# Colorado Native <br> <br> Tree Guide 

 <br> <br> Tree Guide}

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The following is a key to the identification of some of the more common trees in Colorado. This guide does not include all tree species which may occur in Colorado.

## To Identify a Tree:

- Select some typical leaves or needles, and if possible, some cones and bark.
- Read the first leaf description below.
- $\quad$ Select the choice that best describes the leaf or needle.
- Go to the number instructed, continuing in the same manner until a tree name is given.

If the tree has needle- or scale-like leaves go to (1) If the tree has ordinary leaves, go to
(1) If the leaf is a needle, go to (2)

If the leaf is a scale, go to (8)
(2) If the needles are surrounded by a sheath at the base, go to (3)

If the needles are not in bundles not surrounded by a

## Glossary

Lanceolate-narrow leaf, broadest toward the base. Lance-shaped, about 5 times as long as wide.


Ovate-egg-shaped with the broadest area toward the base.


Obovate-reverse ovate: oval, with the broader end at the tip.


Node-place along the stem where leaves, buds, or branch stems arise.


Pinnate-arranged with leaflets or veins arising at opposite sides of a central axis.

## This tree is a..

## RIVER BIRCH (Betula

 occidentalis) Leaves are 1-2 inches long, thin, and oval or obovate shaped. They are also dark green on top and yellowgreen on bottom. Bark is a red-dish-brown and is shiny. Fruit is a light brown cones, about 1 inch long.

Or a...
CHOKECHERRY (Prunus
virginiana melanocarpa) Leaves are broadly obovate, 2-4 inches long and 1-2 inches wide. Flower is white and .5 inches in diameter, in racemes 3-6 inches long. Cherries are . 3 inches in diameter. Bark smells bad and is lustrousbrown and later becomes scaly.


This tree is a...

## SINGLELEAF PIÑON (Pinus

monophylla) Needles are 1-1.5 inches long. Cones are round and about 2 inches long. Needles are borne singly. (Occurs rarely in SW Colorado.)


(3) If needles are borne singly, go to (4)

If the needles are mostly in bundles of two, go to (5)
If the needles are mostly in bundles of three, go to (6)
If the needles are in bundles of five, go to 7
(4) This tree is a...

GAMBEL OAK (Quercus gambelii) Leaves are 2-7 inches long and 1.5-3.5 inches wide with $7-11$ lobes. The fruit is an acorn.
(5) This tree is a...

PIÑON PINE (Pinus edulis) Has large edible seeds. Needles are 1-1.5 inches long. Cones are round, resinous, and about 2 inches long. The tree is fairly small, 20-50 feet tall, with a rounded crown and short trunk.


## Or a...

## LODGEPOLE PINE (Pinus

 contorta) Needles are 1-3 inches long and are stiff and dark green. Cones are closed and typically attached to the tree, but open when heated.(6) This tree is a...


PONDEROSA PINE (Pinus ponderosa) Needles are 3-6 inches long, dark yellow-green, and form tufts near the end of the branches. Cones are 3-6 inches long with the scales tipped by a stiff prickle. Bark on mature trees is reddish orange and sometimes smells like vanilla. Bark on young trees is dark.

## (7) This tree is a...

LIMBER PINE (Pinus flexilis) Needles are 2-3.5 inches long, slender, and blue-green in color. Cones are columnar and 3-8 inches long. Branches are fairly bendable.



Or a...
PEACHLEAF WILLOW (Salix amygdaloides) Leaves are broadly lanceolate, 2-5 inches long and .8-1.3 inches wide. Bark of large trunks is black, ridged, and furrowed.


Or a...

## NARROWLEAF COTTON-

WOOD (Populus angustifolia)
Leaves are 2-3 inches long and
.5-1 inches wide, with teeth on the edge and a nearly round stem.

There many other species of native willows and willow hybrids in Colorado. These naturally occur primarily in riparian areas.

## Or a...

QUAKING ASPEN (Populus tremuloides) Leaves are nearly round, 1-3 inches in diameter with slender, flattened stems. They are green on top and silverish below. In the fall, the leaves turn golden-yellow. The bark is smooth, greenish-white, and marked by black, warty patches.


(21) This tree is a...

## HACKBERRY (Celtis

 occidentalis) Leaves are ovate to ovate-lanceolate and are 2.3-4 inches long and 1.5-2 inches wide. Fruit is dark-red to purple and .3 inches in diameter. Bark is warty and gray to brown.Or a...
BRISTLECONE PINE (Pinus aristata) Needles are 1.5 inches long, stout, and dark green in color with white dots of sap on them. Cones scales are tipped with a long, stiff, incurved prickle.

(8) This tree is a...


## ROCKY MOUNTAIN JUNI-

PER (Juniperus scopulorum) Has scale-like, wispy branches that are grayish-green in color and may be reddish in the winter. Berries are . 2 inches in diameter, are blue-gray, waxy, and juicy. Tree grow to 20-40 feet tall with a short, stout, often divided trunk. Bark is gray-brown to reddish-brown with scales on the surface.

Or a...
ONE-SEED JUNIPER
(Juniperus monosperma)
Branches are stout with yellowgreen, glandular foliage. Berries are a $1 / 4$ inch, dark blue, and juicy. Usually grows as a multistemmed shrub on very poor sites.

Or a...
UTAH JUNIPER (Juniperus osteosperma) Has scale-like, yellow-green foliage. Cones are oblong, and . 2 - . 3 inches long. Bark is gray and broken into elongated scales.
(9) If the needles are four-sided, sharp on the end and grow from woody, peglike bases, go to 10

If the needles are two-sided, rounded on the end and grow directly from the branch, go to (11)
(10) This tree is a...

## ENGELMANN SPRUCE

(Picea engelmannii) Needles are plump to 4-sided in crosssections and sharp. Twigs are minutely hairy. Cones are cigar shaped, 1-2.5 inches long, light chestnut in color. Scales are papery thin and ragged along the outer edge. Tree grows to be 100-125 feet tall. Bark of mature tree is "flaky."

(19) This tree is a...

## GREEN ASH (Fraxinus

 pennsylvanica) Leaves are 6-9 inches long with leaflets 3-4 inches long and 1-1.5 inches wide. The bottom of the leaflets are smooth to hairy. Bark is thin, brown-tinged with red, and furrowed with ridges.(20) This tree is a...

## FREMONT COTTONWOOD

(Populus fremontii) Leaves are triangular, 2-2.5 inches long and 2.5- 3 inches wide. Seeds are capsules that are usually 3, sometimes 4 valved. Bark in young trees is thin, smooth, and graybrown. Bark on mature trees is thick, deeply-furrowed, and darkreddish brown.



Or a...

## PLAINS COTTONWOOD

(Populus deltoides var. occidentalis) Leaves are triangular, 3-6 inches long and 4-5 inches wide. Seeds are capsules with 34 valves and are about .3 inches long. Bark of young trees is smooth and greenish-yellow. Bark on mature trees is dark gray and furrowed.


If seeds and/or flowers are white...

## REDTWIG (OR OSIER) DOGWOOD (Cornus

stolonifera) The leave are rough on the top and fuzzy on the bottom. They are also large and oval. Flowers and fruit are white. The twigs and branches are reddish.

If the fruit is twin, black berries...

## TWINBERRY HONEY-

SUCKLE (Lonicera involucrata) Leaves are large, opposite, and 24 inches long. Fruit is twin blackberries about $1 / 4$ inch in diameter. Stems are gray.



Or a...

COLORADO BLUE SPRUCE (Picea pungens) Needles are 11.5 inches long, diamond-shaped in cross sections, stiff, and very sharp. Cones are similar to Engelmann spruce but 3.5 inches long. Tree grows to be 80-100 feet tall. Bark of mature tree is gray and furrowed.
(11) If the cones hang down, this tree is a...
DOUGLAS-FIR (Pseudotsuga menziesii) Needles are 1-1.5 inches long. Cones hang down and are 3-4 inches long. They have 3-pointed bracts sticking out from the scales. Bark of young trees is gray and smooth with resin blisters. Needle bases
 consist of little stalks or "pegs."

If the leaf scars resemble "suction cups," the needles are soft with rounded tips, and the cones sits upright on the branch falling apart at maturity, falls apart on the tree, go to (12)

(12) This tree is a...

WHITE FIR (Abies concolor)
Needles are flat, 1.5-3 inches long, blue-green or silvery, and tend to point up. The cones are oblong, olive-green to purple, and 3-5 inches long.

## Or a...

## SUBALPINE FIR (Abies

lasiocarpa) Needles are flat, 1-1.8 inches long, dark blue-green, with silvery lines of stomata on both surfaces. Cones are 2-4 inches long, purple, and cylindrical. (Corkbark fir is a subspecies of subalpine fir also occurring in
 Colorado).
(13) If the leaves are simple, go to (14)

If the leaves are compound, go to (15)
(14) If the leaves on the branch are alternate, go to

If the leaves on the branch are opposite, go to 17
If the seeds look like this


If the seeds look like this

(16) If the leaves are triangle-shaped, go to (20)

If the leaves are ovate, ovate-lanceolate, or ovate-oblong, go to (21)

If the leaves are lanceolate, go to (22)
If the leaves are obovate, go to (23)
If the leaves are broad and lobed, go to (24)
(17) If the seeds have wings...

## ROCKY MOUNTAIN MAPLE

(Acer glabrum) Leaves are 3-5 inches in diameter with 3-5 lobes. Wings of the seeds only spread slightly, are .75-1 inch long and about .3-. 5 inch wide and slightly rose colored.


