

GLAUCOUS - WHITISH SURFACE THAT RUBS OFF
 GLABROUS - WITHOUT HAIRS
 PUBESCENT - WITH HAIRS - SHORT, SOFT & DOWN-LIKE
 FASCICLE - BUNDLE OR CLUSTER

Spermatophytes Flowering Plants

Gymnospermae Gymnosperms

Pinales Pine Order

Pináceae—Pine Family

Resinous trees or shrubs; leaves needle-like or scale-like, usually evergreen; flowers monoecious or dioecious, cone-like; staminate of an elongated axis bearing numerous scale-like or pel-tate stamens; the pistillate flower of an axis bearing scales in a single or double series, the fer-tile scales bearing 1-many (usually 2) naked ovules; fruit usually a cone with hard dry scales, occasionally berry-like, the scales becoming fleshy.

Píceae—Spruce

(*L. picea*, pitch pine)

Evergreen trees; leaves needle-like, usually four-cornered in cross-section, sharp-pointed; cones pendulous with persistent scales.

- | | |
|---|-------------------------------------|
| 1. Leaves glaucous | <i>P. parryána</i> ; blue spruce |
| 2. Leaves green | <i>P. excélsa</i> ; Norway spruce |
| a. Cones over 8 cm. long. | |
| b. Cones less than 8 cm. long | |
| (1) Twigs glabrous and glaucous; leaves light-green | <i>P. canadénsis</i> ; white spruce |
| (2) Twigs pubescent; leaves dark green | <i>P. mariána</i> ; black spruce |

Pseudotsúga—Douglas Spruce

(*Gr. psuedes*, false, *Jap. tsuga*, hemlock)

Evergreen trees; leaves needle-like, flat in cross-section, soft and blunt; cones pendulous with persistent scales and conspicuous three-pointed bracts.
 A single species

P. taxifólia; Douglas spruce

Ábies—Balsam Fir

(*L. abies*, silver fir)

Evergreen trees; leaves needle-like, flat in cross-section, firm and blunt; cones erect, scales falling away from the persistent axis.
 Trees with fragrant leaves and balsam-bearing bark.

A. balsámea; balsam fir

Lárix—Larch, Tamarack

(*L. larix*, larch tree)

Deciduous trees; leaves needle-like, very many in each fascicle, soft, bright-yellow in the fall; cones erect or ascending, with persistent scales.

- | | |
|--|--------------------------------|
| 1. Cones 1-2 cm. long; native swamp tree | <i>L. americána</i> ; tamarack |
| 2. Cones 3-5 cm. long; cultivated | <i>L. europáea</i> ; larch |

Pínus—Pine

(*L. pinus*, pine tree)

Evergreen trees; leaves needle-like, in fascicles of 2-5; cones ascending to pendulous, with persistent scales.

- | | |
|--|---------------------------------------|
| 1. Leaves five in each fascicle | <i>P. stróbus</i> ; white pine |
| 2. Leaves two in each fascicle | |
| a. Leaves 10-15 cm. long, thick | |
| (1) Leaf sheath long; native | <i>P. resinósa</i> ; Norway pine |
| (2) Leaf sheath short, leaf sharp-pointed; cult. | <i>P. austriaca</i> ; Austrian pine |
| b. Leaves 3-8 cm. long, flat | |
| (1) Erect trees | |
| a. Leaves not rigid, twisted, 3-7 cm. long; cultivated | <i>P. silvéstris</i> ; Scotch pine |
| b. Leaves rigid, straight, 2-4 cm. long; native | <i>P. divaricáta</i> ; jack pine |
| (2) Dwarf tree or shrub; cultivated | <i>P. montána mughus</i> ; mugho pine |

PINE FAMILY—MOONSEED FAMILY.

Thúja—White Cedar, Arbor-Vitae

(Gr. *thya*, arbor vitae)

Evergreen trees or shrubs; leaves scale-like, small, in opposite pairs, twigs flattened; cones very small, with a few persistent scales.

Swamp tree with flat twigs and scale-like fragrant leaves *T. occidentális*

Sabína—Red Cedar, Savin

(L. *sabina*, a kind of juniper)

Evergreen trees or shrubs; leaves scale-like, or needle-like, opposite; cones fleshy, berry-like, blue.

- | | |
|---|----------------------------------|
| 1. Tree or tall shrub | <i>S. virginiana</i> ; red cedar |
| 2. Depressed or creeping glaucous shrub | <i>S. sabina</i> ; savin |

Juníperus—Juniper

(L. *juniperus*, juniper tree)

Evergreen shrubs; leaves awl-shaped in whorls of 3; cones berry-like, blue.
Shrub with awl-shaped leaves in whorls of 3, blue berries

J. communis COMMON JUNIPER

Taxáceae—Yew Family

Evergreen shrubs or trees; flowers dioecious or monoecious, staminate flowers cone-like, consisting of an axis bearing stamens, pistillate flowers not cone-like, much reduced, the ovules commonly solitary and exposed; seeds exposed, with a fleshy outer integument.

Táxus—Yew

(L. *taxus*, yew tree)

Low evergreen shrub, fruit a red berry

~~Yew~~ CANADIAN YEW