



Fraxinus americana 'Autumn Applause' 'Autumn Applause' White Ash¹

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INTRODUCTION

'Autumn Applause' White Ash is a male tree introduced in 1975, growing 40 to 50 feet tall and perhaps 25 to 30 feet wide, and is a cultivar of the species which is native to moist locations (Fig. 1). The tree grows rapidly and is almost pyramidal with a round top when young, but gradually slows down and develops an oval shape. 'Autumn Applause' White Ash prefers a sunny exposure where it will develop its consistently-outstanding deep red, maroon or purple fall color, whereas the species develops yellow or no fall color. Fall color often comes earlier than on other trees. It has one of the most stunning displays of fall color.

GENERAL INFORMATION

Scientific name: Fraxinus americana 'Autumn

Applause'

Pronunciation: FRACK-sih-nus

uh-mair-ih-KAY-nuh

Common name(s): 'Autumn Applause' White Ash

Family: Oleaceae

USDA hardiness zones: 4B through 9A (Fig. 2)

Origin: native to North America

Uses: wide tree lawns (>6 feet wide); recommended for buffer strips around parking lots or for median strip plantings in the highway; shade tree; residential street

tree; no proven urban tolerance

Availability: generally available in many areas within

its hardiness range

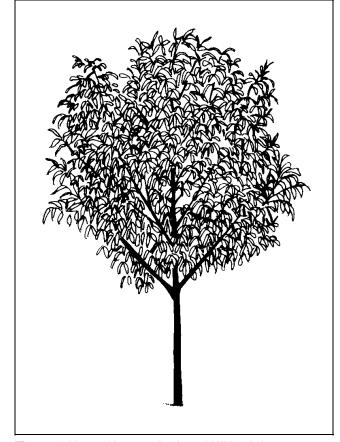


Figure 1. Young 'Autumn Applause' White Ash.

DESCRIPTION

Height: 40 to 60 feet **Spread:** 25 to 40 feet

Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more

or less identical crown forms

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Figure 2. Shaded area represents potential planting range.

Crown shape: oval; round Crown density: moderate

Growth rate: fast **Texture:** medium

Foliage

Leaf arrangement: opposite/subopposite (Fig. 3)

Leaf type: odd pinnately compound Leaflet margin: entire; serrulate Leaflet shape: lanceolate; ovate Leaflet venation: pinnate

Leaf type and persistence: deciduous **Leaflet blade length:** 2 to 4 inches

Leaf color: green

Fall color: purple; yellow Fall characteristic: showy

Flower

Flower color: green

Flower characteristics: inconspicuous and not

showy; spring flowering

Fruit

There is no fruit on this tree.

Trunk and Branches

Trunk/bark/branches: grow mostly upright and will not droop; not particularly showy; should be grown

with a single leader; no thorns

Pruning requirement: needs little pruning to develop

a strong structure **Breakage:** resistant

Current year twig color: brown; gray Current year twig thickness: thick Wood specific gravity: 0.60

Culture

Light requirement: tree grows in part shade/part sun;

tree grows in full sun

Soil tolerances: clay; loam; sand; acidic; occasionally wet; alkaline; well-drained

Drought tolerance: moderate **Aerosol salt tolerance:** high

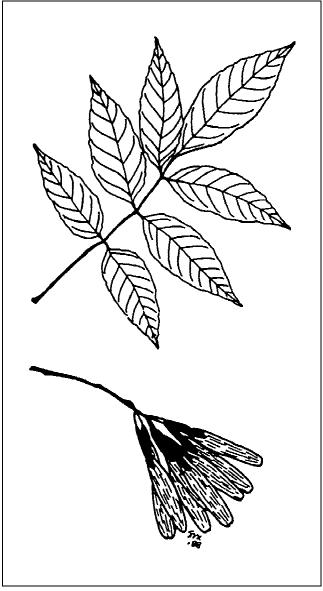


Figure 3. Foliage of 'Autumn Applause' White Ash.

Other

Roots: surface roots can lift sidewalks or interfere with mowing

Winter interest: no special winter interest
Outstanding tree: not particularly outstanding
Invasive potential: little, if any, potential at this time
Verticillium wilt susceptibility: susceptible
Pest resistance: very sensitive to one or more pests
or diseases which can affect tree health or aesthetics

USE AND MANAGEMENT

This is a good tree for large open areas but too large for many home landscapes unless shade is needed on the roof. It is well-adapted for use as a street tree but extensive use may be unwise because of potential insect and disease problems as the tree gets older and because of its sensitivity to extreme drought. Ash decline is one of its major problems and is probably caused by a complex of conditions, including a mycoplasma-like organism. It has taken out many trees in some locations. However, one advantage of 'Autumn Applause' is the lack of seeds. Seeds are a constant nuisance on the species and can limit the species' usefulness as a street tree.

Ash which have not been properly pruned can break apart in wind storms, but White Ash has better branch structure than seedling Green Ash. 'Autumn Applause' reportedly has better structure than the species with many closely-spaced branches. Be sure to space major branches along the trunk and remove those which are vigorously growing upright with narrow branch crotches. Ash also has a tendency to produce vigorous main scaffold branches opposite each other on the trunk. Remove one so there is only one at each position on the trunk. Some problems with graft incompatibility have occurred with cultivars of White Ash causing tree failure and breakage as the tree grows. Select trees propagated on their own roots.

Grow Ash in the full sun or partial shade preferably in a moist site although the tree does withstand drought fairly well. Growth will be best in slightly acidic, neutral or slightly basic soil pH. Avoid trees which have been budded onto Green Ash.

Pests

Borers can kill trees. The most common borers infesting Ash are Ash borer, lilac borer and carpenterworm. They can infest and ruin even vigorously growing trees but are most common on recently transplanted and trees stressed from other problems. Ash borer bores into the trunk at or near the soil line causing tree dieback. Lilac borer causes swellings on the trunk and limbs where the insect enters the tree. The carpenterworm larvae bore into the heartwood but come to the outside of the tree to push out frass and sawdust. Heavily infested trees can be severely weakened. Keep trees as healthy as possible by fertilizing regularly and watering during dry weather.

Aphids are often seen but are usually not serious.

In late summer, fall webworm covers branches with webbing. The nests in branches close to the ground can be pruned out when first noticed. *Bacillus thuringiensis* will control fall webworm.

The Ash flower-gall looks like a disease but is actually a mite problem. The mites feed on the flowers causing abnormal growth. The galls dry out and persist on the tree into winter. Apply horticultural oil for some control.

Scales can usually be controlled with sprays of horticultural oil.

Diseases

The most serious problem is Ash decline or dieback which has a variety of causes, some poorly understood. The rest of the diseases listed below are usually not serious.

A rust disease causes distorted leaves and swollen twigs. Small, yellow, cup-like structures, producing yellow spores, appear on the infected areas. Controls are usually not needed.

A number of fungi cause leaf spots on Ash. The disease is worse in wet years and is partially controlled by gathering and disposing of diseased, fallen leaves.

Anthracnose is also called leaf scorch and leaf spot. Infected parts of the leaves turn brown, especially along the margins. Infected leaves fall prematurely. Rake up and destroy infected leaves. Chemical controls are not practical or economical on most large trees.

Canker diseases cause branch dieback and death of the tree when the trunk is infected. Try to keep trees healthy with regular fertilization.

Powdery mildew makes a white coating on the leaves.

Ash ring spot virus causes chlorotic yellow or reddish spots or rings on the leaves. Infected trees may be stunted and dieback but this usually does not happen.

Verticillium wilt causes branches of infected trees to wilt and die, eventually the entire tree may die. Keep trees healthy and fertilize infected trees with high nitrogen fertilizer to suppress disease symptoms.