



# *Quercus imbricaria* Shingle Oak<sup>1</sup>

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## INTRODUCTION

This stately, deciduous, native tree grows 40 to 60 feet tall (occasionally 80 to 100 feet) with an equal or greater spread, its broad, strong branches casting medium to deep shade below the rounded canopy (Fig. 1). The smooth, four to six-inch-long by one to twoinch-wide leaves start out life with a red to yellow cast, deepen to a rich green through the summer, then turn shades of yellow and rust again in the fall before dropping. Some leaves will persist on the tree throughout the winter. In May or early June the flowers appear as drooping yellowish-green catkins and are followed by the production of one-half to oneinch-long, dark brown acorns.

## **GENERAL INFORMATION**

Scientific name: Quercus imbricaria

**Pronunciation:** KWERK-us im-brih-KAIR-ee-uh **Common name(s):** Shingle Oak, Northern Laurel Oak

Family: Fagaceae

**USDA hardiness zones:** 5 through 8A (Fig. 2) **Origin:** native to North America

**Uses:** large parking lot islands (> 200 square feet in size); wide tree lawns (>6 feet wide); shade tree; specimen; residential street tree; no proven urban tolerance

**Availability:** somewhat available, may have to go out of the region to find the tree



Figure 1. Middle-aged Shingle Oak.

# DESCRIPTION

Height: 40 to 60 feet
Spread: 40 to 60 feet
Crown uniformity: symmetrical canopy with a regular (or smooth) outline, and individuals have more or less identical crown forms
Crown shape: oval; round; pyramidal
Crown density: dense
Growth rate: slow

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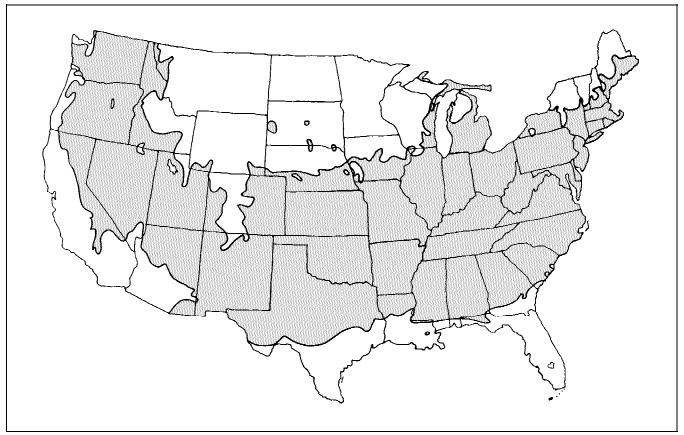


Figure 2. Shaded area represents potential planting range.

#### Texture: medium

## Foliage

Leaf arrangement: alternate (Fig. 3) Leaf type: simple Leaf margin: sinuate; undulate Leaf shape: elliptic (oval); lanceolate; oblong Leaf venation: pinnate; reticulate Leaf type and persistence: deciduous Leaf blade length: 4 to 8 inches; 2 to 4 inches Leaf color: green Fall color: red; yellow Fall characteristic: not showy

## Flower

Flower color: brown Flower characteristics: inconspicuous and not showy; spring flowering

## Fruit

Fruit shape: oval; round
Fruit length: .5 to 1 inch
Fruit covering: dry or hard
Fruit color: brown
Fruit characteristics: attracts squirrels and other mammals; inconspicuous and not showy; fruit, twigs, or foliage cause significant litter

# **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; green Current year twig thickness: thin

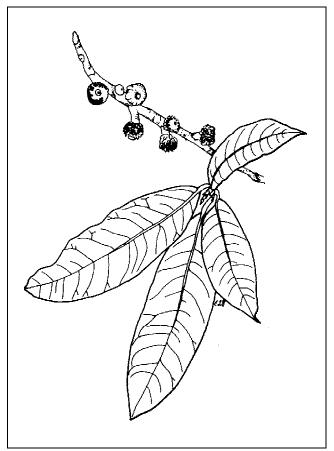


Figure 3. Foliage of Shingle Oak.

# Culture

Light requirement: tree grows in full sun Soil tolerances: clay; loam; sand; slightly alkaline; acidic; extended flooding; well-drained Drought tolerance: high Aerosol salt tolerance: high

## Other

Roots: surface roots are usually not a problem 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: little, if any, potential at this time Ozone sensitivity: tolerant Verticillium wilt susceptibility: not known to be susceptible Pest resistance: long-term health usually not affected by pests

#### **USE AND MANAGEMENT**

The wood of Shingle Oak is extremely durable and was used in pioneer days for split shingles. This strong, resilient nature of Shingle Oak and its pyramidal shape when young help to make it suited to use as a screen, or a durable street or specimen tree which is unlikely to be damaged by harsh winds or snow-loads. It can be planted along residential streets, but there are more adaptable trees for downtown areas.

Naturally found along streams or river banks, Shingle Oak should be grown in full sun and prefers moist but well-drained, acid soils though it will adapt to moderately drier conditions and slightly alkaline soil. It is tolerant of wet sites once established. Fieldgrown trees should be transplanted in springtime for best survival.

Propagation is by seed.

#### Pests

Some pests of this oak are borer, variable Oak and Oak slug caterpillar although natural enemies usually provide control.

#### Diseases

Twig gall leaf miner and powdery mildew are common diseases fo this tree. Shingle Oak is also susceptible to oak wilt.