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

Degree Day Accumulations, as of Wednesday, August 8

County	Location	Codling Moth, Peach Twig Borer (Base 50°F)					Cherry Fruit Fly (Base 41°F)
		DD since March 1	CM DD since biofix*	% CM Egg Hatch	PTB DD since biofix*	% PTB Egg Hatch	DD since March 1
Box Elder	Perry	2339	2157	1 (3rd gen.)	1991	1 (3rd)	3558
Cache	North Logan	1822	1685	65	1524	65	2826
	Richmond	2027	1772	76	1623	83	3116
	River Heights	2086	1902	89	1748	95	3175
Carbon	Price	2306	2036	97	----	----	
Davis	Kaysville	2306	2103	99	1921	0 (3rd)	3496
Juab	Tintic	1829	----	----	----	----	2874
Salt Lake	SLCC	2611	2347	11 (3rd)	2418	44 (3rd)	3921
	West Valley City	2533	2279	6 (3rd)	2081	3 (3rd)	3829
Tooele	Erda	2708	2304	8 (3rd)	----	----	3999
	Grantsville	2755	2350	13 (3rd)	----	----	4128
	Tooele	2724	2339	11 (3rd)	----	----	4021
Utah	Alpine	2061	1859	85	1695	92	3214
	Genola	2310	2069	95	1889	99	3499
	Lincoln Point	2145	1933	90	1759	96	3328
	Orem	2345	2128	97	1886	99	3554
	Payson	2312	2107	96	1954	0 (3rd)	3500
	Provo	2347	2001	93	1876	99	3556
	Santaquin	2174	1994	92	1834	98	3327
	West Mountain	2037	1785	77	1643	86	3168
Weber	Pleasant View	2415	2247	28 (3rd)	2063	2 (3rd)	3654

*“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

Most years, there are certain areas of Northern Utah that can always expect a partial third generation of codling moth. This year, however, due to the hot weather, the life cycle of this insect has been sped up, so that more areas will have more insects than usual for the third generation.

A full generation is when all individuals complete their life cycle from egg to adult moth. A partial generation occurs when a portion of the previous generation do not complete their life cycle, resulting in fewer insects. Codling moth responds to day length in late summer as a “warning” that winter is coming. When this occurs (usually in mid to late August) the larvae enter into diapause (a “shut-down” mechanism to survive winter) rather than pupating.

Growers in Cache County and in Alpine and West Mountain in Utah County may not need to worry about a third generation.

But for all other growers: beware! it’s not over yet! This third generation can catch us by surprise, especially if we start to see injury just as harvesting begins.

Keep in mind the pre-harvest interval for the material you are using, and time your applications based on harvesting dates. If you are harvesting apples after Sept. 15, you can put your sprayer away because there won’t be any egg hatch after that date.

PEACH, NECTARINE, APRICOT

Peach Twig Borer

Most of the egg hatch is complete for much of Northern Utah, and the third generation will begin soon. If you see any new growth with wilted tips, prune those out.

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

Greater Peachtree Borer

Continue to protect your trees until Sept. 15

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 30	----
	Richmond	August 25	----
	River Heights	August 18	----
Carbon	Price	August 11	August 14
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 18	----
	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 14
	Santaquin	August 12	August 15
	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 22	----
	River Heights	August 15	----
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

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

Woolly Apple Aphid:

Provado, Calypso, malathion

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.

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 30	----
	Richmond	August 25	----
	River Heights	August 18	----
Carbon	Price	August 11	August 14
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 18	----
	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 14
	Santaquin	August 12	August 15
	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 22	----
	River Heights	August 15	----
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

Western Cherry Fruit Fly:

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

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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