



Spray Timing Information - Codling Moth

Codling Moth, First Generation

In the table, choose either Option A or B when starting your codling moth sprays.

Option A is what most people will do. Apply insecticide at the recommended date, and repeat.

Option B is an alternative that may help to reduce sprays. Liberally apply horticultural oil (1%) on the first date, and then apply your regular insecticide on the later date. The oil kills eggs that have been laid on fruit up to that point.

County	Location	Option A Apply first spray
Box Elder	Perry	May 16
	Tremonton	May 20
Cache	Logan Airport	not yet known
	River Heights	not yet known
Carbon	Price Airport	not yet known
Davis	Kaysville	May 15
Iron	Cedar City Airport	May 21
Juab	Tintic	May 25
Salt Lake	Benches/Cooler sites	May 17
	Most areas	May 11
Sevier	Monroe	May 12
Tooele	Erda Airport	May 18
	Grantsville	May 15
Uintah	Vernal Airport	not yet known
Utah	Alpine	May 19
	American Fork	May 14
	Genola	May 13
	Lincoln Point	May 20
	Orem (Lindon)	May 12
	Payson	May 13
	Provo Airport	May 13
	Provo Canyon	May 19
	Santaquin	May 15
	Tickville	May 25
	West Mountain	May 12
Weber	Ogden Airport	May 15
	Pleasant View	May 10
Wasatch	Heber City	not yet known
Washington	New Harmony	May 16
Wayne	Torrey	May 15

Option B	
Apply oil	Apply first insecticide
May 13	not yet known
May 18	not yet known
not yet known	not yet known
not yet known	not yet known
not yet known	not yet known
May 12	May 25
May 19	not yet known
May 22	not yet known
May 15	not yet known
May 8	May 22
May 10	May 25
May 16	not yet known
May 13	May 27
not yet known	not yet known
May 16	not yet known
May 12	May 25
May 10	May 26
May 18	not yet known
May 9	May 23
May 11	May 23
May 11	May 23
May 17	not yet known
May 13	not yet known
May 23	not yet known
May 10	May 23
May 13	May 26
May 8	May 23
not yet known	not yet known
May 14	not yet known
May 13	not yet known

Insect and Disease Information

APPLE and PEAR

Apple Powdery Mildew

Hosts: apple

- **apply fungicide if mildew is present; repeat once or twice 7-14 days apart**

Powdery mildew was spotted in a few locations in Utah County in mid-April. If mildew is present, it will continue to spread so long as conditions are humid in the tree canopy. The humidity can rise just enough for spread on overcast days, if the tree canopy is dense, or from sprinkler irrigation.

The fungus that causes apple powdery mildew overwinters on twigs, so this is why new infections happen almost as soon as leaves emerge. Cortland, Idared, Gingergold, Braeburn, Gala, and Jonagold are all varieties that are more susceptible.

Most commercial growers should have applied a treatment or two by now. Options are shown by [clicking on this link](#) (and scrolling down the page).

Residential growers can use Spectracide Immunox, neem oil, or 1% horticultural oil.



mildew causes flowers to abort (top left); the disease is spread by spores blown from infected leaves (below) to healthy ones



Announcement

The 2015 edition of the Intermountain Commercial Tree Fruit Production Guide is now available for download or to purchase.

Updates for the 2015 edition include:

- all new pesticide rates and comments
- several new pesticide registrations
- residual length added (this information can be found after the pesticide name in the spray tables)
- more information on invasive pests
- updated disease biology section
- additional organic information on weeds, soil amendments, and pest management

You may download a free pdf here: intermountainfruit.org/

Or, you may purchase a bound copy for \$5 (to cover shipping). The books will be available on the [USU Extension Shopping Site](#). Once there, click on "Agriculture and Natural Resources" category and scroll down.

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Commercial Tree Fruit
Production Guide

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Spray Materials - Residential Applicators

Note that these treatments are only recommended if you know you have the particular pest in your trees. We recommend learning about specific pests, and scouting your trees at least once/week.

Target Pest	Host	Chemical	Example Brands	Comments
Codling moth	apple, pear	<i>Conventional</i> carbaryl acetamiprid malathion gamma-cyhalothrin <i>Soft/organic</i> oil (1%) spinosad codling moth virus	Sevin, Bonide Fruit Tree Spray, etc. Ortho Max Flower, Fruit, and Veg. Malathion Spectracide Triazicide Many products Green Light, Gardens Alive Bull's Eye, Monterey Cyd-X	acetamiprid: every 14 days carbaryl: every 14 - 21 days malathion: every 7 days gamma-cyhalothrin: every 14 days hort. oil: lasts 5-7 days for killing eggs; use at beginning of each generation; apply at 1% rate only when temperatures are below 80 F; follow up with a different product spinosad: every 7 days codling moth virus can only be purchased online
Powdery mildew	apple	<i>Conventional</i> myclobutanil <i>Soft/organic</i> neem oil potassium bicarbonate	Spectracide Immunox Garden Safe, Fertlome Triple Action Kaligreen, Monterey Bi-Carb	myclobutanil: lasts 14 days; repeat once neem oil: repeat 1 to 3 times every 5 days potassium bicarbonate: repeat 1 to 3 times every 7 days
Fire blight	apple, pear	streptomycin oxytetracycline	Ferti-Lome Mycoshield	Do not use antibiotic unless necessary; apply streptomycin within 24 h of a wetting event only if fire blight was present last year; oxytetracycline within 12 hr.
Aphids	all	<i>Soft/organic</i> oil (1%) insecticidal soap	Many products, EcoSmart Safer's, Bayer Natria, Bonide	oil: allow 4 hours-time for application to dry before temps reach 85 or above.
Coryneum blight	peach, apricot	<i>Conventional</i> chlorothalonil captan	Fung-onil, Ortho Max Disease Control Captan	Apply once at shuck split stage chlorothalonil: do not use after shuck split captan: use as a preventive before a rain

Precautionary Statement: Utah State University Extension and its employees are not responsible for the use, misuse, or damage caused by application or misapplication of products or information mentioned in this document. All pesticides are labeled with ingredients, instructions, and risks. The pesticide applicator is legally responsible for proper use. USU makes no endorsement of the products listed herein.

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[click here](#) for archived advisories