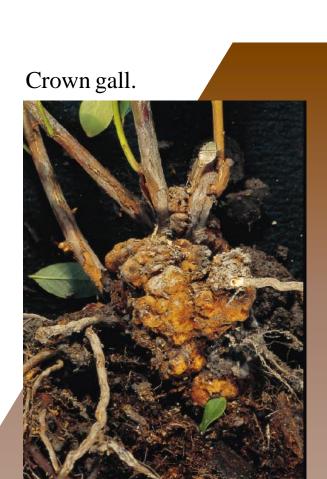
BLUEBERRY IP IVI

Growth **Stages**



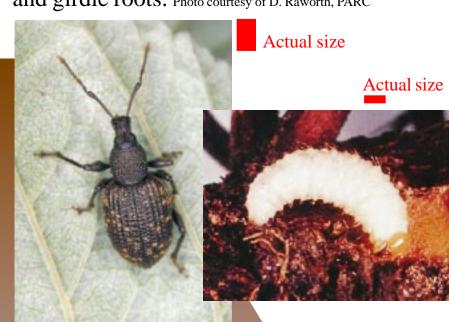
Bud Break



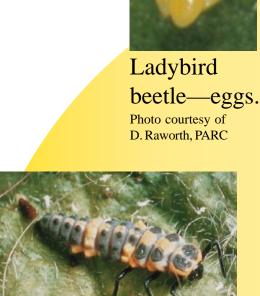


Girdling of crown caused by

Weevil—adult and grub. Grubs feed on, and girdle roots. Photo courtesy of D. Raworth, PARC







Ladybird beetle—larva.



Syrphid larva. Feeds on aphids, usually July and August.



Swollen shiny aphids contain developing parasites.

Actual size - to -

Feeds on aphids.

Natural Beneficials



Ladybird beetle—adult. Feeds on aphids. Photo courtesy of D. Raworth, PARC Actual size



Ground beetle. Feeds on weevil grubs, leatherjackets, and slugs. Photo courtesy of D. Raworth, PARC



Pink Tip



Mummy berry. Mummies producing cups which shoot primary spores into the air to infect opening buds.

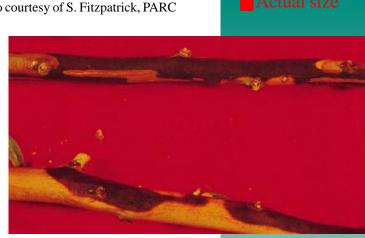




Mummy berry. Mummies that have dropped to the ground to overwinter.



Leafroller caterpillar. Found in rolled leaves. Photo courtesy of S. Fitzpatrick, PARC



Bacterial blight (Pseudomonas sp.) infection on one

year old wood.



Aphids—immatures and a winged adult. Feed on under surface of leaves.



caterpillars. Feed inside bud, flower and fruit clusters. Photo courtesy of S. Fitzpatrick,

Close-up of

small black

contain

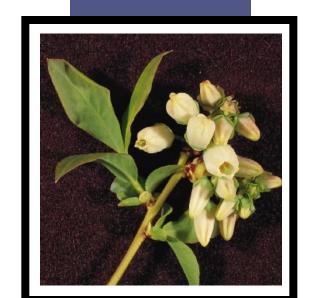
spores.

numerous

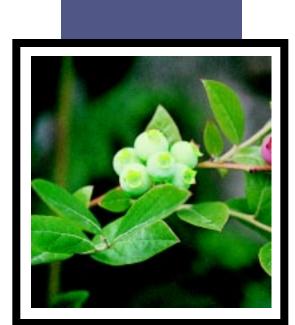
canker showing

pustules which

Godronia



Bloom



Green Berry

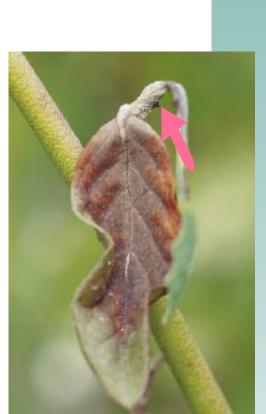
Flower Disorders



Infected flower buds producing secondary spores (arrow) that will infect open flowers.



Bacterial blight infection of new buds (Pseudomonas sp.). May be associated with frost injury.



Mummy berry infected leaf. The fungus is producing secondary spores (arrow) that will infect open flowers.





gall, weevil damage,

Calyx

contaminant-

Photo courtesy of S. Fitzpatrick, PARC



Flagging symptom which appears when the cane is girdled. May be caused by Godronia canker, crown bacterial blight or mechanical damage.



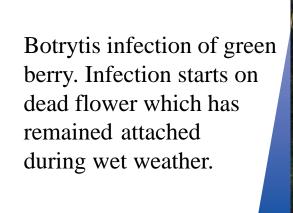
Godronia canker, with typical infections at leaf scars.



Lecanium



Ripe Berry





Blossom blighting from blueberry scorch virus.

Symptoms. Photo courtesy of Dr. R. Martin, USDA, Corvallis, OR

Blueberry shock ilarvirus can cause similar

Mummy berry. Infected fruit.



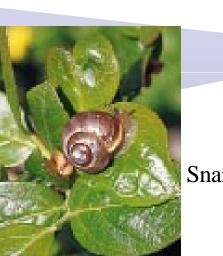
surface has a fuzzy, greenish-black mould.



Anthracnose fruit rot. Close-up of orange Spore masses. Photo courtesy of Dr. P. Bristow, WSU, Puyallup, WA



Fruit **Contaminants**



Snail.







Blueberry Integrated Pest Management Poster





