



# *Magnolia acuminata* Cucumbertree<sup>1</sup>

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## INTRODUCTION

One of the fastest-growing Magnolias, Cucumbertree is pyramidal when young but becomes broad, oval or rounded with age, ultimately reaching 60 to 80 feet in height with a spread of 35 to 60 feet (Fig. 1). Branches on open-grown trees eventually touch the ground if left unpruned, but when lower branches are removed the higher branches normally will not droop to touch the ground. This provides good clearance beneath the tree for pedestrian traffic. Older trees have a stately silhouette, particularly in the winter with branches bare, sporting a number of large-diameter branches growing from a dominant central trunk. The trunk can grow to be five feet thick and the wood has been used, along with Tuliptree (*Liriodendron tulipifera*), for "poorman's walnut."

## GENERAL INFORMATION

**Scientific name:** *Magnolia acuminata*

**Pronunciation:** mag-NO-lee-uh  
ack-yoo-mih-NAY-tuh

**Common name(s):** Cucumbertree, Cucumber Magnolia

**Family:** *Magnoliaceae*

**USDA hardiness zones:** 3B through 8 (Fig. 2)

**Origin:** native to North America

**Uses:** shade tree; specimen; no proven urban tolerance

**Availability:** somewhat available, may have to go out of the region to find the tree

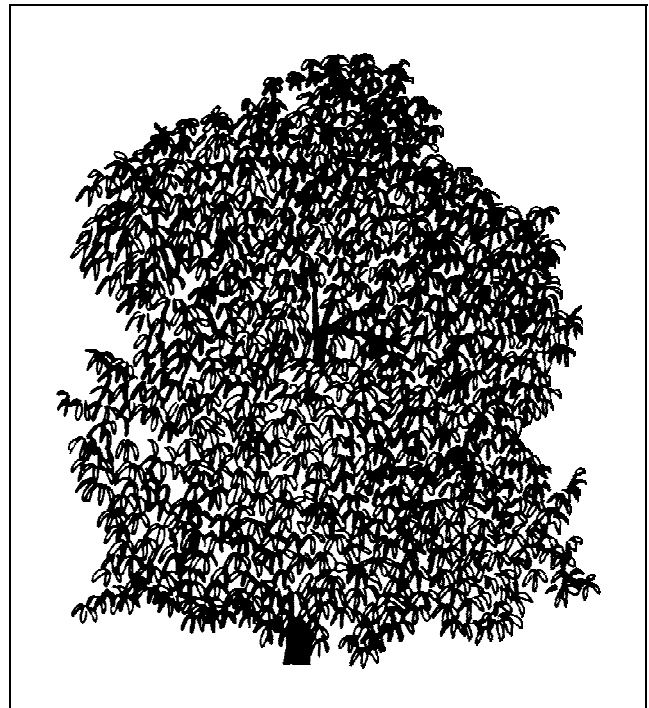


Figure 1. Middle-aged Cucumbertree.

## DESCRIPTION

**Height:** 60 to 80 feet

**Spread:** 35 to 60 feet

**Crown uniformity:** irregular outline or silhouette

**Crown shape:** pyramidal; upright

**Crown density:** dense

**Growth rate:** fast

**Texture:** coarse

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Figure 2. Shaded area represents potential planting range.

### Foliage

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

**Leaf type:** simple

**Leaf margin:** entire; undulate

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

**Leaf venation:** pinnate

**Leaf type and persistence:** deciduous

**Leaf blade length:** 8 to 12 inches; 4 to 8 inches

**Leaf color:** green

**Fall color:** brown; yellow

**Fall characteristic:** showy

### Flower

**Flower color:** yellow

**Flower characteristics:** pleasant fragrance; inconspicuous and not showy; spring flowering

### Fruit

**Fruit shape:** elongated

**Fruit length:** 1 to 3 inches

**Fruit covering:** dry or hard

**Fruit color:** red

**Fruit characteristics:** attracts birds; attracts squirrels and other mammals; no significant litter problem; persistent on the tree; showy

### 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; not particularly showy; should be grown with a single leader; no thorns

**Pruning requirement:** needs little pruning to develop a strong structure

**Breakage:** resistant

**Current year twig color:** brown

**Current year twig thickness:** medium

**Wood specific gravity:** 0.48

### Culture

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

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

**Drought tolerance:** moderate

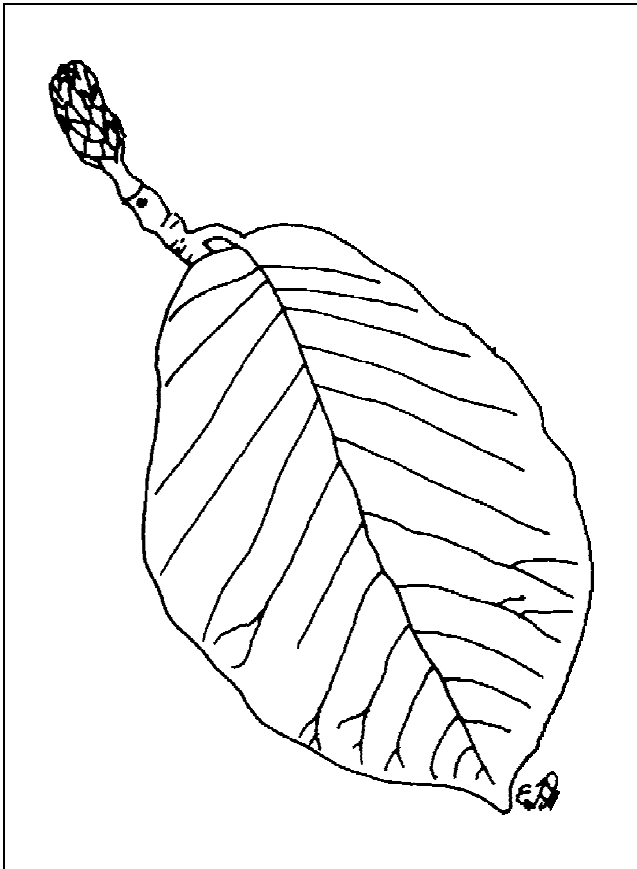


Figure 3. Foliage of Cucumbertree.

### 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:** tree has outstanding ornamental features and could be planted more

**Invasive potential:** little, if any, potential at this time

**Ozone sensitivity:** tolerant

**Pest resistance:** no pests are normally seen on the tree

### USE AND MANAGEMENT

The large, six to 10-inch, yellow/green, deciduous leaves are lighter and fuzzy underneath and cast very dense shade below, making Cucumbertree ideal as a shade or specimen tree. The slightly fragrant, three-inch-wide flowers appear in May or early June but their greenish-yellow to yellow coloring causes them to become lost among the foliage. These blooms are followed by the production of four-inch-long, deep red fruits which somewhat resemble a cucumber in shape. The seeds of Cucumbertree are very popular with birds and other wildlife.

Many Magnolias have a root system which spreads more than other trees. This is thought to contribute to the poor growth following transplanting Magnolia from a field nursery. There is no problem planting from containers, provided adequate irrigation is given until established.

This tree is best on large estates and open-soil areas such as parks and golf courses or along either side of an entrance road with plenty of soil space for root expansion. It does not tolerate the compacted, disturbed soils of urban areas. Be sure young trees receive adequate irrigation until the root system is well-established in loose, open soil.

A North American native, Cucumbertree grows in full sun or partial shade on well-drained soils, and should be protected from harsh, dry winds. In their native habitat, trees do best in slightly acidic soil along stream banks and on cool hillsides. Plants should not be exposed to prolonged flooding, drought, or too much pollution, but they will tolerate alkaline and wet soil quite well. Although trees should be allowed to grow and develop naturally except for occasional removal of upright branches, any pruning which might be necessary should be done only after flowering so the flower display can be enjoyed.

The cultivar 'Variegata' has yellow-variegated leaves. Cucumbertree was used as a parent plant along with *Magnolia denudata* to produce the hybrid 'Elizabeth' which has a pyramidal shape and clear yellow, fragrant blooms.

Propagation is by seed or cuttings.

### Pests and Diseases

No pests or diseases are of major concern but occasionally bothered by scale as are many other Magnolias.