

CDOT Recommended Landscape Tree Species List

Type	Group	Family (common)	Family	Genus/Species	Common	Variety	Ranking	Colorado Native	Colorado Native (code)	Height (ft.)
Tree	Narrowleaved Evergreen	Juniper	Cupressaceae	<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	Grey Gleam	16	N	1	15
Tree	Narrowleaved Evergreen	Juniper	Cupressaceae	<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	Wichita Blue	16	N	1	12
Tree	Narrowleaved Evergreen	Juniper	Cupressaceae	<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	Pathfinder	16	N	1	12
Tree	Narrowleaved Evergreen	Juniper	Cupressaceae	<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	Cologreen	16	N	1	15
Tree	Narrowleaved Evergreen	Juniper	Cupressaceae	<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	Moonglow	16	N	1	15
Tree	Narrowleaved Evergreen	Pine	Pinaceae	<i>Pinus ponderosa</i>	Ponderosa Pine	VNS	15	N	1	100
Shrub	Narrowleaved Deciduous	Mountain Mahogany	Rosaceae	<i>Cercocarpus ledifolius</i>	Curl Leaf Mountain Mahogany	VNS	14	N	1	20
Shrub	Narrowleaved Deciduous	Mountain Mahogany	Rosaceae	<i>Cercocarpus montanus</i>	Alderleaf Mountain Mahogany	Montane	13	N	1	12
Tree	Narrowleaved Evergreen	Pine	Pinaceae	<i>Pinus edulis</i>	Pinyon pine	VNS	13	N	1	50
Tree	Narrowleaved Evergreen	Pine	Pinaceae	<i>Pinus heldreichii</i>	Bosnian Pine	VNS	13	I	0	20
Tree	Narrowleaved Evergreen	Pine	Pinaceae	<i>Pinus mugo</i>	Mugo pine	Mugo pine	13	I	0	10
Shrub	Broadleaved Deciduous	Lilac	Oleaceae	<i>Syringa reticulata</i>	Japanese Tree Lilac	VNS	13	I	0	10
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea glauca</i>	White Spruce	Densata	12	I	0	100
Shrub	Narrowleaved Deciduous	Hackberry	Ulmaceae	<i>Celtis occidentalis</i>	Commom Hackberry	Oahe	10	N	1	50
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Broom	10	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Globe	10	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Mesa Verde	10	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	St Mary's	10	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Walbrunn	10	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Fat Albert	10	N	0	40
Tree	Broadleaved Deciduous	Oak	Fagaceae	<i>Quercus rubra</i>	Red Oak	VNS	10	I	0	80
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Hoopsii	9	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Baby Blue Eyes	9	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Bakeri	9	N	1	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	R.H. Montgomery	9	N	1	99
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Sester Dwarf	9	N	1	99
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea pungens</i>	Colorado Blue Spruce	Iseli Fastigate	9	N	1	99
Tree	Broadleaved Deciduous	Oak	Fagaceae	<i>Quercus macrocarpa</i>	Bur Oak	VNS	9	I	0	50
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea abies</i>	Norway Spruce	Elegans	8	I	0	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea abies</i>	Norway Spruce	Nidiformis	8	I	0	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea abies</i>	Norway Spruce	Pendula	8	I	0	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea abies</i>	Norway Spruce	Cupressina	8	I	0	100
Tree	Narrowleaved Evergreen	Spruce	Pinaceae	<i>Picea engelmannii</i>	Englemann Spruce	VNS	8	N	1	100
Tree	Narrowleaved Evergreen	Fir	Pinaceae	<i>Abies concolor</i>	White Fir	Candicans	7	I	0	100
Tree	Broadleaved Deciduous	Maple	Aceraceae	<i>Acer negundo</i>	Boxelder	Sensation	7	N	1	50
Tree	Broadleaved Deciduous	Goldenraintree	Sapindaceae	<i>Koelreuteria paniculata</i>	Panicled Goldenraintree	VNS	6	I	0	45
Tree	Broadleaved Deciduous	Hornbeam	Betulaceae	<i>Ostrya virginiana</i>	American Hophornbeam	VNS	6	I	0	45
Tree	Broadleaved Deciduous	Pear	Rosaceae	<i>Pyrus calleryana</i>	Callery Pear	Chanticleer	6	I	0	50
Tree	Broadleaved Deciduous	Willow	Salicaceae	<i>Populus angustifolia</i>	Narrowleaf Cottonwood	VNS	4	N	1	65
Tree	Broadleaved Deciduous	Willow	Salicaceae	<i>Populus deltoides</i>	Plains Cottonwood	VNS	4	N	1	85
Tree	Broadleaved Deciduous	Linden	Tiliaceae	<i>Tilia cordata</i>	Littleleaf Linden	VNS	3	I	0	100

Width (ft.)	Full Length Foliage	Full Length Foliage	Crown Shape	Growth Rate	Growth Rate (code)	Water Needs	Water Needs (code)	Sun Exposure	Sun Exposure (code)	Native Colorado Life Zone	Planting Altitude (Min)	Planting Altitude (Max)
6	Yes	1	Conical	S	1	L	1	S	4	Foothills	4500	6500
6	Yes	1	Columnar	S-M	2	L	1	S	4	Foothills	4500	6500
16	Yes	1	Columnar	S-M	2	L	1	S	4	Foothills	4500	6500
8	Yes	1	Columnar	S-M	2	L	1	S	4	Foothills	4500	6500
8	Yes	1	Columnar	S-M	2	L	1	S	4	Foothills	4500	6500
30	No	0	Variable	M	3	L-M	2	S	4	Foothills-Montane	4000	9000
10	Yes	1	Rounded	S	1	L	1	S	4	Foothills-Montane	6500	7500
8	Yes	1	Spreading	S	1	L	1	PS	2	Foothills-Montane	6500	8500
15	No	0	Rounded	S-M	2	L	1	S	4	Plains-Foothills-Upper Sonoran	4000	5500
12	Yes	1	Columnar	S	1	L-M	2	PS-S	3	Plains-Foothills	4000	5500
10	Yes	1	Irregular	M	3	L-M	2	S	4	Plains-Foothills	4500	6000
10	Yes	1	Upright Spreading	F	5	L-M	2	Sh-PS	1	Plains-Foothills	4500	6500
25	Yes	1	Pyramidal	S	1	L	1	PS-S	3	Foothills-Montane	5500	7500
25	No	0	Rounded	F	5	M	4	S	4	Plains-Foothills	5500	7500
4	Yes	1	Conical	S	1	M	4	PS-S	3	Foothills-Montane	5000	10000
4	Yes	1	Conical	S	1	M	4	PS-S	3	Foothills-Montane	5000	10000
40	Yes	1	Conical	S	1	M	4	PS-S	3	Foothills-Montane	5000	10000
40	Yes	1	Conical	S	1	M	4	PS-S	3	Foothills-Montane	5000	10000
4	Yes	1	Conical	S	1	M	4	S	4	Foothills-Montane	5000	10000
20	Yes	1	Pyramidal	S	1	M-H	5	S	4	Foothills-Montane	5000	10000
60	No	0	Spreading	S	1	L	1	S	4	Plains-Foothills	4500	6500
15	Yes	1	Columnar	M	3	M-H	5	S	4	Foothills-Montane	5000	10000
8	Yes	1	Columnar	S	1	M-H	5	S	4	Foothills-Montane	5000	10000
15	Yes	1	Columnar	S	1	M-H	5	S	4	Foothills-Montane	5000	10000
8	Yes	1	Pyramidal	S	1	M-H	5	S	4	Foothills-Montane	5000	10000
5	Yes	1	Conical	S	1	M-H	5	S	4	Foothills-Montane	5000	10000
5	Yes	1	Columnar	S	1	M-H	5	S	4	Foothills-Montane	5000	10000
40	No	0	Spreading	S	1	L	1	S	4	Plains-Foothills	4500	6500
6	Yes	1	Conical	S	1	M	4	PS-S	3	Foothills-Montane	5000	7500
5	Yes	1	Conical	S	1	M	4	PS-S	3	Foothills-Montane	5000	7500
8	Yes	1	Conical	S	1	M	4	PS-S	3	Foothills-Montane	5000	7500
5	Yes	1	Columnar	M-F	4	M-H	5	PS-S	3	Foothills-Montane	5000	7500
35	No	0	Pyramidal	S-M	2	M-H	5	PS-S	3	Foothills-Subalpine	6500	11000
15	Yes	1	Columnar	M	3	M-H	5	PS-S	3	Foothills-Montane	4000	10000
30	No	0	Oval	M	3	H	6	S	4	Plains-Foothills-Upper Sonoran	4500	7500
20	No	0	Spreading	M	3	L	1	S	4	Plains-Foothills	4000	5500
20	No	0	Spreading	m	3	L	1	PS-S	3	Plains	4000	5500
20	No	0	Narrowly Conical	M	3	M	4	S	4	Plains	4000	5500
30	Yes	1	Spreading	M-F	4	H	6	S	4	Foothills-Montane	4000	9500
50	No	0	Upright Spreading	M-F	4	H	6	S	4	Plains-Foothills-Upper Sonoran	4000	7000
40	No	0	Columnar	M	3	M	4	S	4	Plains	5000	6500

Comments and Cultural Hints	Drawbacks	Active Growth Period	C:N Ratio	Fire Resistant	Flower Color	Flower Conspicuous
No fruit; dense, gray foliage.		Spring and Summer	High	No	Yellow	No
Bright blue foliage color.		Spring and Summer	High	No	Yellow	No
Good for screen produces small blue berries.		Spring and Summer	High	No	Yellow	No
Dense, green foliage; abundant fruit.		Spring and Summer	High	No	Yellow	No
Dense, silver-blue foliage.		Spring and Summer	High	No	Yellow	No
Longer yello-green needles in bundles of 5, flexible twigs larger ornamental cones	Less commonly available nurser	Spring and Summer	High	Yes	Yellow	No
Well adapted to low-water landscapes		Spring, Summer, Fall	Medium	No	Yellow	Yes
Grow in average, dry to medium moisture, well-drained soil in full sun. Prefers a sandy clay soil and will tolerate drought once established.		Spring and Summer	Medium	No	White	No
Not suited for frequently watered lawn areas; edible seeds may not develop dependably in urban landscapes.		Spring and Summer	High	No	Yellow	No
Stiff, dark green needles in brush-like tufts.		Spring and Summer		Yes	Yellow	No
Variable growth habit; tree-like to shrubby; dwarf forms commonly sold for landscapes.		Spring and Summer		Yes	Yellow	No
Easily grown in average, medium moisture, well-drained soil in full sun. Tolerates light shade, but best bloom is in full sun. Prefers organically rich, moist, slightly acidic soils with pH 6.0-7.0.		Spring and Summer	High	No	Yellow	No
Excellent species for a windbreak or hedge, native of South Dakota.		Spring and Summer		No	Yellow	No
Performs well on deep fine-textured or moderatly textured soils and under climatic conditons of the Great Plains.		Spring and Summer	High	No	Green	No
Globe-shaped with blue-green needles.		Spring and Summer		No	Yellow	No
Globe-shaped with green needles.		Spring and Summer		No	Yellow	No
Nest-shaped with green needles.		Spring and Summer		No	Yellow	No
Colorado State Tree		Spring and Summer		No	Yellow	No
Nest-shaped with blue green needles.		Spring and Summer		No	Yellow	No
Striking blue needles.		Spring and Summer		No	Purple	No
Easily grown in average, dry to medium moisture, acidic soil in full sun. Prefers fertile, sandy, finely-textured soils with good drainag		Spring and Summer	High	No	Yellow	No
Outstanding blue-needled form with strong central leader.		Spring and Summer		No	Yellow	No
Brilliant blue needles and slightly irregular branching.		Spring and Summer		No	Yellow	No
Intense silver-blue needles.		Spring and Summer		No	Yellow	No
Silver-blue needles on a dense, conical form.		Spring and Summer		No	Yellow	No
Silver-blue needles on a dense, conical form.		Spring and Summer		No	Yellow	No
Striking silver-blue needles.		Spring and Summer		No	Yellow	No
Easily grown in average, dry to medium, well-drained soils in full sun. Prefers moist well-drained loams, but adapts to a wide range of soil conditions. Good drought tolerance. Ma		Spring and Summer	Medium	No	White	Yes
Nest-shaped with short needles.		Spring and Summer		No	Yellow	No
Nest-shaped with short green needles.		Spring and Summer		No	Yellow	No
Weeping habit, short dark green needles.		Spring and Summer		No	Yellow	No
Good vertical acent; withstands snowloads.		Summer		No	Yellow	No
Large densely pyramidal tree with blue-green needles and reddish scaly bark when mature, performs best at high elevatinons	nursery stock	Spring and Summer		No	Yellow	No
Longer, silvery-blue needles		Spring and Summer	High	No	Red	No
Easily grown in average, medium to wet soil in full sun. Tolerates a wide range of soils including poor dry ones. Intolerant of shade.		Spring and Summer	High	No	White	No
Easily grown in average, dry to medium, well-drained soil in full sun. Adapts to a wide range of soils. Tolerates drought and many city air pollutants.		Spring	High	No	Yellow	Yes
Easily grown in average, medium, well-drained soil in full sun to part shade.		Spring and Summer	High	No	Yellow	No
Loves wet waterlogged soils, loves drought, heat, a whole range of conditions. Wonderful display of small white flowers in spring followed by small inconspicuous fruit. The shape		Spring and Summer	Medium	No	White	Yes
Vertical growht habitat, willow like leaves, males do not produce cotton	Suckers heavily, best in natural c	Spring and Summer	Medium	Yes	Blue	No
Fast growing, broad irregular canopy, triangular leaves, males do not produce cottn		Spring and Summer	High	No	Yellow	No
Good tolerance for urban conditions. Tolerant of heavy pruning, and may be grown as a hedge.		Spring and Summer	High	No	Yellow	No

Foliage Color	Foliage Porosity Summer	Foliage Porosity Summer (code)	Foliage Porosity Winter	Foliage Porosity Winter (code)	Foliage Texture	Foliage Texture (code)	Fruit/Seed Color	Fruit/Seed Conspicuous	Growth Form	Growth Rate	Growth Rate (code)	Height at 20 Years, Maximum (feet)	Height, Mature (feet)
Green	Dense	3	Dense	3	Medium	2	Black	No	Single Stem	Slow	1	15	15
Green	Dense	3	Dense	3	Medium	2	Blue	Yes	Stoloniferous	Slow	1	12	12
Green	Dense	3	Dense	3	Medium	2	Blue	Yes	Stoloniferous	Slow	1	12	12
Green	Dense	3	Dense	3	Medium	2	Blue	Yes	Stoloniferous	Slow	1	15	15
Green	Dense	3	Dense	3	Medium	2	Blue	Yes	Stoloniferous	Slow	1	15	15
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Moderate	2	40	100
Green	Dense	3	Porous	1	Coarse	3	Brown	No	Multiple Stem	Moderate	2	20	20
Green	Dense	3	Porous	1	Coarse	3	Brown	No	Multiple Stem	Slow	1	12	12
Green	Moderate	2	Moderate	2	Medium	2	Brown	No	Single Stem	Slow	1	25	50
Dark Green	Dense	3	Dense	3	Coarse	3	Brown	No	Multiple Stem	Slow	1	20	20
Dark Green	Dense	3	Dense	3	Coarse	3	Brown	No	Multiple Stem	Slow	1	10	10
Dark Green	Dense	3	Dense	3	Medium	2	Red	Yes	Single Crown	Slow	1	10	10
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Porous	1	Coarse	3	Purple	No	Single Stem	Rapid	3	25	50
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	15	40
Green	Dense	3	Porous	1	Medium	2	Brown	Yes	Single Stem	Moderate	2	35	80
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Rapid	3	30	99
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Rapid	3	30	99
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Rapid	3	30	99
Green	Dense	3	Moderate	2	Medium	2	Black	Yes	Single Stem	Moderate	2	30	50
Dark Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	35	100
Dark Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	35	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	30	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	30	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Dense	3	Medium	2	Brown	No	Single Stem	Slow	1	20	100
Green	Dense	3	Porous	1	Coarse	3	Brown	Yes	Multiple Stem	Rapid	3	50	50
Green	Moderate	2	Porous	1	Fine	1	Brown	Yes	Single Stem	Slow	1	30	45
Green	Moderate	2	Porous	1	Medium	2	Brown	No	Single Stem	Slow	1	20	45
Green	Dense	3	Moderate	2	Medium	2	Black	Yes	Single Stem	Moderate	2	30	50
Green	Dense	3	Porous	1	Medium	2	White	No	Single Stem	Rapid	3	40	65
Green	Dense	3	Porous	1	Coarse	3	White	Yes	Single Stem	Rapid	3	70	85
Green	Dense	3	Porous	1	Fine	1	Brown	No	Single Stem	Moderate	2	45	100

Known Allelopath	Leaf Retention	Lear Retention (code)	Lifespan	Lirespan (code)	Shape and Orientation	Toxicity	Adapted to Coarse Textured Soils	Adapted to Fine Textured Soils	Adapted to Medium Textured Soils	Anaerobic Tolerance	CaCO3 Tolerance	Cold Stratification Required	Drought Tolerance
No	Yes	1	Long	3	Erect	None	Yes	No	Yes	None	High	Yes	High
No	Yes	1	Long	3	Erect	None	Yes	No	Yes	None	High	Yes	High
No	Yes	1	Long	3	Erect	None	Yes	No	Yes	None	High	Yes	High
No	Yes	1	Long	3	Erect	None	Yes	No	Yes	None	High	Yes	High
No	Yes	1	Long	3	Erect	None	Yes	No	Yes	None	High	Yes	High
No	Yes	1	Long	3	Rounded	None	Yes	No	Yes	None	Low	Yes	High
No	No	0	Long	3	Erect	Slight	Yes	No	Yes	None	High	Yes	High
No	No	0	Long	3	Erect	Moderate	Yes	No	Yes	None	High	Yes	High
Yes	Yes	1	Long	3	Conical	None	Yes	Yes	Yes	None	Low	Yes	High
No	Yes	1	Long	3	Decumbent	None	Yes	No	Yes	None	Medium	No	Low
No	Yes	1	Long	3	Decumbent	None	Yes	No	Yes	None	Medium	No	Low
No	Yes	1	Long	3	Columnar	Severe	Yes	No	Yes	None	Medium	Yes	High
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	No	0	Moderate	2	Erect	None	Yes	Yes	Yes	Medium	Medium	Yes	High
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	Medium	Yes	High
No	No	0	Long	3	Erect	None	Yes	Yes	Yes	None	Low	Yes	Low
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Erect	None	Yes	Yes	Yes	Low	High	Yes	Low
No	Yes	1	Long	3	Erect	None	Yes	Yes	Yes	Low	High	Yes	Low
No	Yes	1	Long	3	Erect	None	Yes	Yes	Yes	Low	High	Yes	Low
No	No	0	Long	3	Erect	Severe	Yes	Yes	Yes	None	Low	Yes	Low
No	Yes	1	Moderate	2	Climbing	None	No	Yes	Yes	None	Low	No	Medium
No	Yes	1	Moderate	2	Climbing	None	No	Yes	Yes	None	Low	No	Medium
No	Yes	1	Long	3	Conical	None	No	Yes	Yes	None	High	No	Low
No	Yes	1	Moderate	2	Conical	None	Yes	Yes	Yes	None	Low	Yes	High
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	High	No	Medium
No	Yes	1	Long	3	Conical	None	Yes	No	Yes	None	Low	Yes	Medium
No	No	0	Short	1	Erect	None	Yes	Yes	Yes	Medium	High	Yes	High
No	No	0	Moderate	2	Erect	None	Yes	Yes	Yes	None	Medium	Yes	Medium
No	No	0	Short	1	Erect	None	Yes	Yes	Yes	None	Medium	Yes	Medium
No	No	0	Long	3	Erect	Severe	Yes	Yes	Yes	None	Low	Yes	Low
No	No	0	Short	1	Rounded	None	Yes	Yes	Yes	Low	High	No	Low
No	No	0	Short	1	Erect	None	Yes	Yes	Yes	Medium	Medium	No	High
No	No	0	Moderate	2	Erect	None	Yes	No	Yes	None	Low	Yes	Medium

Drought Tolerance (code)	Fertility Requirement	Fertility Requirement	Fire Tolerance	Frost Free Days, Minimum	Hedge Tolerance	Moisture Use	Moisture Use (code)	pH, Minimum	pH, Maximum	Precipitation, Minimum	Precipitation, Maximum	Root Depth, Minimum (inches)	Salinity Tolerance
3	Low	1	Low	160	Medium	Low	1	5	8	12	26	20	Low
3	Low	1	Low	120	Medium	Low	1	5	8.5	9	26	20	Low
3	Low	1	Low	120	Medium	Low	1	5	8.5	9	26	20	Low
3	Low	1	Low	120	Medium	Low	1	5	8.5	9	26	20	Low
3	Low	1	Low	120	Medium	Low	1	5	8.5	9	26	20	Low
3	Low	1	High	150	Low	Medium	2	5	9	15	25	20	Medium
3	Low	1	Medium	90	Medium	Low	1	5.5	8.7	10	45	20	None
3	Low	1	Medium	90	Medium	Low	1	6	8	9	40	20	None
3	Medium	2	Low	200	None	Low	1	6.5	8.5	9	27	20	Medium
1	Medium	2	None	90	Medium	Low	1	5.5	8	35	60	16	Medium
1	Medium	2	None	90	Medium	Low	1	5.5	8	35	60	16	Medium
3	Medium	2	Low	100	High	Low	1	5.4	7.3	32	60	16	Low
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
3	Medium	2	Low	120	Medium	Low	1	4.5	8	14	64	36	Low
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
3	Low	1	High	140	None	Low	1	5.7	7.5	30	60	30	None
1	Low	1	High	100	None	Medium	2	4.3	7.3	30	80	36	Medium
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
1	Medium	2	Low	100	Medium	Medium	2	6.2	7.5	18	25	20	None
1	Medium	2	Low	100	Medium	Medium	2	6.2	7.5	18	25	20	None
1	Medium	2	Low	100	Medium	Medium	2	6.2	7.5	18	25	20	None
1	Medium	2	Low	110	High	Medium	2	5	7.5	35	55	30	Low
2	Medium	2	Low	100	High	Medium	2	5	7	24	60	28	Low
2	Medium	2	Low	100	High	Medium	2	5	7	24	60	28	Low
1	Low	1	Low	30	Low	Medium	2	6	8	21	160	20	None
3	High	3	Low	60	Low	Medium	2	4	8.2	7	50	30	Medium
2	Medium	2	Low	120	Low	Medium	2	5.5	7.8	20	45	18	Low
2	Medium	2	Medium	80	Low	Medium	2	5.5	7.8	18	80	40	None
3	Medium	2	Low	100	None	Medium	2	5	7.8	15	75	40	Medium
2	Low	1	Low	110	Low	Medium	2	4.5	8	26	50	16	Low
2	Low	1	Medium	100	None	Low	1	4.2	7.6	18	60	16	None
1	Medium	2	Low	110	High	Medium	2	5	7.5	35	55	30	Low
1	Medium	2	High	70	Low	High	3	4.3	9	7	60	32	Medium
3	Medium	2	Low	90	Low	High	3	5	7	10	35	24	None
2	Medium	2	High	140	Medium	Medium	2	4.8	7.2	30	60	26	None

Salinity Tolerance (code)	Shade Tolerance	Shade Tolerance (code)	Temperature, Minimum (°F)	Bloom Period	Commercial Availability	Fruit/Seed Abundance	Fruit/Seed Period Begin	Fruit/Seed Period End	Fruit/Seed Persistence	Propagated by Bare Root	Propagated by Container
1	Intolerant	0	-38	Early Spring	Routinely Available	High	Fall	Winter	Yes	Yes	Yes
1	Intolerant	0	-38	Early Spring	Routinely Available	High	Fall	Winter	Yes	Yes	Yes
1	Intolerant	0	-38	Early Spring	Routinely Available	High	Fall	Winter	Yes	Yes	Yes
1	Intolerant	0	-38	Early Spring	Routinely Available	High	Fall	Winter	Yes	Yes	Yes
1	Intolerant	0	-38	Early Spring	Routinely Available	High	Fall	Winter	Yes	Yes	Yes
2	Intolerant	0	-36	Mid Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
0	Intermediate	2	-47	Early Spring	Routinely Available	High	Spring	Fall	Yes	Yes	Yes
0	Intermediate	2	-38	Late Spring	Routinely Available	Medium	Summer	Fall	No	Yes	Yes
2	Intolerant	0	-31	Early Summer	Routinely Available	High	Summer	Fall	No	Yes	Yes
2	Intolerant	0	-38		Routinely Available				No	Yes	Yes
2	Intolerant	0	-38	Mid Spring	Routinely Available		Summer	Fall	No	Yes	Yes
1	Tolerant	3	-38	Early Spring	Routinely Available	Low	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Tolerant	3	-43	Mid Spring	Routinely Available	High	Summer	Fall	Yes	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
0	Intolerant	0	-33	Mid Summer	Routinely Available	Low	Summer	Fall	No	Yes	Yes
2	Intermediate	2	-35	Mid Spring	Routinely Available	Medium	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
0	Intolerant	0	-70	Mid Summer	Routinely Available	High	Summer	Fall	No	Yes	Yes
0	Intolerant	0	-70	Mid Summer	Routinely Available	High	Summer	Fall	No	Yes	Yes
0	Intolerant	0	-70	Mid Summer	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intolerant	0	-28	Early Spring	Routinely Available	Medium	Spring	Summer	No	Yes	Yes
1	Intermediate	2	-38	Mid Spring	Routinely Available	Medium	Summer	Fall	No	Yes	Yes
1	Intermediate	2	-38	Mid Spring	Routinely Available	Medium	Summer	Fall	No	Yes	Yes
0	Tolerant	3	-50	Late Spring	Routinely Available	Medium	Summer	Fall	No	Yes	Yes
2	Intermediate	2	-65	Late Spring	Routinely Available	Low	Summer	Summer	No	Yes	Yes
1	Intermediate	2	-38	Late Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
0	Intermediate	2	-38	Late Spring	Routinely Available	Medium	Summer	Fall	No	Yes	Yes
2	Tolerant	3	-46	Early Spring	Routinely Available	High	Summer	Fall	No	Yes	Yes
1	Intolerant	0	-28	Late Spring	Routinely Available	High	Summer	Fall	Yes	Yes	Yes
0	Tolerant	3	-38	Mid Spring	Routinely Available	Low	Summer	Summer	No	Yes	Yes
1	Intolerant	0	-28	Early Spring	Routinely Available	Medium	Spring	Summer	No	Yes	Yes
2	Intolerant	0	-70	Mid Spring	Routinely Available	High	Spring	Summer	No	Yes	Yes
0	Intolerant	0	-43	Mid Spring	Routinely Available	High	Spring	Spring	No	Yes	Yes
0	Intermediate	2	-33	Early Summer	Routinely Available	High	Summer	Fall	No	Yes	Yes

Propagated by Cuttings	Propagated by Seed	Nursery Stock Product	Web Link to Description
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=JUSC2
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=JUSC2
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=JUSC2
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=JUSC2
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=JUSC2
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPO
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=CELE3
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=CEMO2
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIED
Yes	No	Yes	http://www.monrovia.com/plant-catalog/plants/1983/bosnian-pine/
Yes	No	Yes	http://plants.usda.gov/core/profile?symbol=PIMU80
Yes	No	Yes	http://plants.usda.gov/core/profile?symbol=SYRE2
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIGL
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=CEOC
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPU
No	Yes	No	http://plants.usda.gov/core/profile?symbol=PIPU
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=QURU
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	No	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	No	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	Yes	No	http://plants.usda.gov/core/profile?symbol=PIPU
Yes	No	Yes	http://plants.usda.gov/core/profile?symbol=QUMA2
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIAB
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIAB
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIAB
Yes	Yes	No	http://plants.usda.gov/core/profile?symbol=PIAB
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PIEN
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=ABCO
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=ACNE2
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=KOPA
No	Yes	Yes	http://plants.usda.gov/core/profile?symbol=OSV1
Yes	No	Yes	http://plants.usda.gov/core/profile?symbol=PYCA80
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=POAN3
Yes	Yes	Yes	http://plants.usda.gov/core/profile?symbol=PODEM
No	Yes	No	http://plants.usda.gov/core/profile?symbol=TICO2