



# *Tilia americana* 'Fastigiata' 'Fastigiata' American Linden<sup>1</sup>

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# INTRODUCTION

'Fastigiata' American Linden grows 50 to 70 feet tall and 30 to 45 feet wide forming a narrow pyramidal shape with upright branches and shiny leaves and is fairly drought-tolerant (Fig. 1). The tree is pyramidal when young but develops into a striking specimen with an upright, rounded oval atop a tall, straight trunk. The lower branches remain on the tree and gently drape toward the ground before sweeping up in a gentle curve. The four to eight-inch-long, heart-shaped leaves are dark green throughout the year fading only to pale green or yellow before dropping in autumn. In June, the trees produce abundant, two to three-inch-wide clusters of very fragrant, light yellow blooms which are extremely attractive to bees, who make a delicious honey from their harvests. The small, grey nut which is later produced will persist on the tree until midwinter. The trunk on the species can grow to six feet or more across on mature specimens.

## **GENERAL INFORMATION**

Scientific name: *Tilia americana* 'Fastigiata' Pronunciation: TILL-ee-uh uh-mair-ih-KAY-nuh Common name(s): 'Fastigiata' American Linden, 'Fastigiata' Basswood, 'Fastigiata' American Basswood Family: *Tiliaceae* USDA hardiness zones: 4 through 8 (Fig. 2) Origin: native to North America Uses: hedge; wide tree lawns (>6 feet wide); residential street tree; no proven urban tolerance Availability: somewhat available, may have to go out of the region to find the tree

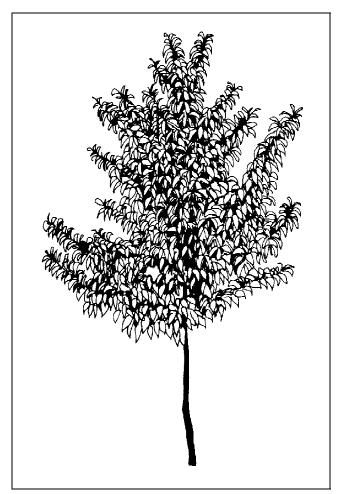


Figure 1. Mature 'Fastigiata' American Linden.

<sup>1.</sup> This document is adapted from Fact Sheet ST-635, a series of the Environmental Horticulture Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Publication date: October 1994.

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Figure 2. Shaded area represents potential planting range.

### DESCRIPTION

Height: 50 to 70 feet
Spread: 30 to 40 feet
Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms
Crown shape: columnar; pyramidal
Crown density: dense
Growth rate: medium
Texture: coarse

## Foliage

Leaf arrangement: alternate (Fig. 3) Leaf type: simple Leaf margin: serrate Leaf shape: cordate; ovate Leaf venation: pinnate Leaf type and persistence: deciduous Leaf blade length: 4 to 8 inches Leaf color: green Fall color: yellow Fall characteristic: not showy

### Flower

**Flower color:** green; yellow **Flower characteristics:** pleasant fragrance; showy; summer flowering

## Fruit

Fruit shape: oval; round Fruit length: < .5 inch Fruit covering: dry or hard Fruit color: tan Fruit characteristics: does not attract wildlife; inconspicuous and not showy; no significant litter problem; persistent on the 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:** susceptible to breakage either at the crotch due to poor collar formation, or the wood itself is weak and tends to break

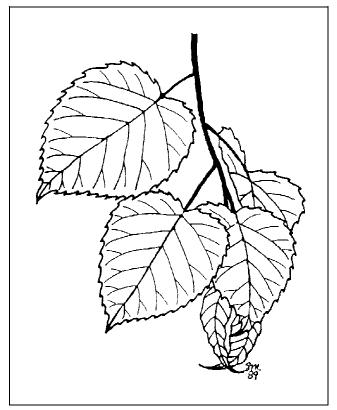


Figure 3. Foliage of 'Fastigiata' American Linden.

Current year twig color: brown; green Current year twig thickness: medium Wood specific gravity: 0.37

### 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: none

## Other

Roots: surface roots are usually not a problem Winter interest: no special winter interest 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**

This tree is large and needs plenty of room to develop. Branches should be well-spaced along a central trunk to allow for development of a durable structure. Left unpruned, crotches with embedded bark can develop but the wood is flexible so branches usually do not break from the tree. The tree is considered to have a strong branch structure. Plant it as a specimen or shade tree on a commercial property where there is plenty of soil space available for root expansion. It can be used as a street tree in large tree lawns or along a street without a sidewalk, but is sensitive to road salt. Be prepared to remove sprouts periodically from the base of the trunk.

A North American native tree, American Linden prefers moist, fertile soils, acid or slightly alkaline, in full sun or partial shade. More shade tolerant than many other large trees. The leaves will show appreciable browning after a particularly dry season, but the tree appears fine the following year. It is often found (and prefers) growing along moist stream banks but tolerates some drought.

The cultivar 'Legend' is pyramidal, grows with a single, straight trunk, and upright, well-spaced branches; 'Redmond' has a broad pyramidal canopy. These can all be used in large tree lawns along streets.

Propagation is by seed, cuttings, or grafting.

#### Pests

Mainly aphids, although Japanese beetle, European Linden bark borer, Linden borer, walnut lace bug, caterpillars, Basswood leaf miner, elm sawfly, scales and Linden mite can all be troublesome problems. The aphids will secrete a honeydew which will result in a dark soot over objects below the tree, such as parked cars or lawn furniture.

#### Diseases

Anthracnose, leaf blight, canker, leaf spots, powdery mildew, and verticillium wilt are some diseases than can infect American Linden. Leaf rust can cause some defoliation.