



# *Pinus densiflora* 'Umbraculifera' 'Umbraculifera' Japanese Red Pine<sup>1</sup>

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# INTRODUCTION

This cultivar of Japanese Red Pine reaches a height of 20 to 30 feet, but grows very slowly and is often seen much smaller (Fig. 1). Needles are arranged in pairs and remain on the tree for about three years. A distinguishing feature of this tree is the upright, spreading branching habit which is uncommon in the Pine genus. The bark is unusually striking showing reddish-orange as it exfoliates. The form is compact and the tree stays small making it ideally suited for the residential yard. It can be used as a screen planted in mass or in a row, or alone as a specimen. Needles may turn yellowish during winter on some soils.

# **GENERAL INFORMATION**

Scientific name: *Pinus densiflora* 'Umbraculifera' Pronunciation: PIE-nus den-sih-FLOR-uh Common name(s): 'Umbraculifera' Japanese Red Pine

Family: Pinaceae

**USDA hardiness zones:** 3B through 7A (Fig. 2) **Origin:** not native to North America

**Uses:** Bonsai; specimen; no proven urban tolerance **Availability:** grown in small quantities by a small number of nurseries

# DESCRIPTION

Height: 20 to 30 feet Spread: 35 to 50 feet Crown uniformity: irregular outline or silhouette Crown shape: oval

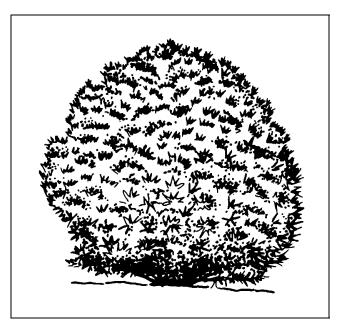


Figure 1. Young 'Umbraculifera' Japanese Red Pine.

Crown density: moderate Growth rate: medium Texture: fine

## Foliage

Leaf arrangement: alternate; spiral Leaf type: simple Leaf margin: entire Leaf shape: needle-like (filiform) Leaf venation: parallel Leaf type and persistence: evergreen; fragrant; needle leaf evergreen Leaf blade length: 4 to 8 inches; 2 to 4 inches

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Figure 2. Shaded area represents potential planting range.

Leaf color: green Fall color: no fall color change Fall characteristic: not showy

## Flower

Flower color: yellow Flower characteristics: inconspicuous and not showy

## Fruit

Fruit shape: oval (Fig. 3)
Fruit length: 1 to 3 inches
Fruit covering: dry or hard
Fruit color: tan
Fruit characteristics: does not attract wildlife; inconspicuous and not showy; fruit, twigs, or foliage cause significant litter; persistent on the tree

# **Trunk and Branches**

**Trunk/bark/branches:** routinely grown with, or trainable to be grown with, multiple trunks; grow mostly upright and will not droop; very showy trunk; no thorns

**Pruning requirement:** needs little pruning to develop a strong structure

**Breakage:** susceptible to breakage either at the crotch due to poor collar formation, or the wood itself is weak and tends to break

Current year twig color: green Current year twig thickness: medium

## Culture

Light requirement: tree grows in full sun Soil tolerances: clay; loam; sand; acidic; well-drained Drought tolerance: moderate Aerosol salt tolerance: low Soil salt tolerance: poor

#### 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

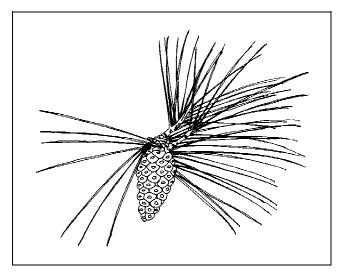


Figure 3. Fruit of 'Umbraculifera' Japanese Red Pine.

Verticillium wilt susceptibility: not known to be susceptible

**Pest resistance:** long-term health usually not affected by pests

### **USE AND MANAGEMENT**

The tree prefers a site with full sun and a well-drained, slightly acid soil. Heavy clay soil is not suitable. This cultivar must be grafted for propagation.

There are a few other cultivars: 'Alboterminata' yellowish needle tips; 'Aurea' - yellow needles; 'Oculis-draconis' - Dragon's Eye Pine - two yellow lines on needles.

#### Pests

This tree is usually pest-free, with occasional scale, but the list of potential problems is long.

#### Diseases

Some of its diseases are needle blight and rusts. Canker diseases may cause dieback of landscape Pines. Keep trees healthy and prune out the infected branches.

Needle cast is common on small trees and plantation or forest trees. Infected needles yellow and fall off.