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# PLANTS

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## VASCULAR PLANT SURVEY OF MEADOW LAKE PROVINCIAL PARK, SK

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Meadow Lake Provincial Park (MLPP) is located in west-central Saskatchewan, approximately 45km northwest of the town of Meadow Lake, on the boundary of the Mid-Boreal Upland and the Boreal Transition Ecoregions. The park is one of the largest protected areas in Saskatchewan and covers approximately 1600 km<sup>2</sup> of land. The park encompasses a mosaic of ecosystems including forest, wetland, aquatic, and disturbed habitats.<sup>1</sup> The forested ecosystems are divided into several subcategories based on the dominant tree species and associated understory.<sup>1</sup> The wetland ecosystems include bogs, fens, swamps, and marshes, which are distributed throughout the park. Lakes, rivers and streams comprise the aquatic category. Naturally occurring fires and human activities cause disturbance within park ecosystems. MLPP is a popular tourist destination in Saskatchewan. As a consequence, campgrounds, roadsides and hiking trails have played a role in the structure and composition of MLPP flora and have generated additional pressure on the park's natural resources.

Basic ecological information regarding MLPP has been available since 1979, but this is the first detailed list of the vascular flora. Because of the

loss of natural habitats in Canada and the need to maintain local and regional diversity as well as preserve existing populations of threatened species, it is important to periodically conduct floristic inventories and to monitor changes in flora. Floristic inventories provide valuable information that can be used to target areas rich in biodiversity. Here we present a list of the vascular plants in MLPP based on a floristic survey designed to investigate species diversity and identify taxonomically rich areas. The survey was not meant to provide a complete list of the flora of Meadow Lake Provincial Park. Plants collected previously in MLPP and housed in the herbarium at the University of Saskatchewan (SASK) have not been included in this list due to the time consuming nature of searching the herbarium for specimens of these plants.

This floristic survey of MLPP was conducted from early June to late August in 2001 at 140 sites located throughout the park. Survey locations were chosen by applying a 1cm<sup>2</sup> grid to a 1:250 000 scale map of Meadow Lake Provincial Park. The grid was numbered from left to right and from top to bottom and the 140 locations were selected randomly using a random number table. Geographic



Positioning System (GPS) coordinates of known points on the map were used to determine the coordinates of each site. Some sites were inaccessible due to large water bodies or lack of trail or road. Where water bodies prevented access, a replacement site was situated as close as possible to the original randomly-chosen site. Where roads or trails were the limiting factor, a new site was chosen using the random number table. It should be noted that the survey area excluded the Bighead Indian Reserve and the Waterhen Indian Reserve because special permission is required to conduct research on reserve land. As a result, these areas have yet to be surveyed.

At each site, a temporary 10m x 10m quadrat was set up. Species composition was determined within each quadrat. Plants in flower were identified and whenever possible, vegetative material was used to identify the remaining plants. Unknown plants were taken to the herbarium for identification. Plant materials were collected, pressed, and preserved following standard protocols and voucher specimens were deposited in the W. P. Fraser Herbarium (SASK) at the University of Saskatchewan. Nomenclature for the majority of species listed was initially based on the Flora of Alberta, 2<sup>nd</sup> Edition, but has been updated to current nomenclature in Table 1.<sup>3</sup> Previously used names are provided in square brackets in Table 1 for comparative purposes.

A previous floristic study by Blood and Anweiler (1979) reported that MLPP flora consisted of 188 vascular plant species, including 55 families and 137 genera. Our study shows a more diverse flora than previously reported: 271 species in 62 families and 173

genera (Table 1). MLPP flora represents approximately 17% of the provincial flora, which is estimated to be approximately 1,625 species (V. Harms, pers. comm.). Of the 271 species, 72 taxa are newly published records for MLPP flora, though several of these species have likely been previously collected in MLPP. Our data indicate that only eight species are listed as being at risk by the Saskatchewan Conservation Data Center.<sup>4</sup> These species are Tall Larkspur (*Delphinium glaucum*), Rough Daisy Fleabane (*Erigeron strigosus*), Tall White Daisy Fleabane (*Trimorpha elata*), Dwarf Thistle (*Cirsium drummondii*), Cyperus-like Sedge (*Carex pseudocyperus*), Sparrow's Egg Lady's-slipper (*Cypripedium passerinum*), Slender Ladies'-tresses (*Spiranthes lacera*), and Leathery Grape Fern (*Botrychium multifidum*) (Table 2).

Twenty-seven of the species previously recorded by Blood and Anweiler were not found in this study.<sup>1</sup> These are indicated by an asterisk in Table 1. Several explanations can be made regarding the presence or absence of species in the area under study. Our sampling method was more efficient in identifying a large number of species in the study area than the previous study. In addition, the previous report dates back 25 years, and some areas of MLPP have changed. It is not unreasonable to assume that some of the previously reported species had restricted or limited distribution or specific soil and nutrient requirements and may have been eliminated from the park. Another important factor regarding the discrepancy in species number lies in fundamental issue of synonymy. Since multiple names can be used for a single biological entity, this affects final estimates in a region or area. In

fact, disagreements in species number are often the result of studies underestimating synonymy rates<sup>5</sup>. Synonymy rates refer both to species cited under different names and to species for which the taxonomy is unclear and which may be considered two species by one authority and one species by another.

Among the 62 plant families recorded in MLPP, the aster (Asteraceae) and rose (Rosaceae) families are the most widely occurring of the dicotyledons, with 34 and 20 representative species respectively. The buttercup (Ranunculaceae), legume (Fabaceae), and willow (Salicaceae) families are the next most commonly encountered families in the park, with 12, 11, and 9 representative species respectively (Table 1). Among the monocotyledons, the dominant plant families include the grasses (Poaceae), with 15 species, and the sedges (Cyperaceae), with 13 species (Table 1).

Overall, plant diversity appears to be evenly distributed throughout MLPP. No particular species-rich areas were identified in this study. As expected, disturbed areas held the highest concentrations of invasive species. Some recent introductions of invasive species include Smooth Brome (*Bromus inermis*), Alfalfa (*Medicago sativa*), White Sweetclover (*Melilotus alba*), Yellow Sweetclover (*Melilotus officinalis*), and Alsike Clover (*Trifolium hybridum*), which are widely distributed as roadside vegetation. Because of their aggressive growth and successful reproductive strategies, these species have the potential to spread and displace native species. Native species at risk must compete for resources, such as nutrients, light, habitat, and pollinators. These

additional pressures may lead to the extirpation of species at risk from MLPP. Fortunately, park management is aimed at maintaining plant diversity and there are policies and practices to address conservation issues in MLPP such as encouraging the use of designated roads and trails, and restrictions against the removal of plants from the park.

Because changes in flora occur over time due to many factors, we suggest periodic floristic surveys be conducted to monitor species at risk for more effective management of plant resources. Additionally, periodic floristic surveys may provide new species records for MLPP as well as provide information on changes in distribution of invasive species. Most importantly, the eight species at risk identified in this survey should be monitored periodically to ensure that their populations are maintained in the wild.

1. BLOOD, D. A. and G. G. ANWEILER. 1979. Resource Inventory and Analysis: Greig-Kimball Lakes Development Area, Meadow Lake Provincial Park. Donald A. Blood and Associates.

2. HARMS, V. L. 2003. Checklist of the Vascular Plants of Saskatchewan and the Provincially and Nationally Rare Native Plants in Saskatchewan. University Extension Press, University of Saskatchewan, Saskatoon.

3. MOSS, E. H. 1996. Flora of Alberta, 2<sup>nd</sup> Edition. University of Toronto Press, Toronto.

4. SASKATCHEWAN CONSERVATION DATA CENTRE. 2005. Conservation Database. [www.biodiversity.sk.ca/db.htm](http://www.biodiversity.sk.ca/db.htm).

5. SCOTLAND, R. W. and A. H. WORTLEY. 2003. How many species of seed plants are there? *Taxon* 52: 101-104.



Table 1. List of Vascular Plants of The Meadow Lake Provincial Park.

Scientific Name	Common Name
<b>PTERIDOPHYTES</b>	
<b>EQUISETACEAE</b>	
<i>Equisetum arvense</i> L.	Common Horsetail
<i>E. hyemale</i> L.	Scouring Rush
<i>E. scirpoides</i> Michx.	Dwarf Horsetail or Scouring-Rush
<i>E. sylvaticum</i> L.	Woodland Horsetail
<b>LYCOPODIACEAE</b>	
<i>Diphasiastrum complanatum</i> (L.) Holub. [= <i>L. complanatum</i> L.]	Ground Cedar
<i>Lycopodium annotinum</i> L.	Stiff Club-moss
<i>L. clavatum</i> L.	
<i>L. dendroideum</i> Michx. [= <i>L. obscurum</i> L.]	Tree Club-moss
<b>OPHIOGLOSSACEAE</b>	
<i>Botrychium multifidum</i> (Gmel.) Rupr. ●	Leathery Grape Fern
<b>POLYPODIACEAE</b>	
<i>Matteuccia struthiopteris</i> (L.) Todaro ■ var. <i>pennsylvanica</i> (Willd.) Morton	Ostrich Fern
<b>GYMNOSPERMS</b>	
<b>PINACEAE</b>	
<i>Abies balsamea</i> (L.) Mill.	Balsam Fir
<i>Larix laricina</i> (Du Roi) K. Koch	Tamarack
<i>Picea glauca</i> (Moench) Voss	White Spruce
<i>P. mariana</i> (Mill.) B.S.P.	Black Spruce
<i>Pinus banksiana</i> Lamb.	Jack Pine
<b>ANGIOSPERMS: DICOTYLEDON</b>	
<b>APIACEAE</b>	
<i>Cicuta bulbifera</i> L.	Bulb-bearing Water-hemlock
<i>C. maculata</i> L.	Water-hemlock
<i>Heracleum maximum</i> Barton ■ [= <i>H. lanatum</i> Michx.]	Cow-parsnip
<i>Sanicula marilandica</i> L. ■	Snakeroot
<i>Sium suave</i> Walt	Water-parsnip
<i>Zizia aptera</i> (A. Gray) Fern. ■	Heart-leaved Alexanders
<b>APOCYNACEAE</b>	
<i>Apocynum androsaemifolium</i> L.	Spreading Dogbane
<b>ARALIACEAE</b>	
<i>Aralia nudicaulis</i> L.	Wild Sarsaparilla

**ASTERACEAE**

<i>Achillea millefolium</i> L.	Yarrow
<i>A. sibirica</i> Ledeb.	Many-flowered Yarrow
<i>Antennaria neglecta</i> Greene	Field or Prairie Pussytoes
<i>A. parviflora</i> Nutt. *	Small-leaved Pussytoes
<i>Arnica chamissonis</i> Less. ■	Leafy Arnica
<i>A. fulgens</i> Pursh. *	Shining Arnica
<i>Artemisia campestris</i> L.	Plains Wormwood
<i>Bidens cernua</i> L.	Smooth Beggarticks
<i>Cirsium arvense</i> (L.) Scop.	Canada Thistle
<i>C. drummondii</i> Torr. Gray ■●	Dwarf Thistle
<i>Crepis tectorum</i> L.	Narrow-leaved Hawk's-beard
<i>Erigeron glabellus</i> Nutt.	Smooth Fleabane
<i>E. philadelphicus</i> L. ■	Philadelphia Fleabane
<i>E. strigosus</i> Muhl. ■●	Rough Daisy Fleabane
<i>Gaillardia aristata</i> Pursh ■	Great-flowered Gaillardia
<i>Helianthus nuttallii</i> T. & G.*	Nuttall's Sunflower
<i>Hieracium umbellate</i> L. ■	Canada Hawkweed
<i>Liatris ligulistylis</i> (A. Nels.) K. Schum. ■	Meadow Blazingstar
<i>Matricaria discoidea</i> DC. [= <i>M. matricarioides</i> (Less.) Porter]	Pineappleweed
<i>Petasites palmatus</i> (Ait.) A. Gray	Palmate-leaved Colt's-foot
<i>P. sagittatus</i> (Pursh) A. Gray	Arrow-leaved Colt's-foot
<i>Senecio congestus</i> (R.Br.) DC. ■	Marsh Ragwort
<i>S. pauperculus</i> Michx.	Balsam Groundsel
<i>Solidago canadensis</i> L. [s.lat.]	Canada Goldenrod
<i>S. missouriensis</i> Nutt.	Low Goldenrod
<i>S. spathulata</i> DC.*	Mountain Goldenrod
<i>Sonchus arvensis</i> L.	Perennial Sow-thistle
<i>Symphotrichum ciliolatum</i> (Lindl.) A.&D.Löve [= <i>Aster ciliolatus</i> Lindl.]	Lindley's Aster
<i>S. laeve</i> (L.) A.&D.Löve var. <i>geyeri</i> (Gray) [= <i>A. laevis</i> L.]	Nesom
<i>S. puniceum</i> (L.) A.&D.Löve. ■ [= <i>A. puniceus</i> L.]	Smooth Aster
<i>Tanacetum vulgare</i> L. ■	Purple-stemmed Aster
<i>Taraxacum officinale</i> Weber	Tansy
<i>Tragopogon pratensis</i> L. ■	Dandelion
<i>Trimorpha elata</i> (Hook.) Nesom* ● [= <i>Erigeron elatus</i> (Hook.) Greene]	Goat's-beard
	Tall White Daisy Fleabane
<b>BETULACEAE</b>	
<i>Alnus viridis</i> (Vill.) Lam.& DC. ssp. <i>crispa</i> (Ait.) Turill [= <i>A. crispa</i> (Ait.) Pursh]	Green Alder
<i>A. incana</i> (L.) Moench spp. <i>tenuifolia</i> (Nutt.) Breit. [= <i>A. rugosa</i> (Du Roi) Spreng.]	River Alder
<i>B. pumila</i> L. var. <i>glandulifera</i> Reg	Bog Birch
<i>B. papyrifera</i> Marsh.	White Birch
<i>Corylus cornuta</i> Marsh.	Beaked Hazelnut

## BORAGINACEAE

*Mertensia paniculata* (Ait.) G. Don

Tall Lungwort

## BRASSICACEAE

*Arabis divicarpa* A. Nels.\*

Purple Rock Cress

*Arabis divicarpa* A. Nels.\*

Purple Rock Cress

*A. lyrata* L.

Lyre-leaved Rock Cress

*Capsella bursa-pastoris* (L.) Medic ■

Shepherd's-purse

*Descurainia sophia* (L.) Webb ■

Flixweed

*Erysimum cheiranthoides* L. ■

Wormseed Mustard

*Lepidium densiflorum* Schrad ■

Common Pepper-grass

*Rorippa palustris* (L.) Besser ■

Yellow Cress

*Thlaspi arvense* L. ■

Stinkweed

## CAMPANULACEAE

*Campanula rotundifolia* L.

Harebell

## CAPRIFOLIACEAE

*Linnaea borealis* L.

Twinflower

*Lonicera dioica* L.

Twining Honeysuckle

*L. involucrata* (Richards.) Banks

Involucrate Honeysuckle

*Symphoricarpos albus* (L.) Blake

Snowberry

*S. occidentalis* Hook.

Western Snowberry

*Viburnum edule* (Michx.) Raf.

Low Bush-cranberry

*V. opulus* L. var. *americanum* Ait.

High Bush-cranberry

[=*V. trilobum* Marsh. ]

## CARYOPHYLLACEAE

*Minuartia dawsonensis* (Britt.) House\*

Rock Sandwort

[=*Arenaria dawsoniensis* Brill.\*]*Moehringia lateriflora* (L.) Fenzl. ■

Grove Sandwort

*Stellaria crassifolia* Ehrh. ■

Fleshy Stitchwort

*S. longifolia* Muhl. ■

Long-leaved Stitchwort

*S. media* (L.) Cyrill. ■

Common Chickweed

## CERATOPHYLLACEAE

*Ceratophyllum demersum* L.\*

Coontail

## CHENOPODIACEAE

*Chenopodium album* L.

Lamb's-quarters

*C. capitatum* (L.) Aschers. ■

Strawberry Blite

## CORNACEAE

*Cornus canadensis* L.

Bunchberry

*C. sericea* L. ssp. *stolonifera* (Michx.) Fosb.

Red-osier Dogwood

[=*C. stolonifera* Michx.]

## DROSERACEAE

*Drosera rotundifolia* L.

Round-leaved Sundew

## ELAEAGNACEAE

*Shepherdia canadensis* (L.) Nutt.

Canadian Buffaloberry

## ERICACEAE

*Andromeda polifolia* L.

Bog-rosemary

*Arctostaphylos uva-ursi* (L.) Spreng

Bearberry

*Chamaedaphne calyculata* (L.) Moench.

Leatherleaf

*Kalmia polifolia* Wangerh.\*

Pale Bog Laurel

*Ledum groenlandicum* Oeder

Labrador-tea

*Vaccinium caespitosum* Michx.\*

Dwarf Blueberry

*V. myrtilloides* Michx.

Blueberry

*V. oxycoccus* L.\*

Small Bog or Swamp Cranberry

*V. vitis-idaea* L.

Dry-ground Cranberry

## FABACEAE

*Astragalus agrestis* Dougl.

Purple Milk-Vetch

*Caragana arborescens* Lam.\*

Siberian Pea Shrub

*Hedysarum alpinum* L.

American Hedysarum

ssp. *americanum* (Michx.) Fedtsch.*Lathyrus ochroleucus* Hook.

Cream-colored Vetchling

*L. venosus* Muhl. ■

Wild Peavine

*Medicago sativa* L.

Alfalfa

*Melilotus alba* Medic.

White Sweet-clover

*M. officinalis* (L.) Lam.

Yellow Sweet-clover

*Oxytropis deflexa* (Pall.) DC.

Reflexed Locoweed

*Trifolium hybridum* L.

Alsike Clover

*Vicia americana* Muhl.

American Vetch

## FUMARIACEAE

*Corydalis aurea* Willd. ■

Golden Corydalis

*C. sempervirens* (L.) Pers.

Pink Corydalis

## GENTIANACEAE

*Gentianella amarella* (L.) Borner

Northern Gentian

*Halenia deflexa* (Sm.) Griseb.

Spurred-Gentian

## GERANIACEAE

*Geranium bicknellii* Britt.

Bicknell's Geranium

## GROSSULARIACEAE

*Ribes americanum* Mill. ■

Wild Black Currant

*R. hudsonianum* Richards.

Northern or Wild Black Currant

*R. oxycanthoides* L.

Wild Gooseberry

*R. triste* Pall.

Wild Red Currant

## HALORAGACEAE

*Myriophyllum sibiricum* Komar.\*

Water Milfoil

[=*M. exalbescens* Fernald]



HIPPURIDACEAE  
*Hippuris vulgaris* L.

Mare's-tail

HYDROPHYLLACEAE  
*Phacelia franklinii* (R. Br.) A. Gray

Franklin's Scorpionweed

LAMIACEAE  
*Agastache foeniculum* (Pursh) Ktze.  
*Dracocephalum parviflorum* Nutt. \*  
[=*Moldavica parviflora* (Nutt.) Britt.]  
*Galeopsis tetrahit* L. ■  
*Lycopus asper* Greene ■  
*L. uniflorus* Michx. ■  
*Mentha arvensis* L.  
*Scutellaria galericulata* L.  
*Stachys palustris* L.

Giant-Hyssop  
American Dragonhead  
Hemp-nettle  
Western Water-horehound  
Northern Water-horehound  
Field Mint  
Marsh Skullcap  
Marsh Hedge-nettle

LENTIBULARIACEAE  
*Urticularia macrorhiza* Le Conte.  
[=*U. vulgaris* L.]  
*U. intermedia* Hayne

Common Bladderwort  
Flat-leaved Bladderwort

MENYANTHACEAE  
*Menyanthes trifoliata* L.

Buck-bean

MONOTROPACEAE  
*Monotropa uniflora* L.\*

Indian-Pipe

NYMPHACEAE  
*Nuphar variegatum* Dur.

Yellow Pond-Lily

ONAGRACEAE  
*Circaea alpina* L. ■  
*Epilobium ciliatum* Raf.  
*Oenothera biennis* L.

Small Enchanter's-Nightshade  
Northern Willowherb  
Yellow Evening-Primrose

PLANTAGINACEAE  
*Plantago major* L.

Common Plantain

POLEMONIACEAE  
*Collomia linearis* Nutt.

Collomia

POLYGALACEAE  
*Polygala senega* L.

Seneca Snakeroot

POLYGONACEAE  
*Polygonum amphibium* L.  
*P. aviculare* L. ■  
*P. lapathifolium* L. ■

Swamp Persicaria  
Doorweed  
Pale Persicaria

*Rumex maritimus* L. ■  
*R. occidentalis* S. Wats. ■

Golden Dock  
Western Dock

PRIMULACEAE  
*Lysimachia thysiflora* L.  
*Trientalis borealis* Raf.

Tufted Loosestrife  
Northern Starflower

PYROLACEAE  
*Moneses uniflora* (L.) Gray\*  
*Orthilia secunda* (L.) House  
*Pyrola asarifolia* Michx.  
*P. chlorantha* Sw.  
*P. elliptica* Nutt.

One-Flowered Wintergreen  
One-sided Wintergreen  
Pink Wintergreen  
Greenish-flowered Wintergreen  
Common Shinleaf

RANUNCULACEAE  
*Actaea rubra* (Ait.) Willd.  
*Anemone canadensis* L.  
*A. multifida* Poir. ■  
*A. patens* L.  
*A. virginiana* L. ■  
[=*A. riparia* Fern.]  
*Aquilegia brevistyla* Hook.  
*Caltha palustris* L.  
*Delphinium glaucum* S. Wats. ●  
*R. aquatilis* L. var. *diffusus* Withering \*  
*Ranunculus macounii* Britt.  
*R. sceleratus* L.  
*Thalictrum venulosum* Trel.

Red Baneberry  
Canada Anemone  
Cut-leaved Anemone  
Crocus Anemone  
Riverbank Anemone  
Small-flowered Columbine  
Marsh-marigold  
Tall Larkspur  
White Water Crowfoot  
Macoun's Buttercup  
Celery-leaved buttercup  
Veiny Meadow-Rue

ROSACEAE  
*Amelanchier alnifolia* Nutt.  
*Dasiphora fruticosa* (L.) Rydb. ssp. *floribunda* (Pursh) Kartesz ■  
[=*Potentilla fruticosa* L.]  
*Fragaria vesca* L.  
*F. virginiana* Duchesne  
*Geum macrophyllum* Willd.\*  
var. *perincisum* (Rydb.) Raup  
*G. rivale* L.  
*G. triflorum* Pursh  
*Potentilla anserina* L.  
*P. arguta* Pursh ■  
*P. norvegica* L. ■  
*P. palustris* (L.) Scop.  
*Prunus pensylvanica* L. ■  
*P. virginiana* L.  
*Rosa acicularis* Lindl.  
*R. woodsii* Lindl.\*  
*Rubus arcticus* L.  
var. *acaulis* (Michx.) Focke

Saskatoon  
Shrubby Cinquefoil  
American Wild Strawberry  
Smooth Wild Strawberry  
Yellow Cut-leaf Avens  
Purple Avens  
Three-flowered Avens  
Silverweed  
White Cinquefoil  
Rough Cinquefoil  
Marsh Cinquefoil  
Pin Cherry  
Red-fruited Choke Cherry  
Prickly Rose  
Wood's Rose  
Dwarf Raspberry

<i>R. ideaus</i> L. ssp. <i>strigosus</i> (Michx.) Focke	Wild Red Raspberry
<i>R. pubescens</i> Raf.	Dewberry
<i>Sibbaldiopsis tridentata</i> (Ait.) Rydb. [= <i>Potentilla tridentata</i> Ait.]	Three-toothed Cinquefoil
<i>Spiraea alba</i> Du Roi	Narrow-leaved Meadowsweet
<b>RUBIACEAE</b>	
<i>Galium boreale</i> L.	Northern Bedstraw
<i>G. labradoricum</i> Wieg. ■	Labrador Bedstraw
<i>G. trifidum</i> L. ■	Small Bedstraw
<i>G. triflorum</i> Michx.	Sweet-scented Bedstraw
<b>SALICACEAE</b>	
<i>Populus balsamifera</i> L.	Balsam Poplar
<i>P. tremuloides</i> Michx.	Aspen Poplar
<i>Salix bebbiana</i> Sarg.	Beaked Willow
<i>S. candida</i> Fluegge ■	Hoary Willow
<i>S. discolor</i> Muhl. ■	Pussy Willow
<i>S. exigua</i> Nutt. subsp. <i>interior</i> (Rowlee) Cronq.	Sandbar Willow
<i>S. lucida</i> Muhl. ssp. <i>lasiandra</i> (Benth.) Murr. ■ [= <i>S. lasiandra</i> Benth.]	Western Shining Willow
<i>S. pedicellaris</i> Pursh	Bog Willow
<i>S. petiolaris</i> Sm. ■	Basket Willow
<b>SANTALACEAE</b>	
<i>Comandra umbellata</i> (L.) Nutt.	Bastard Toadflax
<i>Geocaulon lividum</i> (Richards.) Fern.	Northern Comandra
<b>SAXIFRAGACEAE</b>	
<i>Heuchera richardsonii</i> R. Br.	Alumroot
<i>Mitella nuda</i> L.	Bishop's-cap
<i>Parnassia palustris</i> L.	Meadow Grass-of-Parnassus
<b>SCROPHULARIACEAE</b>	
<i>Castilleja miniata</i> Dougl.	Red Indian Paintbrush
<i>Melampyrum lineare</i> Desr.*	Cow Wheat
<i>Penstemon procerus</i> Douglas ex R. Grah.*	Slender Blue Beardtongue
<i>Veronica americana</i> (Raf.) Schw. ■	American Speedwell
<b>URTICACEAE</b>	
<i>Urtica dioica</i> L.	Stinging Nettle
<b>VIOLACEAE</b>	
<i>Viola adunca</i> J.E. Smith	Early Blue Violet
<i>V. canadensis</i> L. var. <i>rugulosa</i> (Greene) C.L. Hitchc.	Western Canada Violet
<i>V. nephrophylla</i> Greene	Northern Bog Violet

**ANGIOSPERMS: MONOCOTYLEDON****ALISMATACEAE**

<i>Alisma triviale</i> Pursh n [= <i>A. plantago-aquatica</i> L.]	Common Water-plantain
<i>Sagittaria cuneata</i> Sheld.	Arum-leaved Arrowhead

**ARACEAE**

<i>Calla palustris</i> L.	Water Calla
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**CYPERACEAE**

<i>C. aquatilis</i> Wahl. ■	Water Sedge
<i>C. aurea</i> Nutt. ■	Golden Sedge
<i>C. bebbii</i> Olney ■	Bebb's Sedge
<i>Carex foenea</i> Willd. ■ [= <i>C. aena</i> Fern.]	Hay Sedge
<i>C. pseudocyperus</i> L. ■●	Cyperus-like Sedge
<i>C. utriculata</i> Boott. ■	Beaked Sedge
<i>C. viridula</i> Michx. ■	Green Sedge
<i>Eleocharis palustris</i> (L.) R. & S. ■	Creeping Spike-rush
<i>Eriophorum angustifolium</i> Honck * [= <i>E. polystachion</i> L.]	Narrow-Leaved Cottongrass
<i>E. gracile</i> Koch n	Slender Cotton-grass
<i>Schoenoplectus tabernaemontani</i> (Gmel.) [= <i>Scirpus validus</i> Vahl]	Palla
<i>Scirpus microcarpus</i> Pers. ■	Great Bulrush
<i>Trichophorum alpinum</i> (L.) Pers. ■ [= <i>Scirpus hudsonianus</i> (Michx.) Fern.]	Small-fruited Bulrush
	Alpine Cotton-grass

**IRIDACEAE**

<i>Sisyrinchium montanum</i> Greene	Common Blue-eyed Grass
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**JUNCACEAE**

<i>Juncus alpinoarticulatus</i> Chaix [= <i>J. alpinus</i> Vill.]	Alpine Rush
<i>J. arcticus</i> Willd. var. <i>balticus</i> (Willd.) Traut. [= <i>J. balticus</i> Willd.]	Baltic Rush
<i>J. nodosus</i> L.	Knotted Rush

**JUNCAGINACEAE**

<i>Triglochin maritima</i> L. <i>T. palustris</i> L. ■	Seaside Arrow-grass
	Marsh Arrow-grass

**LEMNACEAE**

<i>Lemna minor</i> L.	Lesser Duckweed
<i>Spirodela polyrhiza</i> (L.) Scheid.*	Larger Duckweed

**LILIACEAE**

<i>Lilium philadelphicum</i> L.	Wood Lily
<i>Maianthemum canadense</i> Desf.	Two-leaved Solomon's-seal



<i>M. stellatum</i> (L.) Link [= <i>Smilacina stellata</i> (L.) Desf.]	Star-flowered Solomon's-Seal
<i>M. trifolium</i> (L.) Sloboda [= <i>Smilacina trifolia</i> (L.) Desf.]	Three-leaved Solomon's-Seal
<i>Prosartes trachycarpum</i> S.Wats. [= <i>Disporum trachycarpum</i> (S. Wats.) B. & H.]	Fairybells
<i>Zygadenus elegans</i> Pursh ■	Smooth Camas

## ORCHIDACEAE

<i>Coeloglossum viride</i> (L.) Hartm. var. <i>virescens</i> (Muhl. ex Willd.) Luer [= <i>H. viridis</i> (L.) R.Br.]	Long-bracted Orchid
<i>Corallorhiza maculata</i> Raf. ■	Large Coralroot
<i>Cypripedium passerinum</i> Richards.*	Sparrow's Egg Lady's-slipper
<i>Goodyera repens</i> (L.) R.Br.	Lesser Rattlesnake-plantain
<i>Platanthera aquilonis</i> Shev. [= <i>Habenaria hyperborea</i> (L.) R. Br.]	Green-flowered Bog Orchid
<i>P. obtusata</i> (Banks ex Pursh) Lindl. ■ [= <i>Habenaria obtusata</i> (Pursh) Richards.]	Small Northern Bog Orchid
<i>Spiranthes lacera</i> (Raf.) Raf. *● [= <i>S. gracilis</i> (Bigelow) Beck]	Slender Ladies'-tresses
<i>S. romanzoffiana</i> Cham. & Schlecht.	Hooded Ladies'-tresses

## POACEAE

<i>Agrostis scabra</i> Willd. ■	Rough Hair Grass
<i>Alopecurus aequalis</i> Sobol. ■	Short-awned Foxtail
<i>Avena sativa</i> L. ■	Oat
<i>Beckmannia syzigachne</i> (Steud.) Fern. ■	Slough Grass
<i>Bromus inermis</i> Leyss. ■	Smooth Brome
<i>Calamagrostis canadensis</i> (Michx.) Beauv.	Marsh Reed Grass
<i>Calamovilfa longifolia</i> (Hook.) Scribn.*	Sand Grass
<i>Elymus trachycaulus</i> (Link) Gould & Shin. [= <i>Agropyron trachycaulum</i> (Link) Malte]	Slender Wheatgrass
<i>Festuca ovina</i> L.*°	
<i>Hordeum jubatum</i> L.	Wild Barley
<i>Leymus innovatus</i> (Beal) Pilger [= <i>Elymus innovatus</i> Beal.]	Hairy Wild Rye
<i>Phalaris arundinacea</i> L.	Reed Canary Grass
<i>Phragmites australis</i> (Cav.) Trin.	Common Reed Grass
<i>Piptatherum pungens</i> (Torr. ex Spreng.) Barkworth * [= <i>Oryzopsis pungens</i> (Torr.) Hitchc.]	Northern Rice Grass
<i>Poa pratensis</i> L.	Kentucky Blue Grass

## POTAMOGETONACEAE

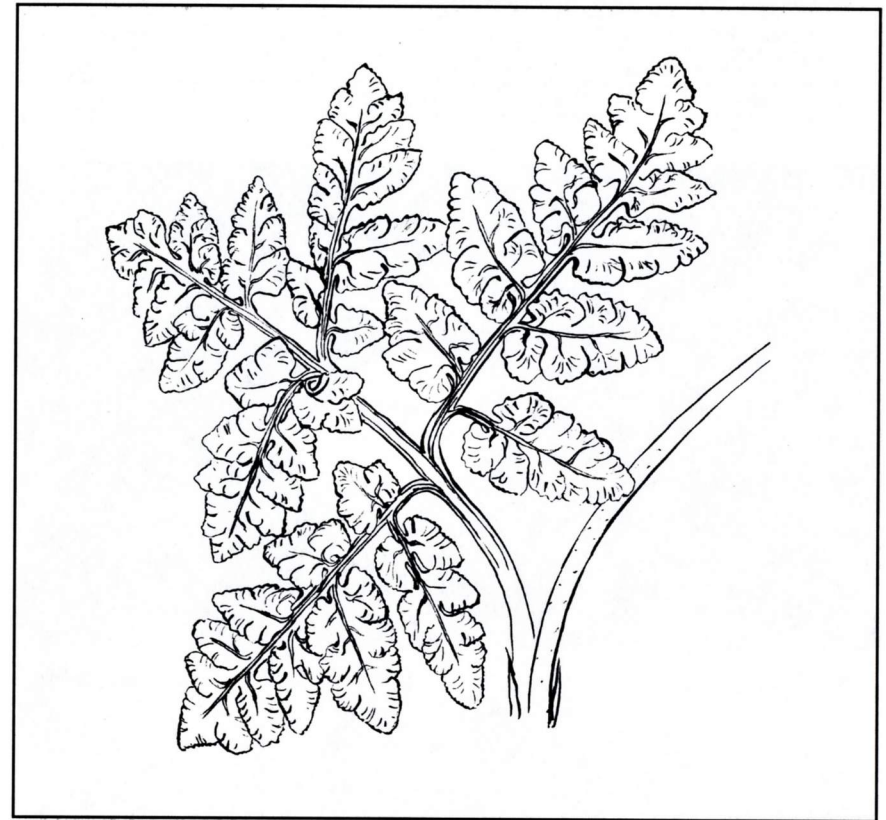
<i>Potamogeton natans</i> L.	Floating Pondweed
<i>P. richardsonii</i> (Benn.) Rydb.	Clasping-leaf Pondweed
<i>Stuckenia pectinata</i> (L.) Boerner [= <i>Potamogeton pectinatus</i> L.]	Sago Pondweed

## TYPHACEAE

*Typha latifolia* L.

Common or Broad-leaved Cattail

- Indicates that the species is being tracked by the W. P. Fraser Herbarium but is not currently listed as rare or endangered.
- Indicates a new record of the species for the MLPP
- \* Indicated that the species was recorded in a previous floristic survey but not located in this survey.
- \*\* Probably *Festuca saximontana*; *Festuca ovina* has not been confirmed in Saskatchewan.

*Leathery Grape Fern leaf*

Elizabeth Reimer

**Table 2.** List of species provincially at risk in the Meadow Lake Provincial Park<sup>2</sup>. Status assigned by the Saskatchewan Conservation Data Center: S1 (Extremely rare) = 5 or fewer occurrences in Saskatchewan, or very few remaining individuals; S2 (Rare) = 6 to 20 occurrences in Saskatchewan or few remaining individuals; S3 (Rare-Uncommon) = 21 to 100 occurrences in Saskatchewan, may be rare and local throughout the province or may occur in a restricted provincial range<sup>4</sup>.

Scientific Name	SK CDC Rarity Status	Harms (2003) Status
Leathery Grape Fern	Rare-uncommon (S3)	Uncommon
Cyperus-like Sedge	Rare to rare-uncommon (S2S3)	Uncommon
Sparrow's Egg Lady's-slipper	Rare (S2)	Uncommon
Slender Ladies'-tresses	Rare to rare-uncommon (S2S3)	Vulnerable
Tall Larkspur	Rare to extremely rare (S1S2)	Threatened
Rough Daisy Fleabane	Rare to rare-uncommon (S2S3)	Uncommon
Tall White daisy Fleabane	Rare (S2)	Vulnerable
Dwarf Thistle	Rare-uncommon (S3)	Uncommon



*Sparrow's Egg Lady's-slipper*

*Michael Williams*