Minor Pests of Cherry and Their Management

110th Washington State Horticultural Meeting
2 December, 2014  1:15 – 1:40 pm
Three Rivers Convention Center, Kennewick, WA

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What are ‘minor pests’?

Spotted wing drosophila

Western Cherry Fruit Fly
Early season - scales

San Jose scale

European Fruit Lecanium

Early season - Mites

European red mite adult

European red mite eggs on bark

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Early season - Cutworms

Cutworm damage to buds

Pyramidal green fruitworm

Early season – Black Cherry Aphid

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Mid-season - Leafrollers

Pandemis leafroller

Obliquebanded leafroller

Leafroller Life Histories

Pandemis and obliquebanded leafrollers

Larvae, Pupae, Adults, Eggs

Fly larvae vs. moth larvae

Controlling leafrollers

Target = young larvae
(old larvae hard to kill, pupae impossible!)

✓ Overwintering larvae
✓ Summer generation larvae (late June-early July)

*See DAS for model timing
Post-harvest: Leafminers

Photo M. Doerr

Post-harvest: Pearslug

Photo M. Doerr

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Post-harvest: Mites

McDaniel Mite damage to cherry

Diapausing McDaniel Mites at base of Cherry Tree

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Post-harvest: Rust mites

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Borers (moths) - Carpenterworm

American Plum Borer
Borers – beetles
Shothole borers

Leafhoppers

White apple leafhopper

Rose leafhopper
Western X disease

Lapin w/WX

Lapin w/WX & LChV1 (infected on left)

Post-harvest: Leafhoppers

Western X vectors:

Geminate leafhopper - *Colladonus geminatus*

Photo © K. Matz

Sharp-nosed leafhoppers - *Scaphytopius acutus*

Photo © M. Quinn
California WX abatement program
1985-1990

- tree inspections
- infected tree removal
- post-harvest applications of long-residual insecticides against leafhopper vectors

Most successful:
removal of infected trees
neighboring orchards doing the same

Little Cherry Disease

Bing w/LChV2
(infected on right)
Mid-season: Mealybugs

Grape mealybug

Apple mealybug

AMB Parasitoid: Anagyrus sp.
Apple Mealybug

There is one full and a partial second generation each year. Some eggs laid by first generation adults hatch during the summer; others overwinter. Some second generation crawlers also overwinter. Timings based on observations on pears in central Washington. Dates may vary on different hosts.

Apple mealybug control

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Minor Pests of Cherries

✓ Many, many minor pests
✓ Usually not a problem – until they are
✓ Can be irritating…or devastating