



# Swietenia mahagoni Mahogany<sup>1</sup>

Edward F. Gilman and Dennis G. Watson<sup>2</sup>

#### INTRODUCTION

This large, semievergreen tree forms a loose, rounded canopy and casts light, dappled shade, suitable for maintaining a lawn beneath (Fig. 1). It is one of south Florida's popular landscape and street trees. Mahogany can reach 75 feet in height with a 50-foot-spread but is more often seen at 40 to 50 feet tall and wide. The dense, strong wood of Mahogany is quite resistant to wind-damage on properly trained trees, making this tree all the more ideal for use as a shade tree or street tree. Trees planted along streets or in medians will form a beautiful canopy overhead. The five-inch-long, brown, woody fruit capsules hang from slender, fuzzy stalks in winter and split while still on the tree when ripe to release winged seeds.

### **GENERAL INFORMATION**

Scientific name: Swietenia mahagoni

Pronunciation: swee-TEEN-ee-uh mah-HAH-go-nye

Common name(s): Mahogany, West Indies

Mahogany

**Family:** *Meliaceae* 

**USDA hardiness zones:** 10B through 11 (Fig. 2)

**Origin:** native to North America

**Uses:** large parking lot islands (> 200 square feet in size); wide tree lawns (>6 feet wide); medium-sized parking lot islands (100-200 square feet in size);

medium-sized tree lawns (4-6 feet wide);

recommended for buffer strips around parking lots or for median strip plantings in the highway; reclamation plant; screen; shade tree; residential street tree; tree has been successfully grown in urban areas where air pollution, poor drainage, compacted soil, and/or

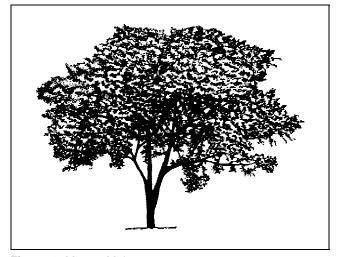


Figure 1. Mature Mahogany.

drought are common

Availability: generally available in many areas within

its hardiness range

## **DESCRIPTION**

**Height:** 40 to 50 feet **Spread:** 40 to 60 feet

**Crown uniformity:** symmetrical canopy with a

regular (or smooth) outline, and individuals have more

or less identical crown forms

Crown shape: round Crown density: moderate

Growth rate: fast Texture: medium

This document is adapted from Fact Sheet ST-608, a series of the Environmental Horticulture Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Publication date: October 1994.

<sup>2.</sup> Edward F. Gilman, associate professor, Environmental Horticulture Department; Dennis G. Watson, associate professor, Agricultural Engineering Department, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville FL 32611.



**Figure 2.** Shaded area represents potential planting range.

## **Foliage**

**Leaf arrangement:** alternate (Fig. 3) **Leaf type:** even pinnately compound

Leaflet margin: entire

Leaflet shape: lanceolate; ovate

**Leaflet venation:** banchidodrome; pinnate **Leaf type and persistence:** evergreen;

semievergreen

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

Leaf color: green

Fall color: no fall color change Fall characteristic: not showy

# **Flower**

Flower color: green

Flower characteristics: inconspicuous and not

showy; spring flowering

# **Fruit**

Fruit shape: oval

Fruit length: 3 to 6 inches Fruit covering: dry or hard Fruit color: blue; brown **Fruit characteristics:** does not attract wildlife; fruit, twigs, or foliage cause significant litter; persistent on the tree; showy

# **Trunk and Branches**

**Trunk/bark/branches:** droop as the tree grows, and will require pruning for vehicular or pedestrian clearance beneath the canopy; 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; green Current year twig thickness: medium

#### 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: high Aerosol salt tolerance: high

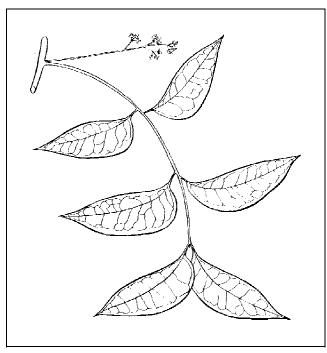


Figure 3. Foliage of Mahogany.

## 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
Pest resistance: long-term health usually not

affected by pests

# **USE AND MANAGEMENT**

A native of south Florida, Mahogany will grow in full sun or partial shade on a wide range of soil types, and is quite resistant to salt spray. Plants will respond with rapid growth to rich, well-drained soil and regular fertilizing. Roots can raise sidewalks and curbs when planted only five or six feet away. Root deflectors and barriers which direct roots to a deeper soil layer are recommended for this and other large-growing trees with surface root problems. Be sure that trees are planted and maintained with a central leader to develop a strong trunk and branch structure. Trees often develop several upright multiple leaders which significantly reduces the wind and storm tolerance of any tree, including Mahogany. Prune and train the tree while it is young to develop several major limbs spaced several feet apart along a central trunk. Do not allow branches to grow larger than about two-thirds the diameter of the trunk. This will increase the life span of Mahogany.

This and several other species of Mahogany are used in the lumber industry for fine cabinets and furniture due to the color, straight grain and durability of the wood. *Swietenia macrophylla* is a taller tree with a dominant, straight trunk which could be grown in Florida and used along the streets. There were several trees three feet in diameter at the U.S.D.A. research station south of Miami prior to hurricane Andrew.

Propagation is by seed.

#### **Pests**

Some insects can cause significant problems such as the tent caterpillars, tip moth, webworm, scale, leaf notcher, and leaf miner. Borers infest stressed trees.

### **Diseases**

No diseases are of major concern.

Nectria infections on branches are often predisposed by some other stress or any injury to the tree. These infections can be seen in the branch crotches.