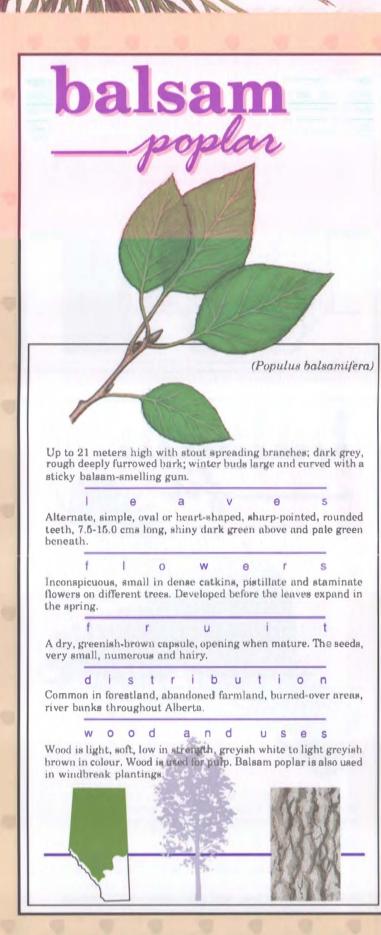
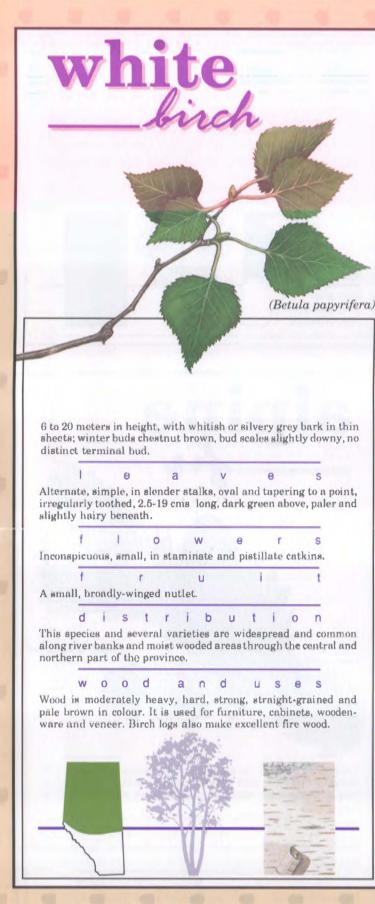
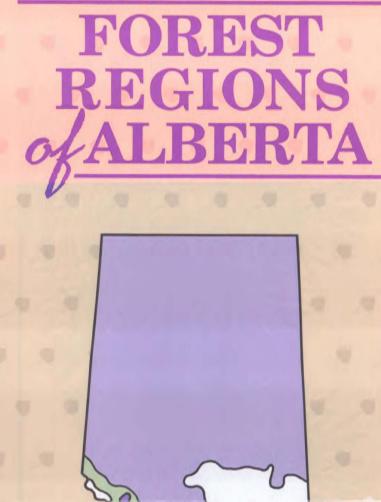


tamarack

(Larix laricina)







Boreal
Subalpine
Montane
(From Rowe 'Forest Regions of Canada')

Three of the eight major forest regions in Canada are represented in Alberta; Boreal, Subalpine and Montane. Each region has its own typical climate and characteristic species composition.

alpine louch

occidentalis)

(Larix lyallii)

A small slow-growing tree 9 to 12 meters high; crown has a ragged appearance with irregularly spaced branches; leaves mostly confined to the outer branchlets; bark smooth, thin, greyish on young trees becoming reddish and scaly on older trees; buds often hidden by long white hair.

Needle-like, 4-sided, soft and flexible, 2.5-4.0 cms long, bluishgreen, clusters of 30-40 on dwarf twigs, turning yellow in autumn before falling from the tree.

Pollen cones (male) small, yellow; seed cones (female) nearly stalkless, 4-5 cms long, dark brown at maturity; cone scales are covered with whitish hairs and have 3-toothed bracts; seeds are small and winged.

d is tribution
A timberline species on the slopes of the Rocky Mountains in southeastern Alberta.

W O O d a n d u s e s

Wood is heavy, hard and reddish brown in colour. Although it is suitable for both lumber and pulp, because of remote and inaccessible locations where it is generally found, alpine larch is of very little commercial importance. However, it is of importance in controlling run-off and erosion in high mountains.

mountuins.

This is the most extensive forest region in Canada. It comprises the greater part of the forested area of the country, forming a continuous belt from Newfoundland and the Labrador Coast westward to the Rocky Mountains and northward to Alaska. In Alberta it occupies the entire northern half of the province and stretches southwards between the agricultural zone and the Subalpine Forest Region to the Turner Valley area. The climate of the area is characterised by long, very cold winters, short mild summers and wide annual temperature variations. Precipitation is generally low, ranging from approximately 600 mm in the southern extent of the region to 300 mm in the north of the province. The main reason for the extremes of temperature and lack of precipitation is that the

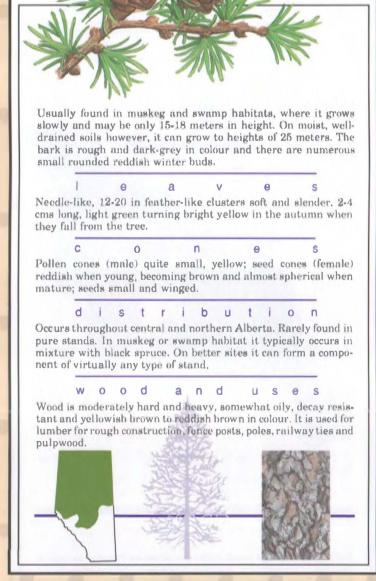
area. The climate of the area is characterised by long, very cold winters, short mild summers and wide annual temperature variations. Precipitation is generally low, ranging from approximately 600 mm in the southern extent of the region to 300 mm in the north of the province. The main reason for the extremes of temperature and lack of precipitation is that the size of the land mass restricts the sea's influence. This allows development of large high pressure centres so that during the winter months the region is dominated by very cold, very dry Arctic air masses. Black spruce, white spruce, tamarack and balsam fir are characteristic species through most of the Boreal Region, with black spruce becoming more importantin the north of the province. Jack pine is present in northeastern Alberta and lodgepole pine is an important component in the foothills in the western part of the province. Broad-leaved trees are also represented throughout the region by aspen, balsam poplar and white birch.

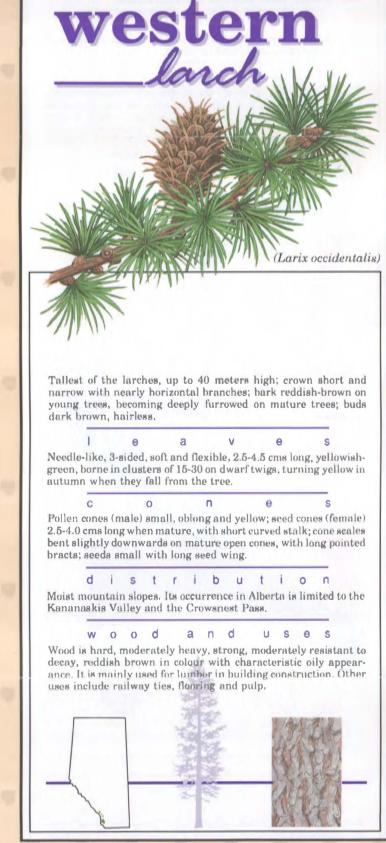
SUBALPINE

The major representation of the Subalpine Region in Canada is in British Columbia and Alberta. In Alberta it stretches northward from the United States border to a point just west of Grande Cache. The upper boundary of the Subalpine Region forms the "climatic forest line" i.e. the elevation where continuous forest cover ends and isolated stands of trees begin. The climate of the region is characterised by cold, snowy winters and cool, showery summers, with below freezing temperatures being common in all months except July and August. Approximately 50% of the precipitation occurs during the winter months. Characteristic tree species of the Subalpine Region are Engelmann spruce, alpine fir, alpine larch, lodgepole pine and whitebark pine.

M O N T A N

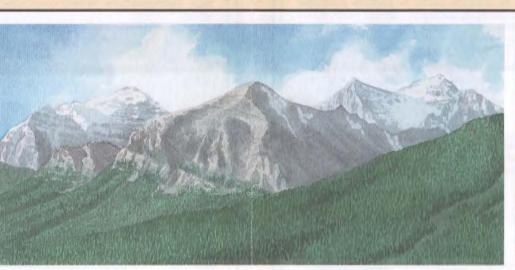
As with the Subalpine Forest Region, the major representation of the Montane Forest Region in Canada is in British Columbia and Alberta. In Alberta its main occurrences are in the vicinity of the Porcupine Hills, Crowsnest Pass, and the foothills north of Waterton Lakes National Park. The Bow, Saskatchewan and Athabasca River valleys also contain Montane vegetation. The most notable feature of the region is its association with major east-west mountain valleys which channel warm Pacific air (chinooks) into Alberta during the winter months, thus lessening the effects of cold Arctic air invading Alberta from the north. Most precipitation occurs as snow in the winter months. Characteristic tree species for the region as a whole are Douglas-fir and limber pine, while moist and cool sites, such as north-facing slopes, are occupied by aspen, lodgepole pine and white spruce.



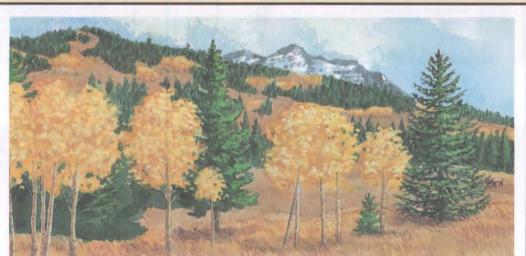


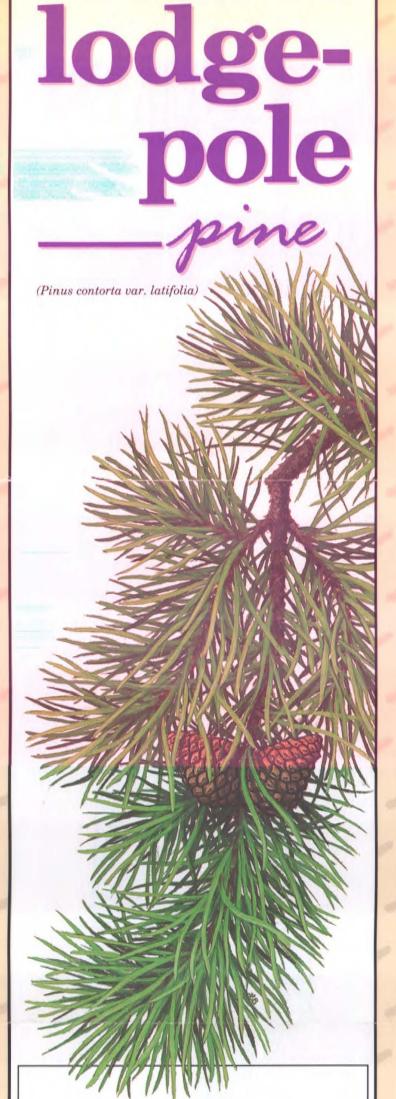


Boreal



Subalpine





Long before the white America, the Western Plains Indians began utilizing the forest wealth of the province. The trees they used were strong, straight and of uniform taper. The regular use of these trees for the construction of their buffaloskin lodges led the famous explorers Lewis and Clark to dub them "lodgepole pine". During the early years of settlement, lodgepole pine was used by pioneers primarily for fenceposts, fuelwood and cabin construction. By 1883, the railway had reached as far west as Calgary and had created an entirely new market for railway ties, telegraph poles and mining timbers. The lodgepole pine continues to be a major contributor to Alberta's forest industry as well as providing protective cover for the vital watersheds of our province's east-

lberta's

**Provincial Tree** 

Up to 30 meters or more in height; bark thin, yellowish-brown,

ern slopes.

Needle-like, in bundles of two, produced in dense clusters towards the ends of the branches, 2.5-7.5 cms long, yellowish-green.

Pollen cones (male) borne in small terminal clusters; seed cones (female) conical-shaped and woody, usually curved backwards towards the base of the branches, yellowish-brown, often borne in clusters, 2.5-5.0 cms long, scales thickened and with a sharp spine at the tip of each scale; seeds winged.

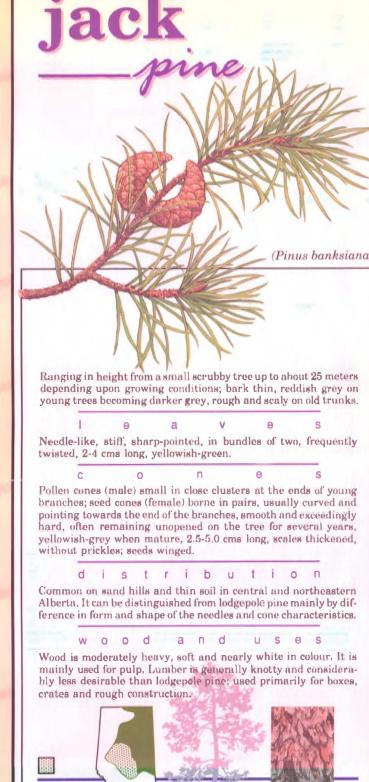
distribution

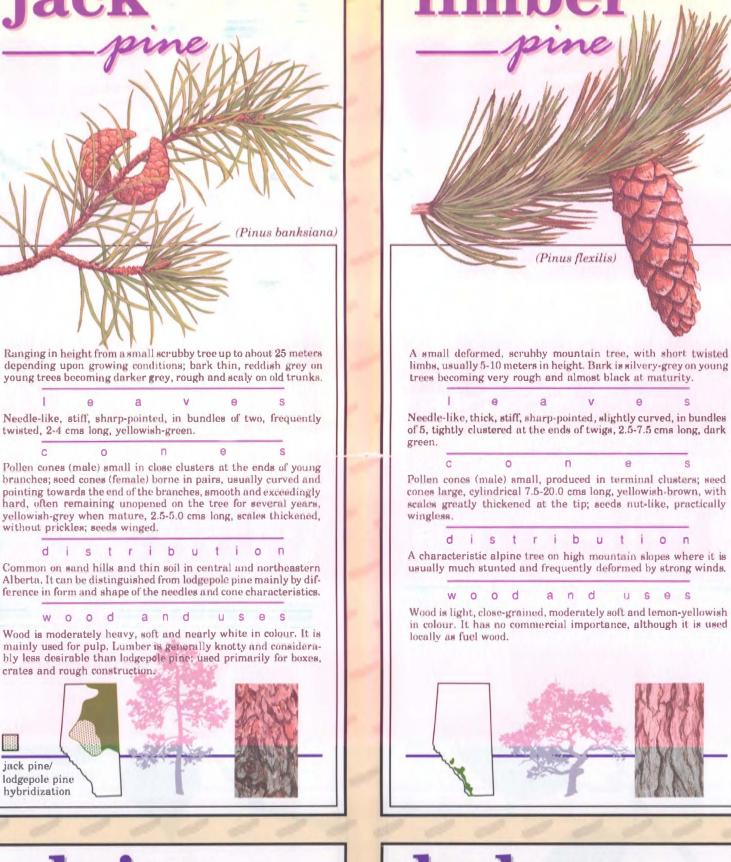
The most common and abundant tree in the Rocky Mountains and foothill regions. Occurring on the eastern slopes of the Rocky Mountains where it frequently forms dense even-aged stands as the result of fire. In areas adjacent to jack pine, the two species integrate.

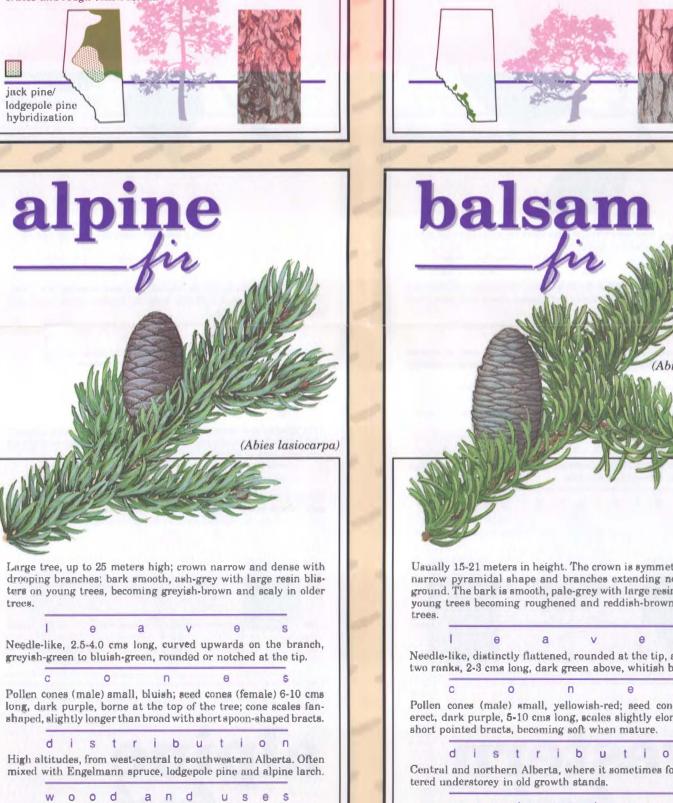
wood and uses Wood is moderately light, soft to moderately hard and white to yellowish brown in colour. It is used for lumber and plywood as well as pulp. Lumber is used mainly in general construction; other uses include furniture, siding, flooring and panels. After pressure treatment with preservatives, lodgepole pine makes excellent railway ties, utility poles and mine timbers.

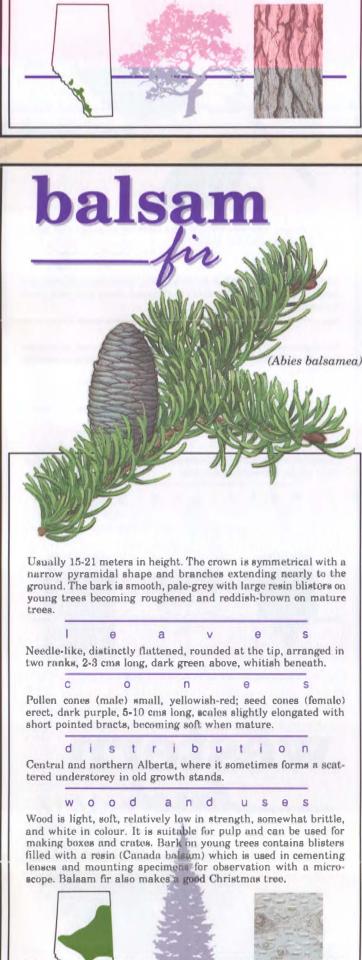


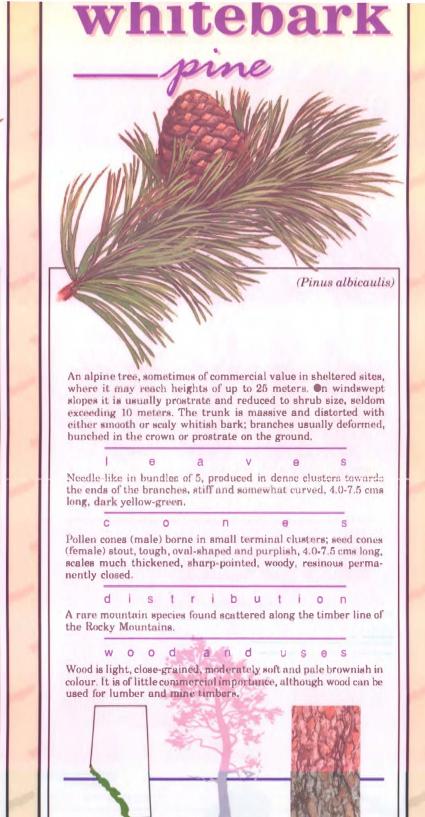


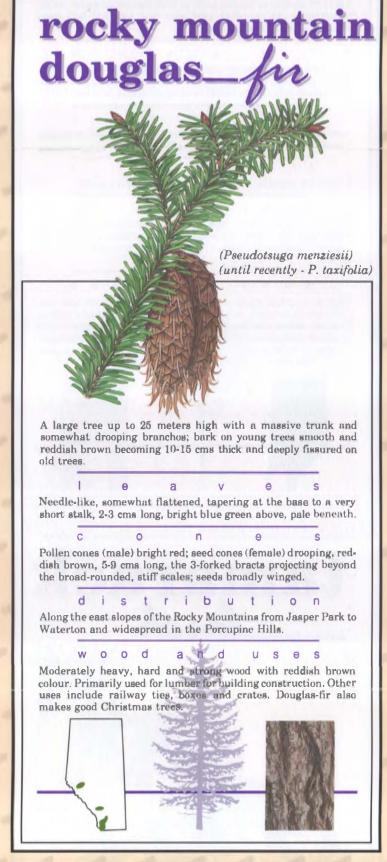


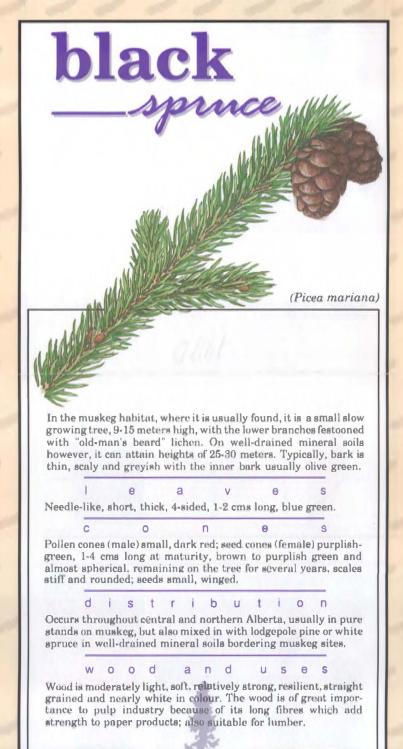












Wood is light, soft, relatively low in strength and white in colour.

It is used mainly for lumber for building construction and pulp;

also suitable for making boxes and crates.



