

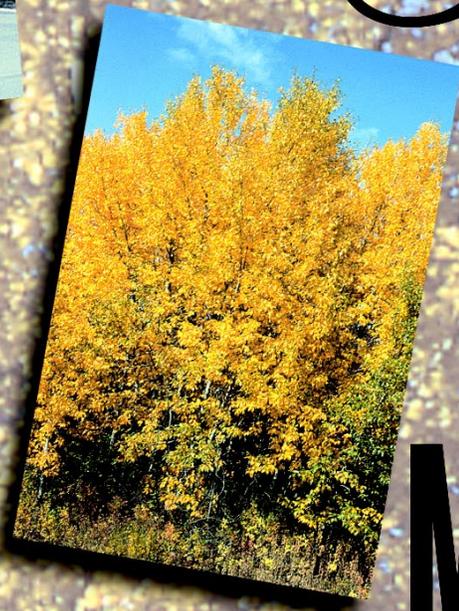
Conservation

Trees and

Shrubs

for

MONTANA



	20-Year Height (ft.)	Actual Crown Width (ft.)	Growth Rate	Drought Tolerance Min. Prec. (in.)	Saline/Alkali Soils Tolerance	Nesting	Wildlife Rating		
							Birds Food	Mammals Cover	Mammals Browse
Deciduous Shrubs									
Almond, Russian	4	6	M	G-12	F	E	E	F	F
Buffaloberry, Silver	10	7	M	E-8	E	E	E	E	E
Caragana	12	12	R	E-8	G	E	F	F	P
Cherry, Nanking	7	8	M	G-10	F	E	E	F	E
Chokecherry, Common	10	9	M	G-10	F	E	E	E	F
Cotoneaster, Centennial	10	4	M	G-10	F	E	E	F	P
Currant, Golden	6	5	M	G-11	F	G	G	F	G
Dogwood, Redosier	7	6	R	P-18	P	E	F	E	G
Honeysuckle, Blueleaf	8	8	M	G-12	F	E	E	G	P
Lilac, Common	6	7	M	E-9	F	E	P	E	P
Plum, American	10	9	M	G-10	F	E	G	G	E
Rose, Woods	6	6	M	F-14	P	E	E	E	E
Sandcherry, Western	4	6	M	G-10	F	G	E	F	F
Serviceberry, Saskatoon	10	8	M	G-12	F	G	E	G	G
Silverberry	6	6	M	G-12	F	G	G	F	F
Sumac, Skunkbush	8	5	S	E-8	F	E	F	E	G
Deciduous Trees									
Ash, Green	18	11	M	G-10	F	G	F	F	G
Cottonwood, Plains	45	25	R	F-15	F	F	P	P	F
Crabapple, Siberian	15	14	M	G-12	F	F	G	F	F
Elm, Siberian	25	19	R	G-12	G	F	F	P	P
Hackberry, Common	15	10	M	G-12	G	F	F	F	F
Hawthorn, Arnold	16	12	M	G-12	F	E	G	G	F
Honeylocust	20	11	M	G-12	F	F	F	P	P
Maple, Amur	15	10	M	G-12	P	F	P	F	F
Oak, Bur	18	15	M	G-10	F	F	G	F	G
Olive, Russian	17	15	R	E-8	E	E	E	F	P
Poplar, White	25	19	R	G-12	F	F	P	P	F
Willow, Golden	25	13	R	F-13	F	F	F	F	F
Conifers									
Fir, Douglas	15	10	M	F-13	P	G	F	P	P
Juniper, Rocky Mtn.	12	9	M	E-8	F	G	G	G	E
Pine, Limber	10	9	S	G-10	P	G	F	F	P
Pine, Ponderosa	17	12	M	G-10	F	G	F	F	P
Pine, Scotch	17	12	M	G-10	P	P	G	P	P
Redcedar, Eastern	10	9	M	G-10	F	G	G	G	E
Spruce, Black Hills	12	9	S	G-10	F	E	F	P	P
Spruce, Colorado Blue	15	10	M	G-10	P	E	F	P	P

R=Rapid M=Moderate S=Slow E=Excellent G=Good F=Fair P=Poor

Almond, Russian

(*Prunus tenella*)

20 Year Height: 4 feet

Growth Rate: moderate

Growth Habit: upright, suckering

Drought Resistance: good

Wildlife Value: excellent nesting and food source for birds

Flowers: abundant pink to rose

Other: prefers loamy soils



Buffaloberry, Silver

(*Shepherdia argentea*)

20 Year Height: 10 feet

Growth Rate: moderate

Growth Habit: loosely branched thorny shrub

Drought Resistance: excellent

Wildlife Value: ideal cover, nesting, and browse; good late winter food source

Disease: stem decay, branch canker

Other: well-adapted to dry, moderate alkaline, and saline soils; berries used for jellies; fixes nitrogen

Caragana

(*Caragana arborescens*)

20 Year Height: 12 feet

Growth Rate: rapid

Growth Habit: erect, oval shrub

Drought Resistance: excellent

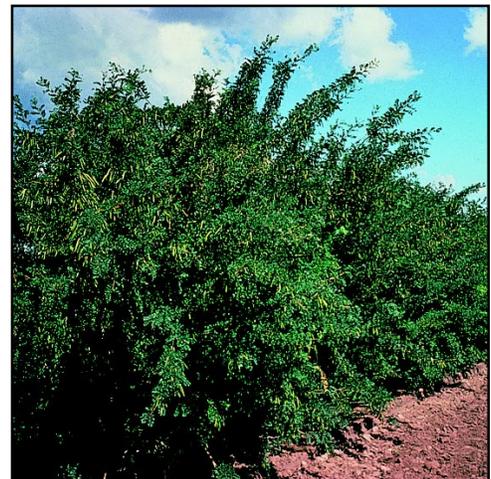
Wildlife Value: used for nesting

Flowers: small showy yellow

Pests: blister beetles

Disease: stem decay, leaf spot and branch cankers

Other: produces pods with multiple seeds



Cherry, Nanking

(*Prunus tomentosa*)

20 Year Height: 7 feet

Growth Rate: moderate

Growth Habit: upright, semi-spreading

Drought Resistance: good

Wildlife Value: fruit for songbirds, browse

Flowers: small pink

Disease: branch cankers

Other: prefers loamy soils, short-lived, excellent fruit for pies and jellies

Chokecherry, Common

(*Prunus, virginiana*)

- 20 Year Height:** 10 feet
Growth Rate: moderate
Growth Habit: oval to rounded, suckering
Drought Resistance: good
Wildlife Value: excellent for food and cover
Flowers: creamy-white
Pests: prairie tent caterpillar
Disease: "western" x-disease, black knot, stem decay, shothole canker
Other: purple leaf selections for landscaping, adapted to wide variety of soils, fruit for jellies



Cotoneaster, Centennial

(*Cotoneaster integerrima*)

- 20 Year Height:** 10 feet
Growth Rate: moderate
Growth Habit: spreading, open and upright arching branches
Drought Resistance: good
Wildlife Value: fruit attracts birds
Flowers: pinkish-white
Pests: pear slug
Disease: fireblight
Other: showy red berries, should not be planted near crabapples

Currant, Golden

(*Ribes aureum*)

- 20 Year Height:** 6 feet
Growth Rate: moderate
Growth Habit: upright, spreading
Drought Resistance: good
Wildlife Value: roosting, loafing, nesting and food for birds
Flowers: fragrant golden-yellow
Pests: currant worm
Disease: anthracnose, leafspots, white pine blister rust host
Other: berries used fresh for jelly



Dogwood, Redosier

(*Cornus sericea*)

- 20 Year Height:** 7 feet
Growth Rate: rapid
Growth Habit: loose and rounded, many stems
Drought Resistance: poor
Wildlife Value: dense cover and food source
Flowers: creamy
Disease: twig blight
Other: dark, blood-red bark provides winter color

Honeysuckle, Blueleaf

(*Lonicera korolkowii*)

20 Year Height: 8 feet
Growth Rate: moderate
Growth Habit: spreading
Drought Resistance: good
Wildlife Value: nesting and food
Flowers: yellow-pink
Other: plant only Russian aphid resistant cultivars



Lilac, Common

(*Syringa vulgaris*)

20 Year Height: 6 feet
Growth Rate: moderate
Growth Habit: upright, leggy, suckering
Drought Resistance: excellent
Wildlife Value: little value for fruit or browse, songbird nesting
Flowers: white to purple, fragrant and showy
Pests: lilac borer
Disease: powdery mildew

Plum, American

(*Prunus Americana*)

20 Year Height: 10 feet
Growth Rate: moderate
Growth Habit: round-headed crown, suckers freely
Drought Resistance: good
Wildlife Value: important for nesting, loafing, browse and food
Flowers: white
Pests: prairie tent caterpillar
Disease: stem decay, branch cankers, black knot, plum pockets
Other: thorny, winter-hardy, thicket-forming tall shrub with edible fruit



Rose, Woods

(*Rosa woodsii*)

20 Year Height: 6 feet
Growth Rate: moderate
Growth Habit: stems upright, semi-weeping
Drought Resistance: fair
Wildlife Value: excellent food source, nesting and cover
Flowers: showy pink
Other: fruit referred to as a rose hip and a source of Vitamin C

Sandcherry, Western

(*Prunus pumila*)

20 Year Height: 4 feet
Growth Rate: moderate
Growth Habit: open, spreading shrub
Drought Resistance: good
Wildlife Value: good loafing, food source and browse
Flowers: white
Disease: leaf curl, black knot, fireblight
Other: relatively short-lived, fruit for pies and jellies



Serviceberry, Saskatoon

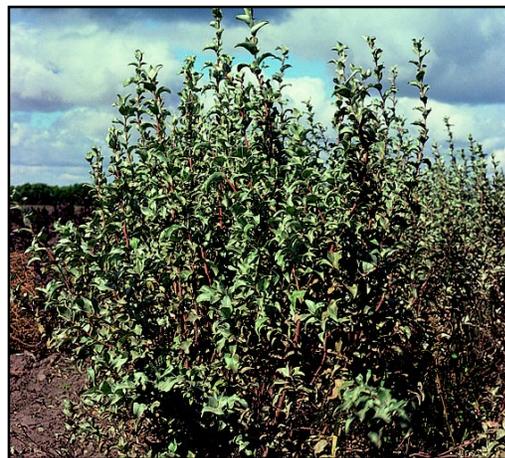
(*Amelanchier alnifolia*)

20 Year Height: 10 feet
Growth Rate: moderate
Growth Habit: upright
Drought Resistance: good
Wildlife Value: high quality cover and food
Flowers: white
Other: nutritious fruit used fresh, frozen or processed

Silverberry

(*Eleagnus commutata*)

20 Year Height: 6 feet
Growth Rate: moderate
Growth Habit: narrow, upright, suckers profusely
Drought Resistance: good
Wildlife Value: dense thickets and food source
Pests: subject to damage by rabbits
Disease: branch cankers
Other: silver-white leaves



Sumac, Skunkbush

(*Rhus trilobata*)

20 Year Height: 8 feet
Growth Rate: slow
Growth Habit: ascending, new branchlets hairy
Drought Resistance: excellent
Wildlife Value: fall and winter food for birds
Flowers: light yellow
Other: scented leaves

Crabapple, Siberian

(*Malus baccata*)

20 Year Height: 15 feet

Growth Rate: moderate

Growth Habit: round to spreading

Drought Resistance: good

Wildlife Value: fair cover, good fruit and browse

Flowers: white

Pests: cankerworm, apple maggot

Disease: fireblight, cedar-apple rust, apple scab, canker

Other: needs a well-drained, moist soil; should be protected from girdling or browsing; should not be planted near juniper, cedar or cotoneaster



Hawthorn, Arnold

(*Crataegus arnoldiana*)

20 Year Height: 16 feet

Growth Rate: moderate

Growth Habit: upright to horizontal, symmetrical

Drought Resistance: good

Wildlife Value: nesting, food and browse

Flowers: white with a disagreeable odor

Pests: rust, aphid

Other: tolerates urban pollution, large thorns

Maple, Amur

(*Acer ginnala*)

20 Year Height: 15 feet

Growth Rate: moderate

Growth Habit: multi-stemmed

Drought Resistance: good

Wildlife Value: browse, fair cover:

Other: adaptable to a variety of soils, except alkaline, sensitive to phenoxy herbicides, outstanding bright reddish fall colors



Olive, Russian

(*Elaeagnus angustifolia*)

20 Year Height: 17 feet

Growth Rate: rapid

Growth Habit: branches random and spreading

Drought Resistance: excellent

Wildlife Value: excellent

Disease: branch and stem cankers

Other: tolerates saline/alkaline soils, may invade unmanaged bottomlands and moist pastures, thorny, silver leaf color; not to be planted in riparian areas

Ash, Green

(*Fraxinus pennsylvanica*)

20 Year Height: 18 feet

Growth Rate: moderate

Growth Habit: single trunk, oval to elliptical crown

Drought Resistance: good

Wildlife Value: nesting site

Pests: cankerworms, ash borers, ash plant bugs

Disease: stem decay, branch and twig cankers, anthracnose, leaf rust, ash yellows

Other: can withstand flooding for short periods of time



Cottonwood, Plains

(*Populus deltoids*)

20 Year Height: 45 feet

Growth Rate: rapid

Growth Habit: upright, branches spread to form a large open crown

Drought Resistance: fair

Wildlife Value: browse

Pests: pahids, gall mite, leaf beetles

Disease: leaf rust, leaf spot and canker, wetworm, stem decay

Other: requires a moist site

Elm, Siberian

(*Ulmus pumila*)

20 Year Height: 25 feet

Growth Rate: rapid

Growth Habit: open with several ascending branches

Drought Resistance: good

Wildlife Value: nesting sites

Pests: cankerworm

Disease: canker, wetworm

Other: highly sensitive to phenoxy herbicides, brittle wood which is subject to breakage



Hackberry, Common

(*Celtis occidentalis*)

20 Year Height: 15 feet

Growth Rate: moderate

Growth Habit: single trunk, broadening crown

Drought Resistance: good

Wildlife Value: fruit for birds and mammals

Pests: commonly damaged by browsing rodents, rabbits and deer

Other: good replacement for the elm because of its similar form and adaptability, somewhat tolerant to alkaline soils

Honeylocust

(*Gleditsia triacanthos*)

20 Year Height: 20 feet

Growth Rate: moderate

Growth Habit: develops a deep tap root system

Drought Resistance: good

Wildlife Value: food and nesting sites for birds

Disease: relatively disease free but can develop a canker

Other: thorns present, leaves fine, legume



Oak, Bur

(*Quercus macrocarpa*)

20 Year Height: 18 feet

Growth Rate: moderate

Growth Habit: stout branches, informal spreading to rounded

Drought Resistance: good

Wildlife Value: excellent food and cover

Pests: commonly damaged by rodents, rabbits and deer

Disease: leaf and twig anthracnose, leaf curl, stem decay

Other: long lived tree with deep taproot

Poplar, White

(*Populus alba*)

20 Year Height: 25 feet

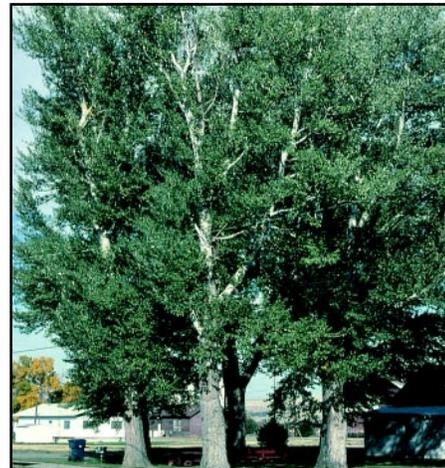
Growth Rate: rapid

Growth Habit: upright with strong spreading branches

Drought Resistance: good

Wildlife Value: browse, fair nesting

Other: numerous root sprouts



Willow, Golden

(*Salix alba*)

20 Year Height: 25 feet

Growth Rate: rapid

Growth Habit: large, spreading crown

Drought Resistance: fair

Wildlife Value: provides cover, browse

Pests: aphids

Other: branches shed easily

Fir, Douglas

(Pseudotsuga menziesii)

- 20 Year Height:** 15 feet
- Growth Rate:** moderate
- Growth Habit:** open pyramidal
- Drought Resistance:** fair
- Wildlife Value:** good nesting sites for birds
- Pests:** Douglas fir beetle, deer browse and rubbing
- Disease:** heartwood decay
- Other:** tolerates alkali soils



Juniper, Rocky Mountain

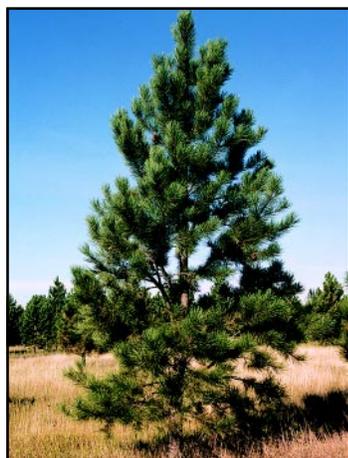
(Juniperus scopulorum)

- 20 Year Height:** 12 feet
- Growth Rate:** moderate
- Growth Habit:** dense pyramidal, upward reaching branches
- Drought Resistance:** excellent
- Wildlife Value:** excellent food, nesting, cover
- Pests:** spider mites
- Disease:** cedar-apple rust, tip blight
- Other:** should not be planted near crabapples, juneberries, currants or hawthorns

Pine, Limber

(Pinus flexilis)

- 20 Year Height:** 10 feet
- Growth Rate:** slow
- Growth Habit:** open crown
- Drought Resistance:** good
- Wildlife Value:** good nesting for birds
- Pests:** blister rust
- Other:** pitchy cones



Pine, Ponderosa

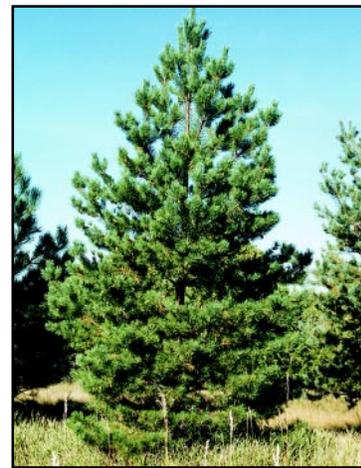
(Pinus ponderosa)

- 20 Year Height:** 17 feet
- Growth Rate:** moderate
- Growth Habit:** pyramidal when young
- Drought Resistance:** good
- Wildlife Value:** food and nesting for birds
- Pests:** tip moth, sawfly, pine needle scale, aphids
- Disease:** needle cast, gall rust
- Other:** tolerates saline and alkaline soils

Pine, Scotch

(*Pinus sylvestrus*)

20 Year Height: 17 feet
Growth Rate: moderate
Growth Habit: rounded and open
Drought Resistance: good
Wildlife Value: nesting and winter cover
Pests: tip moth, sawfly, pine needle scale, aphids
Disease: needle cast, gall rust
Other: prefers moist well-drained soils



Redcedar, Eastern

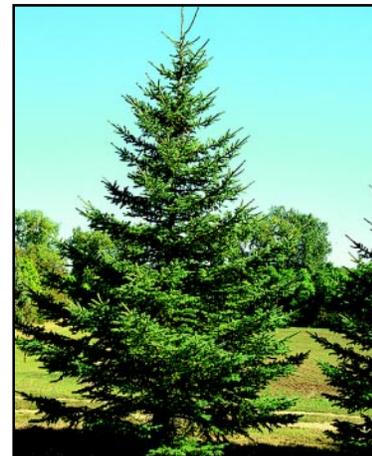
(*Juniperus virginiana*)

20 Year Height: 10 feet
Growth Rate: moderate
Growth Habit: dense pyramidal
Drought Resistance: good
Wildlife Value: excellent food, nesting and cover
Pests: spider mites
Disease: cedar-apple rust, tip blight
Other: should not be planted near crabapples, juneberries, or hawthorns

Spruce, Black Hills

(*Picea glauca*)

20 Year Height: 12 feet
Growth Rate: slow
Growth Habit: broad pyramidal to conical crown
Drought Resistance: good
Wildlife Value: nesting, browse, good cover
Pests: spider mite, spruce needle miner, pine needle scale, yellow-headed spruce sawfly, aphids
Disease: needle blight
Other: grows best on moist loams



Spruce, Colorado Blue

(*Picea pungens*)

20 Year Height: 15 feet
Growth Rate: moderate
Growth Habit: branching is broad and dense, branches extending to ground
Drought Resistance: good
Wildlife Value: nesting site
Pests: spider mites, spruce needle miner, pine needle scale, yellow-headed spruce sawfly, aphids
Disease: needle cast, canker, needle blight
Other: performs best on moist, well-drained loams

This publication was completed by the Custer County Soil Conservation District in cooperation with the USDA Natural Resources Conservation Service and funding from the Montana Department of Natural Resources and Conservation.



Contact your local soil conservation district office for assistance in designing your tree planting.

Photos courtesy of:

Towner Nursery

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Lincoln-Oakes Nursery

ND Tree Handbook

Adams County Soil Conservation District

Bridger Plant Materials Center

