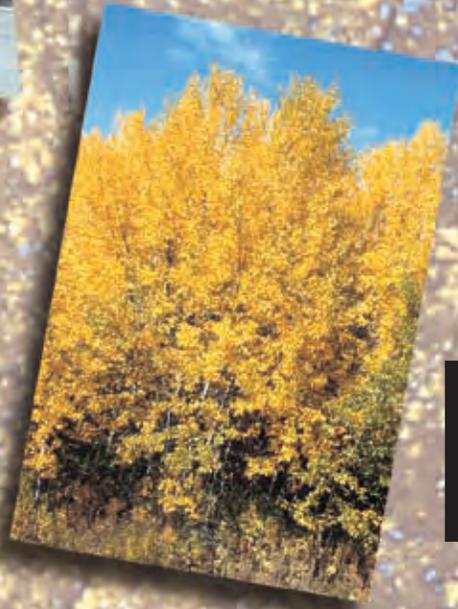


*Conservation
Trees and
Shrubs
for*
MONTANA



	<i>Hardiness Zone</i>	<i>20-year Height (ft.)</i>	<i>Actual Crown Width (ft.)</i>	<i>Growth Rate</i>	<i>Drought Tolerance Min. Prec. (in.)</i>	<i>Saline/Alkali Soils Tolerance</i>	<i>Nesting</i>	<i>Food</i>	<i>Cover</i>	<i>Browse</i>	<i>Wildlife Rating Birds</i>	<i>Wildlife Rating Mammals</i>
Deciduous Shrubs												
Almond, Russian	2	4	6	M	G-12	F	E	E	F	F		
Buffaloberry, Silver	2	10	7	M	E-8	E	E	E	E	E		
Caragana	2	12	12	R	E-8	G	E	F	F	P		
Cherry, Nanking	2	7	8	M	G-10	F	E	E	F	E		
Chokeberry, Black	3	6	5	M	F-14	F	G	E	G	G		
Chokecherry, Common	2	10	9	M	G-10	F	E	E	E	F		
Cotoneaster, Centennial	3	10	4	M	G-10	F	E	E	F	P		
Currant, Golden	2	6	5	M	G-11	F	G	G	F	G		
Dogwood, Redosier	2	7	6	R	P-18	P	E	F	E	G		
Honeysuckle, Blueleaf	2	8	8	M	G-12	F	E	E	G	P		
Lilac, Common	2	6	7	M	E-9	F	E	P	E	P		
Mahogany, Curl-Leaf Mountain	4	9	7	M	G-12	F	G	G	E	E		
Ninebark	2	8	6	M	F-14	F	G	G	G	F		
Plum, American	3	10	9	M	G-10	F	E	G	G	E		
Potentilla	2	3	4	M	G-11	G	G	F	G	F		
Rose, Woods	2	6	6	M	F-14	P	E	E	E	E		
Sagebrush, Silver	2	4	5	M	G-10	G	G	F	P	G		
Sandcherry, Western	3	4	6	M	G-10	F	G	E	F	F		
Serviceberry, Saskatoon	2	10	8	M	G-12	F	G	E	G	G		
Silverberry	2	6	6	M	G-12	F	G	G	F	F		
Sumac, Skunkbush	3	8	5	S	E-8	F	E	F	E	G		
Snowberry, Common and Western	3	3	5	M	G-12	F	F	G	P	F		
Willow, Sandbar	3	10	5	R	P-15	F	G	F	G	G		
Small Deciduous Trees												
Buckeye, Ohio	3	20	15	M	F-15	F	F	P	F	F		
Cherry, Black	3	16	10	M	G-12	F	F	G	F	F		
Crabapple, Siberian	2	15	14	M	G-12	F	F	G	F	F		
Hawthorn, Arnold	3	16	12	M	G-12	F	E	G	G	F		
Hawthorn, Black	4	16	12	M	F-15	F	E	E	E	F		
Maple, Amur	2	15	10	M	G-12	P	F	P	F	F		
Pear, Ussurian	3	20	18	M	F-14	P	G	G	G	G		

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

Medium/Tall Deciduous Trees

	Hardiness Zone	20-year Height (ft.)	Actual Crown Width (ft.)	Growth Rate	Drought Tolerance Min. Prec. (in.)	Saline/Alkali Soils Tolerance	Nesting	Food	Wildlife Rating Birds	Wildlife Rating Mammals
Ash, Green	2	18	11	M	G-10	F	G	F	F	G
Aspen, Quaking	1	25	8	R	P-15	P	G	P	G	F
Boxelder	2	18	12	M	G-11	F	G	G	F	G
Cottonwood, Black	2	45	25	R	P-16	F	F	P	P	F
Cottonwood, Narrowleaf	3	45	25	R	P-16	F	F	P	P	F
Cottonwood, Plains	3	40	25	R	P-16	F	F	P	P	F
Elm, Siberian	3	25	19	R	G-12	G	F	F	P	P
Hackberry, Common	2	15	10	M	G-12	F	F	F	F	F
Honeylocust	4	20	11	M	G-12	F	F	F	P	P
Linden, American	2	25	20	M	P-16	F	F	G	F	F
Locust, Black	3	25	15	R	G-12	F	G	G	F	F
Oak, Bur	2	18	15	M	G-10	F	F	G	F	G
Poplar, White	3	25	19	R	G-12	F	F	P	P	F
Walnut, Black	4	16	14	M	F-14	F	G	G	F	F
Willow, Golden	2	25	13	R	F-13	F	F	F	F	F

Conifers

Fir, Douglas	3	15	10	M	F-13	P	G	F	P	P
Juniper, Rocky Mtn.	3	12	9	M	E-8	F	G	G	G	E
Larch, Siberian	2	16	9	M	G-12	F	G	F	F	F
Pine, Austrian	4	17	12	M	G-12	F	G	F	F	P
Pine, Limber	3	10	9	S	G-10	P	G	F	F	P
Pine, Lodgepole	2	17	11	M	F-14	F	G	P	F	P
Pine, Ponderosa	3	17	12	M	G-10	F	G	F	F	P
Pine, Scotch	3	17	12	M	G-10	P	P	G	P	P
Redcedar, Eastern	2	10	9	M	G-10	F	G	G	G	E
Spruce, Black Hills	2	12	9	S	G-10	F	E	F	P	P
Spruce, Colorado Blue	2	15	10	M	G-10	P	E	F	P	P
Spruce, Engelmann	2	14	10	S	F-15	P	E	F	G	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

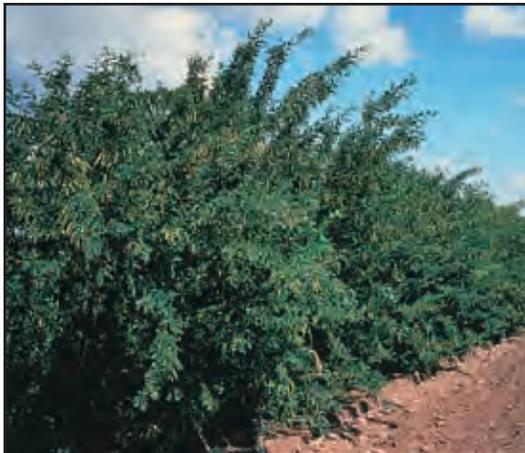
Growth Habit: loosely branched thorny shrub

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, moderately 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; excellent for windbreaks

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



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Chokeberry, Black

(*Aronia melanocarpa*)

20 Year Height: 6 feet

Growth Rate: moderate

Growth Habit: medium size, multi-stemmed shrub, shiny green foliage

Drought Resistance: fair

Wildlife Value: excellent for food for birds, pollinator friendly

Flowers: white followed by persistent black fruit

Soils: adaptable to varying soil conditions

Other: tolerates low, wet areas

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

Other: purple leaf varieties available, adapted to wide variety of soils, fruits for jellies



Cotoneaster, Centennial

(*Cotoneaster integerrimus*)

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 and 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, good songbird nesting

Flowers: white to purple, fragrant and showy

Pests: lilac borer

Disease: powdery mildew

Mahogany, Curl-Leaf Mountain

(*Cercocarpus ledifolius*)

20 Year Height: 9 feet

Growth Rate: moderate

Growth Habit: shiny deep green narrow foliage with grey bark

Drought Resistance: good

Wildlife Value: good food source and cover

Soils: very tolerate of limy and shallow soils

Other: very sun and heat tolerant, can grow on limestone rock outcrop





Ninebark

(*Physocarpus malvaceus*)

20 Year Height: 8 feet

Growth Rate: moderate

Growth Habit: coarse

Drought Resistance: fair

Wildlife Value: good cover and food; pollinator friendly

Flowers: white

Soils: handles a variety of soil types

Other: layered, peeling bark on upright stem

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



Potentilla

(*Dasiphora floribunda*)

20 Year Height: 3 feet

Growth Rate: moderate

Growth Habit: hardy and flowers throughout most of the season

Drought Resistance: good

Wildlife Value: good nesting source, pollinator friendly

Soils: adaptable to soils with high pH

Other: popular for its floral display, many cultivated varieties available

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





Sagebrush, Silver

(*Artemisia cana*)

20 Year Height: 4 feet

Growth Rate: moderate

Growth Habit: low growing and spreading

Drought Resistance: excellent

Wildlife Value: good nesting and browse

Flowers: small yellow

Other: good tolerance of alkali soils

Sandcherry, Western

(*Prunus besseyi*)

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

(*Elaeagnus 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, excellent erosion control





Snowberry, Common and Western

(*Symphoricarpos spp.*)

20 Year Height: 4 feet

Growth Rate: moderate

Growth Habit: oval to round, suckering

Drought Resistance: good

Wildlife Value: nesting and thermal cover

Flowers: light pink

Other: very hardy, excellent for erosion control, fruit bright white

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, prefers well drained soils



Willow, Sandbar

(*Salix exigua*)

20 Year Height: 10 feet

Growth Rate: rapid

Growth Habit: upright, vigorous suckering

Drought Resistance: poor

Wildlife Value: excellent for riparian habitat improvement

Pests: leaf beetles

Other: aggressive suckering provides excellent streambank stabilization



Buckeye, Ohio

(*Aesculus glabra*)

20 Year Height: 20 feet

Growth Rate: moderate

Growth Habit: small tree with oval to rounded crown

Drought Resistance: poor

Wildlife Value: nuts are eaten by squirrels

Flowers: terminal candle-like flowers

Pests: susceptible to leaf scorch

Other: prefers full sun, dark brown glossy fruit with light brown ovule or buckeye

Cherry, Black

(*Prunus serotina*)

20 Year Height: 16 feet

Growth Rate: moderate

Growth Habit: small single stem tree with ovoid shape crown

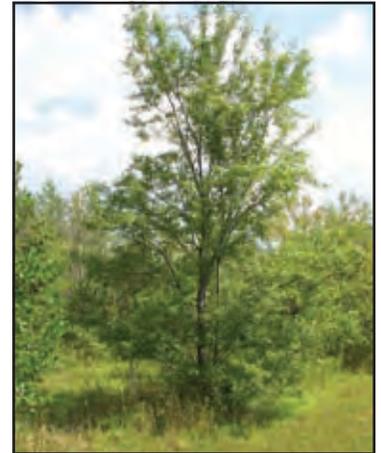
Drought Resistance: good

Wildlife Value: good food source for birds

Pests: tent caterpillar

Disease: black knot

Other: wood is used for furniture, grasshoppers find leaves unpalatable



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

Pests: rust, aphid

Flowers: white with a disagreeable odor

Other: tolerates urban pollution, large thorns, bright orange-red fruit





Hawthorn, Black

(*Crataegus douglasii*)

20 Year Height: 16 feet

Growth Rate: moderate

Growth Habit: small tree with thorny branches, produces black berries

Drought Resistance: fair

Wildlife Value: excellent nesting and food for birds,
excellent cover for mammals

Disease: susceptible to cedar-apple, rusts - causing some disfiguration
of the leaves but does not limit its usefulness

Other: native to Montana

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



Pear, Ussurian

(*Pyrus ussuriensis*)

20 Year Height: 20 feet

Growth Rate: moderate

Growth Habit: white flowers, semi-glossy foliage and dense rounded
crown, often branching low to the ground

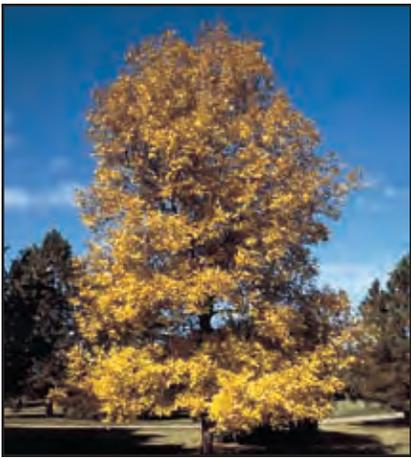
Drought Resistance: fair

Wildlife Value: pollinator friendly, good nesting and cover

Pests: rabbit girdling and deer browsing

Soils: does not tolerate saline soils

Other: produces small hard fruit that may be used for jams and jellies



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

Aspen, Quaking

(*Populus tremuloides*)

20 Year Height: 25 feet

Growth Rate: rapid

Growth Habit: upright with sparse crown

Drought Resistance: fair

Wildlife Value: browse, nesting and thermal cover

Disease: leaf spot, wetwood, stem canker and decay

Other: numerous root sprouts, preferred browse



Boxelder

(*Acer negundo*)

20 Year Height: 18 feet

Growth Rate: moderate

Growth Habit: trunk commonly divides into several wide spreading branches forming an irregular crown

Drought Resistance: good

Wildlife Value: good food for birds, older trees provide good dens

Pests: boxelder bugs are a nuisance to people

Disease: stem decay

Other: sap used to make syrup, highly sensitive to phenoxy herbicides

Cottonwood, Black

(*Populus trichocarpa*)

20 Year Height: 45 feet

Growth Rate: rapid

Growth Habit: large tree with heavy limbs

Drought Resistance: poor

Wildlife Value: excellent perch and den tree

Pests: can be messy during seed dispersion

Soils: requires moist site with seasonal water table

Disease: cankers

Other: native along small streams and larger streams west of the continental divide





Cottonwood, Narrowleaf

(*Populus angustifolia*)

20 Year Height: 45 feet

Growth Rate: rapid

Growth Habit: large tree with heavy limbs and narrow leaves

Drought Resistance: poor

Wildlife Value: excellent perch, den and nest tree

Pests: can be messy during seed dispersion

Disease: cankers

Other: native along mountainous streams east of continental divide

Cottonwood, Plains

(*Populus deltoides*)

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: aphids, gall mite, leaf beetles

Disease: leaf rust, leaf spot and canker, wetwood, 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, wetwood

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, fine leaves, legume

Linden, American

(*Tilia americana*)

20 Year Height: 25 feet

Growth Rate: moderate

Growth Habit: large stature, aromatic flowers, provides shade

Drought Resistance: poor

Wildlife Value: good den tree, pea-sized fruit is good for birds

Soils: deep, fertile, well-drained loam and clay soils

Other: can tolerate flooding



Locust, Black

(*Robinia pseudoacacia*)

20 Year Height: 25 feet

Growth Rate: rapid

Growth Habit: tall, single stemmed tree, form is upright oval that becomes irregular with age

Drought Resistance: good

Wildlife Value: good pollinator, seed pods provide food for birds

Disease: susceptible to borer damage

Other: used in reclamation plantings, nitrogen fixing plant from the legume family; tolerates dry infertile soils

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

Walnut, Black

(*Juglans nigra*)

20 Year Height: 16 feet

Growth Rate: moderate

Growth Habit: medium size tree with large rounded and somewhat open crown

Drought Resistance: fair

Wildlife Value: good food for mammals, good nesting for birds

Soils: prefers moist well-drained soils, sensitive to soil conditions

Other: heartwood is used for veneer and furniture, select hardy seed sources, produces edible nuts



Willow, Golden

(*Salix alba*)

20 Year Height: 25 feet

Growth Rate: rapid

Growth Habit: large, spreading to round crown

Drought Resistance: fair

Wildlife Value: provides cover, browse

Pests: aphids, stem rot

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, spider budworm

Disease: heartwood decay

Other: tolerates high pH

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, and cover

Pests: spider mites

Disease: cedar-apple rust, tip blight

Other: should not be planted near crabapples, juneberries, currants or hawthorns



Larch, Siberian

(*Larix sibirica*)

20 Year Height: 16 feet

Growth Rate: moderate

Growth Habit: large pyramidal deciduous conifer with spreading horizontal branches

Drought Resistance: good

Wildlife Value: good nesting for birds

Other: cold hardy tree, needles turn attractive yellow and are shed each year

Pine, Austrian

(*Pinus nigra*)

20 Year Height: 17 feet

Growth Rate: moderate

Growth Habit: pyramidal shape, mid-length needles, dense

Drought Resistance: good

Wildlife Value: good nesting for birds, provides cover for mammals

Disease: susceptible to needle blight

Soils: very adaptable to many soil types from heavy clay to sandy soils

Other: can handle smog





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, large seeds preferred by birds

Pine, Lodgepole

(*Pinus contorta*)

20 Year Height: 17 feet

Growth Rate: moderate

Growth Habit: lightly branched, upright

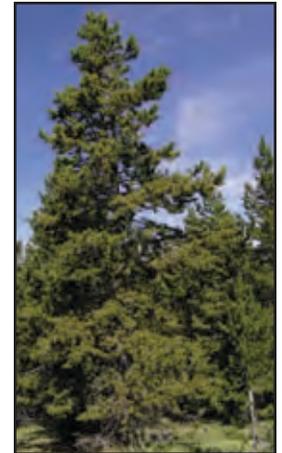
Drought Resistance: fair

Wildlife Value: nesting and thermal cover

Disease: dwarf mistletoe

Pests: pine beetle

Other: grows best on moist loams



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, pine beetle

Disease: needle cast, gall rust

Other: tolerates slightly saline and alkaline soils

Pine, Scotch

(*Pinus sylvestris*)

20 Year Height: 17 feet

Growth Rate: moderate

Growth Habit: rounded and open

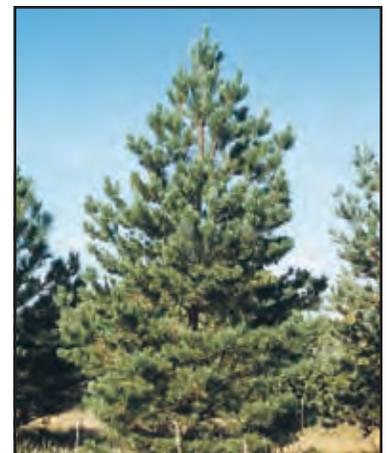
Drought Resistance: good

Wildlife Value: nesting and winter cover

Pests: tip moth, sawfly, pine needle scale, aphids

Disease: needle cast, gall rust, pine beetle

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 densata*)

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

Spruce, Engelmann

(*Picea engelmannii*)

20 Year Height: 14 feet

Growth Rate: slow

Growth Habit: dense pyramidal form with light bluish needles

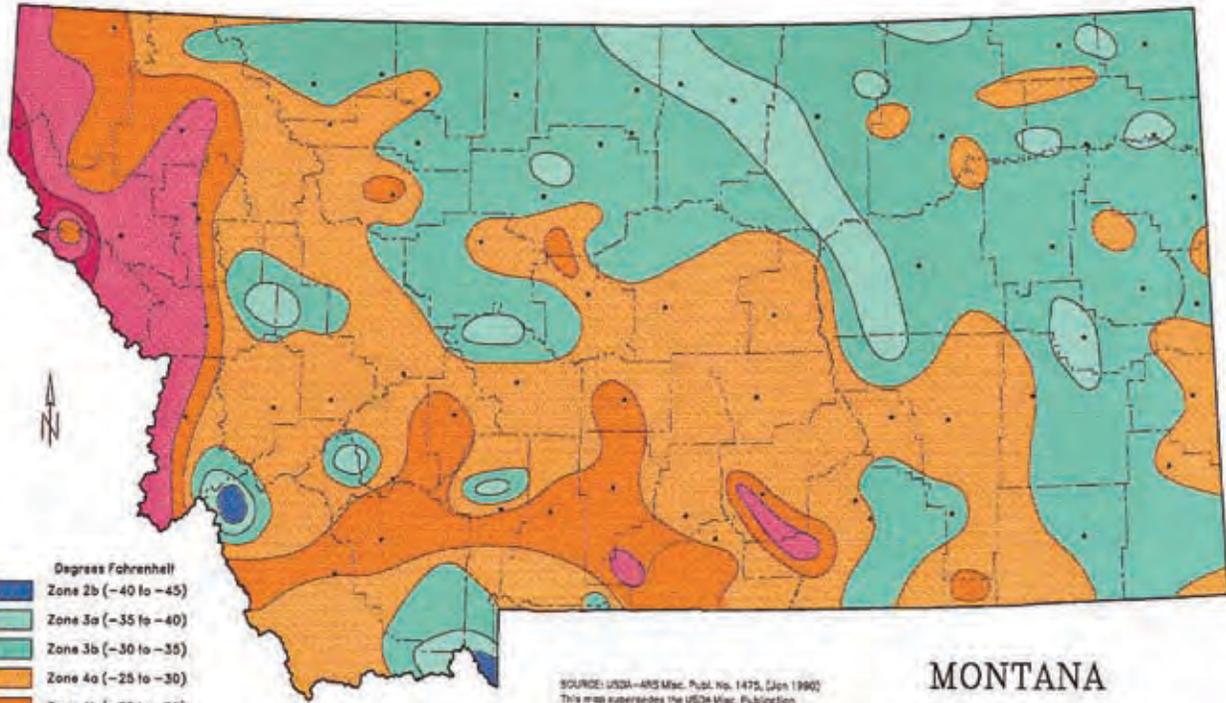
Drought Resistance: fair

Wildlife Value: excellent nesting for birds

Soils: can tolerate wet sites

Other: can tolerate cold frost pockets





- Degrees Fahrenheit
- Zone 2b (-40 to -45)
 - Zone 3a (-35 to -40)
 - Zone 3b (-30 to -35)
 - Zone 4a (-25 to -30)
 - Zone 4b (-20 to -25)
 - Zone 5a (-15 to -20)
 - Zone 5b (-10 to -15)
- * NRCS Field Offices



SOURCE: USDA-ARS Misc. Publ. No. 1475, (Jan 1990)
 This map supersedes the USDA Misc. Publication
 814, "Plant Hardiness Zone Map," revised in 1965.
 It shows in detail the lowest temperatures that
 can be expected each year. These temperatures
 are referred to as "average annual minimum tem-
 peratures" and are based on the lowest tempera-
 tures recorded in each year from 1974 to 1988.

MONTANA
 USDA AGRICULTURAL RESEARCH SVC.
 PLANT HARDINESS ZONES

NRCS STATE OFFICE, BOZEMAN, MT. DRASS/IMP/SEN A.1 /int.plant.hard

JUNE 1995

Photo Credits

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- Forest plants of the southeast and their wildlife uses. University of Georgia Press, Athens.
- Silver sage - Gary A. Monroe @ USDA-NRCS PLANTS Database

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Contact your local NRCS and Conservation District office for assistance in designing your conservation tree planting and ordering seedlings.



Photos courtesy of:

Towner Nursery

ND Forest Service

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ND Tree Handbook

Adams County Soil
Conservation District

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