



Liquidambar styraciflua 'Burgundy' 'Burgundy' Sweetgum¹

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INTRODUCTION

This cultivar of Sweetgum grows in a narrow pyramid to a height of 75 feet and may spread to 50 feet (Fig. 1). The beautifully glossy, star-shaped leaves turn bright red-purple in the fall (USDA hardiness zones 6 and 7) and early winter (USDA hardiness zones 8 and 9). In the fall, leaves are held on the tree longer than the species. It is well adapted to the Deep South. On some trees, particularly in the northern part of its range, branches are covered with characteristic corky projections. The trunk is normally straight and does not divide into double or multiple leaders and side branches are small in diameter on young trees, creating a pyramidal form. The bark becomes deeply ridged at about 25-years-old. Sweetgum makes a nice conical park, campus or residential shade tree for large properties when it is young, developing a more oval or rounded canopy as it grows older as several branches become dominant and grow in diameter.

GENERAL INFORMATION

Scientific name: Liquidambar styraciflua 'Burgundy'

Pronunciation: lick-wid-AM-bar

sty-rass-ih-FLOO-uh

Common name(s): 'Burgundy' Sweetgum

Family: *Hamamelidaceae*

USDA hardiness zones: 6 through 10A (Fig. 2)

Origin: native to North America

Uses: large parking lot islands (> 200 square feet in size); wide tree lawns (>6 feet wide); recommended for buffer strips around parking lots or for median strip plantings in the highway; reclamation plant; shade

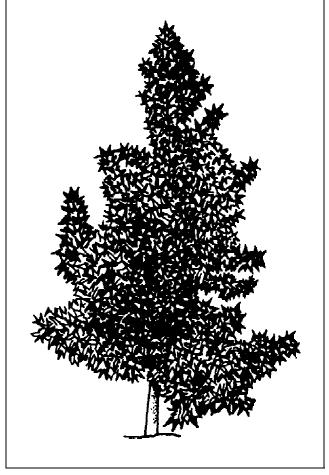


Figure 1. Young 'Burgundy' Sweetgum.

tree; specimen; residential street tree; no proven urban tolerance **Availability:** somewhat available, may have to go out of the region to find the tree

- This document is adapted from Fact Sheet ST-359, a series of the Environmental Horticulture Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Publication date: November 1993.
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Figure 2. Shaded area represents potential planting range.

DESCRIPTION

Height: 60 to 75 feet **Spread:** 35 to 50 feet

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

or less identical crown forms **Crown shape:** oval; pyramidal

Crown density: dense Growth rate: medium Texture: coarse

Foliage

Leaf arrangement: alternate (Fig. 3)

Leaf type: simple

Leaf margin: lobed; serrate Leaf shape: star-shaped Leaf venation: palmate

Leaf type and persistence: deciduous **Leaf blade length:** 4 to 8 inches

Leaf color: green
Fall color: purple; red
Fall characteristic: showy

Flower

Flower color: green; yellow

Flower characteristics: inconspicuous and not

showy; spring flowering

Fruit

Fruit shape: round Fruit length: 1 to 3 inches Fruit covering: dry or hard

Fruit color: brown

Fruit characteristics: attracts birds; attracts squirrels and other mammals; 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: needs little pruning to develop

a strong structure **Breakage:** resistant

Current year twig color: brown; reddish Current year twig thickness: medium



Figure 3. Foliage of 'Burgundy' Sweetgum.

Wood specific gravity: 0.52

Culture

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

tree grows in full sun

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

acidic; extended flooding; well-drained

Drought tolerance: moderate **Aerosol salt tolerance:** moderate

Other

Roots: surface roots can lift sidewalks or interfere

with mowing

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: seeds itself into the landscape Verticillium wilt susceptibility: not known to be

susceptible

Pest resistance: long-term health usually not

affected by pests

USE AND MANAGEMENT

Be careful when locating Sweetgum as a street tree since its large, aggressive roots may lift curbs and sidewalks. Plant trees 8 to 10 feet or more from curbs. Some communities have large numbers of Sweetgum planted as street trees. Much of the root system is shallow (particularly in its native, moist habitat), but there are deep vertical roots directly beneath the trunk in well-drained and in some other soils. The fruit may be a litter nuisance to some in the fall, but this is usually only noticeable on hard surfaces, such as roads, patios, and sidewalks, where people could slip and fall on the fruit. The cultivar 'Rotundiloba' is fruitless. The tree should be planted only in soil with a pH of 7 or less. The seeds provide food for wildlife and will often readily germinate in shrub and groundcover beds, requiring their removal to maintain a neat landscape appearance.

Although it grows at a moderate pace, Sweetgum is rarely attacked by pests, and tolerates wet soils, but chlorosis is often seen in alkaline soils. Trees grow well in deep soil, poorly in shallow, droughty soil. Sweetgum is difficult to transplant and should be planted from containers or transplanted in the spring when young since it develops deep roots on well-drained soil. It is native to bottomlands and moist soils and tolerates only some (if any) drought. Existing trees often die-back near the top of the crown, apparently due to extreme sensitivity to construction injury to the root system, or drought injury. The tree leafs out early in the spring and is sometimes damage by frost.

Cultivars have been selected for their fall color, leaf shape, or growth habit: 'Festival' - narrow upright growth habit, peach-colored fall foliage, less cold hardy, more adapted to the southern part of the range; 'Moraine' is reputed to be the most cold hardy; 'Palo Alto' - pyramidal, symmetrical growth, bright orange fall color; 'Rotundiloba' - round leaf tips, no fruit production, narrow pyramidal form. *Liquidambar formosana* has a broader spreading crown.

Pests

Bagworm makes sacks by webbing together pieces of leaves. The insects live in the sacks while they feed. Small numbers of insects may be picked off by hand. I

Fall webworm webs over portions of large branches or may completely cover small branches.

The insects feed on leaves inside the nest. If practical, nests can be pruned out while small and when the insects are inside. A few nests in large trees are not serious.

Leaf miner causes brown blotches on leaves. If injury is caused by leaf miner the browned upper and lower leaf surfaces will be completely separate when the leaf is torn in two.

Cottony-cushion scale, Sweetgum scale, and walnut scale can infest the branches. Use horticultural oil to provide some control.

Tent caterpillars make nests to live in but leave the nests to feed. Prune out nests at the tips of small branches. Do not burn the nest while it is still in the tree because you will injure the tree.

Diseases

Sweetgum may be attacked by canker diseases. These diseases cause sunken areas on the trunk and some cause profuse "bleeding". Infected bark and sapwood will be brown and dead. There is no chemical control for canker diseases. Severely infected trees will die. Prune cankers out of lightly infected trees. Maintain tree health by watering and fertilizing.

Leaf spots of various types may attack Sweetgum, causing premature defoliation, but are not serious. Rake up and destroy infected leaves to help control if there are no adjacent Sweetgum to add inoculum.