

JACK PINE (*pinus banksiana*)



<p>A. Identification: most widely distributed pine tree in Canada</p>
<ul style="list-style-type: none"> • leaves---needle-like evergreen, light-yellow green ---bundles of two, 2-5 cm long, straight or slightly Twisted
<ul style="list-style-type: none"> • flowers--moneocious; females are oval, reddish appearing in May --yellow-green in clusters at twig tops
<ul style="list-style-type: none"> • cones----take two years to develop and vary in shape from oblong to conical, 3-7 cm long; seed crops begin at 5 to 10 years and most years after ----yellowish brown when mature and usually pointing toward end of branch, often in clusters of 2 or 3 and usually closed on the tree for 10 to 20 years or the lifetime of the tree ----scales are held closed by resin bond and open when exposed to heat from wildfire, direct sunlight, or warm days
<ul style="list-style-type: none"> • bark----thin, reddish brown to gray in color -----with age it becomes dark brown, flakey and made with thick plates
<ul style="list-style-type: none"> • wood----moderately hard and heavy with a weak light brown color
<p>B. Distribution: found in the coniferous belt all across Canada</p>
<p>C. Climate: is the dominant tree in the southern boreal forest</p>
<p>A. Habitat:</p> <ul style="list-style-type: none"> • grows on poor quality sites such as coarse sand, shallow soils, and rock out crops • grows also in pure or mixed stands with shade-intolerant trees such as white birch, trembling aspen, balsam poplar and tamarack and with shade-tolerant trees such as black and white spruce, and balsam fir
<p>B. Growing characteristics:</p>

<ul style="list-style-type: none"> • are small trees up to 20 m high, 30 cm in diameter, up to 150 years old • trees can be from tapered trunks and conical crowns to short crowns, slender and straight • grow in poor soils and rocky sites where the trees are short, twisted with long, stout branches that look unkempt • root system is wide-spread, fairly deep and has a tap root
<p>C. Reproduction:</p> <ul style="list-style-type: none"> • by seed, seed-bearing age in open stands is 5 to 10 years with some seeds producing every year • mature stand may have as many as 2 million seeds per acre in unopened cones • because the seeds produce so many, few mature trees are necessary to regenerate a stand
<p>D. Uses:</p> <ul style="list-style-type: none"> • modern---important commercial species <ul style="list-style-type: none"> ---it is a hard and heavy wood used for pulpwood, lumber, telephone poles, fence posts, mine timbers, railway ties ---also planted for Christmas trees
<p>I. Fun facts:</p> <ul style="list-style-type: none"> • is the territorial tree of the North West Territories • it is so well adapted to its environment that it needs wildfires or a lot of sun for its seeds to be released from the cone

Bibliography:

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