



Getting to know trees can be interesting, fun, and rewarding. This brochure describes the most common tree species you will see in the Northwest Territories. When you identify a tree, and know its name, you are making a connection with our ancestors – recognizing the beauty of trees, and their many contributions toward our well-being. This brochure will help you get acquainted with northern trees and forests, and their deep-rooted relationship with the people of the north. The north is a good place to learn and identify trees, because there aren't very many!

TAMARACK – *Larix laricina*

Have you met the Official Tree of the Northwest Territories? It shows up best in late autumn, when its feathery needles turn golden, and it stands out as the only bright tree in a forest of dark evergreens and deciduous trees that have already lost their leaves. This is the tamarack, the only conifer that sheds its needles in winter, after they turn yellow, and stands bare when spruce and pine trees stay green. The tamarack is a tree of cool, wet places. The next time you are out exploring muskeg or sphagnum bogs, look for our Official Tree.

Getting Started

The trees described here belong to two different groups:

Deciduous trees drop all their leaves at the end of the growing season, and grow new leaves the next spring.

Evergreens keep their needles year-round, so they are always green. Most evergreens are also conifers, trees that have cones.



Deciduous trees produce their seeds in **flowers** instead of in cones. You may not recognize them as such, but the tassel-like, hanging catkins you'll find on northern deciduous trees are actually clusters of tiny, greenish flowers without petals. Catkins are either male or female flowers, not both. You'll know the male catkins in the spring when their tips turn yellow with pollen. The female catkins produce the seeds, which often have long silky hairs or tiny wing-like casings that help them disperse on the wind.

In some areas of the Northwest Territories, you might find a tree that has a puzzling combination of features of more than one species. This is possible because several species of northern trees form hybrids where they occur together. Hybrids are the offspring of two different species, and are common among closely related trees. They usually have a mix of features from both parent trees.

Seed cones (or female cones) are the most noticeable type. When fertilized by pollen, they develop seeds at the base of each scale. In the spring, when seeds are developing, you'll usually find these small cones of various colours near the tips of new growth. They turn green or purple as they grow, brown when they are mature, and eventually, if they remain on the tree, grey.

Pollen cones (or male cones) are small cones that appear at the base of new growth in the spring, turn yellow as they produce pollen, then fall shortly afterwards. You will only find them in the spring.



HUMAN USES

Traditional

- Preparations from inner bark used to treat deep cuts, open sores, burns, boils, frostbite, itching, bleeding, earaches, inflamed eyes
- Tea from needles, bark, and/or roots used to treat sore muscles, arthritis, diabetes, upset stomach, general health (high vitamin C)
- Preparations from needles used for aches, colds, difficulty breathing
- Wood used for canoe paddles, drum frames, toboggans, snowshoes
- Branches long, graceful, sparse; without needles, branches are “knobby”
- Roots used for stitching, baskets

FIELD NOTES

From a Distance

- A straight, slender conifer, 6-15 m tall, with a delicate, “feathery” appearance
- Crown narrows at top, pyramid-shaped
- Branches long, graceful, sparse; without needles, branches are “knobby”

UP CLOSE

Needles

- Short (1-2cm long), soft and flexible
- Grow in bushy clusters of 10-20 from woody knobs
- Wood produces high heat when burned
- Tannins from bark used for leather tanning

WILDLIFE USES

- Seeds eaten by red squirrels, chickadees, nuthatches, crossbills
- Important habitat for great grey owls
- Porcupines strip outer bark to eat inner bark, killing trees
- May stay on the tree for several years

Bark

- Thin, scaly, no ridges
- Grey to reddish-brown

Human Uses

Traditional

- Found throughout most of the forested areas of the NWT, though in low numbers and patchy distribution
- A tree of cold, wet places, occurring in muskeg and sphagnum bogs
- Grows with black spruce in open muskeg, and aspen and birch in better drained areas

From a Distance

- Needles and young twigs make a zesty tea high in vitamin C
- Inner bark and young shoots an emergency food source
- Outer bark used to build canoes when birch not available
- Spruce boughs used for tipi or tent flooring
- Peeled and split roots used as cord for canoe seams, baskets, fish nets
- Spruce beer made from growing tips prevented scurvy in early Europeans

Up Close

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Human Uses

Traditional

- Prefer sites with well-drained, mineral soils
- Thin bark and shallow roots offer little fire protection
- Shade-tolerant seedlings can take over deciduous stands

From a Distance

- Often shrubby with narrow, knobby crown
- Short, droopy branches
- Rotted wood pounded in caribou hide used for baby powder and deodorant

Up Close

Needles

- Pine needle tea, high in vitamin C
- Mouth wash from boiled cones to treat toothache and sore throat
- Inner bark good for colds
- Crumbly, rotted wood used as baby powder
- Cabin logs, planks for toboggans and boats

Commercial

- Seed cones rounder, smaller than white spruce
- Fringed scales
- Pollen cones dark red in spring

WILDLIFE USES

- Short, stiff, 4-sided needles point in every direction
- Waxy white layer on lower side give species its name

Cones

- Short, stiff, 4-sided needles point in every direction
- Waxy white layer on lower side give species its name
- Common choice for pulpwood and lumber

Bark

- Thin, dark grey
- Usually in pairs
- Most closed until opened by fire
- Knobby scales with tipped spines

Human Uses

Traditional

- Needles and young twigs make a zesty tea high in vitamin C
- Inner bark chewed like regular gum
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