



Amelanchier x grandiflora 'Autumn Brilliance' 'Autumn Brilliance' 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 the species in that it suckers less and is adapted to a wide range of soils, but tolerates some drought. This cultivar supposedly resists leaf spot better than the original hybrid. The main ornamental feature is the spectacular 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 red, yellow or orange. Edible fruit attracts birds. Well-adapted for planting along residential streets where there is plenty of soil space beneath power lines.

GENERAL INFORMATION

Scientific name: *Amelanchier x grandiflora* 'Autumn Brilliance'

Pronunciation: am-meh-LANG-kee-er x gran-dih-FLOR-uh

Common name(s): 'Autumn Brilliance' Apple Serviceberry

Family: *Rosaceae*

USDA hardiness zones: 3B 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

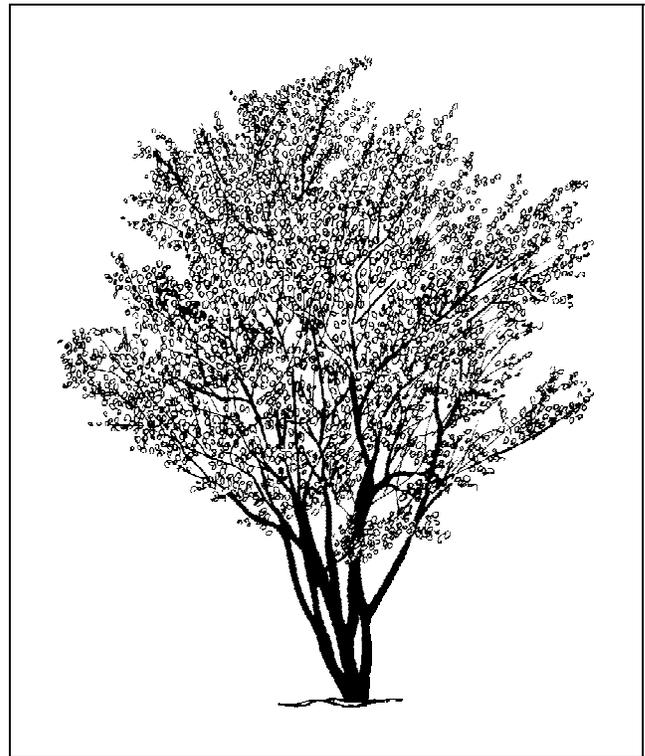


Figure 1. Middle-aged 'Autumn Brilliance' Apple Serviceberry.

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

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Figure 2. Shaded area represents potential planting range.

DESCRIPTION

Height: 15 to 25 feet
Spread: 15 to 25 feet
Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms
Crown shape: upright; vase shape
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: 2 to 4 inches; less than 2 inches
Leaf color: green
Fall color: orange; red
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

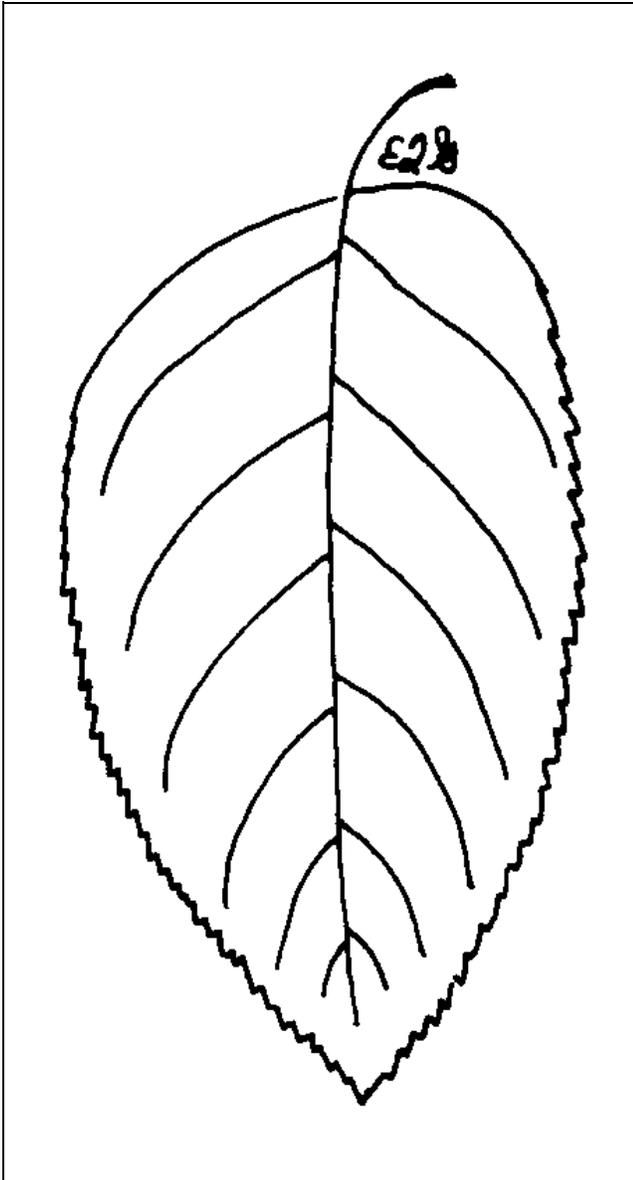


Figure 3. Foliage of 'Autumn Brilliance' Apple Serviceberry.

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

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

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

USE AND MANAGEMENT

'Robin Hill' has an upright, tree-form growth habit, 20 to 25 feet tall, but is sensitive to drought.

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.