



# *Pinus nigra* Austrian Pine<sup>1</sup>

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## INTRODUCTION

Austrian Pine is medium to fast-growing, reaching 40 to 60 feet in the landscape, taller on very old specimens (Fig. 1). Combined with the dark green needles, the dense habit makes for an outstanding specimen tree. The pyramidal crown which becomes flat topped and somewhat irregular on older specimens is comprised of thick horizontal branches sweeping horizontally and up as they spread from the trunk. Lower branches are held on the trunk making this a nice, short-trunked specimen or screen plant. Plant it so the lower branches can be left on the trunk to show the true beauty of this Pine. Dark furrowed bark is very attractive, particularly on older trees.

## **GENERAL INFORMATION**

Scientific name: *Pinus nigra*Pronunciation: PIE-nus NYE-gruh

Common name(s): Austrian Pine, Black Pine

Family: Pinaceae

**USDA hardiness zones:** 5 through 8A (Fig. 2)

Origin: not native to North America

**Uses:** Bonsai; recommended for buffer strips around parking lots or for median strip plantings in the highway; screen; specimen; tree has been successfully grown in urban areas where air pollution, poor drainage, compacted soil, and/or drought are common **Availability:** generally available in many areas within

its hardiness range

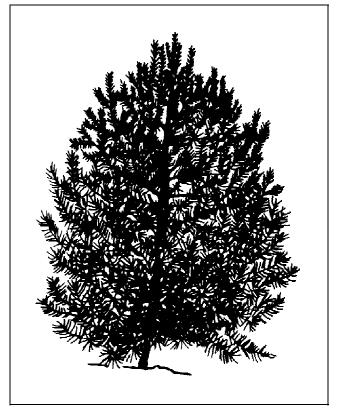


Figure 1. Middle-aged Austrian Pine.

# **DESCRIPTION**

**Height:** 40 to 60 feet **Spread:** 25 to 35 feet

**Crown uniformity:** symmetrical canopy with a regular (or smooth) outline, and individuals have more

or less identical crown forms

Crown shape: oval; pyramidal

Crown density: moderate

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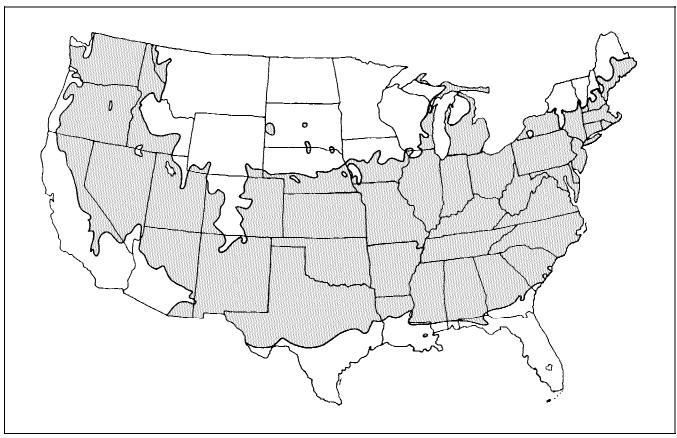


Figure 2. Shaded area represents potential planting range.

Growth rate: medium

Texture: fine

# **Foliage**

Leaf arrangement: spiral (Fig. 3)

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

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

Fruit length: 1 to 3 inches
Fruit covering: dry or hard

Fruit color: brown

Fruit characteristics: does not attract wildlife; fruit, twigs, or foliage cause significant litter; persistent on

the tree; showy

#### **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

Current year twig thickness: stout; thick

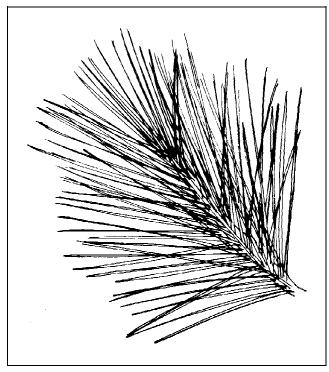


Figure 3. Foliage of Austrian Pine.

#### Culture

Light requirement: tree grows in full sun

Soil tolerances: clay; loam; sand; slightly alkaline;

acidic; well-drained

Drought tolerance: high 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: little, if any, potential at this time

Ozone sensitivity: tolerant

Verticillium wilt susceptibility: not known to be

susceptible

**Pest resistance:** very sensitive to one or more pests or diseases which can affect tree health or aesthetics

# **USE AND MANAGEMENT**

It will stand dryness and exposure, is well adapted to urban conditions including alkaline and clay soil and tolerates road and seaside salt well. Some members of the population may not be adapted to alkaline soil. Unfortunately, Austrian Pine is very susceptible to tip blight in the east and for this reason should be used sparingly. There are also some recent

reports of Pine wilt nematode infesting trees and killing them in one season. But it is one of the best Pines for Texas and is highly recommended there. Austrian Pine is difficult to transplant so should be planted from containers or moved balled and burlapped after being root pruned.

Propagation is by seed.

There are few cultivars: 'Austriaca' - stout, broadly ovate; 'Pyramidalis' - pyramidal.

#### **Pests**

Some adelgids will appear as white cottony growths on the bark. All types produce honeydew which may support sooty mold. European Pine shoot moth causes young shoots to fall over. Infested shoots may exude resin. The insects can be found in the shoots during May. Pesticides are only effective when caterpillars are moving from overwintering sites to new shoots. This occurs in mid to late April or when needle growth is about half developed.

Bark beetles bore into trunks making small holes scattered up and down the trunk. Stressed trees are more susceptible to attack. The holes look like shotholes. Keep trees healthy.

Sawfly larvae caterpillars are variously colored but generally feed in groups on the needles. Some sawfly larvae will flex or rear back in unison when disturbed. Sawflies can cause rapid defoliation of branches if left unchecked.

Pine needle miner larvae feed inside needles causing them to turn yellow and dry up.

Pine needle scale is a white, elongated scale found on the needles. Pine tortoise scale is brown and found on twigs. Depending on the scale, horticultural oil may control overwintering stages.

Pine spittle bug lives and hides in a foamy mass.

Spruce mites cause damage to older needles, and are usually active in the spring and fall. Mites cause older needles to become yellowed or stippled.

Zimmerman Pine moth larvae bore into the trunk. The only outward symptoms may be death of parts of the tree or masses of hardened pitch on the branches.

The larvae of Pine weevils feed on the sapwood of the leaders. The leader is killed and the shoots replacing it are distorted. First symptoms are pearl white drops of resin on the leaders. The leaders die when the shoot is girdled as adults emerge in August. Prune out and burn infested terminals before July 15.

Pine wilt nematode can be a serious problem. Infested trees can die in one growing season. There is no control at this time.

## **Diseases**

Diplodia tip blight is common on Austrian Pine and disfigures trees are they reach 25 to 30 years of age. The new growth turns brown and the branch is stunted. Black fruiting bodies may be found on needle bases within the sheath. Fungicides are sometimes suggested to control the disease but as yet no satisfactory control measures have been developed.

Needle blight infects Austrian Pine. Dark, slightly swollen bands form on one year old needles in late summer. The part of the needles beyond the band dies. Severely infected trees look thin.