and apricots by spraying the lower 2-3 feet of your tree trunk. Growers in Cache County should start spraying your trees now.

[Click here](#) for the USU greater peachtree borer fact sheet.

Current Spray Timings - Commercial Growers

Note that these treatments are only recommended if you know you have the particular pest in your trees.

Codling moth Second Generation:

The projected timing dates of the spray periods shown below will be updated each week. Beginning of 2nd generation egg hatch is 1100 DD after biofix. The critical period of protection corresponds to the period 1320-1720 DD, when the rate of egg hatch is the highest. The end of egg hatch for the second generation is 2100 DD after biofix.

| County | City | Beginning of 2nd Generation Egg Hatch | Critical Period of Protection | End of Second Generation |
|-----------|-------------------------|---------------------------------------|-------------------------------|--------------------------|
| Box Elder | Perry, Willard, Brigham | July 2 | July 11 - 26 | August 10 |
| Cache | North Logan | July 17 | July 27 - August 15 | September 5 |
| | Richmond | July 15 | July 25 - August 14 | September 4 |
| | River Heights | July 14 | July 24 - August 12 | September 1 |
| Carbon | Price | July 4 | July 14 - August 2 | August 20 |
| Davis | Kaysville | July 5 | July 14 - July 29 | August 13 |
| Salt Lake | Salt Lake City | June 29 | July 6 - 22 | August 3 |
| | West Valley City | June 29 | July 7 - 21 | August 4 |
| Tooele | Erda | June 30 | July 8 - 22 | August 4 |
| | Grantsville | June 28 | July 5 - 20 | August 2 |
| | Tooele | June 28 | July 9 - 21 | August 3 |
| Utah | Alpine | July 9 | July 18 - August 3 | August 19 |
| | Genola | July 2 | July 11 - 27 | August 11 |
| | Lincoln Point | July 7 | July 15 - 31 | August 15 |
| | Orem | July 1 | July 9 - 25 | August 9 |
| | Payson | July 1 | July 10 - 27 | August 11 |
| | Provo | July 6 | July 14 - 30 | August 14 |
| | Santaquin | July 5 | July 14 - 30 | August 15 |
| | West Mountain | July 10 | July 18 - August 3 | August 18 |
| Weber | Pleasant View | June 29 | July 8 - 23 | August 7 |

Materials for codling moth control:

eggs: Rimon, Horticultural oil, Esteem, Confirm, Intrepid, Azatin

larvae: Assail, Asana, Calypso, Carbaryl, Clutch, Diazanone, Guthion, Codling Moth Granulosis Virus, Imidan, Intrepid, Warrior, Sevin, Malathion

Greater Peachtree Borer

chlorpyrifos (Lorsban), endosulfan (Thionex, Phaser), carbaryl (Sevin), lambda-cyhalothrin (Warrior), permethrin (Ambush, Pounce, many brands)

Rosy and Green Apple Aphids:

Provado, Thiodan

Spider Mites:

Acramite, Envidor, FujiMite, Savey, Zeal

San Jose Scale:

acetamiprid (Assail), carbaryl (Sevin), diazinon, esfenvalerate (Asana), imidacloprid (Provado, Merit), pyriproxyfen (Esteem), hort. oil

Current Spray Timings - Commercial Growers, continued

Note that these treatments are only recommended if you know you have the particular pest in your trees.

Peach Twig Borer, Second Generation:

The projected timing dates of the spray periods shown below will be updated each week. The spray date represents 1200 DD after biofix, when 5% of eggs have hatched.

| County | City | Beginning Spray Date. Second Generation |
|-----------|-------------------------|--|
| Box Elder | Perry, Willard, Brigham | July 12 |
| Cache | North Logan | July 29 |
| | Richmond | July 27 |
| | River Heights | July 26 |
| Davis | Kaysville | July 16 |
| Salt Lake | Salt Lake City | July 9 |
| | West Valley City | July 10 |
| Utah | Alpine | July 20 |
| | Genola | July 14 |
| | Lincoln Point | July 18 |
| | Orem | July 15 |
| | Payson | July 12 |
| | Provo | July 15 |
| | Santaquin | July 16 |
| | West Mountain | July 19 |
| Weber | Pleasant View | July 11 |

Materials for peach twig borer control:

-same as codling moth materials

Western Cherry Fruit Fly:

imidacloprid (Merit, Provado-every 14 days), phosmet (Imidan-every 14 days, but not on sweet cherry), chlorpyrifos (Lorsban-every 14 days but not on sweet cherry), diazinon (every 14 days), spinosad (GF-120, Success), permethrins

White Apple Leafhopper:

carbaryl, cyfluthrin (Baythroid), endosulfan (Thionex), novaluron (Rimon), permethrin

Cherry Powdery Mildew:

azoxystrobin (Amistar), boscalid (Pristine), fenarimol (Rubigan), myclobutanil (Laredo), propiconazole (Orbit), quinoxyfen (Quintec), triadimefon (Bayleton), trifloxystrobin (Flint), triflumizole (Procure)

Calendar Information for Commercial Growers

UPCOMING ACTIVITIES:

Utah Orchard Tree Fruit Tour:

Thursday, August 2, 3:00 pm,

Commercial growers are invited to attend a field tour and discussion at three orchard locations in Utah and Juab Counties:

Tart Cherry Orchard in Tintic: Growers and Farm Owners Phil and Thad Rowley discuss their use of center-pivot irrigation in a harsh, dry environment. In addition, Extension Fruit Specialist Brent Black discusses other irrigation techniques and Extension Entomologist Diane Alston discusses research on attractants for trapping and managing western cherry fruit fly.

Apple Site at Orchard in Genola: Grower and Farm Owner Dale Rowley discusses his codling moth program, use of puffers (a newer mating disruption dispenser), and monitoring program. Diane Alston discusses her latest research on codling moth monitoring in mating disrupted orchards.

Apple site at Orchard in West Mountain: Grower Chris Wall, Horticultural Consultant Earl Seeley, and Extension Specialist Kent Evans discuss this season's fire blight problem, control and management practices, and where we go from here. Other disease problems may be discussed.

We hope you can join us! Travel is on your own/carpool. Refreshments will be provided. Directions and start location will be announced in a separate flier.

Utah Berry Growers Summer Tours

Bear Lake Tour, Thursday, July 26, 5:00 – 7:00 p.m.

The tour will begin at Roger Earley's farm on West Round Valley Road in Laketown. We will be looking at the USU variety trial at that location, discussing weed, disease and insect pest management, and irrigation scheduling. We are also planning additional stops in the Laketown area as time permits.

Driving directions:

Turn South off Highway 30 in Laketown. Turn right at the stop sign onto Center Street/North Round Valley Road. Follow North Round Valley Road approximately 3 miles to the T intersection at West Round Valley / Meadowville Road. Turn left on West Round Valley and travel about 1.4 miles until you see the raspberry fields on the west side of the road.

Utah County Tour, Wednesday, August 22, 3:00 – 5:00 p.m.

Vern Stratton will be hosting the tour, with the first stop at his field just east of State Street (US 89) on 1360 North Street in Orem. We will be looking at strawberry and fall raspberry production, and discussing insect pests and irrigation management. Vern will also be talking about his peach production, and has agreed to share some of his wealth of experience in growing and marketing fresh fruit.

Driving Directions:

Take State Street in Orem to West 1360 North. Go one block east on 1360 North. The paved road turns to the left, but continue straight through the gate.

Current Spray Timings - Homeowners

Note that these treatments are only recommended if you know you have the particular pest in your trees.

Codling moth Second Generations:

The projected timing dates of the spray periods shown below will be updated each week. The “beginning spray date” is at 1100 DD after biofix, when the next batch of larvae begin hatching, and the “ending spray date” is 2100 DD after biofix, when the eggs finish hatching.

Read your pesticide label for residual period (length of time it is effective) and re-apply at the given interval from beginning date to ending date, so that fruit is protected during this entire period.

| County | City | Beginning Spray Date | Ending Spray Date |
|-----------|---------------------------|----------------------|-------------------|
| Box Elder | Perry, Willard, Brigham | July 2 | August 10 |
| Cache | North Logan | July 17 | September 5 |
| | Richmond | July 15 | September 4 |
| | River Heights | July 14 | September 1 |
| Carbon | Price | July 4 | August 20 |
| Davis | Kaysville | July 5 | August 13 |
| Salt Lake | Salt Lake City (estimate) | June 29 | August 3 |
| | West Valley City | June 29 | August 4 |
| Tooele | Erda | June 30 | August 4 |
| | Grantsville | June 28 | August 2 |
| | Tooele | June 28 | August 3 |
| Utah | Alpine | July 9 | August 19 |
| | Genola | July 2 | August 11 |
| | Lincoln Point | July 7 | August 15 |
| | Orem | July 1 | August 9 |
| | Payson | July 1 | August 11 |
| | Provo | July 6 | August 14 |
| | Santaquin | July 5 | August 15 |
| | West Mountain | July 10 | August 18 |
| Weber | Pleasant View | June 29 | August 7 |

Materials for codling moth control:

| Chemical | Example Names | Protection Period |
|-------------------------------|--|------------------------|
| carbaryl | Sevin, Bayer Advanced Complete Insect Killer, etc. | 7-14 days (read label) |
| malathion | Bonide Malathion, Hi-Yield 55% Spray, | 7-14 days (read label) |
| <i>Bacillus thuringiensis</i> | Dipel | 3-6 days (read label) |
| spinosad | Success, Entrust | 3-6 days (read label) |
| CM granulosis virus | Virusoft | 10-14 days |
| kaolin clay | Surround | 5-7 days |

Greater Peachtree Borer

carbaryl (Sevin), permethrin (many brands) (just spray the bottom 2-3 feet of the tree trunk, and maintain protection through mid-September)

Rosy and Green Apple Aphid:

malathion (Ferti-lome Mal-a-cide, etc.), pyrethrin (Hi-Yield Rose and Flower Spray, etc.)

Current Spray Timings - Homeowners, continued

Peach Twig Borer, Second Generation:

The projected timing dates of the spray periods shown below will be updated each week. The spray date for the second generation represents 1200 DD after biofix, when 5% of eggs have hatched. For materials that last fewer than 10 days, apply a second spray.

| County | City | Beginning Spray Date, Second Generation |
|-----------|-------------------------|---|
| Box Elder | Perry, Willard, Brigham | July 12 |
| Cache | North Logan | July 29 |
| | Richmond | July 27 |
| | River Heights | July 26 |
| Davis | Kaysville | July 16 |
| Salt Lake | Salt Lake City (est.) | July 9 |
| | West Valley City | July 10 |
| Utah | Alpine | July 20 |
| | Genola | July 14 |
| | Lincoln Point | July 18 |
| | Orem | July 15 |
| | Payson | July 12 |
| | Provo | July 15 |
| | Santaquin | July 16 |
| | West Mountain | July 19 |
| Weber | Pleasant View | July 11 |

Materials for peach twig borer control are same as for codling moth

Spider Mite Adults:

insecticidal soap, permethrin, malathion, neem oil

Western Cherry Fruit Fly:

spinosad (GF-120, Natural Guard Spinosad, every 7 days), Sevin (every 7 days), permethrins (every 7-14 days)

Cherry Powdery Mildew:

Hi-Yield Lime Sulfur Spray, Bonide Sulfur Dust

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.

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