

2007 PROPOSED SPRAY PROGRAM

Based on 2006 field observations, the primary insect concerns are Codling Moth(CM), Plum Curculio(PC), and San Jose Scale(SJS). Additionally, Oriental Fruit Moth and Lesser Appleworm may have been responsible for some CM-like fruit damage, and will be monitored.

Arthropods that did not cause economic damage last year, but require scouting based on orchard history include: Spotted Tentiform Leafminer(STLM), Woolly Apple Aphids(WAA), and Potato and White Apple Leafhoppers(PLH and WALH).

Additional possible insect problems indicated below are (in order of their mention): Green Fruitworm (GFW), Oblique-Banded Leafroller(OBLR), Red-banded Leafroller (RBLR), White-Marked Tussock Moth(WMTM), Tarnished PlantBug(TPB).

Special Peach Spray – Dormant

For Peach Leaf Curl: Champ @5.5 pts/Acre or Kocide @ 8 lbs./Acre,
(This spray needs to be applied before bud swell.)

Apple Spray no.1 – Silver-tip

For Fireblight: Champ (@5.5 -6.5 pts/Acre or Kocide @8 -10 lbs./Acre
Apply orchard-wide to all scab susceptible varieties, as well as any scab-immune varieties with fireblight susceptibility. Since copper containing compounds exert some control on the scab fungus, this approach could take the place of the Green-tip application.

Green-tip to Quarter Inch Green: Captan @5lbs./Acre, or 2.5 lbs/acre each of captan and an EBDC (Dithane).

This and most of the following fungicide applications will be applied only to the scab susceptible portion of the orchard. They may also be applied in a split-application, applying to alternate rows at 3-4 day intervals.

Half-inch Green: EBDC (Dithane) @ 3.0 lbs./Acre. Possibly tank mixed with 5 oz/acre Nova, weather dependant.

(OPTIONAL) Superior Oil 70-sec @ 4-5 gals./acre applied with 90-100 gals water / acre. Application to be made between green-tip and tight cluster, with high temperatures in the 70s or 80s(F).

Tight Cluster/ Pink: EBDC @ 3.0lbs./Acre, with an option of either 5-8oz Nova/Acre, or 2 oz/acre Flint to be tank-mixed.

Bloom: EBDC @ 3 lbs./Acre, plus Flint @2oz/Acre

- **Bloom – Special spray:** Streptomycin @ 2lbs./Acre on fireblight sensitive varieties. The 2 lb. rate may be halved if 1 pt Regulaid /Acre is included. Also this spray needs to be applied only as fireblight-favorable conditions dictate.

Petal-fall: EBDC and Captan, each @ 2.5 lbs/acre, with the option of only one of those, tank-mixed with Flint or Nova at above rates (decision to be weather-based).

Insecticide: Imidan @ 3 lbs/Acre applied to perimeter only for PC control.

Insecticide: If necessary, Calypso to be applied to PC “hotspots”.

First Cover: EBDC and Captan, each @ 2.5 lbs/acre.

Insecticide: [Possible application-decision will be based on scouting results]

Assail @ 2.5 oz/acre for control of CM, PC, STLM, WALH.

Following First Cover we will spray according to weather and pest needs.

- Assume we will use approximately 12 lbs Captan per scab susceptible acre for the remainder of the season.
- Assume 1 complete application of **Rimon** @ 20-40 oz/ at 50-75 DD for CM and if needed, one additional application of **Calypso** at 6 oz/acre for CM and PC control.
- Assume 1 complete application of **Intrepid** @ 16 oz/Acre at 100-200 DD for CM
- Assume 1 complete applications of **Imidan** @ 2 lbs/Acre (6 lbs per acre total) at 220-250 DD for CM and apple maggot for the remainder of the season
- Assume 1 application of **Flint** @ 2oz/Acre in late July for control of summer diseases (sooty blotch and flyspeck).

This program assumes some bio-control of secondary pests such as STLM, ERM, SJS, and WAA. If the control exerted by the beneficial populations is insufficient, additional applications of insecticides or miticides may be needed.