



Fraxinus pennsylvanica 'Newport' 'Newport' Green Ash¹

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INTRODUCTION

'Newport' Green Ash (also known as Baileys Select) grows into an upright pyramidal form when young, maturing to a rather open, oval silhouette 55 feet tall by 40 feet wide (Fig. 1). Once developed properly in the nursery, the trunk remains straight up through the crown of the tree and the branch habit is reported to be better than the species. Early pruning helps assure that this happens. The trees grow quickly and can sometimes reach 80 feet in height. Green to reddish-purple flowers appear in spring but do not produce fruit since the plant is a male. This could make this a superior replacement for the once very popular 'Marshall Seedless' which has some female trees mixed with the population and now some trees are fruiting. 'Marshall Seedless' is also reportedly susceptible to storm damage, although some of this could be due to improper or no pruning. Unlike other Green Ashes which have unpredictable fall color, 'Newport' Green Ash displays foliage of an intense golden-yellow. The attractive bark is red-tinged and furrowed.

GENERAL INFORMATION

Scientific name: *Fraxinus pennsylvanica* 'Newport' Pronunciation: FRACK-sih-nus pen-sill-VAN-ih-kuh Common name(s): 'Newport' Green Ash Family: *Oleaceae* USDA hardiness zones: 3 through 8A (Fig. 2) Origin: native to North America Uses: large parking lot islands (> 200 square feet in size); wide tree lawns (>6 feet wide); recommended for buffer strips around parking lots or for median strip

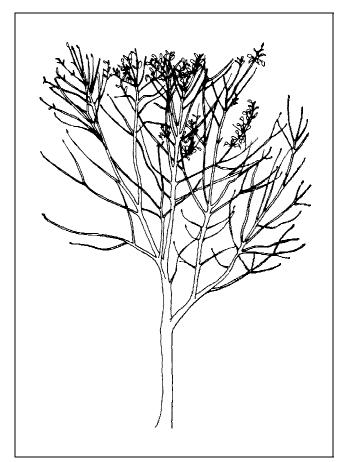


Figure 1. Young 'Newport' Green Ash.

plantings in the highway; reclamation plant; shade tree; sidewalk cutout (tree pit); residential street tree; tree has been successfully grown in urban areas where air pollution, poor drainage, compacted soil, and/or drought are common

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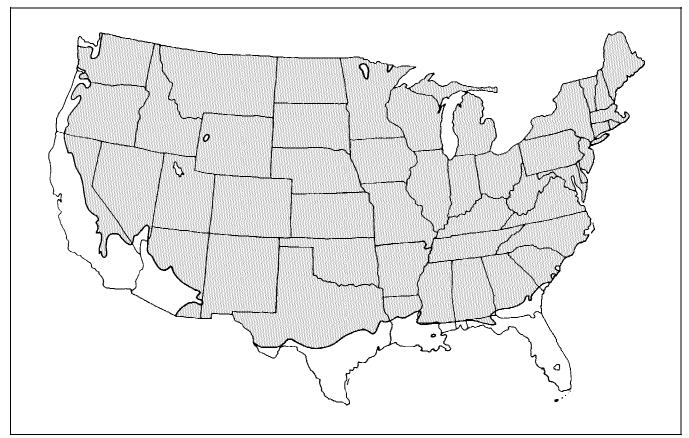


Figure 2. Shaded area represents potential planting range.

Availability: generally available in many areas within its hardiness range

DESCRIPTION

Height: 55 to 60 feet Spread: 40 to 50 feet Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms Crown shape: oval; upright Crown density: moderate Growth rate: fast Texture: medium

Foliage

Leaf arrangement: opposite/subopposite (Fig. 3) Leaf type: odd pinnately compound Leaflet margin: crenate; entire; serrate Leaflet shape: lanceolate; ovate Leaflet venation: pinnate Leaf type and persistence: deciduous Leaflet blade length: 2 to 4 inches Leaf color: green Fall color: 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: requires pruning to develop strong structure Breakage: resistant Current year twig color: brown; gray Current year twig thickness: thick Wood specific gravity: 0.56 Fraxinus pennsylvanica 'Newport' -- 'Newport' Green Ash

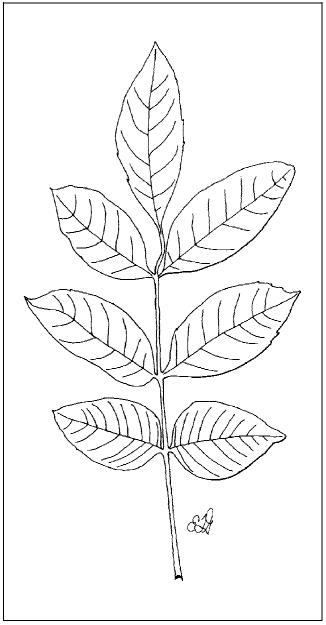


Figure 3. Foliage of 'Newport' Green Ash.

Culture

Light requirement: tree grows in full sun Soil tolerances: clay; loam; sand; acidic; alkaline; extended flooding; well-drained Drought tolerance: high Aerosol salt tolerance: moderate Soil salt tolerance: moderate

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

'Newport' Green Ash appears to maintain a straight leader and does not branch into a double or multiple trunk unless it is pruned improperly and topped. Topping is not a good practice and topped trees should not be planted because they will not stay together in a strong storm. Be sure that they have one central leader (one trunk) and branches which are well spaced along that trunk.

'Newport' Green Ash adapts well to city street tree planting pits and other confined soil spaces, and grows in wet or dry soils, acid or alkaline. Like some other rapidly-growing trees, surface roots can develop and become a nuisance as they lift curbs, sidewalks and make mowing difficult, particularly in clay soil. Planting only in well-drained uncompacted soil may help keep surface rooting in check. Using root barriers around the edge of planting pits and along sidewalks would deflect roots down, encouraging deeper rooting and less maintenance problems. 'Newport' Green Ash roots can tolerate the low soil oxygen conditions present at these greater soil depths. Trees transplant easily from field nurseries or from containers and although their native habitat is moist streambanks and bottomlands, they adapt to urban soils including those with high pH, salt and droughty sites.

Propagation is by grafting buds onto seedling rootstock.

Pests

The most common borers infesting Ash are Ash borer, lilac borer and carpenterworm. Borers are common on Green Ash, particularly those recently transplanted or under stress 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.

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.

Diseases

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 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 green and reddish spots or rings on the leaves. Infected trees may be stunted and dieback, but usually this is a minor problem.

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.