



Fagus sylvatica 'Purpurea Pendula' 'Purpurea Pendula' European Beech¹

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INTRODUCTION

Weeping Purple European Beech is more of a shrub than a tree, growing to about 10 feet tall (Fig. 1). Branches normally sweep up and away from the center of the tree forming a mound of foliage. It is usually not trained to a central leader but could be trained this way to create a 'standard' type tree. The tree grows slowly, recovers slowly from transplanting and prefers a sunny location and a moist, light soil. Though not a street tree, the tree makes a fine specimen for small landscapes. It is somewhat tolerant of heat and dry soil, but it is best to locate it where it would receive adequate moisture.

GENERAL INFORMATION

Scientific name: Fagus sylvatica 'Purpurea Pendula'

Pronunciation: FAY-gus sill-VAT-ih-kuh **Common name(s):** 'Purpurea Pendula' European

Beech

Family: Fagaceae

USDA hardiness zones: 4 through 7 (Fig. 2)

Origin: not native to North America **Uses:** specimen; no proven urban tolerance

Availability: grown in small quantities by a small

number of nurseries

DESCRIPTION

Height: 10 to 15 feet **Spread:** 10 to 15 feet

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

or less identical crown forms

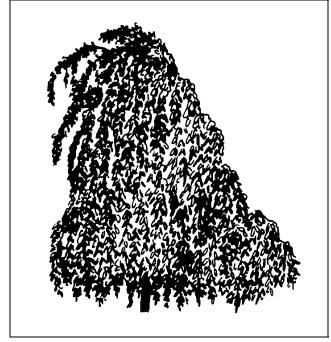


Figure 1. Middle-aged 'Purpurea Pendula' European Beech.

Crown shape: weeping Crown density: dense Growth rate: slow Texture: medium

Foliage

Leaf arrangement: alternate (Fig. 3)

Leaf type: simple

Leaf margin: entire; undulate **Leaf shape:** elliptic (oval); ovate

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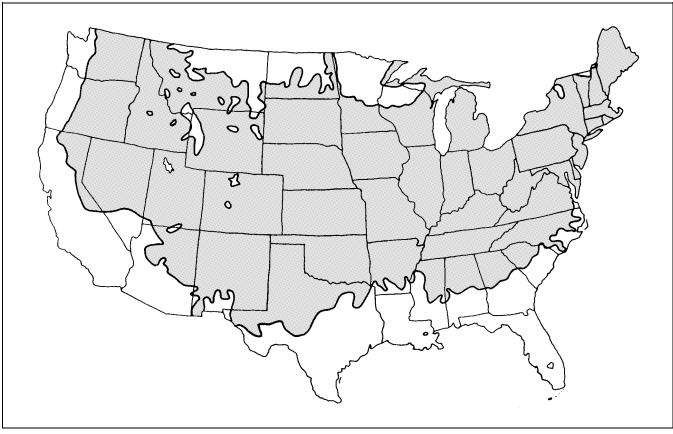


Figure 2. Shaded area represents potential planting range.

Leaf venation: pinnate

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

Leaf color: purple or red

Fall color: copper

Fall characteristic: showy

Flower

Flower characteristics: inconspicuous and not

showy; spring flowering

Fruit

Fruit shape: oval

Fruit length: .5 to 1 inch Fruit covering: dry or hard

Fruit color: brown

Fruit characteristics: attracts birds; suited for human consumption; inconspicuous and not showy; no

significant litter problem

Trunk and Branches

Trunk/bark/branches: bark is thin and easily damaged from mechanical impact; droop as the tree grows, and will require pruning for vehicular or pedestrian clearance beneath the canopy; showy trunk; 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: thin

Culture

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

tree grows in full sun

Soil tolerances: clay; loam; sand; slightly alkaline;

acidic; well-drained

Drought tolerance: moderate
Aerosol salt tolerance: low
Soil salt tolerance: poor

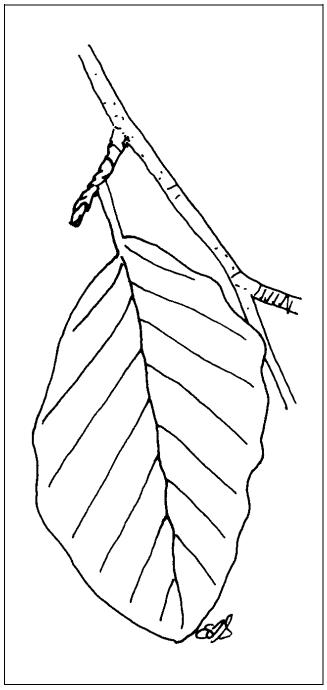


Figure 3. Foliage of 'Purpurea Pendula' European Beech.

Other

Roots: surface roots are usually not a problem **Winter interest:** tree has winter interest due to unusual form, nice persistent fruits, showy winter trunk, or winter flowers

Outstanding tree: not particularly outstanding Invasive potential: little, if any, potential at this time Verticillium wilt susceptibility: not known to be susceptible

Pest resistance: long-term health usually not affected by pests

USE AND MANAGEMENT

European Beech has given rise to many other cultivars: 'Albo-variegata' - leaves margined white; 'Asplenifolia' - cut leaves; 'Atropunica' - leaves purple; 'Cochleata' - smaller, spoon-shaped leaves; 'Cuprea' - leaves copper colored; 'Dawycki' - upright growth habit; 'Fastigiata' - upright growth habit; 'Laciniata' - leaves cut, wider more regularly-shaped than 'Asplenifolia'; 'Macrophylla' - larger leaves; 'Miltonensis' - leader erect, main branches horizontal, side branches pendulous; 'Pendula' - weeping habit; 'Purpurea Pendula' - weeping with purple leaves; 'Quercifolia' - slow growing, leaves oak-like; 'Riversii' - young foliage reddish then purple; 'Rohanii' - similar to 'Laciniata'; 'Roseo-marginata' purple leaves with light pink border, grow in shade to prevent leaf burn, not easily grown; 'Rotundifolia' leaves round; 'Spaethiana' - leaves purple; 'Tortuosa' low, spreading, umbrella-like; 'Tricolor' - leaves green and white with pink margins; 'Zlatia' - leaves golden in spring.

Pests

Usually none are serious. Aphid colonies on the lower branches can be dislodged with a strong stream of water from the garden hose. Colonies are often disposed of by predatory insects.

Borers such as flat-headed appletree borer or two-lined chestnut borer bore into trees weakened by some stress. Prevent the insect infestations by keeping trees healthy with regular fertilization and irrigation in dry weather.

Regular inspections of the trunk and branches are suggested for early detection of scales. Horticultural oil sprays will help control scales.

Certain caterpillars can be controlled with sprays of *Bacillus thuringiensis*.

Diseases

Usually none are serious provided soil is loose and is well-drained.

Several fungi cause leaf spots but are generally not serious to warrant chemical control.

Powdery mildew causes a white coating on the leaves. The disease is most common late in the season.

Bleeding canker forms cankers from which a brownish liquid oozes. Crown symptoms include leaves of smaller size and lighter green color than normal. In severe cases the leaves wilt and the branches die. Avoid feeding with high nitrogen fertilizers as it seems to worsen the condition of infected trees.

Beech bark disease occurs when the feeding site of woolly Beech scale is invaded by a fungus. The fungus kills the bark and in the process, the insects. There are no satisfactory controls for the fungus. Control the disease by controlling the scale with a horticultural oil.

Cankers infect, girdle, and occasionally kill branches. Prune out the infected branches.

During periods of high temperatures and low rainfall Beech leaves may scorch. Make sure trees are adequately watered.