



Nyssa spp.

Family: Nyssaceae

Tupelo

Tupelo contains about 5 species native to the United States [3] and eastern Asia [2].

Nyssa aquatica-Bay-poplar, Bastard Cottonwood, Big Tupelo, Bowl Gum, Chickasawatchie Whitewood, Cotton-gum, Gray Gum, Gum Cottonwood, Hickory Poplar, Ladle Gum, Large Tupelo, Olivetree, Pawpaw Gum, Rootwood Tupelo, Sap Gum, Sour Gum, Swamp Gum, Swamp Poplar, Swamp Tupelo, Trade Tupelo, Tupelo Gum, Water Gum, **Water Tupelo**, White Gum, Wild Olivetree, YellowGum

Nyssa ogeche-Gopher Plum, Limetree, Ogeechee Lime, Lone Tupelo, Ogeechee Plum, **Ogeechee Tupelo**, Sour Tupelo, Sour Tupelo Gum, White Tupelo, Wild Limetree

Nyssa sylvatica-Blackgum, **Black Tupelo**, Bowl Gum, Gum, Pepperidge, Plain Black Gum, Quartered Black Gum, Sour Gum, Stinkwood, Swamp Blackgum, Swamp Tupelo, Tupelo Gum, Yellow Gum, Yellow Guntree, Wild Pear-tree

Nyssa sylvatica var. *biflora*-**Blackgum**, Swamp Blackgum, Bouw Gum, Lowland Black Gum, Lowland Gum, Sour Gum, Southern Gum, Swamp Black Gum, Swamp Tupelo, Tupelo Gum, Water Gum,

Distribution

The eastern to southeastern United States.

The Tree

Tupelo trees reach heights of 100 feet, with a diameter of over 3 feet.

The Wood

General

The sapwood of Tupelo is a light gray brown, while the heartwood is darker. It has interlocked grain, with a natural tendency to warp when dries, especially when flat sawn. It shows a characteristic figure when quartersawn. It has no characteristic odor or taste. It is moderately strong, but difficult to glue.

Mechanical Properties (2-inch standard)

	Specific gravity	MOE X10 ⁶ lb/in ²	MOR lb/in ²	Compression		WML ^a in-lbf/in ³	Hardness lbf	Shear lb/in ²
				Parallel lb/in ²	Perpendicular lb/in ²			
<i>Nyssa aquatica</i> (water tupelo)								
Green	0.46	1.05	7,300	3,370	480	8.30	710	1,190
Dry	0.50	1.26	9,600	5,920	870	6.90	880	1,590
<i>Nyssa sylvatica</i> (black tupelo)								
Green	0.46	1.03	7,000	3,040	480	8.00	640	1,100
Dry	0.50	1.20	9,600	5,520	930	6.20	810	1,340

^aWML = Work to maximum load.

^bReference (98).

^cReference (59).

Drying and Shrinkage

Type of shrinkage	Percentage of shrinkage (green to final moisture content)		
	0% MC	6% MC	20% MC
<i>Nyssa aquatica</i> (water tupelo)			
Tangential	7.6	6.1	2.5
Radial	4.2	3.4	1.4
Volumetric	12.5	10.0	4.2
<i>Nyssa sylvatica</i> (black tupelo)			
Tangential	8.7	6.2	2.6
Radial	5.1	3.5	1.5
Volumetric	14.4	11.1	4.6

References: 0% MC (98),

6% and 20% MC (90).

Kiln Drying Schedules^a

Condition	Stock				
	4/4, 5/4, 6/4	8/4	10/4	12/4	16/4
<i>Nyssa sylvatica</i> (water tupelo)					
Standard	T12-E5	T11-D3	T11-D3	T9-C2	T7-C2
<i>Nyssa sylvaticavar biflora</i> (black gum)					
Standard	T10-E3	T8-D2	–	–	–

^aReferences (6, 86).

Working Properties: It is moderately strong, but difficult to glue.

Durability: It lacks any natural durability.

Preservation: It is easily penetrated with preservatives.

Uses: Furniture, shipping containers, millwork, veneer, plywood, cross ties, bridge ties and crossing planks.

Toxicity: No information available at this time.

Additional Reading and References Cited (in parentheses)

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