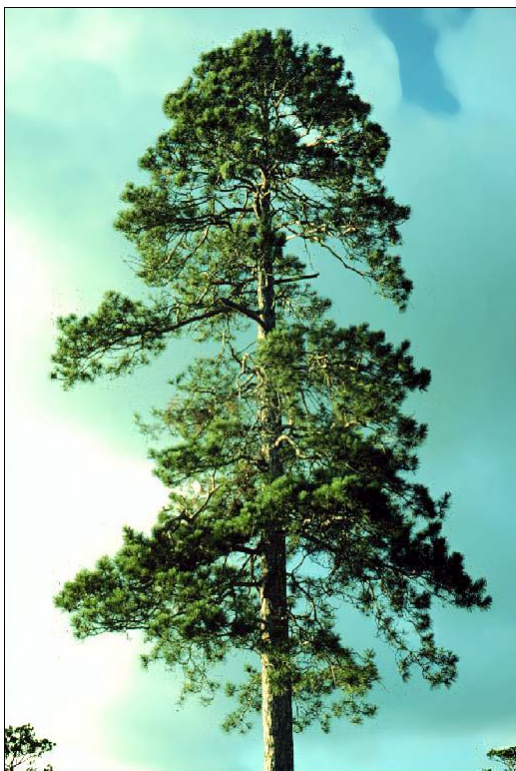


## RED PINE

*Pinus resinosa* Soland.

Plant symbol = PIRE

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### Alternate Names

Norway pine, eastern red pine, pin rouge

### Uses

**Economic:** Red pine wood is moderately hard and straight grained. It is grown primarily for the production of wood used for poles, lumber, cabin logs, railway ties, post, pulpwood, and fuel. The bark is occasionally used for tanning leather (Sargent 1961). This species is also planted and used as Christmas trees.

**Ethnobotanic:** The inner bark of *Pinus resinosa* was pounded as a poultice for any kind of inflamed wound, sore, or ulcer when white pine bark was not available (Fielder 1975).

**Landscaping & Wildlife:** Red pine is an attractive tree that is used in recreational areas because of its

colorful bark. This species provides cover for many species of mammals and birds. Deer, cottontails, and snowshoe hares browse songbirds, mice and chipmunks feed on the seed while seedlings.

**Agroforestry:** *Pinus resinosa* is used in tree strips for windbreaks. They are planted and managed to protect livestock, enhance crop production, and control soil erosion. Windbreaks can help communities with harsh winter conditions better handle the impact of winter storms and reduce home heating costs during the winter months and cooling cost in the summer.

### Status

Please consult the PLANTS Web site and your State Department of Natural Resources for this plant's current status, such as, state noxious status and wetland indicator values.

### Description

**General:** Red pine (*Pinus resinosa*) is a medium sized tree, up to twenty-five meters high and seventy-five centimeters in diameter (Farar 1995). The leaves are soft and flexible evergreen needles, in clusters of two, slender, 4"-6" long, dark green borne in dense tufts at the ends of branchlets. The fruit is ovoid-conic, with thin scales, becoming light chestnut-brown at maturity. The bark is thick and slightly divided by shallow fissures into broad flat ridges covered by thin loose red-brown scales (Sargent 1961). The root system is moderately deep, wide spreading, and very wind firm.

**Distribution:** Red pine is native to northeastern United States. This species ranges from Newfoundland and Manitoba, south to the mountains of Pennsylvania, west to Minnesota (Dirr 1990). For current distribution, please consult the Plant profile page for this species on the PLANTS Web site.

### Adaptation

Red pine occurs most often on well drained, dry, highly acid, sandy soils of outwash plains, and gravelly ridges (Barnes & Wagner 1981). It is frequently found where the soil fertility is low, in pure stands or mixed with species such as jack pine, white pine, aspens, oaks, and white birch. This species prefers full sun and is shade intolerant and extremely cold tolerant. *Pinus resinosa* is easily cultivated in nurseries and easily raised in plantations (Ibid.).

### Establishment

**Propagation by Seed:** Cones ripen from August to October with natural seed dispersal occurring

between October and November. However, seeds can be artificially harvested by kiln drying ripe cones for nine hours at 130°F (Dirr & Heuser 1987). Fresh seed has no dormancy and will germinate immediately upon sowing. Stored seed requires two months cold stratification. Optimum temperature for germination is 77°F (Ibid.).

### Management

Most red pine natural stands originate after a forest fire. Fire is necessary for regeneration because it prepares a seedbed by reducing much of the humus, and competition from other trees and shrubs, decreases the number of cone-destroying insects, and thins out the overstory (Farrar 1995). Once established, red pine requires little care. Tip and shoot moths sometime attack it.

### Cultivars, Improved and Selected Materials (and area of origin)

Materials are available through nurseries within its range.

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