



Current Report

Cooperative Extension Service • Division of Agriculture • Oklahoma State University

COMMERCIAL PEACH AND NECTARINE INSECT AND DISEASE CONTROL - 1986

Jim Gallott
Extension Horticulturist

Stanley Coppock
Extension Entomologist

George Barnes
Extension Plant Pathology

Jim T. Criswell
Pesticide Program Spec.

In the following table the quantity of materials to use to apply to peaches and nectarines is based on a dilute spray of 300 gal/A which is the amount of spray volume needed to cover one acre of well

pruned, standard size trees. Determine the amount of water being used per acre on your trees then add the rate of the chemical listed below in the rate/acre column to the amount of water.

| APPLICATION AND TIMING | PESTS INVOLVED | MATERIAL | AMOUNT OF MATERIALS NEEDED | |
|--|---|--|---|---|
| | | | Per Acre | Per 100 Gal |
| DORMANT: Apply when the trees are dormant and the temperature is above 40°F. Apply fungicide just before bud break. | San Jose Scale Forbes Scale | Dormant Oil or Lime Sulfur ¹ | 4 1/2 - 6 gal see label | 1 1/2 - 2 gal see label |
| | Peach Leaf Curl Bacterial Leaf and Fruit Spot | Bordeaux or Dithane Z-782 or Tri-Basic Cooper Sulfate ³ or Bravo 500 or Kocide 101 Lime Sulfur Carbamate or Karbam Black or Kocide 404 Bordeaux | see label 6 lb 12 - 16 lb 4 1/2 - 6 pt 6 - 9 lb see label 4 1/2 lb 4 1/2 lb 1 qt see label | see label 2 lb 4 - 5 lb 1 1/2 - 2 pt 2 - 3 lb see label 1 1/2 lb 1 1/2 lb 1/4 qt see label |
| PRE-BLOOM: Flower buds show pink. | Lygus bugs | Guthion 50W | 1 1/2 - 2 lb | 1/2 - 5/8 lb |
| | Brown Rot | Rovral ⁴ or Dithane FZ | 1 - 2 lb 4.8 - 6.4 qt | 1/4 - 1/2 lb 1.6 - 2.1 pt |
| EARLY BLOOM | Brown Rot | Benlate 50W or Captan 50WP or Orthocide 50W or Topsin-M or Wettable Sulfur ¹ or Tri-Basic Cooper Sulfate ³ or Funginex 1.6EC or Bravo 500 or Rovral ⁴ or Dithane FZ | 3/4 - 1 1/2 lb 6 lb 6 - 12 lb 1 1/2 - 2 1/4 lb 15 - 30 lb 12 - 16 lb 1 1/8 - 1 1/2 qt 4 1/2 - 6 pt 1 - 2 lb 4.8 - 6.4 qt | 1/4 - 1/2 lb 2 lb 2 - 4 lb 1/2 - 3/4 lb 5 - 10 lb 4 - 5 lb 3/4 - 1 pt 1 1/2 - 2 pt 1/4 - 1/2 lb 1.6 - 2.1 pt |
| PETAL FALL SPRAY: Apply when 50-75% of the petals have fallen. | Plum Curculio Plum Gouger | Imidan 50W or Zolone EC or Zolone 25% WP Guthion 50W or Sevin 50W | 3 - 4 1/2 lb 5 1/2 - 10 2/3 pt 8 - 16 lb 1 1/2 - 2 lb 6 lb | 1 - 1 1/2 lb 1 1/3 - 2 2/3 pt 2 - 4 lb 1/2 - 5/8 lb 2 lb |
| Insecticide and Fungicide materials may be combined starting with Petal Fall and continuing through cover sprays. | Brown Rot and Scab | Benlate 50W (For scab only) or Captan 50WP or Dithane FZ Orthocide 50W or Topsin-M or | 3/4 - 1 1/2 lb 6 lb 4.8 - 6.4 qt 6 - 12 lb 1 1/2 - 2 1/4 lb | 1/4 - 1/2 lb 2 lb 1.6 - 2.1 pt 2 - 4 lb 1/2 - 3/4 lb |

(cont'd on next page)

PEACH - NECTARINE (CONT'D)

| APPLICATION AND TIMING | PESTS INVOLVED | MATERIAL | AMOUNT OF MATERIALS NEEDED | |
|--|---|--|--|--------------------------------------|
| | | | Per Acre | Per 100 Gal |
| PETAL FALL SPRAY CONT'D | | Wettable Sulfur ¹ or Tri-Basic Cooper Sulfate ³ or Funginex 1.6EC | 15 - 30 lb 12 - 16 lb 1 1/8-1 1/2 qt | 5 - 10 lb 4 - 5 lb 3/4 - 1 pt |
| | Brown Rot | Rovral ⁴ | 1 - 2 lb | 1/4 - 1/2 lb |
| SHUCK-SPLIT: Apply when around 3/4 of shucks have split and are shedding about 7-10 days after Petal Fall. | Brown Rot, Scab Plum Curculio, Plum Gouger Stink bug | Same as Petal Fall. | | |
| | Bacterial Leaf and Fruit Spot Brown Rot | Terramycin (Mycoshield) Same as Petal Fall. | 2 1/2 lb | 1/2 lb |
| SECOND AND LATER COVER SPRAYS: Apply 10-14 day intervals | Twig Borer, Stink Bug, Scab, Brown Rot | Same as Petal Fall. | | |
| | Oriental Fruit Moth | Same as Petal Fall. or Zolone EC or Zolone 25% WP | 5 1/3 pt 8 lb | 1 1/3 pt 2 lb |
| | Bacterial Leaf and Fruit Spot Brown Rot | Terramycin (Mycoshield) Same as Petal Fall. | 2 1/2 lb | 1/2 lb |
| June | Mites—Two sprays may be needed. | Kelthane EC or Kelthane 35W or Omite 30W ² or Plictran 50W | 3 qt 3 lb 4 lb 1 - 2.5 lb | 1 qt 1 lb 1 1/2 lb 4 - 6 oz |
| HARVEST: Apply just before harvest in July and August. | Green June Beetles | Sevin 50W | 6 lb | 2 lb |

¹When air temperature is above 85°F, foliar burn can occur when sulfur is used.

²Dithane Z-78 and Omite are not labeled for Nectarine and Omite can be applied only twice per season on Peaches.

³Add sticker and see label.

⁴Do not make more than 5 applications and do not apply more than 2 lb Rovral per season.

PEACH TREE BORER CONTROL: Thiodan 50W, 1 lb. in 100 gallons of water or Lorsban 4E, 3 qts. in 100 gallons water. Three applications, mid-June, mid-July and mid-August for Thiodan. Only need spray Lorsban one time in late May. Spray thoroughly the trunks from the large branches to the ground line (1 1/2 to 2 feet). DO NOT SPRAY THE FRUIT with Lorsban.

If the borer spray program is not followed, PDB crystals applied in October will kill the peach tree borer. Crystals, 1/2 to 1 1/2 oz. are used around each tree depending upon its age and size. For detailed instructions see Fact Sheet 6235, Home Fruit Spray Schedule.

ORIENTAL FRUIT MOTH: The earliest indication of injury by this insect is similar to that of the peach twig borer and consists of a "dying-back" of new growth in the spring. The worms found burrowing in the twigs are pinkish or creamy-white with brown heads. Later generations of the worm enter the fruit near the stem before the fruit ripens. The fruit may look perfect at the time of harvest, but breaks down shortly after packing.

BACTERIAL SPOT: The disease attacks the leaves, fruits, and stems. No completely satisfactory control is known for the disease. There is a varietal difference to susceptibility.

A certain degree of control can be obtained by spraying the trees in the fall (when half the leaves have fallen). For dormant application, apply Bordeaux at label rates. At first and second cover sprays use Mycoshield at 1/2 lb/100 gallons. Do not spray later than three weeks prior to harvest. Do not use at rates above those recommended after bloom. During wet spring, delay first application until second cover spray to reduce potential phytotoxicity.

POWDERY MILDEW: For control on peaches use Benlate 50W 3/4-1 1/2 lbs/100 gals water applied at shuck-split and again at first cover. Or use Karathane LC 4 oz. to 100 gal. water applying full

coverage spray at pink bud, petal fall, shuck-split and early covers. No application within 45 days of harvest. Use wetttable sulfur in later applications.

NEMATODES (Ring, Root knot and Dagger): Pre-plant treatment of soil with Telone II. See label for application rates, methods, precautions and use.

For detailed information on using pesticides safely, see OSU Extension Facts No. 7451, Agricultural Pesticide Storage; OSU Extension Facts No. 7457, Toxicity of Pesticides; and OSU Extension Facts No. 7454, Check Your Pesticide Label.

TABLE 1 LIMITATION
NUMBER OF DAYS BEFORE HARVEST

DAYS FROM LAST APPLICATION TO HARVEST

| CHEMICALS* | PEACHES | NECTARINES | CHEMICALS* | PEACHES | NECTARINES |
|-------------------|---------|------------|-----------------|---------|------------|
| Benlate | 0 | 0 | Kocide, Thiodan | 21 | 21 |
| Bravo 500 | * | - | Lorsban | 21 | - |
| Captan, Orthocide | 0 | 0 | Mycoshield | 21 | 21 |
| Carbamate | 21 | - | Omite | 14 | - |
| Dithane FZ | 14 | 14 | Plictran | 0 | 0 |
| Dithane Z-78 | 30 | - | Rovral | 0 | 0 |
| Funginex 1.6EC | 7 | 7 | Sevin | 1 | 3 |
| Guthion 50W | 21 | 21 | Sulfur | 0 | 0 |
| Guthion 2L | 21 | 21 | Topsin-M | 1 | 1 |
| Imidan, Kelthane | 14 | 14 | Zolone | 7 | 7 |
| Karathane | - | - | | | |

*See label for other limitations.

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