**Amelanchier x grandiflora: Apple Serviceberry**

Edward F. Gilman and Dennis G. Watson

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### Introduction

Apple serviceberry is a hybrid between *Amelanchier canadensis* and *Amelanchier laevis* that grows 15 to 25 feet tall. Multiple stems are upright and highly branched forming a dense shrub, or if properly pruned in the nursery, a small tree. It is superior to either species in that it suckers less and is adapted to a wide range of soils, and tolerates some drought. The main ornamental feature is the white flowers that are larger than those of other amelanchiers. The flowers are borne in early spring and are at first tinged with pink but later fade to white. The young leaves are purplish and the fall color is yellow to orange. Edible fruit attracts birds. Well adapted for planting beneath power lines due to its small size.

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### General Information

- **Scientific name:** *Amelanchier x grandiflora*
- **Pronunciation:** am-meh-LANG-kee-er x gran-dih-FLOR-uh
- **Common name(s):** Apple serviceberry
- **Family:** Rosaceae
- **USDA hardiness zones:** 4A through 7B (Fig. 2)
- **Origin:** not native to North America
- **Invasive potential:** little invasive potential
- **Uses:** container or planter; highway median; street without sidewalk; deck or patio; specimen; tree lawn 3–4 feet wide; tree lawn 4–6 feet wide; tree lawn > 6 ft wide
- **Availability:** somewhat available, may have to go out of the region to find the tree

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**Description**

Height: 15 to 25 feet  
Spread: 15 to 25 feet  
Crown uniformity: irregular  
Crown shape: upright/erect, vase  
Crown density: moderate  
Growth rate: slow  
Texture: fine

**Foliage**

Leaf arrangement: alternate (Fig. 3)  
Leaf type: simple  
Leaf margin: serrate  
Leaf shape: elliptic (oval), oblong  
Leaf venation: pinnate  
Leaf type and persistence: deciduous  
Leaf blade length: less than 2 inches, 2 to 4 inches  
Leaf color: green  
Fall color: yellow, orange, red  
Fall characteristic: showy

**Flower**

Flower color: white/cream/gray  
Flower characteristics: very showy

**Fruit**

Fruit shape: round  
Fruit length: less than .5 inch  
Fruit covering: fleshy  
Fruit color: red  
Fruit characteristics: attracts birds; showy; fruit/leaves not a litter problem

**Trunk and Branches**

Trunk/bark/branches: branches don’t droop; showy; typically multi-trunked; thorns  
Pruning requirement: little required

**Breakage:** resistant  
**Current year twig color:** brown  
**Current year twig thickness:** thin  
**Wood specific gravity:** unknown

**Culture**

Light requirement: full sun, partial sun or partial shade  
Soil tolerances: clay; sand; loam; acidic; well-drained  
Drought tolerance: moderate  
Aerosol salt tolerance: moderate

**Other**

Roots: not a problem  
Winter interest: no  
Outstanding tree: yes  
Ozone sensitivity: tolerant  
Verticillium wilt susceptibility: unknown  
Pest resistance: sensitive to pests/diseases

**Use and Management**

‘Cumulus’—is moderately columnar, may sucker at the root collar; ‘Robin Hill’ has an upright habit, 20 to 25 feet tall, sensitive to drought; ‘Autumn Brilliance’ is supposedly resistant to leaf spot.

**Pests**

Cambium miners cause concern when noticed but are not very damaging to the tree. The mines can extend from a twig all the way down to the roots. The mines are light colored lines in the bark. No controls are suggested.

A leaf miner will mine leaves, particularly the lower half of the leaf. The mines are irregular in shape.

The leaves of amelanchier are skeletonized by at least two insects. The first insect forms small cocoons on the undersides of leaves. Skeletonized leaves look as though they have windows in them after the insects scrape tissue off the top and bottom of the leaves. The second insect is the larva of the pear sawfly. The larvae are black to greenish black and look slimy. Adult sawflies lay eggs in May and June and again in August. Heavily skeletonized leaves drop off.

Several borers attack amelanchier. Healthy trees are considered less susceptible, so regular fertilization and watering during dry spells will help prevent borer attacks.

Spider mites will feed on amelanchier. These insects are hard to detect as they are so small. The main symptom of mite injury is the loss of green leaf coloration. If the

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infestation is heavy, very fine webbing may be seen. Horticultural oil sprays help control mite infestations.

Aphids of several types suck juices from amelanchier. Heavy infestations cause distortion of the foliage and new growth, and deposit large amounts of sticky honeydew on lower foliage. Black sooty mold will grow on the honeydew.

**Diseases**

Witches' broom, also called black mildew, infects the growing point causing the formation of many stems. The cluster of stems is called the “witches’ broom”. Another symptom is a black fungal growth, coating the undersides of the leaves. The damage to the tree is usually not serious and the brooms can be pruned off. No chemical controls are suggested.

Leaf blight can cause leaf drop when a severe infection occurs. The disease causes small purple spots on the leaves. The spots enlarge and turn brown, later a small black dot will be seen in the center of the spot. Large numbers of spots cause infected leaves to drop.

Fire blight is characterized by the sudden wilting and death of branch tips. The blossoms wilt, blacken, and hang on the twig. The bark is shriveled and has small bumps or blisters on it. Sometimes gum oozes out of the infected area and a crack forms between the diseased and healthy bark. Control with chemicals is difficult. Diseased branches should be pruned out. Make the cut at least four inches beyond the diseased area. Disinfect pruning tools with bleach between cuts. Fertilizing heavily with nitrogen increases susceptibility to fire blight.

Powdery mildews of several types cause white powdery growth on the leaves of amelanchier. Late in the season no controls may be needed.

Fruit rot be a problem in wet weather. The fruits are often eaten by birds so may not be around long enough to become diseased.

Cedar rusts can be troublesome.