

## Recommended Planting Species for Jasper Townsite

**Green = Go**

**Red = stop**

**Yellow = Caution**

**White = OK for planting**

**FireSmart Risk Codes** VL = Very Low, L = Low, M = Moderate, H = High, VH = Very High

Most preferred plantings for Jasper are highlighted in green, no highlight or fill is acceptable planting

### Deciduous Trees

SCIENTIFIC NAME	COMMON NAME	Native to region	FireSmart risk	General Max Height	Site conditions	Comments
<b>NATIVE</b>						
<i>Betula occidentalis</i>	River Birch	AB	VL	25m		Tough, smaller, multi-branched
<i>Betula papyrifera</i>	Paper Birch	JNP	VL	30m	Shade intolerant, well drained sandy/silty sites	
<i>Populus balsamifera</i>	Balsam Poplar	JNP	VL	25m	moist sites, open to partial shade	Avoid other poplar varieties- potential for genetic contamination of wild poplars
<i>Populus tremuloides</i>	Trembling Aspen	JNP	VL	30m	dry-moist, sunny sites, open forest	Needs fencing to get established or will be elk-predated

#### Native to Canada

<i>Acer spp</i>	Maple	Canada		30m	moist	Ensure hardy to growing zone
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#### Tree genus's not to be planted in Jasper are highlighted in red

SCIENTIFIC NAME	COMMON NAME	Native to region	FireSmart risk	Comments
<i>Prunus spp.</i>	stone fruit trees (e.g. cherries, plums, apricots, peaches, almonds, pin cherries..)	no	yes	
<i>Sorbus spp.</i>	Rowan, Mountain ash	no	yes	There is a native Mountain Ash shrub that also grows berries, but does not grow to tree size
<i>Malus spp.</i>	Apple and Crabapple spp.	no	yes	
<i>Sambucus spp.</i>	Elderberry, Elder Berry spp.	no	yes	
<i>Crataegus spp.</i>	Hawthorn spp.	no	yes	
<i>Celtis spp.</i>	Hackberry spp.	no	yes	
<i>Pyrus spp.</i>	Pear trees	no	yes	

### Evergreen Trees

*Plant a minimum 10m distance from buildings*

SCIENTIFIC NAME	COMMON NAME	Native to region	FireSmart risk	General Max Height	Site conditions	Comments
<i>Abies balsamea</i>	Balsam fir	AB		25m	moist sites, partial shade	Native to AB, not JNP. Thick foliage, good tree for providing cover, hedge. Should be 10m from buildings
<i>Abies lasiocarpa</i>	Alpine Fir	JNP	H			High elevation spp, similar to Balsam fir. Should be 10m from buildings
<i>Larix laricina</i>	Tamarack	AB		20m	wet sites, with poor drainage	Deciduous conifer, more light in winter, more shade in summer
<i>Picea glauca</i>	White Spruce	JNP	H	40m	moist to wet sites, open or closed forest	Deep roots - caution utilities. Should be 10m from buildings
<i>Pinus albicaulis</i>	Whitebark pine	JNP	H	20m	Slow growing native Alberta pine - endangered spp.	Tends to grow at higher elevations, but likely not limited by elevation. Listed endangered species, difficult to acquire seed or seedlings. Should be rust resistant for planting. Should be 10m from buildings
<i>Pinus banksiana</i>	Jack pine	AB		25m	Native Alberta pine - not native to Jasper	Not local to JNP, but adapted to dry sites and similar climate. Should be 10m from buildings
<i>Pinus contorta latifolia</i>	Lodgepole Pine	JNP	H	30m	dry-moist, sunny sites, open forest	Low cover, but good generalist spp. Should be 10m from buildings
<i>Pinus flexilis</i>	Limber Pine	AB	H	15m	Slow growing native Alberta pine - not native to Jasper	Listed endangered species, difficult to acquire seed or seedlings. Should be rust resistant for planting. Should be 10m from buildings
<i>Pseudotsuga menziesii glauca</i>	Rocky Mt. Douglas Fir	JNP	M	40m	dry-moist, sunny sites, open forest	Preferred conifer spp for replanting in JNP valley bottoms. Should be 10m from buildings
<i>Taxus brevifolia</i>	Western Yew	BC		5-15m	moist, sheltered sites	Small growth form, ideal for sites with limited space
<i>Thuja plicata</i>	Western red cedar	BC		40m	cool, moist, shady sites	Not local to JNP, but long lived and resistant to insect/disease. Should be 10m from buildings
<i>Tsuga heterophylla</i>	Western hemlock	BC		40m	moist sites, shaded to partial shade	Not local to JNP, but long lived and climate hardy. Should be 10m from buildings

## Deciduous Shrubs

SCIENTIFIC NAME	COMMON NAME	Native to region	FireSmart risk	General Max Height	Site conditions	Comments
<i>Alnus crispa</i>	Green alder,	yes	VL			
<i>Alnus tenuifolia</i>	Mountain or River Alder	yes	VL			Prefers moister sites
<i>Betula glandulosa</i>	Bog or Shrub Birch	yes	L			Moist and dry sites, adaptable
<i>Cornus stolonifera</i>	Red Osier Dogwood	yes	L	browse		Prefers moister sites
<i>Elaeagnus commutata</i>	Wolf Willow or Silverberry	yes	L			
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	yes	L			Many cultivars on market
<i>Rosa acicularis (earlier flowering)</i>	Prickly Rose	yes	L			Most commercial shrub roses are non-native varieties
<i>Rosa woodsii (later flowering)</i>	Common Wild Rose	yes	L			
<i>Salix bebbiana</i>	Bebb's Willow	yes	VL	browse		
<i>Salix discolor</i>	Pussy Willow	yes	VL	browse		
<i>Salix glauca</i>	Smooth Willow	yes	VL	browse		
<i>Salix arctica</i>	Arctic willow	yes	VL			
<i>Shepherdia canadensis</i>	Canadian Buffaloberry	yes	L	attractant		
<i>Spiraea betulifolia</i>	Meadowsweet	yes	L			Prefers canopy, not very vigorous
<i>Symphoricarpos albus</i>	Snowberry	yes	L			
<i>Symphoricarpos occidentalis</i>	Buckbrush	yes	L			Good tall groundcover
<i>Syringa vulgaris</i>	Common Lilac	no	L			Many cultivars on the market

## Evergreen Shrubs

<i>Arctostaphylos uva-ursi</i>	Kinnikinnick or Bearberry	yes	xeriscape	minor bear attractant		Good groundcover
<i>Juniperus horizontalis</i>	Creeping Juniper	yes	xeriscape	VH		Not recommended within 10m of flammable structures due to fire hazard. Good for dry and exposed sites.

## Grasses

<i>Agrostis scabra</i>	Ticklegrass	yes				
<i>Agropyron dasystichum</i>	Northern Wheatgrass	yes		M		
<i>Agropyron riparium</i>	Streambank Wheatgrass	yes		M		
<i>Agropyron smithii</i>	Western Wheatgrass	yes		M		
<i>Agropyron subsecundum</i>	Awned Wheatgrass	yes		M		
<i>Agropyron trachycaulum</i>	Slender Wheatgrass	yes		M		
<i>Agropyron violaceum</i>	Broadglumed Wheatgrass	yes		M		
<i>Bromus ciliatus</i>	Fringed Brome	yes		M		
<i>Bromus pumpellianus</i>	Pumpelly brome	Y		M		NB: do not accept related but non-native <i>B. inermis</i> as a substitute
<i>Deschampsia caespitosa</i>	Tufted Hairgrass	Y		M		
<i>Festuca campestris</i>	Foothills Rough Fescue	Y		M		
<i>Festuca hallii</i>	Plains Rough Fescue	Y		M		
<i>Koeleria cristata</i>	June Grass	Y		M		
<i>Poa alpina</i>	Alpine Bluegrass	Y		M		
<i>Poa glauca</i>	glaucous bluegrass	Y		M		
<i>Poa secunda</i>	Sandberg bluegrass	Y		M		
<i>Trisetum spicatum</i>	Spike trisetum	Y		M		

\* All of the above grasses are highly suitable for naturalized or low-use reclamation areas with infrequent or no mowing. Plant with *Oxytropis* or *Astragalus* species. Generally low flammability except when dry. Relatively low risk unless tall grass is adjacent to other flammable materials (eg: conifers, woodpiles, built structures)  
NB: The above native grasses are not suited for high maintenance, regularly-mowed turf.

**Green turf areas should be minimized** in JNP due to elk attraction and **high maintenance** requirements which can lead to **demand for cosmetic herbicide treatments**.

Where high-use public areas require turf, high quality non-native Kentucky Bluegrass/Creeping Red Fescue Mixes similar to the following are acceptable:

60% - 70%	Kentucky Bluegrass selected, elite cultivars	L
20% - 30%	"Boreal" Creeping Red Fescue	L
10% - 15%	Perennial Ryegrass, turf-type cultivars	L

## Wildflowers

SCIENTIFIC NAME	COMMON NAME	Native to region	FireSmart risk	General Max Height	Site conditions / Comments
<i>Achillea millefolium</i>	Common Yarrow	Y		L	Since species invasive, use of non-white cultivars not recommended
<i>Anaphalis margaritacea</i>	Pearly Everlasting	Y		L	
<i>Anemone multifida</i>	Cut-leaved Anemone	Y		L	
<i>Anemone patens</i>	Prairie Crocus	Y		L	
<i>Antennaria parvifolia</i>	Pussy Toes	Y		L	
<i>Aquilegia flavescens</i>	Yellow Columbine	Y		L	
<i>Aquilegia formosa</i>	Crimson Columbine	Y		L	
<i>Arnica fulgens</i>	Shining Arnica	Y		L	
<i>Arnica mollis</i>	Cordilleran Arnica	Y		L	
<i>Artemisia frigida</i>	Pasture Sagewort	Y		L	
<i>Artemisia ludoviciana</i>	Prairie Sagewort	Y		L	
<i>Aster alpinus</i>	Alpine Aster	Y		L	Improved cultivars available
<i>Aster ciliolatus</i>	Lindley's Aster	Y		L	
<i>Aster conspicuus</i>	Showy Aster	Y		L	
<i>Aster laevis</i>	Smoothing Aster	Y		L	
<i>Astragalus alpinus</i>	Alpine milk vetch	Y		L	
<i>Astragalus americanus</i>	American Milk Vetch	Y		L	
<i>Campanula rotundifolia</i>	Blue or Harebell	Y		L	
<i>Castilleja miniata</i>	Red Indian Paintbrush	Y		L	Difficult to grow
<i>Castilleja occidentalis</i>	Yellow Paintbrush	Y		L	Difficult to grow
<i>Cornus canadensis</i>	Bunchberry	Y		L	Likes moist soils rich in humus
<i>Corydalis aurea</i>	Golden Corydalis	Y		L	
<i>Delphinium glaucum</i>	Tall Larkspur	Y		L	Needs staking or protected site
<i>Dodecatheon pulchellum</i>	Shooting Star	Y		L	
<i>Dryas drummondii</i>	Yellow Dryad	Y	ground cover	L	Pioneering species
<i>Dryas octopetala</i>	White Dryad	Y	ground cover	L	Pioneering species
<i>Epilobium angustifolium</i>	Fireweed	Y		L	Spreads through seed & rhizomes
<i>Epilobium latifolium</i>	Broad-leaved Fireweed	Y		L	
<i>Erigeron caespitosus</i>	Tufted Fleabane	Y		L	
<i>Erigeron compositus</i>	Compound Fleabane	Y		L	
<i>Erigeron glabellus</i>	Smooth Fleabane	Y		L	
<i>Fragaria virginiana</i>	Wild Strawberry	Y		L	
<i>Gaillardia aristata</i>	Black-eyed Susan	Y		L	Very showy
<i>Galium boreale</i>	Northern Bedstraw	Y		M	
<i>Geranium richardsonii</i>	Wild White Geranium	Y		L	
<i>Geum triflorum</i>	Old Man's Whiskers	Y		L	Looks good all season long
<i>Heuchera brizoides</i>	Coralbell			L	Many cultivars
<i>Hedysarum alpinum</i>	Alpine Hedysarum	Y		L	
<i>Hedysarum boreale</i>	Northern Hedysarum	Y		L	
<i>Hemerocallis hybrida</i>	Daylily			L	Many cultivars available
<i>Heraclium lanatum</i>	Cow Parsnip	Y		L	Prefers moist, rich soils
<i>Iberis sempervirens</i>	Evergreen Candytuft			L	
<i>Linnaea borealis</i>	Twinflower	Y		L	Low groundcover
<i>Linum lewisii</i>	Wild Blue Flax	Y		L	
<i>Maianthemum canadense</i>	Wild Lily-of-the-Valley	Y		L	
<i>Mentha arvensis</i>	Wild Mint	Y		L	
<i>Monarda fistulosa</i>	Wild Bergamot			L	Native Alberta species; not native to Jasper
<i>Oxytropis cusickii</i>	Alpine loco-weed	Y		L	
<i>Oxytropis deflexia</i>	reflexed loco-weed	Y		L	
<i>Oxytropis monticola</i>	Late Yellow Locoweed	Y		L	
<i>Oxytropis sericea</i>	Early Yellow Locoweed	Y		L	
<i>Oxytropis splendens</i>	Showy Locoweed	Y		L	Beautiful all summer long
<i>Pentstemon procerus</i>	Slender Blue Beardtongue	Y		L	
<i>Phlox paniculata</i>	Garden Phlox			L	Many cultivars, strong scent
<i>Phlox subulata</i>	Creeping Phlox			L	Many cultivars, groundcover
<i>Potentilla gracilis</i>	Graceful Cinquefoil	Y		L	
<i>Senecio canus</i>	Prairie Groundsel	Y		L	
<i>Sisyrinchium montanum</i>	Blue-eyed Grass	Y		L	
<i>Smilacina racemosa</i>	False Solomon's Seal	Y		L	Good groundcover
<i>Smilacina stellata</i>	Star-flowered Solomon's Seal	Y		L	Good groundcover
<i>Solidago canadensis</i>	Canada Goldenrod	Y		M	
<i>Solidago spathulata</i>	Rocky Mountain Goldenrod	Y		M	
<i>Thalictrum venulosum</i>	Veiny Meadow Rue	Y		L	
<i>Viola adunca</i>	Early Blue Violet	Y		L	
<i>Zigadenus elegans</i>	White Camas	Y		L	