

# Codling Moth Spray Dates; Peach Twig Borer Dates (Southern Utah)

## In this Issue:

- **Apple, Pear:** codling moth dates available
- **Peach/Nectarine, Apricot, Plum:** peach twig borer spray dates for southern Utah

## APPLE, PEAR

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### Codling Moth

*egg hatch prediction dates provided for several locations in the link below*



Newly hatched codling moth larva just under the apple skin.

Codling moth treatment timing is coming up in late May for many areas of northern Utah. We will provide information about the remaining locations once we have captured moths in our traps.

View a pdf of the spray timing table. Be sure to read the instructions at the top of the page, for how to read the table.

Not all Utah locations are provided on the table. Select your closest city, or, go to the Utah TRAPs website, select your city, and select “Codling Moth-Fixed Biofix” from the drop-down menu.

On the table in the link above, there are two options provided for your first application. “Option A” is standard procedure, where you apply the insecticide you choose at the date provided.

“Option B” uses horticultural oil (at 1% concentration in water) as the first application on the date provided, followed by an insecticide application about 2 weeks later. This option saves one general insecticide spray because the oil kills (smothers) all codling moth eggs laid up to that point, and ideally before any of them have hatched.

For either option, it is recommended to repeat the application to protect fruit at least through the “period of greatest egg hatch” (dates shown on the table).

## Treatment

Options for commercial growers.

Options for residential growers are shown in the table below. (Click [here](#) and [here](#) for more info on bagging fruit, which is done when you thin the fruit after bloom, or when they are about 0.5" diameter.)

Ingredient	Efficacy	Residual Length (days)	Comments
CONVENTIONAL			
carbaryl (old Sevin products)	Good	14	
gamma-cyhalothrin (Spectracide Triazicide)	Good to Excellent	14-17	wait 21 days to harvest
malathion (Bonide Malathion; Hi Yield Malathion)	Good	5-7	max 2 applications; some products are pears only
zeta-cypermethrin (GardenTech Sevin)	Good to Excellent	14-17	wait 14 days to harvest
ORGANIC			
azadirachtin (Safer BioNeem)	Fair to Good	7-10	
codling moth virus (Cyd-X)	Good (if populations are low)	7	works best when used at beginning of generation
kaolin clay (Surround)	Fair	7	produces a protective barrier
oil (All Seasons Oil, EcoSmart, Neem)	Fair	3	recommended for first application of the generation only
pyrethrin (Ortho Fruit Spray; Fertilome Fruit Tree Spray; Safer End All)	Good	3-5	
spinosad (Monterey / Fertilome Spinosad)	Good	7-10	max 6 applications

For strategies on how often to spray for codling moth, it will depend on whether you are using organic or non-organic options, AND how heavily your apples or pears have been infested with codling moth in the past.

### Conventional production options

- *High fruit damage* in past years:
  - Apply the first application for either Option A (insecticide) or Option B (oil).
  - For Option A, repeat the insecticide spray 14 days later, for a total of 2 applications in the first generation.
  - For Option B, apply the insecticide spray at the listed date once.
  - When the "start date" for the 2nd generation is provided, spray every 10-18 days until Sept. 15.
  - Pick a different product to use for each generation.
- *Low fruit damage* in past years:
  - Apply the first application for either Option A (insecticide) or Option B (oil).

- For Option A, do not spray again.
- For Option B, apply insecticide at the listed date.
- Wait until the “start date” for the 2nd generation is provided, and spray on that date, and repeat 14 days later, for a total of 2 sprays.
- Do the same for the 3rd generation.
- Pick a different product to use for each generation.

### **Organic production options** (other than bagging)

- *High fruit damage* in past years:
  - Apply the first application for either Option A (insecticide) or Option B (oil).
  - For Option A, repeat twice, spaced 7-10 apart, for a total of 3 applications in the first generation.
  - For Option B, apply insecticide at the listed date and re-apply 7-10 days later.
  - When the “start date” for the 2nd generation is provided, spray every 7-10 days until Sept. 15.
  - Pick a different product to use for each generation.
- *Low fruit damage* in past years:
  - Apply the first application for either Option A (insecticide) or Option B (oil).
  - When the “start date” for the 2nd generation is provided, spray every 10-14 days until Sept. 15.
  - Pick a different product to use for each generation.

## **PEACH, NECTARINE, APRICOT**

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### **Peach Twig Borer**



Peach twig borer larvae prefer to feed inside succulent shoots.

***peach, nectarine, apricot - spray dates for some areas of southern Utah***

Peach twig borer is active in the warmest southern Utah locations. This pest prefers to feed inside succulent peach shoots, but later in the summer, it feeds inside the fruits themselves. It is best to knock the population down early rather than waiting until later.

Application timing dates:

- **Hurricane:** May 16

- **Capitol Reef:** May 30
- **Zions Canyon area:** May 15
- **Kanab:** May 29
- **Leeds:** May 17
- **St. George:** May 15

## **Treatment**

Options for commercial growers.

For residential trees, use same product as codling moth (see above)

**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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