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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

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- [Codling Moth - Commercial](#)
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Attention COMMERCIAL GROWERS: Please see calendar announcements on [page 4](#).

Degree Day Accumulations, as of Friday, August 3

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	2204	2021	94	1855	99	3377
Cache	North Logan	1700	1563	42	1402	37	2659
	Richmond	1895	1641	56	1492	61	2938
	River Heights	1958	1774	75	1620	83	3002
Carbon	Price	2191	1920	89	----	----	3301
Davis	Kaysville	2166	1963	91	1782	97	3310
Juab	Tintic	1716	----	----	----	----	2716
Salt Lake	SLCC	2467	2203	3 (3rd)	2004	1 (3rd)	3726
	West Valley City	2389	2135	97	1937	0 (3rd)	3634
Tooele	Erda	2564	2160	1 (3rd)	----	----	3804
	Grantsville	2607	2202	4 (3rd)	----	----	3920
	Tooele	2579	2195	3 (3rd)	----	----	3827
Utah	Alpine	1944	1741	71	1578	77	3051
	Genola	2173	1932	90	1752	95	3314
	Lincoln Point	2023	1811	80	1637	84	3159
	Orem	2215	1998	93	1756	96	3378
	Payson	2189	1983	92	1831	99	3331
	Provo	2217	1871	85	1746	95	3380
	Santaquin	2049	1869	85	1710	93	3157
	West Mountain	1927	1675	57	1533	67	3026
Weber	Pleasant View	2275	2107	96	1923	0 (3rd)	3466

*“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)

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

Peach Twig 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 5	August 14
Cache	North Logan	August 28	----
	Richmond	August 23	----
	River Heights	August 16	----
Davis	Kaysville	August 8	August 17
Salt Lake	Salt Lake City	July 31	August 8
	West Valley City	August 1	August 10
Utah	Alpine	August 17	----
	Genola	August 9	August 18
	Lincoln Point	August 13	August 23
	Orem	August 8	August 18
	Payson	August 6	August 16
	Provo	August 9	August 18
	Santaquin	August 11	August 21
	West Mountain	August 17	----
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 31	----
	Richmond	August 26	----
	River Heights	August 19	----
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 10	August 12
	Lincoln Point	August 11	August 17
	Orem	August 7	August 9
	Payson	August 8	August 10
	Provo	August 12	August 14
	Santaquin	August 13	August 15
	West Mountain	August 20	----
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 granulosis 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-

Current Spray Timings - Homeowners, continued

Peach Twig 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 5	August 14
Cache	North Logan	August 28	----
	Richmond	August 23	----
	River Heights	August 16	----
Davis	Kaysville	August 8	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 9	August 18
	Lincoln Point	August 13	August 23
	Orem	August 8	August 18
	Payson	August 6	August 16
	Provo	August 9	August 18
	Santaquin	August 11	August 21
	West Mountain	August 17	----
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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