

Agroforestry & Woodlot Extension Society

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Recommended Native Pollinator Friendly Plants for the Aspen Parkland Region of Alberta

The table on the following pages provides a list of plants that are native to the Aspen Parkland Region of Alberta and provide high pollen and nectar sources for pollinating insects such as bees, wasps, flies, beetles, ants, butterflies, and moths. This list is by no means exhaustive, and only focuses on some of the more common species. When designing habitat for pollinators, consider the following:

- Choose species that are adapted to your local moisture, soil, and light conditions. Information on where different species like to grow can often be found in plant identification guides, such as Royer and Dickenson, 2007; or Johnson et al., 2009.
- Strive to have at least three species at the peak of their flowering period for every month in the growing season (April is a bonus).
- Choose species with different flower colours and shapes, as different pollinators will be attracted to different flower characteristics. In particular, smaller pollinators such as *Lassioglossum* bees, parasitoid wasps, and hoverflies have relatively short tongues, and thus are only able to access shallower flowers (Figure 1).
- Maximize the morning sun exposure of your habitat by planting shorter species towards the
 south and east. More morning sun means more flowers in your planting, and more hours in the
 day that pollinators can forage.
- **Clump flowering species** together in groups of 3-8 individuals per square meter. This will increase the foraging efficiency of pollinators.
- Increase structural diversity by including taller trees and shrubs (particularly on the north or
 west side), interspersing bunch grasses among the flowering species, and allowing deadfall to
 decay on site. Doing so will provide diverse nesting and overwintering sites for pollinators.
- Connect habitat to existing natural habitat so that pollinators will be able to migrate into your habitat.
- Site within 150m (500') of pollinator dependent crops if you have any and wish to maximize their pollination.
- Bonus: Include a few nitrogen-fixing species in your mix. This will not directly benefit pollinators, but it will improve the nutrient cycling within the habitat.



Figure 1. Lassioglossum bees are able to access shallow flowers such as prickly rose (Rosa acicularis). Photo courtesy: Steve Javorek.

Recommended Native Flowering Species for Pollinators in the Aspen Parkland of Alberta									
Peak Flowering	Species Name	Common Name	Plant Type	Flower Type	Flower Colour	N Fixation			
_	Anemone patens	Prairie Crocus	forb	shallow	pink	none			
April	Shepherdia canadensis	Canada Buffaloberry	shrub	Shallow	yellow	medium			
	Amelanchier alnifolia	Saskatoon	shrub	shallow	white	none			
	Antennaria parvifolia	Small-leaved pussytoes	forb	shallow	white	none			
	Aralia nudicaulis	Wild Sarsaparilla	forb	shallow	white	none			
	Cornus stolonifera	Red Osier Dogwood	shrub	shallow	white	none			
	Disporum trachycarpum	Fairy Bells	forb	deep	white	none			
	Fragaria virginiana	Wild Strawberry	forb	shallow	white	none			
	Geum triflorum	Three-flowered Avens	forb	deep	pink	none			
	Prunus pensylvanica	Pincherry	shrub	shallow	white	none			
May	Prunus virginiana	Western Chokecherry	shrub	shallow	white	none			
,	Ribes lacustre	Bristly Black Currant	shrub	shallow	yellow	none			
	Ribes oxyacanthoides	Wild Gooseberry	shrub	deep	yellow	none			
	Rosa acicularis	Prickly Rose	shrub	shallow	pink	none			
	Salix bebbiana	Beaked Willow	shrub	shallow	yellow	none			
	Sphaeralcea coccinea	Scarlet Mallow	forb	shallow	red	none			
	Thalictrum venulosum	Veiny Meadow Rue	forb	deep	purple	none			
	Thermopsis rhombifolia	Golden Bean	forb	deep	yellow	medium			
	Viola canadensis	Western Canada Violet	forb	shallow	purple	none			
	Actaea arguta	Baneberry	forb	shallow	white	none			
	Anemone canadensis	Canada Anemone	forb	shallow	white	none			
	Astragalus agrestis	Purple Milkvetch	forb	deep	purple	medium			
	Astragalus striatus	Ascending Purple Milkvetch	forb	deep	purple	low			
	Cornus canadensis	Bunchberry	forb	shallow	white	none			
	Elaeagnus commutata	Silverberry/Wolf Willow	shrub	deep	yellow	medium			
	Epilobium ciliatum	Northern Willow-herb	forb	shallow	pink	none			
	Gaillardia aristata	Gaillardia	forb	shallow	yellow	none			
	Galium trifidum	Small Bedstraw	forb	shallow	white	none			
l	Geranium bicknellii	Bicknell's Geranium	forb	shallow	pink	none			
	Geranium richardsonii	Wild White Geranium	forb	shallow	white	none			
	Hedysarum alpinum	American Hedysarum	forb	deep	purple	low			
	Houstonia longifolia	Longleaf Summer Bluet	forb	deep	pink	none			
	Lathyrus ochroleucus	Cream Coloured Vetchling	forb	deep	yellow	low			
June	Lathyrus venosus	Purple Peavine	forb	deep	purple	low			
	Lilium philadelphicum	Western Wood Lily	forb	deep	orange	none			
	Linnaea borealis	Twinflower	forb	deep	pink	none			
	Linum lewisii	Wild Blue Flax	forb	shallow	blue	none			
	Lonicera dioica	Twinning Honeysuckle	forb	deep	red	none			
	Maianthemum canadense	Wild Lily-of-the-Valley	forb	shallow	white	none			
	Penstemon procerus	Slender blue beardtongue	forb	deep	blue	none			
	Pyrola asarifolia	Common Pink Wintergreen	forb	shallow	white	none			
	Rubus idaeus	Wild Red Raspberry	shrub	shallow	white	none			
	Sisyrinchium montanum	Blue-eyed Grass	forb	shallow	blue	none			
	Stachys palustris	Hedge Nettle	forb	deep	purple	none			
	Urtica dioica	Stinging Nettle	forb	shallow	yellow	none			
	Vicia americana	Wild Vetch	forb	deep	purple	low			
	Zizia aptera	Heart-leaved Alexander	forb	shallow	yellow	none			

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	Achillea sibirica	Siberian Yarrow	forb	shallow	white	none			
	Agastache foeniculum	Giant Hyssop	forb	deep	purple	none			
	Agoseris glauca	False Dandelion	forb	shallow	yellow	none			
	Aster ericoides	Many Flowered Aster	forb	shallow	white	none			
	Campanula rotundifolia	Harebell/Bluebell	forb	deep	blue	none			
	Dasiphora fruticosa	Shrubby Cinquefoil	shrub	shallow	yellow	none			
	Epilobium angustifolium	Fireweed	forb	shallow	pink	none			
	Erigeron caespitosus	Tufted Fleabane	forb	shallow	white	none			
	Erigeron glabellus	Smooth Fleabane	forb	shallow	purple	none			
	Erigeron philadelphicus	Philadelphia Fleabane	forb	shallow	white	none			
	Galium boreale	Northern Bedstraw	forb	shallow	white	none			
	Hedysarum boreale	Northern Hedysarum	forb	deep	pink	high			
July	Heuchera richardsonii	Richardson's Alumroot	forb	deep	yellow	none			
	Lysimachia ciliata	Fringed Loosestrife	forb	shallow	yellow	none			
	Mentha arvensis	Wild Mint	forb	shallow	white	none			
	Monarda fistulosa	Wild Bergamont	forb	deep	pink	none			
	Pyrola asarifolia	White Cinquefoil	forb	shallow	white	none			
	Rudbeckia hirta	Black-eyed Susan	forb	shallow	yellow	none			
	Sium suave	Water Parsnip	forb	shallow	white	none			
	Solidago canadensis	Canada Goldenrod	forb	shallow	yellow	none			
	Spiraea alba	Narrow-leaved Meadowsweet	shrub	shallow	white	none			
	Symphoricarpos alba	Snowberry	shrub	deep	pink	none			
	Symphoricarpos occidentalis	Buckbrush/Wolfberry	shrub	deep	pink	none			
	Zigadenus elegans	White Camas	forb	shallow	yellow	none			
August	Achillea millefolium	Yarrow	forb	shallow	white	none			
	Dalea purpurea	Purple Prairie Clover	forb	shallow	pink	low			
	Eurybia conspicua	Showy Aster	forb	shallow	pink	none			
	Helianthus subrhomboideus	Rhombic-leaved Sunflower	forb	shallow	yellow	none			
	Heterotheca villosa	Golden Aster	forb	shallow	yellow	none			
	Liatris ligulistylis	Meadow Blazing Star	forb	shallow	purple	none			
	Solidago missouriensis	Low Goldenrod	forb	shallow	yellow	none			
	Solidago nemoralis	Showy Goldenrod	forb	shallow	yellow	none			
	Solidago rigida	Stiff Goldenrod	forb	shallow	yellow	none			
	Symphyotrichum ciliolatum	Lindley's Aster	forb	shallow	pink	none			
	Symphyotrichum laeve	Smooth Aster	forb	shallow	purple	none			
	Symphyotrichum puniceum	Purple-stemmed Aster	forb	shallow	purple	none			
	Symphyotrichum falcatum	Creeping White Prairie Aster	forb	shallow	white	none			

Useful Resources

Agriculture and Agri-Food Canada, 2014. Native Pollinators and Agriculture in Canada. http://www.fs.fed.us/wildflowers/pollinators/documents/AgCanadaNativePollinators.pdf

Alberta Native Plant Council. http://anpc.ab.ca/

Johnson, D., L. Kershaw, A. MacKinnon, and J. Pojar, 2009. *Plants of the Western Forest: Alberta, Saskatchewan, & Manitoba Boreal and Aspen Parkland.* Lone Pine Publishing: Edmonton AB.

Royer, F., and R. Dickinson. 2007. *Plants of Alberta: Trees, Shrubs, Wildflowers, Ferns, Aquatic Plants, & Grasses*. Lone Pine Publishing: Edmonton AB.

The Xerces Society for Invertebrate Conservation. http://www.xerces.org/

Table content was developed with the help of Mark Wonneck.



For more information on designing pollinator habitat please contact:

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