Prunus serotina
Black Cherry

Edward F. Gilman and Dennis G. Watson

INTRODUCTION

Black Cherry is a 60 to 90-foot-tall native North American tree which has an oval silhouette (Fig. 1). Low branches normally droop and touch the ground. These are easily removed to create clearance beneath the canopy. The finely-toothed, deciduous leaves are dark green and shiny, changing in fall for a short period to lovely shades of yellow, orange, or red, but this varies with weather conditions and among seedlings. The leaves and twigs contain hydrocyanic acid which could poison livestock or other animals if consumed in large quantities. Wild Cherry cough syrup is made from the reddish-brown, fragrant, and bitter inner bark. The wood is highly prized by wood workers and it has been used since the colonial days for fine furniture.

GENERAL INFORMATION

Scientific name: Prunus serotina
Pronunciation: PROO-nus sair-OTT-ih-nuh
Common name(s): Black Cherry
Family: Rosaceae
USDA hardiness zones: 3B through 9A (Fig. 2)
Origin: native to North America
Uses: reclamation plant; no proven urban tolerance
Availability: grown in small quantities by a small number of nurseries

DESCRIPTION

Height: 60 to 90 feet
Spread: 35 to 50 feet
Crown uniformity: irregular outline or silhouette
Crown shape: oval
Crown density: moderate
Growth rate: fast
Texture: medium

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2. Edward F. Gilman, associate professor, Environmental Horticulture Department; Dennis G. Watson, associate professor, Agricultural Engineering Department, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville FL 32611.
Figure 2. Shaded area represents potential planting range.

Foliage

Leaf arrangement: alternate (Fig. 3)
Leaf type: simple
Leaf margin: serrulate
Leaf shape: oblong; ovate
Leaf venation: bowed; pinnate
Leaf type and persistence: deciduous
Leaf blade length: 4 to 8 inches; 2 to 4 inches
Leaf color: green
Fall color: yellow
Fall characteristic: showy

Flower

Flower color: white
Flower characteristics: pleasant fragrance; showy; spring flowering

Fruit

Fruit shape: round
Fruit length: < .5 inch
Fruit covering: fleshy
Fruit color: purple

Fruit characteristics: attracts birds; attracts squirrels and other mammals; suited for human consumption; fruit, twigs, or foliage cause significant litter; showy

Trunk and Branches

Trunk/bark/branches: bark is thin and easily damaged from mechanical impact; grow mostly upright and will not droop; 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
Current year twig thickness: medium; thin
Wood specific gravity: 0.50

Culture

Light requirement: tree grows in part shade/part sun; tree grows in full sun
Soil tolerances: clay; loam; sand; acidic; occasionally wet; alkaline; well-drained
Drought tolerance: high
Aerosol salt tolerance: moderate
Soil salt tolerance: good
Other

**Roots:** surface roots are usually not a problem  
**Winter interest:** no special winter interest  
**Outstanding tree:** not particularly outstanding  
**Invasive potential:** seeds itself into the landscape  
**Ozone sensitivity:** sensitive or moderately tolerant  
**Verticillium wilt susceptibility:** susceptible  
**Pest resistance:** long-term health usually not affected by pests

**USE AND MANAGEMENT**

In early spring as the new leaves are unfolding, Black Cherry produces small, white, fragrant blossoms. These are followed by small, bitter fruits which mature during summer and fall from red to dark purple or black. Sometimes used for jams, jellies, or liqueurs, these fruits are highly prized by birds and other wildlife who quickly devour them as they ripen. They stain concrete as they fall in summer, and people can roll on the hard seed. If you plant Black Cherry, it is probably best to locate it away from walks and pavement. The tree appears to be tolerant of drought in its native habitat where roots are allowed to explore a large volume of soil, but growth is often poor in restricted soil spaces characteristic of urban areas.

Black Cherry should be grown in full sun or partial shade on well-drained, non-compacted soil in a location where it will not receive excessive heat or competition from grasses. Although somewhat tolerant of dry conditions, Black Cherry will respond best to rich, moist soil and a heavy mulch to keep the root zone cool. Plants should not be disturbed after becoming established and have a fairly shallow root system, making them susceptible to damage from anything stacked, stored, or parked within the dripline and slightly beyond.

Propagation is by seed which is spread by birds and other wildlife.

**Pests**

Black Cherry is susceptible to eastern tent caterpillar, fall webworm, other chewing insects, but they are usually enough of a problem to warrant control.
Diseases

No diseases are of major concern. Black Cherry is a host for Ganoderma root and butt rot.