

Major Fruit Tree Pests, with general treatment times (pests in red are provided in this edition)

Apple/Pear:	Peach/Nectarine/Plum/Apricot	Cherry
codling moth (spring - harvest)	peach twig borer (late spring - harvest)	western cherry fruit fly (start of salmon blush color - harvest)
fire blight (during bloom; rains in summer)	greater peachtree borer (late spring - late September)	coryneum blight (spring, fall)
	coryneum blight (spring, fall)	

Specific Spray Timings and Materials

Codling Moth, First and Second Generations

Codling moth has up to three generations (each 'generation' is egg, larvae, and adult moth stages). There is a slight lag time between generations where you do not need to keep fruit protected with insecticide. For this reason, we provide a start and end date for each generation. Keep fruit protected until September 15 or harvest, whichever is earlier.

County	Location	SECOND GENERATION		THIRD GENERATION
		Period of Greatest Egg Hatch	Keep Fruit Protected To This Date	Begin protecting fruit (egg hatch begins again)
Box Elder	Perry	July 24 - August 8	August 27	August 30
	Tremonton	August 1 - August 17	September 5	September 9
Cache	N. Logan	August 9 - August 30	September 15	none
	Providence	August 1 - August 20	September 14	none
	Smithfield	August 8 - August 26	September 15	none
Carbon	Price	July 28 - August 16	September 11	none
	Spring Glen	August 3 - August 25	September 15	none
Davis	Kaysville	July 27 - August 12	August 28	August 31
Grand	Castle Valley	---	---	August 1
Salt Lake	Holladay	July 24 - August 7	August 21	August 23
	West Valley City	July 22 - August 5	August 19	August 21
Tooele	Erda	---	August 19	August 21
	Grantsville	---	August 11	August 13
	Tooele	---	August 17	August 20
Uintah	Vernal	July 29 - August 17	September 9	September 14
Utah	Alpine	August 3 - August 21	September 11	none
	Genola	July 25 - August 10	August 26	August 30
	Lincoln Point	July 31 - August 17	September 4	September 7
	Orem	July 22 - August 6	August 21	August 24
	Payson	July 26 - August 11	August 28	August 30
	Provo	July 24 - August 9	August 24	August 26
	Santaquin	July 26 - August 12	August 29	September 1
Weber	Pleasant View	July 25 - August 11	August 27	August 29

Spray Timings and Material Options, continued

Codling Moth Materials:

Chemical	Example Brands	Comments
<i>Conventional</i>		Carbaryl: every 7 days Malathion: every 5-7 days Acetamiprid: every 14 days Gamma-cyhalothrin: every 14-21 days
carbaryl	Sevin, Bonide Fruit Tree Spray, etc.	
malathion	Malathion	
gamma-cyhalothrin	Spectracide Triazide	
acetamiprid	Ortho Max Flower, Fruit, and Vegetable Insect Killer	
<i>Soft/orgainc</i>		
hort. oil	many options	hort. oil: lasts 7 days; use at beginning of each generation; apply at 1% rate ONLY when temperatures are below 80
spinosad	Green Light Lawn and Garden Spinosad, Gardens Alive Bull's Eye, Ferti-Lome Borer, Bagworm, Leafminer & Tent Caterpillar Spray, Monterey Garden Insect Spray, Natural Guard	spinosad: every 7 days

Peach Twig Borer, First and Second Generations

This insect has two generations. Like codling moth, there is a lag time between generations. Keep fruit protected until September 15 or harvest, whichever is earlier.

County	Location	SECOND GENERATION		THIRD GENERATION
		Start Date	Keep Fruit Protected Through This Date	Begin protecting fruit (if necessary)
Box Elder	Perry	---	August 27	September 12
	Tremonton	August 6	September 8	none
Cache	All Locations	August 18	September 15	none
Carbon	Price	---	September 11	none
	Spring Glen	August 9	September 15	none
Davis	Kaysville	---	August 25	September 7
Grand	Castle Valley	---	---	August 6
Salt Lake	Holladay	---	August 19	August 30
	West Valley City	---	August 18	August 29
Tooele	Erda	---	August 19	August 30
	Grantsville	---	August 15	August 27
	Tooele	---	August 18	August 29
Uintah	Vernal	---	September 9	none
Utah	Alpine	August 10	September 15	none
	Genola	---	August 28	September 13
	Lincoln Point	---	September 2	none
	Orem	---	August 23	September 4
	Payson	---	August 28	September 11
	Provo	---	August 24	September 4
	Santaquin	---	August 30	September 14
Weber	Pleasant View	---	August 29	September 12

Spray Timings and Material Options, continued

Peach Twig Borer Materials:

Chemical	Example Brands	Comments
<i>Conventional</i> carbaryl malathion permethrin	Sevin, Bonide Fruit Tree Spray, etc. Malathion Adams Yard Spray, Ortho Basic Solutions Yard and Garden, Bonide Eight RTU, Hi Yield Permethrin Concentrate,	see comments under Codling Moth Surround: every 3-5 days; works to repel, not kill insects; only moderate control; must purchase online
<i>Soft/organic</i> spinosad kaolin clay	see 'codling moth' above Surround	

Greater Peachtree Borer

Keep the lower 12-18" of trunk and exposed roots protected in all locations of northern Utah through mid-September.

Chemical	Example Brands	Comments
permethrin, bifenthrin	Bonide Eight, Ortho Bug-b-Gone, Green Light Borer Killer, Bonide Borer-Miner Killer Enforcer Outdoor Insect Killer, Hi-Yield Indoor/Outdoor Broad Use Including Gardens; Hi-Yield Pemethrin, Lilly Miller Multi-Purpose Insect Spray, Spectracide Bug Stop Garden	permethrin: apply every 14-21 days until mid-September in highly infested areas; apply twice (now and one month later) in low infestations carbaryl: must be applied every 7 days
carbaryl	Sevin, Bonide Fruit Tree Spray	

Western Cherry Fruit Fly

If you are leaving fruit on the tree, consider continuing sprays to reduce population for next year. Otherwise, pick all fruit from tree, and rake up fallen fruit

Chemical	Example Brands	Comments
carbaryl esfenvalerate malathion pyrethrin spinosad (<i>Soft/Organic</i>)	Sevin Ortho Bug-B-Gone Malathion Concern Multi-Purpose Ferti-Lome, Green Light, Natural Guard, GF-120	start applications only when fruit in sunniest locations develops a salmon blush spinosad: every 7 days

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