

Codling Moth Spray Dates

May 7, 2018

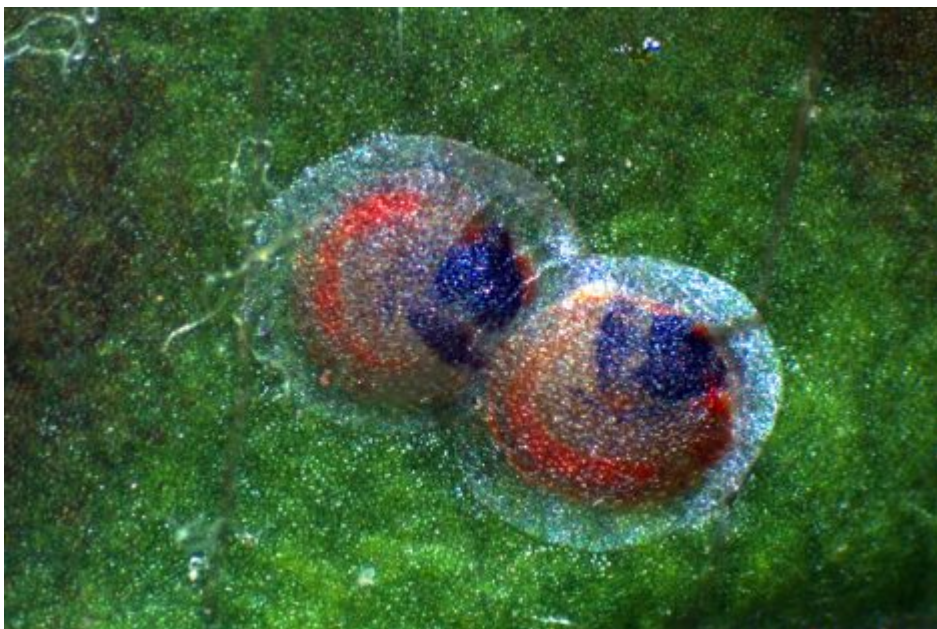


In this Issue

- **Codling moth:** first generation spray dates provided for most locations
- **Fire blight:** risk is very high for infection of open flowers through May 16 (all of northern Utah)
- **Coryneum blight:** treat with fungicide before or after 4-hr rain event
- **Raspberry horntail:** treat canes in late May

APPLE, PEAR

Codling Moth[ps2id id='cm' target='"/]



Two codling moth eggs on apple skin, nearing time to hatch.



Newly hatched codling moth larva just under the apple skin.



Codling moth entry in a young apple fruit.

View a pdf of the spray timing table. Be sure to read the instructions at the top of the page, for how to understand the table. Codling moth is a pest that needs to be treated all season long for clean fruit.

Codling moth treatment timing is coming up in mid-May for many areas of northern Utah. Dates for the remaining locations will be provided when available.

The table of dates provides two options for managing the first generation. “Option A” is the traditional method, where the first insecticide coincides with egg hatch. So the spray application would target young larvae, which may occur on fruitlets or on leaves.

“Option B” targets the eggs themselves with horticultural oil. A 1% application will smother all eggs laid up to that point, providing a “clean slate.” Then, an insecticide application is made later, targeting the larvae that will begin hatching from the new set of eggs laid after the oil application. This option has provided excellent control in many Pacific Northwest orchards, and also saves at least one insecticide spray.

Whether you are growing organic or conventional, the only non-spray option for clean fruit is to bag them (click [here](#) and [here](#) for more info on bagging fruit.)

Treatment:

Spray options for **commercial growers**.

The table below provides some options for **backyard trees**. It is important to know how long your spray application will last. For the product you are using, check the “active ingredients” on the front label of your product (in small print on the lower right or left of the label). Sometimes there are several ingredients, sometimes, just one. Some materials last longer than others, and the time between sprays is not always listed on the label.

Product Name	Efficacy	Residual Length (days)	Comments
CONVENTIONAL			
Spectracide Triazicide (gamma-cyhalothrin)	Good to Excellent	14-17	wait 21 days to harvest
Monterey Bug Buster 11 (esfenvalerate)	Good to Excellent	14-17	wait 21 days to harvest
Bonide Fruit Tree & Plant Guard (lambda-cyhalothrin)	Good to Excellent	14-17	wait 21 days to harvest
Bonide Malathion; Hi Yield Malathion	Good	5-7	max 2 applications; some products are pears only
GardenTech Sevin (zeta-cypermethrin)	Good to Excellent	14-17	wait 14 days to harvest
ORGANIC			
AzaSol, EcoGarden (azadirachtin)	Good	7-10	
Cyd-X (codling moth virus)	Good (if populations are low)	7	works best when used at beginning of generation; expensive and purchase online
oil such as All Seasons Oil, EcoSmart, Neem oil	Good on eggs only	3	recommended for first application of the generation only
Ortho Fruit Spray; Fertilome Fruit Tree Spray; Safer End All; Bonide Orchard Spray (all contain pyrethrin)	Good	3-5	
Monterey / Fertilome Spinosad; Captain Jack's Deadbug Brew; Natural Guard (all contain spinosad)	Good	10	max 6 applications per season; if applying to peach or cherry, can re-apply after 7 days

Fire Blight[ps2id id='fb' target='']



Fire blight is caused by a bacteria, and infections primarily start in open flowers.

The risk for fire blight infections is **EXTREME** for all locations in northern Utah. This is only a concern if there are still any **open blossoms** on apple or pear. Remember that the late flowers are often the most “dangerous” for new infections.

Spray options for **commercial growers**: In areas of streptomycin resistance, the use of Kasumin plus a half-rate of Mycoshield provides excellent control.

For **backyard growers**, you can purchase “Fire Blight Spray” or “Streptomycin Spray” at local garden centers.

PEACH/NECTARINE, APRICOT

Coryneum Blight

On peaches, apply fungicide shuck split stage. Afterward, apply fungicide before or right after 4-hr rainfall to peach, nectarine, or apricot.



Early coryneum infections on fruit appear as purplish spots.

There is a chance of rain for northern Utah Friday and Saturday of this week (May 10,11). When temperatures are warm (above 75), all that is needed is 4 to 6 hours of rain to cause new infections.

Keep an eye on the weather and amount of rainfall to estimate whether a fungicide application might be needed.

Products for **commercial growers**.

For **backyard growers**:

- Captan is only effective when applied *before* a rain.
- Spectracide Immunox can be applied before or after a rain, but when applied after rain, it may not provide complete protection from infection.
- The only organic option is Natural Guard Copper Soap. It should be applied before a rain.

SMALL FRUITS

Raspberry Horntail[ps2id id='rh' target='']

If raspberry horntail has been a problem, treat for adults between May 25 and May 31 for areas along the Wasatch Front.



Adult raspberry horntails are sawflies, and their larvae feed inside the tops of raspberry canes, making them wilt over. Often, pruning out infested canes is sufficient management.

Raspberry horntail is a sawfly that lays eggs in canes. The eggs hatch into larvae that then feed inside the upper canes, causing the tops to wilt and die. Adult horntails will soon begin emerging from canes that were infested last year, towards the end of May.

If raspberry horntail is a problem in your area, an insecticide application to prevent egg-laying should go on May 25-31 for areas along the Wasatch Front (one week later in cooler areas).

Synthetic pyrethroids (or the organic, pyrethrin) and Sevin are effective. Spinosad is another option, but unproven. A second application should be applied 10-14 days later, depending on product residual and when bloom time is projected to begin. Avoid treating during bloom.