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 45 km 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 km² of land. The park encompasses a mosaic of ecosystems including forest, wetland, aquatic, and disturbed habitats. The forested ecosystems are divided into several subcategories based on the dominant tree species and associated understory. 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 1 cm² 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, 2nd Edition, but has been updated to current nomenclature in Table 1. 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. 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. 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\(^5\). 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\(^{nd}\) Edition. University of Toronto Press, Toronto.

4. SASKATCHEWAN CONSERVATION DATA CENTRE. 2005. Conservation Database. 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                                      |
|-----------------|-------------------------------------------------|
| **PTERIDOPHYTES** |                                                |
| **EQUISETACEAE** |                                                |
| Equisetum arvense L. | Common Horsetail                                |
| E. hyemale L. | Scouring Rush                                   |
| E. scirpoides Michx. | Dwarf Horsetail or Scouring-Rush               |
| E. sylvaticum L. | Woodland Horsetail                              |
| **LYCOPODIACEAE** |                                                |
| Diphasiastrum complanatum (L.) Holub. [=L. complanatum L.] | Ground Cedar                                  |
| Lycopodium annotinum L. | Stiff Club-moss                                 |
| L. clavatum L. | Tree Club-moss                                  |
| L. dendroideum Michx. [=L. obscurum L.] |                                                |
| **OPHIOGLOSSACEAE** |                                                |
| Botrychium multifidum (Gmel.) Rupr. | Leathery Grape Fern                            |
| **POLYPODIACEAE** |                                                |
| Matteuccia struthiopteris (L.) Todaro var. pensylvanica (Willd.) Morton | Ostrich Fern                                   |
| **GYMNOSPERMS** |                                                |
| **PINACEAE** |                                                |
| Abies balsamea (L.) Mill. | Balsam Fir                                     |
| Larix laricina (Du Roi) K. Koch | Tamarack                                      |
| Picea glauca (Moench) Voss | White Spruce                                  |
| P. mariana (MILL.) B.S.P. | Black Spruce                                  |
| Pinus banksiana Lamb. | Jack Pine                                      |
| **ANGIOSPERMS: DICOTYLEDON** |                                                |
| **APIACEAE** |                                                |
| Cicuta bulbifera L. | Bulb-bearing Water-hemlock                      |
| C. maculata L. | Water-hemlock                                   |
| Heracleum maximum Barton [=H. lanatum Michx.] | Cow-parsnip                                   |
| Sanicula marilandica L. | Snakerooot                                    |
| Sium suave Walt | Water-parsnip                                  |
| Zizia aptera (A. Gray) Fern. | Heart-leaved Alexanders                        |
| **APOCYNACEAE** |                                                |
| Apocynum androsaemifolium L. | Spreading Dogbane                             |
| **ARALIACEAE** |                                                |
| Aralia nudicaulis L. | Wild Sarsaparilla                              |
ASTERACEAE

Achillea millefolium L.
A. sibirica Ledeb.
Antennaria neglecta Greene
A. parviflora Nutt. *
Arnica chamissonis Less. ■
A. fulgens Pursh. *
Artemesia campestris L.
Bidens cernua L.
Cirsium arvense (L.) Scop.
C. drummondii Torr. Gray ■
Crepis tectorum L.
Erigeron glabellus Nutt.
E. philadelphicus L. ■
E. strigosus Michx. ■
Gaillardia aristata Pursh ■
Helianthus nuttallii T. & G.*
Hieracium umbellatum L. ■
Liatris ligulistylis (A. Nels.) K. Schum. ■
Matricaria discoidea DC.
[=M. matricarioideis (Less.) Porter]
Petasites palmaus (Ait.) A. Gray
P. sagittatus (Pursh) A. Gray
Senecio congestus (R.Br.) DC. ■
S. pauperculus Michx.
Solidago canadensis L. [s.lat.]
S. missouriensis Nutt.
S. spathulata DC.*
Sonchus arvensis L.
Symphyotrichum ciliolatum (Lindl.) A.&D.Löve
[=Aster ciliolatus Lindl.]
S. laeve (L.) A.&D.Löve var. geyeri (Gray)
[=A. laevis L.]
S. punicum (L.) A.&D.Löve. ■
[=A. punicus L]
Tanacetum vulgare L. ■
Taraxacum officinale Weber
Tragopogon pratensis L. ■
Trimorpha elata (Hook.) Nesom* ○
[=Erigeron elatus (Hook.) Greene]

Yarrow
Many-flowered Yarrow
Field or Prairie Pussytoes
Small-leaved Pussytoes
Leafy Arnica
Shining Arnica
Plains Wormwood
Smooth Beggarticks
Canada Thistle
Dwarf Thistle
Narrow-leaved Hawk’s-beard
Smooth Fleabane
Philadelphia Fleabane
Rough Daisy Fleabane
Great-flowered Gaillardia
Nuttall’s Sunflower
Canada Hawkweed
Meadow Blazingstar
Pineappleweed

Palmate-leaved Colt’s-foot
Arrow-leaved Colt’s-foot
Marsh Ragwort
Balsam Groundsel
Canada Goldenrod
Low Goldenrod
Mountain Goldenrod
Perennial Sow-thistle

Lindley’s Aster
Nesom
Smooth Aster
Purple-stemmed Aster

Tansy
Dandelion
Goat’s-beard
Tall White Daisy Fleabane

BETULACEAE

Alnus viridis (Vill.) Lam.& DC. ssp. crispa (Ait.) Turrill
[=A. crispa (Ait.) Pursh]
A. incana (L.) Moench spp. tenuifolia (Nutt.)
[=A. rugosa (Du Roi) Spreng.]
B. pumila L. var. glandulifera Reg.
B. papyrifera Marsh.
Corylus cornuta Marsh.

Green Alder
Breit.
River Alder
Bog Birch
White Birch
Beaked Hazelnut
BORAGINACEAE

Mertensia paniculata (Ait.) G. Don

Tall Lungwort

BRASSICACEAE

Arabis divicarpa A. Nels.*
Arabis divicarpa A. Nels.*
A. lyrata L.
Capsella bursa-pastoris (L.) Medic
Descurainia sophia (L.) Webb
Erysimum cheiranthoides L.
Lepidium densiflorum Schrad
Rorippa palustris (L.) Besser
Thlaspi arvense L.

Purple Rock Cress
Purple Rock Cress
Lyre-leaved Rock Cress
Shepherd’s-purse
Flixweed
Wormseed Mustard
Common Pepper-grass
Yellow Cress
Stinkweed

CAMPANULACEAE

Campanula rotundifolia L.

Harebell

CAPRIFOLIACEAE

Linnaea borealis L.
Lonicera dioica L.
L. involucrata (Richards.) Banks
Symphoricarpos albus (L.) Blake
S. occidentalis Hook.
Viburnum edule (Michx.) Raf.
V. opulus L. var. americanum Ait. [=V. trilobum Marsh.]

Twinflower
Twining Honeysuckle
Involucrate Honeysuckle
Snowberry
Western Snowberry
Low Bush-cranberry
High Bush-cranberry

CARYOPHYLLACEAE

Minuartia dawsonensis (Britt.) House* [=Arenaria dawsoniensis Brill.*]
Moehringia lateriflora (L.) Fenzl.
Stellaria crassifolia Ehrh.
S. longifolia Muhl.
S. media (L.) Cyrill.

Rock Sandwort
Grove Sandwort
Fleshy Stitchwort
Long-leaved Stitchwort
Common Chickweed

CERATOPHYLLACEAE

Ceratophyllum demersum L.*

Coontail

CHENOPODIACEAE

Chenopodium album L.
C. capitatum (L.) Aschers.

Lamb’s-quarters
Strawberry Blite

CORNACEAE

Cornus canadensis L.
C. sericea L. ssp. stolonifera (Michx.) Fosb. [=C. stolonifera Michx.]

Bunchberry
Red-osier Dogwood

DROSERACEAE

Drosera rotundifolia L.

Round-leaved Sundew
**ELAEAGNACEAE**
*Shepherdia canadensis* (L.) Nutt.

**ERICACEAE**
*Andromeda polifolia* L.
*Arctostaphylos uva-ursi* (L.) Spreng
*Chamaedaphne calyculata* (L.) Moench.
*Kalmia polifolia* Wangenh.*
*Ledum groenlandicum* Oeder
*Vaccinium caespitosum* Michx.*
*V. myrtilloides* Michx.
*V. oxyccocus* L.*
*V. vitis-idaea* L.

**FABACEAE**
*Astragalus agrestis* Dougl.
*Caragana arborescens* Lam.*
*Hedysarum alpinum* L.

    ssp. americanum (Michx.) Fedsch.
*Lathyrus ochroleucus* Hook.
*L. venosus* Muhl.
*Medicago sativa* L.
*Melilotus alba* Medic.
*M. officinalis* (L.) Lam.
*Oxytropis deflexa* (Pall.) DC.
*Trifolium hybridum* L.
*Vicia americana* Muhl.

**FUMARIACEAE**
*Corydalis aurea* Wild.
*C. sempervirens* (L.) Pers.

**GENTIANACEAE**
*Gentianella amarella* (L.) Borner
*Halenia deflexa* (Sm.) Griseb.

**GERANIACEAE**
*Geranium bicknellii* Britt.

**GROSSULARIACEAE**
*Ribes americanum* Mill.
*R. hudsonianum* Richards.
*R. oxycanthoides* L.
*R. triste* Pall.

**HALORAGACEAE**
*Myriophyllum sibiricum* Komar.*

[=M. excalbescens Fernald]

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Canadian Buffaloberry

Bog-rosemary

Bearberry

Leatherleaf

Pale Bog Laurel

Labrador-tea

Dwarf Blueberry

Blueberry

Small Bog or Swamp Cranberry

Dry-ground Cranberry

Purple Milk-Vetch

Siberian Pea Shrub

American Hedysarum

Cream-colored Vetchling

Wild Peavine

Alfalfa

White Sweet-clover

Yellow Sweet-clover

Reflexed Locoweed

Alsike Clover

American Vetch

Golden Corydalis

Pink Corydalis

Northern Gentian

Spurred-Gentian

Bicknell’s Geranium

Wild Black Currant

Northern or Wild Black Currant

Wild Gooseberry

Wild Red Currant

Water Milfoil
HIPPURIDACEAE
Hippuris vulgaris L.  

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

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

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

MENYANTHACEAE
Menyanthes trifoliata L.  

MONOTROPAEAE
Monotropa uniflora L.*  

NYMPHACEAE
Nuphar variegatum Dur.  

ONAGRACEAE
Circae alpina L.  
Epilobium ciliatum Raf.  
Oenothera biennis L.  

PLANTAGINACEAE
Plantago major L.  

POLEMONIACEAE
Collomia linearis Nutt.  

POLYGALACEAE
Polygonal senega L.  

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

Mare's-tail  
Franklin's Scorpionweed  
Giant-Hyssop  
American Dragonhead  
Hemp-nettle  
Western Water-horehound  
Northern Water-horehound  
Field Mint  
Marsh Skullcap  
Marsh Hedge-nettle  
Common Bladderwort  
Flat-leaved Bladderwort  
Buck-bean  
Indian-Pipe  
Yellow Pond-Lily  
Small Enchanter's-Nightshade  
Northern Willowherb  
Yellow Evening-Primrose  
Common Plantain  
Collomia  
Seneca Snakeroot  
Swamp Persicaria  
Doorweed  
Pale Persicaria  

Blue Jay
Rumex maritimus L. ■
R. occidentalis S. Wats. ■

PRIMULACEAE
Lysimachia thyrsiflora L.
Trientalis borealis Raf.

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

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.

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. perincicum (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

Golden Dock
Western Dock
Tufted Loosestrife
Northern Starflower
One-Flowered Wintergreen
One-sided Wintergreen
Pink Wintergreen
Greenish-flowered Wintergreen
Common Shinleaf
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
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

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R. ideus L.  
ssp. strigosus (Michx.) Focke

R. pubescens Raf.

Sibbaldiopsis tridentata (Ait.) Rydb.  
[=Potentilla tridentata Ait.]

Spiraea alba Du Roi

Wild Red Raspberry

Dewberry

Three-toothed Cinquefoil

Narrow-leaved Meadowsweet

RUBIACEAE

Galium boreale L.  
G. labradoricum Wieg.  
G. trifidum L.  
G. triflorum Michx.

Northern Bedstraw

Labrador Bedstraw

Small Bedstraw

Sweet-scented Bedstraw

SALICACEAE

Populus balsamifera L.  
P. tremuloides Michx.

Salix bebbiana Sarg.

S. candida Fluegge  
S. discolor Muhl.  
S. exigua Nutt.  
subsp. interior (Rowlee) Cronq.

S. lucida Muhl. ssp. lasiandra (Benth.) Murr.  
[=S. lasiandra Benth.]

S. pedicellaris Pursh

S. petiolaris Sm.

Western Shining Willow

Bog Willow

Basket Willow

SANTALACEAE

Comandra umbellata (L.) Nutt.
Geocaulon lividum (Richards.) Fern.

Bastard Toadflax

Northern Comandra

SAXIFRAGACEAE

Heuchera richardsonii R. Br.
Mitella nuda L.

Alumroot

Bishop’s-cap

Meadow Grass-of-Parnassus

Parnassia palustris L.

SCROPHULARIACEAE

Castilleja miniata Dougl.
Melampyrum lineare Desr.*

Penstemon procerus Douglas ex R. Grah.*

Veronica americana (Raf.) Schw.  

Red Indian Paintbrush

Cow Wheat

Slender Blue Beardtongue

American Speedwell

URTICACEAE

Urtica dioica L.

Stinging Nettle

VIOLACEAE

Viola adunca J.E. Smith
V. canadensis L.  
var. rugulosa (Greene) C.L. Hitchc.
V. nephrophylla Greene

Early Blue Violet

Western Canada Violet

Northern Bog Violet
ANGIOSPERMS: MONOCOTYLEDON

ALISMATACEAE
Alisma triviale Pursh n
   [=A. plantago-aquatica L.]
   Sagittaria cuneata Sheld.

ARACEAE
Calla palustris L.

CYPERACEAE
C. aquatilis Wahl. ●
C. aurea Nutt. ●
C. bebbii Olney ●
Carex foenea Willd. ●
   [=C. aena Fern.]
C. pseudocyperus L. ●●
C. utriculata Boott. ●
C. viridula Michx. ●
Eleocharis palustris (L.) R. & S. ●
Eriophorum angustifolium Honck *
   [=E. polystachion L.]
E. gracile Koch n
Schoenoplectus tabernaemontani (Gmel.)
   [=Scirpus validus Vahl]
Scirpus microcarpus Pers. ●
Trichophorum alpinum (L.) Pers. ●
   [=Scirpus hudsonianus (Michx.) Fern.]

IRIDACEAE
Sisyrinchium montanum Greene

JUNCACEAE
Juncus alpinoarticulatus Chaix
   [=J. alpinus Vill.]
J. arcticus Willd. var. balticus (Wild.) Traut.
   [=J. balticus Willd.]
J. nodosus L.

JUNCAGINACEAE
Triglochin maritima L.
T. palustris L. ●

LEMNACEAE
Lemma minor L.
Spirodela polyrhiza (L.) Scheid.*

LILIACEAE
Lilium philadelphicum L.
Maianthemum canadense Desf.

Common Water-plantain
Arum-leaved Arrowhead
Water Calla

Water Sedge
Golden Sedge
Bebb’s Sedge
Hay Sedge
Cyperus-like Sedge
Beaked Sedge
Green Sedge
Creeping Spike-rush
Narrow-Leaved Cottongrass
Slender Cotton-grass
Palla
Great Bulrush
Small-fruited Bulrush
Alpine Cotton-grass

Common Blue-eyed Grass

Alpine Rush
Baltic Rush
Knotted Rush

Seaside Arrow-grass
Marsh Arrow-grass

Lesser Duckweed
Larger Duckweed

Wood Lily
Two-leaved Solomon’s-seal

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M. stellatum (L.) Link
[=Smilacina stellata (L.) Desf.]
M. trifolium (L.) Sloboda
[=Smilacina trifolia (L.) Desf.]
Proserpis trachycarpum S.Wats.
[=Disporum trachycarpum (S. Wats.) B. & H.]
Zygodenus elegans Pursh

Star-flowered Solomon's-Seed
Three-leafed Solomon's-Seed
Fairybells
Smooth Camas

ORCHIDACEAE

Coeloglossum viride (L.) Hartm. var. virescens (Muhl. ex Willd.) Luer
[=H. viridis (L.) R.Br.]
Corallorhiza maculata Raf.
[=Habenaria hyperborea (L.) R. Br.]
Cyripedium passerinum Richards.*
Goodyera repens (L.) R.Br.
Platanthera aquilonis Shev.
[=Habenaria obtusata (Pursh) Richards.]
Spiranthes lacera (Raf.) Raf. *
[=S. gracilis (Bigelow) Beck]
S. romanzoffiana Cham. & Schlecht.

Long-bracted Orchid
Large Coralroot
Sparrow's Egg Lady's-slipper
Lesser Rattlesnake-plantain
Green-flowered Bog Orchid
Small Northern Bog Orchid
Slender Ladies'-tresses
Hooded Ladies'-tresses

POACEAE

Agrostis scabra Willd.
Alopecurus aequalis Sobol.
Avena sativa L.
Beckmannia syzigachne (Steed.) Fern.
Bromus inermis Leyss.
Calamagrostis canadensis (Michx.) Beauv.
Calamovilfa longifolia (Hook.) Scribn.*
Elymus trachycaulus (Link) Gould & Shin.
[=Agropyron trachycaulum (Link) Malte]
Festuca ovina L.**
Hordeum jubatum L.
Leymus innovatus (Beal) Pilger
[=Elymus innovatus Beal.]
Phalaris arundinacea L.
Phragmites australis (Cav.) Trin.
Piptatherum pungens (Torr. ex Spreng.) Barkworth *
[=Oryzopsis pungens (Torr.) Hitchc.]
Poa pratensis L.

Rough Hair Grass
Short-awned Foxtail
Oat
Slough Grass
Smooth Brome
Marsh Reed Grass
Sand Grass
Slender Wheatgrass
Wild Barley
Hairy Wild Rye
Reed Canary Grass
Common Reed Grass
Northern Rice Grass
Kentucky Blue Grass

POTAMOGETONACEAE

Potamogeton natans L.
P. richardsonii (Benn.) Rydb.
Stuckenia pectinata (L.) Boern.
[=Potamogeton pectinatus L.]

Floating Pondweed
Clasping-leaf Pondweed
Sago Pondweed
TYPHACEAE
* Typha latifolia L.*

- 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. 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.

| 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*