Most insects are beneficial; however, a few can cause serious injury to plants if left unchecked. Insects feed on or damage plants in three basic ways: 1) Chewing on the leaves, which reduces the plant’s ability to produce energy; 2) Piercing/sucking on the internal fluids of the plants, which reduces plant vigor; and 3) Boring, which disrupts water and nutrient flow. Here are ten of the more common insect pests associated with woody ornamentals in the Intermountain area. While healthy plants can tolerate some insect feeding or damage, control of certain insect pests may become necessary. Control should be based on correct identification and by incorporating integrated pest management (IPM) practices.

Aphids

**Description**
- Small (1/16” to 1/4”), soft bodied
- Vary in color
- Two “tailpipes” on anterior end
- Usually wingless

**Hosts**
- Most plants, especially rose, maple, linden, plum, cherry, apple etc.
- Damage plants by sucking plant fluids

**Symptoms & Signs**
- Sticky ‘honeydew’ on leaf surface
- Curling, cupping leaves
- Presence of ants, wasps and/or ladybird beetles

**Remedies**
- Healthy plants can tolerate some feeding
- Strong jet of water to dislodge insects
- Insecticidal soap
- Horticultural oils

Spider Mites

**Description**
- Extremely small (barely visible)
- Eight-legged arachnid

**Hosts**
- Most plants, especially Dwarf Alberta spruce, honeylocusts, junipers, fruit trees
- Damage by sucking plant fluids

**Symptoms & Signs**
- Mottled bronzing on leaves
- Small, thin webbing under leaf
- Reduced plant vigor

**Remedies**
- Healthy plants can tolerate some feeding
- Strong jet of water to dislodge insects
- Insecticidal soap
- Miticides (may cause future flare-ups, use sparingly)

Cankerworms

**Description**
- Small caterpillars (1/2” to 1”)
- Also called inchworms or loopers

**Hosts**
- Common on Gambel oak, maple and elm
- Prevalent in early spring

**Symptoms & Signs**
- Defoliated trees
- Silken threads
- Shredded leaves

**Remedies**
- Most trees will re-leaf and recover
- Bacillus thurengiensis (Bt)
- Other registered insecticides

Scales

**Description**
- Insect with hard or soft covering
- Immobile at maturity
- Appear as bumps
- Plant genus specific

**Hosts**
- Most plants, especially apple, pine, maple, elm etc.
- Damage plants by sucking plant fluid

**Symptoms & Signs**
- Sticky ‘honeydew’ on leaf surface
- Reduced plant vigor
- Spots with halos on fruit

**Remedies**
- Early spring sprays targeting mobile ‘crawlers’
- Dormant/summer oils
- Systemic insecticides

Ash / Lilac Borer

**Description**
- Clear-winged moth
- Looks like a wasp in appearance
- Larvae bore deep into wood, weakening trees

**Hosts**
- Ash, lilac trees

**Symptoms & Signs**
- Branch die back
- Oval-shaped exit holes usually near branch crotches
- Sawdust may be present

**Remedies**
- Proper plant selection
- Protective trunk sprays may reduce damage
Flat-headed Borers

Description
- Metallic-colored beetles
- Somewhat flattened / boat-shaped
- Larvae are hammer-headed
- Larvae attack just under the bark (cambium)

Hosts
- Quaking aspen, birch, poplar, willow
- Damage plants by disrupting nutrient flow

Symptoms & Signs
- Branch die back
- D-shaped exit holes
- Sawdust may be present

Remedies
- Proper plant selection
- Healthy plants are less prone to damage
- Systemic insecticides

Bark Beetles (lps)

Description
- Small black/brown beetle
- Larvae attack small diameter branches first
- Larvae attack just under the bark (cambium)
- Stressed /crowded trees more susceptible

Hosts
- Pine and spruce

Symptoms & Signs
- Branch die back (top attacked first)
- Pinhead-sized exit holes
- Sawdust may be present

Remedies
- Keep trees sufficiently irrigated
- Cut and remove infested trees
- Protective spray in early spring

Round-headed Borers

Description
- Long-horned beetles (long antenae)
- Larvae attack deep into wood
- Usually attack stressed plants

Hosts
- Common in poplar, willow, and black locust
- Firewood, stressed plants

Symptoms & Signs
- Branch die back
- Oval-shaped exit holes
- Sawdust may be present
- Feeding can be heard in firewood

Remedies
- Proper plant selection
- Solarization of wood pile
- Chemical control not recommended

Gall-forming Insects

Description
- Several small insects (aphids, beetles, flies, etc)
- Insect eggs laid under bark

Hosts
- Spruce (Cooley Spruce Gall Adelgid)
- Honeylocust (Honey Locust Pod Gall Midge)
- Oak (Oak Gall wasp)
- Quaking aspen (wasp)

Symptoms & Signs
- Presence of abnormal growths (galls)
- Form in response to chemical changes within the plant
- Provide physical protection from predators

Remedies
- Tolerate the aesthetic damage
- Prune out galls

Lilac Root Weevil

Description
- Black weevil, including other related root weevils
- Nocturnal
- Adults notch leaves
- Larvae feed on roots

Hosts
- Common on lilac, privet, euonymus, laurel etc....

Symptoms & Signs
- Notched leaves
- Reduced plant vigor
- Damaged root system

Remedies
- Allow dry periods between watering
- Systemic insecticides
- Registered insecticides

For more information, go to utahpests.usu.edu