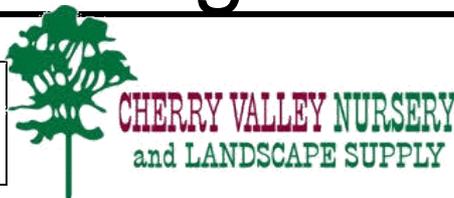


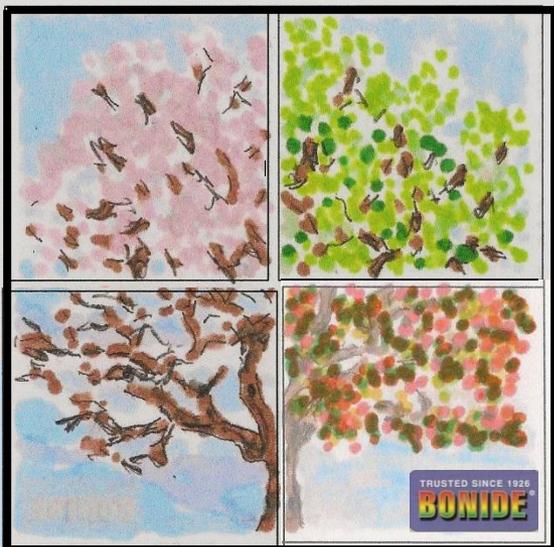
# Dormant Spray Timing & Suggestions



**Always follow the label.**

## Dormant Rose Recommendations

**Rose Diseases are all controllable in season.** Along with some cultural practices (cleaning up all winter leaf drop debris, cutting back stems and branches affected with brown stem canker, feeding, and spacing), along with some preventative applications of Bonide Copper; all of following can be addressed: Botrytis, Powdery Mildew, Black Spot, and Rust. Follow in season applications for Roses and other listed shrubs. Some phytotoxicity can occur in temperatures below 60 degrees (Small purple spots). The winter applications can be expected to cause this spotting, and may not occur on all species. Canker once controlled with dormant sprays is best treated by pruning with angular cutters near buds in the fall in most climates and treated in the spring as new growth occurs. Stem Canker is a fungal disease and one should avoid overhead watering.



## Bonide Copper Fungicide

**Bonide Copper Fungicide Concentrate** is now the dormant fungicide of choice. Do not mix this product with Bonide All Seasons Oil. Apply Separately. During wet weather additional applications may be necessary. Follow the label for plant specie and rates and times.

**Stone fruits** begin in the fall (Dormant\*) at 10 and 80% leaf drop. Again at delayed bud swell, pop corn, full color, and petal fall stages. Up to 6 sprays for control of bacterial Canker, brown rot blossom and fruit spot. 2oz. per gallon of water.

**Peach leaf curl** apply as a dormant\* spray (2oz / gal) **Apply** during periods of dry weather and be prepared to reapply if it rains within 24 hrs. Popcorn is the best application time if the fall application is missed. **Berries** apply at the start of flowering and continue every 7-10 days until harvest. 1 to 2oz per gallon of water.

**Pome fruits:** Scab- treat up to Petal Fall, Fireblight – spray at Silvertip and Pop corn and repeat on 3 to 5 day intervals as needed. Rust- Spray plants at least 4 times between late August and late October. Use at the 1oz per gallon or less to prevent russetting on Golden delicious and lighter colored varieties.

**Bonide Copper Fungicide** can be used all season long. It can be used on your entire garden and includes houseplants. For best control, begin treatment 2 weeks before disease normally appears. Use higher rates if weather is expected to be wet.

## Bonide Sulfur Plant Fungicide

**Bonide Sulfur Plant Fungicide** can affectively be used as a wettable powder and sprayed primarily at the delayed dormant stage ( Bud swell – Silver Tip) to control ; Black spot on Roses, Peach Canker, Shot Hole, Apple scab and Brown Rot Blossom Blight . It does not have a label for Apricots. Sulfur can be used all season long and is noted to reduce Ph as well as an effective mite control on most ornamentals and fruit trees.

## Bonide All Seasons Oil

For best results, timing is everything. Use **Bonide All Seasons Oil Spray** in late Autumn or early Winter. **Bonide All Seasons Oil Spray** is non-toxic and will smother over wintering insect eggs such as Aphids, Leaf rollers, Scale, Mites, Pear psylla, and Whitefly. **Bonide All Season Oil** has also shown effectiveness in destroying caterpillar egg sacs.

**Apply** when temperatures are expected to rise during the day, falling temperatures can force oil into the bark and cause damage.

### Mix Rates vary

**Apples** - dormant /green tip/delayed dormant  
**Peaches, Plums and Prunes** - at delayed dormant stage.

**Pears** - dormant and bud swell.

**Cherries** - dormant

**Grapes** - dormant

**Roses , shade trees and listed ornamentals.** - Green tip through delayed dormant.

**Delayed Dormant Stage - between bud swell and green tip**

**No** sprays should be made during the flowering period to protect the pollinators and to not burn open blossoms.

**During** Periods of heavy rain be prepared to apply again. **Bonide All Season Oil** must be applied thoroughly to get into the bark and branches, Covering all sides until it drips.

**Bonide All Season Oil** can be applied during the rest of the growing season . Always follow the label instructions. Never apply spray controls in increasing temperatures at or above 85 degrees to be safe. Spray in the early morning or in the evening when temperatures are decreasing.

## Bonide Captain Jack's Dead Bug Brew

**Bonide Captain Jack's Dead Bug Brew** can be used during popcorn and shuck split for codling moth control. Controls peach borers as well as citrus leaf miner. Begin in early spring for best results. Great for flower thrips too.

**Dormant**

**Bud swell**

**Green / Silver tip**

**Green Cluster**

**Pop Corn Full Pink / White**

**First Color**

**Full Color**

**Petal Fall**

**Shuck Split**

**Ripe Fruit**



# Dormant Spray Timing & Suggestions

## Copper Fungicide ----- (Stone fruit- Almond, Apricot, Cherry, Nectarine, Peach, Plum)

1. **Bacterial Canker** - Apply as a dormant spray at bud swell and at bud burst stage, weekly thereafter.
2. **Brown Rot blossom** - Apply at bud swell, popcorn, full bloom, and petal fall.
3. **Pome Fruit ( Apple. Pear. Quince)** See front of this form.

## Captain Jack's DeadBug Brew ----- (Apple, Apricots, Cherries, Nectarines, Grapes, Plums, Peaches, Citrus)

**Mix at 2oz per Gallon** Not to exceed 6 applications per season

1. **Apple** - codling moth ( apply at popcorn and first color and again at petal fall shuck split) 10 day intervals
2. **Citrus** - leaf miner (apply when new growth begins and at 6 day intervals)
3. **Ornamentals ( Roses, trees, etc.)** - Leaf feeding beetles, leaf miners, worms, loopers, sawfly larvae (rose midge), spider mites ( apply when first observed reapply every 7 to 10 days / uniform coverage both upper and lower leaf surface), thrips
4. **Peach** - borers, fruit flies, leaf rollers, thrips, caterpillars, worms
5. **Vegetables and Herbs-** worms, caterpillars, cabbage worm, thrips,



Peach  
Leaf  
Curl  
←



Brown  
Rot  
Blossom  
Blight  
←



Shot  
Hole  
Fungus  
←



Bacterial  
Canker  
On Plum  
←

## Sulfur Plant Fungicide----- ( Apples, Blackberries, Blueberries, Boysenberries, Huckleberries, Loganberries, Cherries, Grapes, Nectarines, Peaches, Plums, Prunes, Pears, Roses).

1. **Berries** (powdery mildew) 2 to 2.5Tbs per gallon. Begin when new shoots are 6" long and before blossoms open
2. **Apples** (apple cedar rust, leaf spot, black / brown rot, scab) 1 to 2.5Tbs per gallon from pre pink through 7 to 10 days after petal fall
3. **Grapes** (powdery mildew) 1 to 3Tbs per gallon. Begin when shoots are 6inches long. Repeat before blooms open
4. **Nectarines and Peaches** ( brown rot, peach canker, rust, scab, shothole)1 to3Tbs per gallon. Apply at pink, bloom, petal fall, shuck split, shuck fall.

All recommendations are excerpts from the label of products, consult labels for full instruction and application.