



Pinus clausa Sand Pine¹

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INTRODUCTION

This native North American pine is usually seen as a scrubby tree, capable of reaching 100 feet in height but more often seen 15 to 40 feet tall, with a slow growth rate (Fig. 1). The supple, evergreen leaves and the plant's ability to thrive in almost any soil make Sand Pine a good choice for use as a Christmas tree, with proper shearing. The 2 to 3.5-inch-long, spiny cones persist for quite a while on the tree, often becoming embedded in the wood of the twigs.

GENERAL INFORMATION

Scientific name: *Pinus clausa*

Pronunciation: PIE-nus KLAW-suh

Common name(s): Sand Pine

Family: *Pinaceae*

USDA hardiness zones: 7 through 10 (Fig. 2)

Origin: native to North America

Uses: recommended for buffer strips around parking lots or for median strip plantings in the highway; reclamation plant; shade tree; specimen; Christmas tree; no proven urban tolerance

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

DESCRIPTION

Height: 25 to 40 feet

Spread: 15 to 25 feet

Crown uniformity: irregular outline or silhouette

Crown shape: oval

Crown density: open

Growth rate: slow

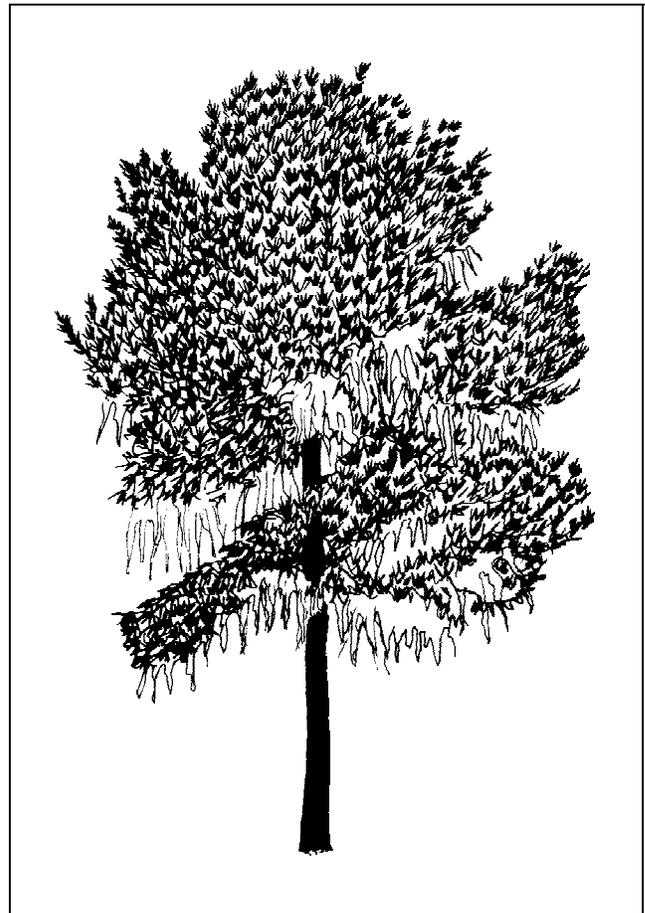


Figure 1. Mature Sand Pine.

Texture: fine

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Figure 2. Shaded area represents potential planting range.

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: 2 to 4 inches

Leaf color: green

Fall color: no fall color change

Fall characteristic: not showy

Flower

Flower color: yellow

Flower characteristics: inconspicuous and not showy; spring flowering (Fig. 3)

Fruit

Fruit shape: oval

Fruit length: 1 to 3 inches

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; persistent on the tree

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: 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: brown

Current year twig thickness: medium

Wood specific gravity: 0.48

Culture

Light requirement: tree grows in part shade/part sun; tree grows in full sun

Soil tolerances: clay; loam; sand; slightly alkaline; acidic; well-drained

Drought tolerance: high

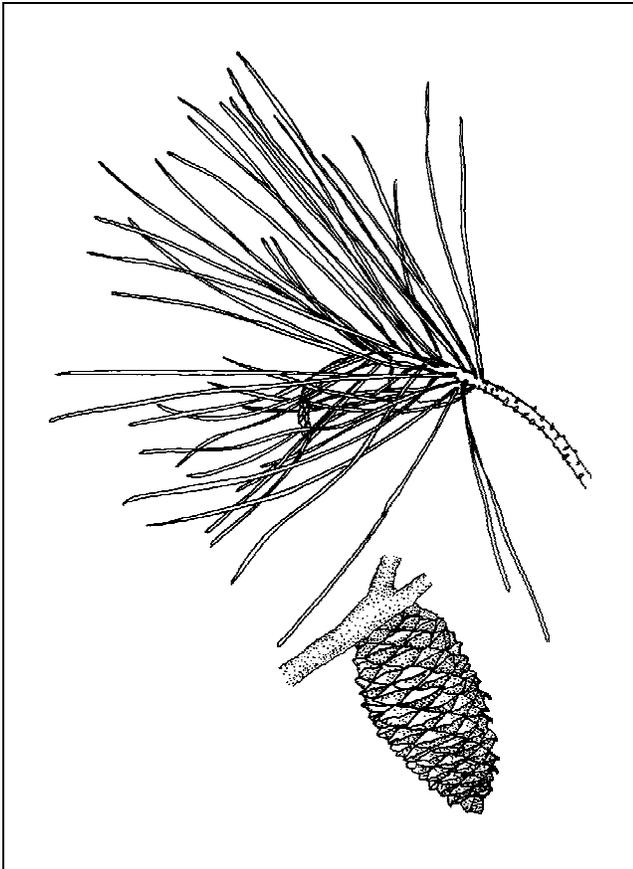


Figure 3. Flower of Sand Pine.

Aerosol salt tolerance: high

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

Verticillium wilt susceptibility: not known to be susceptible

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

USE AND MANAGEMENT

The trunks on Sand Pine are rarely straight. The tree usually grows with a portion of the crown missing or with a lean to one side. This may contribute to the unpopularity of the tree in the landscape trade.

However, this attribute can make it well suited for planting as an accent in any large scale landscape. It is especially useful and attractive when planted in a lawn area as a single specimen. It certainly has its place in reclamation sites as a colonizer of poor soils. The tolerance to dry, sandy soils should make this tree

adaptable to conditions created near asphalt and other hot areas in urban landscapes.

Sand Pine should be grown in full sun on any well-drained soil. The tree is highly drought- and salt-tolerant.

Propagation is by seed.

Pests and Diseases

No pests or diseases are of major concern.