

Cedar Apple Rust



Powdery Mildew



Apple Scab



Bitter Pit



Honeycrisp Apples

Monitoring & Spraying Tips

Monitoring Program

(1st leaf year of planting, 2nd leaf the following year, and 3rd leaf)

- Monitor leaves for fungal conditions and document what type of fungus you had. If you get a fungus there is not a lot you can do any more in the current growing season.
- Monitor leaves for insect damage, document what insect damage you had. You can start spraying Dipel (an organic insecticide) when you notice damage. This will control the majority of insects.

Spraying Tips

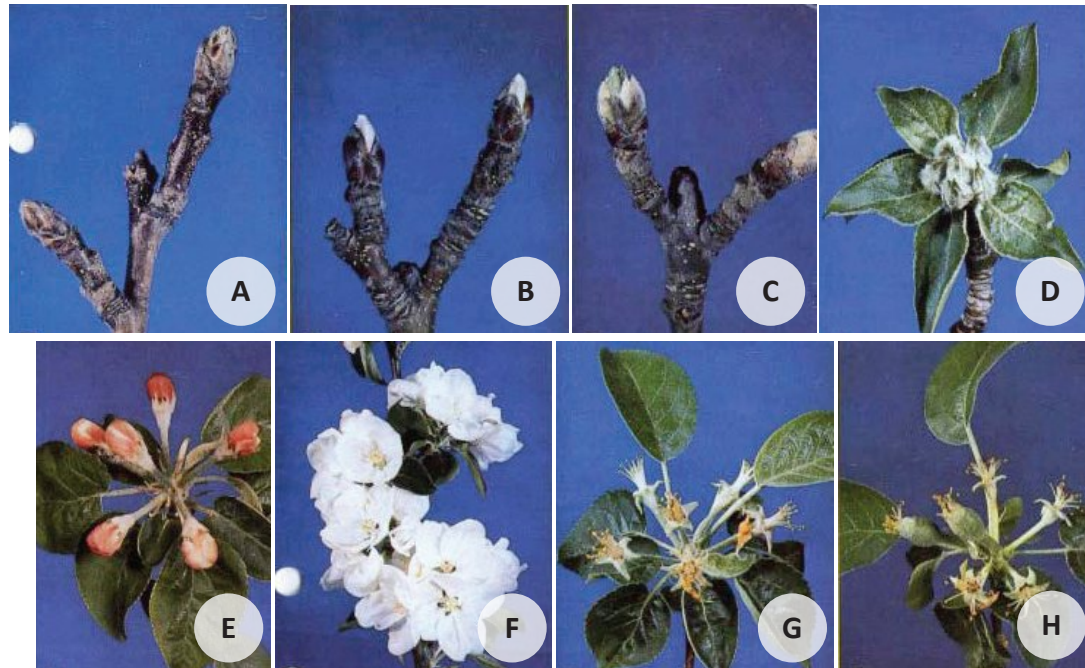
- Always wear protective clothing and breathing equipment!
- Spray when leaves are dry, make sure leaves have a chance to dry before rain.
- Spray early in the day or late in day: never in hot sun.
- Do not spray above 75-80 degrees it will burn the leaves.
- Once fungicide or insecticide have been mixed you should spray immediately, they lose 50% of their strength in the first 8 hours.

Apple Maggot



Bag apples for protection.

Codling Moth



- A. Dormant
- B. Silver Tip - Mid April
- C. 1/2" Green Tip
- D. Tight Cluster
- E. Pink
- F. Bloom - May
- G. Petal Fall
- H. 1/2" Fruitlets

Plum Curculio



Crescent shaped scars on fruitlets

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Gilby's Very Basic Spray Program Apples, Pears and Plums



May 10th Tight Cluster **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew
Potential Insects: Fruit Worms and Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth, use Fruit Tree Spray

June 10th Fruit Set **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew
Potential Insects: Fruit Worms and Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth, use Fruit Tree Spray

Pesticide	Pesticide Name	PHI	REI	Max Applications	Application Rate per gal of water	Notes
Fruit Tree Spray Bonide	<i>Captan, Malathion, Carbaryl</i>	14		2	2 tablespoons	

Gilby's Basic Spray Program Apples, Pears and Plums

May 1st 1/2" Green Tip **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew, use Captan
Potential Insects: Fruit Worms and Leaf Rollers, use Dipel Organic Insecticide

May 20th Full Bloom **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew, use Captan

June 10th Fruit Set **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew,
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth, use Dipel Organic Insecticide

July 1st Fruit is 1" **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth, use Dipel Organic Insecticide

August 1st **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar Codling Moth and Apple Maggot, use Dipel Organic Insecticide

Pesticide	Pesticide Name	PHI	REI	Max Applications	Application Rate per gal of water	Notes
Fungicide	<i>Captan</i>	0 days	2 days		1 1/2 tablespoons	Protectant
Insecticide	<i>Dipel</i>	0 days	4 hours		1 1/2 teaspoons	Organic

Gilby's Advanced Spray Program Apples, Pears and Plums

May 1st 1/2" Green Tip **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew, use Captan and Topsin Fungicide
Potential Insects: Fruit Worms and Leaf Rollers, use Dipel Organic Insecticide

May 10th Tight Cluster **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew, use Captan and Topsin Fungicide
Potential Insects: Fruit Worms and Leaf Rollers, use Dipel Organic Insecticide
 Foliar Feed with 20-20-20- with micro nutrients 1/4 cup per 1 gallon of water

May 20th Full Bloom **Potential Fungus:** Apple Scab, Cedar Apple Rust, Powerdy Mildew, use Captan and Topsin Fungicide

June 1st Petal Fall **Potential Fungus:** Apple Scab, Powerdy Mildew, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth Dipel Organic Insecticide
 Foliar Feed with 20-20-20- with micro nutrients 1/4 cup per 1 gallon of water

June 10th Fruit Set **Potential Fungus:** Apple Scab, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth Dipel Organic Insecticide

June 20th Thinning Fruitlets **Potential Fungus:** Apple Scab, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth Dipel Organic Insecticide
 Foliar Feed with 20-20-20- with micro nutrients 1/4 cup per 1 gallon of water

July 1st Fruit is 1" **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth Dipel Organic Insecticide
 Control Bitter Pit (Honeycrisp) Monterey Foli-Cal 5 oz per 1 gallons of water

July 10th **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar and Codling Moth Dipel Organic Insecticide
 Control Bitter Pit (Honeycrisp) Monterey Foli-Cal 5 oz per 1 gallon of water

July 20th **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar, Codling Moth, Apple Maggot use Imidian or Assail
 Control Bitter Pit (Honeycrisp) Monterey Foli-Cal 5 oz per 1 gallon of water

August 1st **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar, Codling Moth, Apple Maggot use Imidian or Assail
 Control Bitter Pit (Honeycrisp) Monterey Foli-Cal 5 oz per 1 gallon of water

August 10th **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan and Topsin Fungicide
Potential Insects: Leaf Rollers, Plum Curculio, Tent Caterpillar, Codling Moth, Apple Maggot use Imidian or Assail
 Control Bitter Pit (Honeycrisp) Monterey Foli-Cal 5 oz per 1 gallon of water

August 20th **Potential Fungus:** Sooty Blotch and Fly Speck, use Captan and Topsin Fungicide
 Control Bitter Pit (Honeycrisp) Monterey Foli-Cal 5 oz per 1 gallon of water

Pesticide	Pesticide Name	PHI	REI	Max Applications	Application Rate per gal of water	Notes
Fungicide	<i>Captan</i>	0 days	2 days		1 1/2 tablespoons	Protectant
Fungicide	<i>Topsin M 70WP</i>	0 days	24 hours		1 tablespoons	Sterile Inhibitor, Systemic
Insecticide	<i>Dipel</i>	0 days	4 hours		1 1/2 teaspoons	Organic
Insecticide	<i>Assail</i>	7 days	12 hours		1 teaspoon	
Insecticide	<i>Imidian</i>	14 days	4 days		1 teaspoon	
Insecticide	<i>Bonide 8</i>			3	4 tablespoons	Do not apply after petal fall
Fruit Tree Spray Bonide	<i>Captan, Malathion, Carbaryl</i>	14		2	2 tablespoons	