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## Upcoming Monitoring/Insect Activity

Peach Twig Borer	Third generation flight begins at 1760 DD (after biofix)
Codling Moth	2nd Generation peak egg hatch at 1320-1720 DD (after biofix) 3rd Generation flight begins at 2160 DD (after biofix)
Greater Peachtree Borer	Moth flight continues until mid-September

**Jump to Treatment Timings:**

- [Codling Moth - Commercial](#)
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- [Peach Twig Borer - Commercial](#)
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Attention COMMERCIAL GROWERS: Please see calendar announcement on [page 5](#).

## Degree Day Accumulations, as of Thursday, August 16

County	Location	Codling Moth, Peach Twig Borer (Base 50°F)				
		DD since March 1	CM DD since biofix*	% CM Egg Hatch	PTB DD since biofix*	% PTB Egg Hatch
<b>Box Elder</b>	Perry	2559	2377	11 (3rd)	2211	11 (3rd)
<b>Cache</b>	North Logan	2005	1867	87 (2nd)	1707	92 (2nd)
	Richmond	2215	1960	91 (2nd)	1811	97 (2nd)
	River Heights	2289	2105	96 (2nd)	1951	0 (3rd)
<b>Carbon</b>	Price	2527	2257	7 (3rd)	----	----
<b>Davis</b>	Kaysville	2544	2341	11 (3rd)	2160	7 (3rd)
<b>Juab</b>	Tintic	2110	----	----	----	----
<b>Salt Lake</b>	SLCC	2871	2607	40 (3rd)	2408	40 (3rd)
	West Valley City	2744	2490	29 (3rd)	2292	22 (3rd)
<b>Tooele</b>	Erda	2968	2564	34 (3rd)	----	----
	Grantsville	3004	2599	42 (3rd)	----	----
	Tooele	2983	2599	40 (3rd)	----	----
<b>Utah</b>	Alpine	2262	2059	97 (2nd)	1895	0 (3rd)
	Genola	2514	2273	7 (3rd)	2093	3 (3rd)
	Lincoln Point	2349	2147	0 (3rd)	1963	0 (3rd)
	Orem	2548	2331	13 (3rd)	2089	3 (3rd)
	Payson	2515	2309	8 (3rd)	2157	7 (3rd)
	Provo	2527	2182	4 (3rd)	2056	2 (3rd)
	Santaquin	2397	2217	4 (3rd)	2057	2 (3rd)
West Mountain	2227	1975	94 (2nd)	1833	99 (2nd)	
<b>Weber</b>	Pleasant View	2644	2476	25 (3rd)	2292	20 (3rd)

\*“Base 41F” and “base 50F” refer to the lower temperature threshold at which insects develop;

\***Biofix** is the date of moth flight. (CM=Codling Moth, PTB=Peach Twig Borer)

# Insect Activity

## APPLES and PEARS

### **Codling Moth**

The warm nights has kept codling moth development moving very quickly. The third generation egg hatch is almost complete in Salt Lake and Tooele Counties, but it is not likely that a damaging fourth generation will occur. In addition, second generation egg hatch is almost complete in Cache County, and in West Mountain and Alpine in Utah County. Watch for potential damage from a third generation om those areas. Most larvae of these ending generations will “know” that the days are getting shorter, and that they should enter a “resting stage” for overwintering instead of pupating for emergence later in the season.

Keep in mind the pre-harvest interval for the material you are using, and time your applications based on harvesting dates.

Apples do not need protection after September 15 because there won't be any egg hatch after that date.

## PEACH, NECTARINE, APRICOT



### **Boxelder Bugs**

These plant bugs have been known to cause damage in peaches in Boxelder County in years past, so keep an eye on their activity. They pierce the fruit and suck out the juices. I did not see any damage, but I did see boxelder bugs within the peach orchards in Boxelder County.

If you feel you have a problem with this pest, you can use Prentox Pyronyl Crop Spray (pyrethrin), which can be used up to the day of harvest, or Sevin, which can be used up to 3 days before harvest.

### **Greater Peachtree Borer**

Continue to protect your trees until Sept. 15 by spraying the lower 2-3 feet of peach, nectarine, and apricot tree trunks.

### **Peach Twig Borer**

Third generation egg hatch is underway, or just about beginning in most areas. Those peaches that have not been harvested will still need to be protected.

As with codling moth, be mindful of the pre-harvest interval of the material you are using.

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### **Spider Mites**



Continue to monitor for mites as the hot weather is in their favor. Mite activity was observed on apples and cherries.

## 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 and Third Generations:**

The projected timing dates of the spray periods shown below will be updated each week. 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. The beginning of 3rd generation egg hatch is at 2160 DD after biofix.

County	City	End of Second Generation	Beginning of 3rd Generation Hatch
Box Elder	Perry, Willard, Brigham	August 6	August 8
Cache	North Logan	August 29	----
	Richmond	August 23	----
	River Heights	August 16	----
Carbon	Price	August 11	August 13
Davis	Kaysville	August 8	August 10
Salt Lake	Salt Lake City	July 30	August 1
	West Valley City	August 1	August 4
Tooele	Erda	August 1	August 3
	Grantsville	July 30	August 1
	Tooele	July 31	August 1
Utah	Alpine	August 17	----
	Genola	August 9	August 11
	Lincoln Point	August 14	August 17
	Orem	August 7	August 9
	Payson	August 8	August 10
	Provo	August 12	August 15
	Santaquin	August 12	August 14
	West Mountain	August 21	----
Weber	Pleasant View	August 3	August 5

### **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

### **Cat-Facing Insects:**

chlorpyrifos (Lorsban), endosulfan (Thionex, Phaser), carbaryl (Sevin)

### **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

## Current Spray Timings - Commercial Growers, continued

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

### **PEACHTWIG BORER, Second and Third Generations:**

The projected timing dates of the spray periods shown below will be updated each week. The second generation ending spray date represents 1900 DD (degree days) after biofix, when 100% of eggs have hatched. The third generation spray date represents 2140 DD after biofix, when 5% of third generation eggs have hatched.

County	City	Ending Spray Date, Second Generation	Beginning Spray Date, Third Generation
Box Elder	Perry, Willard, Brigham	August 4	August 14
Cache	North Logan	August 27	----
	Richmond	August 21	----
	River Heights	August 14	August 26
Davis	Kaysville	August 7	August 17
Salt Lake	Salt Lake City	July 31	August 8
	West Valley City	August 1	August 10
Utah	Alpine	August 17	----
	Genola	August 8	August 18
	Lincoln Point	August 14	August 24
	Orem	August 8	August 18
	Payson	August 6	August 16
	Provo	August 9	August 18
	Santaquin	August 11	August 21
	West Mountain	August 18	----
Weber	Pleasant View	August 2	August 11

### **Materials for peach twig borer control:**

-same as codling moth materials

### **White Apple Leafhopper:**

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

### **Woolly Apple Aphid:**

Provado, Calypso, malathion

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### **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 Berry Growers Summer Tour

##### ***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.

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## 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 and Third Generations:**

The projected timing dates of the spray periods shown below will be updated each week. The “ending spray date” for the second generation is at 2100 DD after biofix, when all eggs finish hatching. The “beginning spray date” for the third generation is 2160 DD after biofix, when the eggs of the next generation begin 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. Pay attention to the harvest date and time the last spray accordingly.

County	City	Ending Spray Date, 2nd Generation	Beginning Spray Date, 3rd Generation
Box Elder	Perry, Willard, Brigham	August 6	August 8
Cache	North Logan	August 29	----
	Richmond	August 23	----
	River Heights	August 16	----
Carbon	Price	August 11	August 13
Davis	Kaysville	August 8	August 10
Salt Lake	Salt Lake City (estimate)	July 30	August 1
	West Valley City	August 1	August 4
Tooele	Erda	August 1	August 3
	Grantsville	July 30	August 1
	Tooele	July 31	August 1
Utah	Alpine	August 17	----
	Genola	August 9	August 11
	Lincoln Point	August 14	August 17
	Orem	August 7	August 9
	Payson	August 8	August 10
	Provo	August 12	August 15
	Santaquin	August 12	August 14
	West Mountain	August 21	----
Weber	Pleasant View	August 3	August 5

### **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 granulosus virus	Virusoft	10-14 days
kaolin clay	Surround	5-7 days

### **Cat-Facing Insects:**

carbaryl (Sevin), esfenvalerate (Bug Buster, KGro Multi-Purpose), malathion, permethrin (many brands)

### **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)

## Current Spray Timings - Homeowners, continued

### **PEACHTWIG BORER, Second and Third Generations:**

The projected timing dates of the spray periods shown below will be updated each week. The ending spray date for the second generation represents 1900 DD (degree days) after biofix, when 100% of eggs have hatched. The beginning spray date for the third generation represents 2140 DD after biofix, when 5% of eggs have hatched. For materials that last fewer than 10 days, apply a second spray.

County	City	Ending Spray Date, Second Generation	Beginning Spray Date, Third Generation
Box Elder	Perry, Willard, Brigham	August 4	August 14
Cache	North Logan	August 27	----
	Richmond	August 21	----
	River Heights	August 14	August 26
Davis	Kaysville	August 7	August 17
Salt Lake	Salt Lake City (est.)	July 31	August 8
	West Valley City	August 1	August 10
Utah	Alpine	August 17	----
	Genola	August 8	August 18
	Lincoln Point	August 14	August 24
	Orem	August 8	August 18
	Payson	August 6	August 16
	Provo	August 9	August 18
	Santaquin	August 11	August 21
	West Mountain	August 18	----
Weber	Pleasant View	August 2	August 11

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

### **Rosy and Green Apple Aphid:**

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

### **Spider Mite Adults:**

insecticidal soap, permethrin, malathion, neem oil

### **Woolly Apple Aphid:**

carbaryl (Sevin), malathion

### **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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