

## BLACKGUM

### *Nyssa sylvatica* Marsh

Plant Symbol = NYSY

Contributed by: USDA NRCS Plant Materials Program



Robert H. Mohlenbrock  
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Southern Wetland Flora  
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#### Alternate Names

sourgum, pepperidge, tupelo, tupelo-gum

#### Uses

**Erosion Control:** Reestablishes well in erosion prone areas like burned over forest, abandoned fields, rolling hills and cold mountain swamps.

**Wildlife:** Black bears, foxes, wood ducks, wild turkeys, robins, woodpeckers, mockingbirds, brown thrashers, thrushes, flickers, and starlings frequently eat the fruit, while white-tailed deer and beavers browse the twigs, foliage and young sprouts. Additionally, provides cavity and nesting sites for a variety of birds and mammals and a good honey tree.

**Timber:** Its wood is used for light, nonsplitting woodwork such as in docks and wharves; veneer, containers, crossties and pallets.

**Recreation and Beautification:** Excellent ornamental plant for its straight bole, shapely crown and attractive autumn foliage.

#### Status

Please consult the PLANTS Web site and your State Department of Natural Resources for this plant's

current status (e.g. threatened or endangered species, state noxious status, and wetland indicator values).

#### Description

*Nyssa sylvatica* Marsh., blackgum, grows from Maine west to New York, extreme southern Ontario, central Michigan, Illinois, central Missouri, and south to central Florida. It is a medium- to large-sized tree, frequently 60 to 80 ft high and 3 to 4 ft in diameter; it typically has dense foliage with a conical crown on a straight trunk. The simple, alternate leaves are leathery, and densely clustered at the branchlets. The small greenish white flowers are borne singly or in clusters. The bark is reddish brown and broken into deep irregular ridges and diamond-shaped plates.

#### Adaptation and Distribution

It is adapted to a wide variety of sites, from the creek bottoms of the southern Coastal Plain to altitudes of 3,000 feet in North Carolina. It grows best on well-drained, light-textured soils on the low ridges of second bottoms and on the high flats of silty alluvium. It will tolerate brief spring flooding on alluvial sites and is common on the relatively dry upper and middle slopes in the Appalachian Mountains. On the drier uplands, it grows best on the loams and clay loams. It is well adapted to fire. Older trees have thick bark and relatively high moisture content. Although aboveground portions of young trees are top-killed by fire, it typically survives by sprouting from the root crown or caudex.

Blackgum is distributed throughout the East and lower Midwest. For a current distribution map, please consult the Plant Profile page for this species on the PLANTS Website.

#### Establishment

Blackgum is usually found with a mix of other species including black cherry (*Prunus serotina*), dogwood (*Cornus florida*), hickory (*Carya* spp.), oak (*Quercus* spp.), eastern hophornbeam (*Ostrya virginiana*), and yaupon (*Ilex vomitoria*), it is shade tolerant and seldom grows as dominant tree but it usually grows in the intermediate crown class on most sites. It responds favorably to release from overtopping vegetation. Seedlings grow slowly under a fully stocked stand. At the time of disturbance large numbers of new seedlings can become established.

Smaller blackgum stumps sprout readily and larger stumps sprout and develop root suckers. Layering can be used to produce stocks.

Seed production is highly variable, disseminated primarily by gravity and birds, others generally fall to the ground and remain dormant in the litter or are carried by water. Seed overwinters on cool, damp soil and germinates the following spring. It requires nearly full sunlight for optimum early growth. The plant tolerates competition and can exist on unfavorable sites. Pre-chilled seeds must be sown in spring. Seeds are drilled at the rate of 15 per ft of row and covered with ½ - 1 inch of soil. A mulch of sawdust is often used. Beds must be kept moist.

It sprouts from the stump following disturbance. Smaller sour gum stumps sprout readily while larger stumps sprout occasionally. Sprouts arise from suppressed buds and are concentrated near the top of the stump. Stump sprouts can produce seeds at 2 years of age.

### **Management**

Seedling establishment is best accomplished by shelterwood method. Regeneration can also be accomplished by clear-cutting if prior to a good seed fall or if advanced regeneration already exist. Due to the high palatability of seedlings and sprouts, blackgum can be protected by controlling deer populations. It often competes with loblolly and shortleaf pine for water and light, reducing its growth and development. Basal tree injections with herbicide is effective control method for crown kill. Intermediate trees respond favorably to release from overhead vegetation; seedlings respond to reduction in canopy cover with relatively rapid height growth.

### **Pests and Potential Problems**

Tupelo leaf miner (*Antispila nyssaefolia*) and forest tent caterpillar (*Malacosoma disstria*) attack blackgum causing growth loss and occasional mortality.

### **Prepared By & Species Coordinator: USDA NRCS Plant Materials Program**

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For more information about this and other plants, please contact your local NRCS field office or Conservation District, and visit the PLANTS Web site <<http://plants.usda.gov>> or the Plant Materials Program Web site <<http://Plant-Materials.nrcs.usda.gov>>

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