



Amelanchier x grandiflora Apple Serviceberry¹

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INTRODUCTION

Apple Serviceberry is a hybrid between *Amelanchier canadensis* and *Amelanchier laevis* that grows 15 to 25 feet tall (Fig. 1). 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.

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: 4 through 7 (Fig. 2)

Origin: not native to North America

Uses: container or above-ground planter; wide tree lawns (>6 feet wide); medium-sized tree lawns (4-6 feet wide); recommended for buffer strips around parking lots or for median strip plantings in the highway; near a deck or patio; specimen; residential street tree

Availability: somewhat available, may have to go out of the region to find the tree

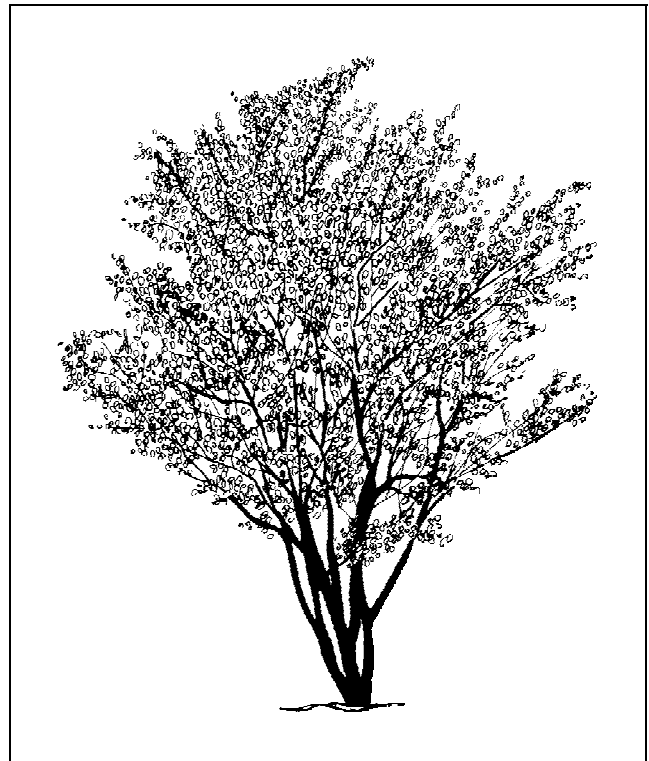


Figure 1. Middle-aged Apple Serviceberry.

DESCRIPTION

Height: 15 to 25 feet

Spread: 15 to 25 feet

Crown uniformity: irregular outline or silhouette

Crown shape: upright; vase shape

Crown density: moderate

Growth rate: slow

Texture: fine

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Figure 2. Shaded area represents potential planting range.

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:** 2 to 4 inches; less than 2 inches
- Leaf color:** green
- Fall color:** orange; red; yellow
- Fall characteristic:** showy

Flower

- Flower color:** white
- Flower characteristics:** spring flowering; very showy

Fruit

- Fruit shape:** round
- Fruit length:** < .5 inch
- Fruit covering:** fleshy
- Fruit color:** red

Fruit characteristics: attracts birds; suited for human consumption; no significant litter problem; persistent on the tree; showy

Trunk and Branches

- Trunk/bark/branches:** bark is thin and easily damaged from mechanical impact; routinely grown with, or trainable to be grown with, multiple trunks; grow mostly upright and will not droop; showy trunk; tree wants to grow with several trunks but can be trained to grow with a single trunk; no thorns
- Pruning requirement:** needs little pruning to develop a strong structure
- Breakage:** resistant
- Current year twig color:** brown
- Current year twig thickness:** thin

Culture

- Light requirement:** tree grows in part shade/part sun; tree grows in full sun
- Soil tolerances:** clay; loam; sand; acidic; well-drained
- Drought tolerance:** moderate
- Aerosol salt tolerance:** moderate

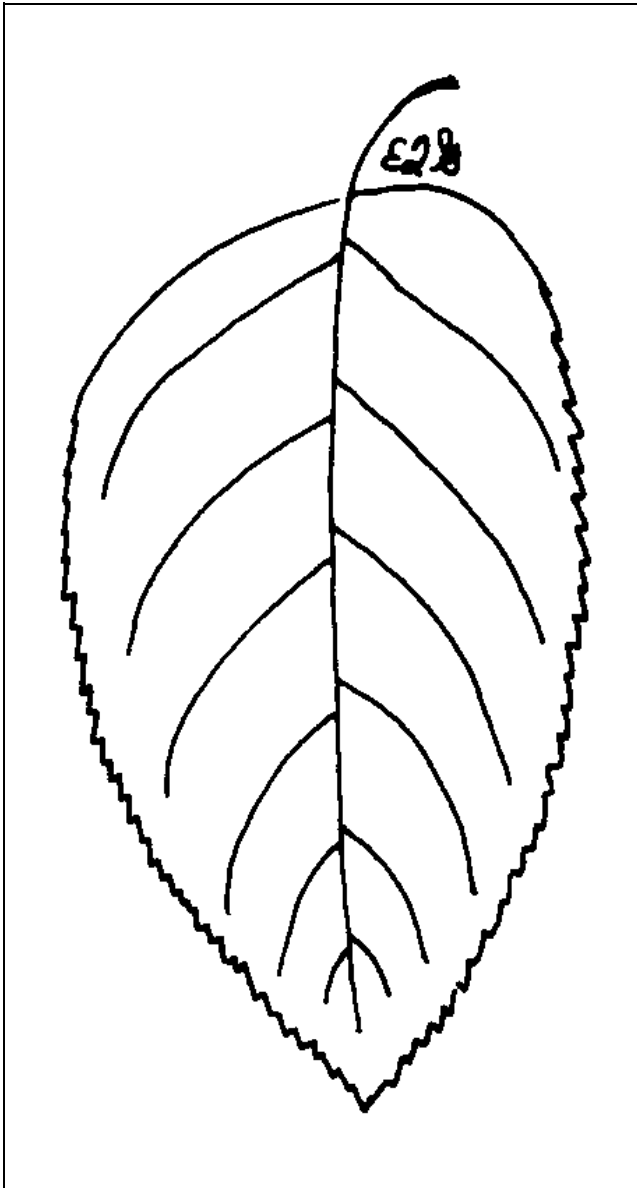


Figure 3. Foliage of Apple Serviceberry.

Soil salt tolerance: moderate

Other

Roots: surface roots are usually not a problem

Winter interest: no special winter interest

Outstanding tree: tree has outstanding ornamental features and could be planted more

Invasive potential: little, if any, potential at this time

Ozone sensitivity: tolerant

Pest resistance: very sensitive to one or more pests or diseases which can affect tree health or aesthetics

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 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.