Black gum trees, reflected here in Buckshutem Creek, a tributary of the Maurice River, displays a deep magenta shade as fall progresses. Photo credit: author.

Our Native Gum

*Black gum begins its colorful display in early autumn, shifting from yellow to orange to bright red and scarlet along the banks of our coastal plain rivers.*

By J. Morton Galetto, CU Maurice River

I first became familiar with tupelo when taking carving lessons with Vernon Smith over 30 years ago. We were carving fancy birds as opposed to smooth decoys. The choices of wood for our class were basswood or tupelo. Many competitive carvers, including world champions, use tupelo, which can be worked with hand tools or power tools. It is lightweight and sands to a smooth finish, allowing it to take the fine details of burning-in individual
feathers. It permits greater detail than basswood and is less likely to fuzz up. Wisely, Vernon would cut us a blank on a band saw and then we could begin to rough out the birds ourselves. Most of our carving tools were rather benign with the exception of knives, but a band saw can remove not just wood but also digits. I thank Vernon for his judgement!

At the time I wasn’t aware that tupelo, black gum, pepperidge, and sour gum are all of the same genus *Nyssa*. However, carvers always call the wood
tupelo and the species they use is *Nyssa aquatica*, or water tupelo, a southeastern species.

There are about ten different Nyssa species worldwide. The one common to New Jersey is *Nyssa sylvatica* – black gum or black tupelo. Most New Jersey foresters defer to the common name black gum. Its range is primarily east of the Mississippi River to the Atlantic coast.

Why gum? In *Trees of New Jersey and the Mid-Atlantic* Christopher T. Martine comments: “There is no clear reason why we call *Nyssa sylvatica* black gum, since it does not exude any gum-like substance. The sweetgum does produce gum, but not the kind used commercially for chewing. That comes mainly from the sapodilla plant, which produces gum called chicle. Chicle is one of the main ingredients in chewing gum.” Well, for me that doesn’t explain why it’s called a gum tree, only why it shouldn’t be.

The common name for *Nyssa* is tupelo which derives from a Native American language. Tupelos are associated with wetlands and water corridors, growing commonly in creek bottoms of the southern coastal plains. In New Jersey they are found in flood plains, swamps, and bogs, making them one of the
vegetative species that is used in part to delineate wetlands. The Creek tribal word for tree is *ito* and *opilwa* is swamp; colonists anglicized this into “tupelo.”

Aside from its use in carving, *Nyssa* is also selected for unseen parts in furniture, plywood, pulp, railroad ties, boxes, crates, tool handles, conveyor rollers, and pallets. Its pulp makes high grade book and magazine paper. Tupelo trees often become hollow with age and historically beekeepers took advantage of this aspect, cutting a log from the trunk, placing a cap on one end and a roof on the other, and finally drilling an entrance hole in the log for bees to enter. Bee diseases have made this style of bee box go out of fashion.

*These log beehives were made by a mountain family up Stinking Creek, Pine Mountain, Kentucky. Photo: Credit U.S. Farm Security Administration Office 1944.*
The grain of tupelo is interlocked and twisted making it nearly impossible to split, but whole logs can be burned.

In the southeast beehives are often placed near Ogeechee or white tupelo trees, *Nyssa ogeche*, and thus the bees produce the prized tupelo honey, which is very mild and light. White tupelo trees are most abundant in Georgia and Florida wetlands. The honey from tupelo reportedly has an unusually high fructose to glucose ratio, and therefore the sugar molecules release over a longer time. The growers contend that this reduces the “crash” more commonly associated with refined sugars.

Tupelo honey also provided a metaphor for musical artist Van Morrison, who used it to compare his marriage and the love for his wife in the lyrics of *Tupelo Honey*: “She’s as sweet as tupelo honey. Just like honey from the bee.”

The trees have a bluish-black berry fruit that is called a drupe because of the way it dangles on the stem. These fruit ripen from now through October. The common name “sour” gum comes from the fact that the berries are acidic and unpleasant. They are edible but not desirable. If you were forced to forage
for survival they would be an option, but for those who choose to eat them willingly they are normally offered in a heavily sugared jam or jelly preserve.

Black gum limbs grow horizontal to the ground, coming off the trunk at right angles. As the main branch becomes multiple smaller ones, the appearance is almost shelf-like. Tupelos can grow to 100 feet tall. Photo credit: author.

In regard to medical uses the bark produces vomiting, while ooze from the roots has been used in eye drops and for killing worms in children.

It is timely that we are speaking about black gum. We are one week into fall and the first tree to display autumn color is *Nyssa sylvatica* - and it is magnificent. The display is dramatic, shifting from yellow, to orange, to bright red and scarlet, and making the banks of coastal plain rivers an ever-changing pageant of color. In fact it is
unusual to read a description of the tree, in even the driest of field guides, that doesn’t describe them as being best known for their spectacular autumn showiness.

*Nyssa sylvatica* – black gum leaves are obovate, narrower at the end with the stem. The edges are very slightly serrated. Photo credit: author.

During summer the leaves are a deep green, shiny on the top surface and slightly leathery. They are obovate, meaning narrow at the end with the stem, and are very slightly toothed along the margin. The tree is both male and female and pollinated by bees. *Nyssa* is deciduous with alternate simple leaves that are shed in the fall. So the spectacle of color will have a dramatic beginning and a very stark ending - a tragic opera of sorts. Don’t
miss this year’s show and remember to shout out a “bravo” or two!

Black gum is a food plant for at least 13 species of moth including the Luna moth pictured here. Photo credit: author.

Sources
Purdue Arboretum
Savannah Bee Company
Wood Magazine
Trees of New Jersey and the Mid-Atlantic Christopher T. Martine