

# Quercus hemisphaerica, Darlington Oak<sup>1</sup>

Melissa H. Friedman, Michael G. Andreu, Heather V. Quintana, and Mary McKenzie<sup>2</sup>

## Family

Fagaceae, beech and oak family.

### Genus

*Quercus* comes from the Latin name for "oak" and is formed from two Celtic words: *quer* meaning "beautiful" and *cuez* meaning "tree."

# **Species**

The species name *hemisphaerica* stems from the Greek words *hemi* meaning "half" and *sphaer* meaning "a ball" or "globular."

# **Common Names**

### Darlington oak, laurel oak

The common name "laurel oak" can be confusing since *Quercus laurifolia* also goes by the same name. In the past, these two trees were considered to be the same species. However, *Quercus laurifolia* is also known as diamond-leaf oak, which refers to the shape of its leaves. This feature along with their differing preferred habitats helps to distinguish these two oaks from one another. *Quercus*  *laurifolia* is generally found on wet sites and *Quercus hemisphaerica* on more upland sites.

### Description

This tardily deciduous and relatively short-lived native tree (it reaches maturity at approximately 50 years and lives for 70-90 years) is found along sandy ridges and mixed forests from Virginia south to Florida and west to Texas. It grows best in partial to full sun and can reach heights of up to 100 feet. The thin but leathery-textured leaves are simple and alternate, and 1 to 5 inches long. The leaves are narrowly elliptic or lanceolate with smooth margins or edges and generally exhibit a pointed tip (that often falls off late in the season). The top side of the leaf is dark green and the underside is bright green. The bark is gray and mostly smooth when immature, becoming more rigid and furrowed (more deeply grooved) with maturity. Acorns are small (just one centimeter long) with a gravish cup that covers about 1/3 of the dark brown nut, and the acorns mature in two years.

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<sup>2.</sup> Melissa H. Friedman, biological scientist, School of Forest Resources and Conservation, IFAS, University of Florida, Plant City Center; Michael G. Andreu, assistant professor of forest systems, School of Forest Resources and Conservation; Heather V. Quintana, research assistant, School of Forest Resources and Conservation; and Mary McKenzie, research assistant, School of Forest Resources and Conservation

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# Allergen

All members of this genus produce large amounts of pollen, making both deciduous and evergreen oaks highly to extremely allergenic.

# Applications

### **Commercial/Practical**

While Darlington oak has limited commercial value, it is commonly used as firewood and pulpwood, and for large drag mats or other heavy-use timbers.

### Horticultural

This fast-growing tree can reach heights of up to 100 feet, making it a great year-round shade tree that has a denser canopy in the spring and summer months. However, care should be taken when planting this tree near a house since the life span of Darlington oak is only 50 years, becoming susceptible to disease and rot with maturity. Like all other oaks, the leaves and acorns of this tree have a high tannin content that can stain concrete. If this is undesirable, homeowners and others should consider this attribute when deciding where to plant this tree.

# Wildlife

The Darlington oak is a great food source for many species of wildlife, especially since it regularly produces abundant amounts of acorns.

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