

# *Fagus sylvatica* 'Pendula': Weeping European Beech<sup>1</sup>

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## Introduction

Weeping European Beech grows into a wide, weeping mass of green foliage, 30 to 50 feet tall and spreads 30 to 50 feet. Branches normally grow up, sag to the horizontal, then sweep toward the ground in a graceful fashion. Young trees are often trained with a central leader for 10 feet or more into the crown, then the tree is allowed to weep to the ground. This can produce a tree wider than tall, or if side branches are removed, one that is tall and narrow. It grows slowly but is worth the wait. Leaves show a lustrous dark green color throughout the summer and form a very dense canopy. Some specimens have a narrow crown, others grow as wide as they are tall so allow plenty of room for growth. Not a tree for residential or other small landscapes. The branches are thin but not as flexible as those of weeping willow.

## General Information

**Scientific name:** *Fagus sylvatica*

**Pronunciation:** FAY-gus sill-VAT-ih-kuh

**Common name(s):** Weeping European Beech

**Family:** *Fagaceae*

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

**Origin:** not native to North America

**Invasive potential:** little invasive potential

**Uses:** specimen

**Availability:** not native to North America

## Description

**Height:** 30 to 50 feet



Figure 1. Middle-aged *Fagus sylvatica* 'Pendula': Weeping European Beech

**Spread:** 30 to 60 feet

**Crown uniformity:** irregular

**Crown shape:** weeping

**Crown density:** dense

**Growth rate:** moderate

**Texture:** medium

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Figure 2. Range

## Foliage

**Leaf arrangement:** alternate (Fig. 3)

**Leaf type:** simple

**Leaf margin:** undulate, entire

**Leaf shape:** ovate, elliptic (oval)

**Leaf venation:** pinnate

**Leaf type and persistence:** deciduous

**Leaf blade length:** 2 to 4 inches

**Leaf color:** green

**Fall color:** copper

**Fall characteristic:** showy

## Flower

**Flower color:** unknown

**Flower characteristics:** not showy

## Fruit

**Fruit shape:** oval

**Fruit length:** .5 to 1 inch

**Fruit covering:** dry or hard

**Fruit color:** brown

**Fruit characteristics:** attracts birds; not showy; fruit/leaves not a litter problem

## Trunk and Branches

**Trunk/bark/branches:** branches droop; showy; typically one trunk; thorns

**Pruning requirement:** needed for strong structure

**Breakage:** resistant

**Current year twig color:** brown, gray

**Current year twig thickness:** thin

**Wood specific gravity:** unknown

## Culture

**Light requirement:** full sun, partial sun or partial shade

**Soil tolerances:** clay; sand; loam; acidic; slightly alkaline; well-drained

**Drought tolerance:** moderate

**Aerosol salt tolerance:** low

## Other

**Roots:** can form large surface roots

**Winter interest:** yes

**Outstanding tree:** yes

**Ozone sensitivity:** unknown

**Verticillium wilt susceptibility:** resistant

**Pest resistance:** resistant to pests/diseases



Figure 3. Foliage

## Use and Management

Though not a street tree, it makes one of the finest specimens of all those available in North America for large-scale landscapes. It may be the most picturesque of all the weeping trees. It can be pruned to create a tunnel or walkway beneath the crown for pedestrians. It is probably best located in a large open area where people can enjoy it from a distance.

The tree grows slowly, is hard to transplant, and prefers a sunny location on moist, light soil. Weeping Beech is somewhat tolerant of heat and dry soil but it is best to locate it where it would receive adequate moisture. Over-watering can kill the roots due to the tree's intolerance of low soil oxygen. Not for clay soil unless drainage is very good and not for dry climates. A rather tricky tree to grow.

## Pests

Most problems are seen on the bark.

Aphids 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.

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*. Insect identification allows proper spray recommendations to be made.

## Diseases

Some bark inhabiting fungi cause problems.

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 spray of oil.

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

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