

The Canadian Field-Naturalist

SUPPLEMENTARY MATERIALS:

A proposed Important Plant Area as a tool for conserving threatened plants and habitats in the Redberry Lake Biosphere Region, Saskatchewan

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TABLE S1. List of vascular plants in the Redberry Lake Flats, Saskatchewan, Canada.

No.	Scientific name	Common name
Amaranthaceae		
1.	<i>Corispermum americanum</i> (Nuttall) Nuttall var. <i>americanum</i>	American Bugseed
2.	<i>Corispermum pallasii</i> Steven	Pallas' Bugseed
3.	<i>Kali tragus</i> (L.) Scopoli	Prickly Russian Thistle
4.	<i>Salicornia rubra</i> A. Nelson	Red Glasswort
Amaryllidaceae		
5.	<i>Allium textile</i> A. Nelson & J.F. Macbride	Prairie Onion
Anacardiaceae		
6.	<i>Toxicodendron radicans</i> var. <i>rydbergii</i> (Small ex Rydberg) Erskine	Western Poison Ivy
Apiaceae		
7.	<i>Zizia aptera</i> (A. Gray) Fernald	Heart-leaved Alexanders
Apocynaceae		
8.	<i>Apocynum androsaemifolium</i> L. subsp. <i>androsaemifolium</i>	Spreading Dogbane
Araliaceae		
9.	<i>Aralia nudicaulis</i> L.	Wild Sarsaparilla
Asteraceae		
10.	<i>Achillea millefolium</i> L.	Yarrow
11.	<i>Almutaster pauciflorus</i> (Nuttall) Å. Löve & D. Löve	Alkali Marsh Aster
12.	<i>Antennaria microphylla</i> Rydberg	Small-leaved Pussytoes
13.	<i>Arctium tomentosum</i> Miller	Hairy Burdock
14.	<i>Artemisia campestris</i> subsp. <i>caudata</i> (Michaux) H.M. Hall & Clements	Field Wormwood
15.	<i>Artemisia frigida</i> Willdenow	Prairie Sagewort
16.	<i>Artemisia ludoviciana</i> Nuttall subsp. <i>ludoviciana</i>	White Sagebrush
17.	<i>Carduus nutans</i> subsp. <i>leiophyllus</i> (Petrovič) Stojanov & Stefanoff	Smooth-leaved Nodding Thistle
18.	<i>Cirsium arvense</i> (L.) Scopoli	Canada Thistle
19.	<i>Cirsium flodmanii</i> (Rydberg) Arthur	Prairie Thistle
20.	<i>Crepis runcinata</i> subsp. <i>glauca</i> (Nuttall) Babcock & Stebbins	Smooth Hawksbeard
21.	<i>Crepis tectorum</i> L.	Narrow-leaved Hawksbeard
22.	<i>Erigeron canadensis</i> L.	Canada Horseweed
23.	<i>Gaillardia aristata</i> Pursh	Great Blanket Flower
24.	<i>Gutierrezia sarothrae</i> (Pursh) Britton & Rusby	Matchweed
25.	<i>Helianthus maximiliani</i> Schrader	Narrow-leaved Sunflower
26.	<i>Helianthus nuttallii</i> Torrey & A. Gray subsp. <i>nuttallii</i>	Nuttall's Sunflower
27.	<i>Hieracium umbellatum</i> L.	Narrow-leaved Hawkweed
28.	<i>Lactuca serriola</i> L.	Prickly Lettuce
29.	<i>Mulgedium pulchellum</i> (Pursh) G. Don	Western Blue Lettuce

TABLE S1. Continued.

No.	Scientific name	Common name
30.	<i>Packera cana</i> (Hooker) W.A. Weber & Á. Löve	Woolly Groundsel
31.	<i>Ratibida columnifera</i> (Nuttall) Wooton & Standley	Long-headed Coneflower
32.	<i>Senecio integerrimus</i> Nuttall var. <i>integerrimus</i>	Western Groundsel
33.	<i>Solidago canadensis</i> L. var. <i>canadensis</i>	Canada Goldenrod
34.	<i>Solidago glutinosa</i> Nuttall	Western Sticky Goldenrod
35.	<i>Solidago missouriensis</i> Nuttall	Prairie Goldenrod
36.	<i>Sonchus arvensis</i> L.	Field Sow-thistle
37.	<i>Symphyotrichum boreale</i> (Torrey & A. Gray) Á. Löve & D. Löve	Rush Aster
38.	<i>Symphyotrichum ciliolatum</i> (Lindley) Á. Löve & D. Löve	Lindley's Blue Aster
39.	<i>Symphyotrichum ericoides</i> var. <i>pansum</i> (S.F. Blake) G.L. Nesom	Tufted White Prairie Aster
40.	<i>Symphyotrichum laeve</i> (L.) Á. Löve & D. Löve	Smooth Aster
41.	<i>Taraxacum officinale</i> F.H. Wiggers	Common Dandelion
42.	<i>Tragopogon dubius</i> Scopoli	Yellow Goatsbeard
Betulaceae		
43.	<i>Betula occidentalis</i> Hooker	Mountain Birch
44.	<i>Betula papyrifera</i> Marshall	Paper Birch
45.	<i>Betula pumila</i> var. <i>glandulifera</i> Regel	Northern Bog Birch
Boraginaceae		
46.	<i>Hackelia americana</i> (A. Gray) Fernald	Nodding Stickseed
Brassicaceae		
47.	<i>Boechera collinsii</i> (Fernald) Á. Löve & D. Löve	Collins' Suncrest
48.	<i>Boechera grahamii</i> (Lehmann) Windham & Al-Shehbaz	Graham's Rockcress
Campanulaceae		
49.	<i>Lobelia kalmii</i> L.	Kalm's Lobelia
Cannabaceae		
50.	<i>Humulus lupulus</i> L. var. <i>lupulus</i>	European Hop
Caprifoliaceae		
51.	<i>Lonicera dioica</i> var. <i>glaucescens</i> (Rydberg) Butters	Red Honeysuckle
52.	<i>Lonicera involucrata</i> (Richardson) Banks ex Sprengel var. <i>involucrata</i>	Bearberry Honeysuckle
53.	<i>Symphoricarpos albus</i> (L.) S.F. Blake var. <i>albus</i>	Common Snowberry
54.	<i>Symphoricarpos occidentalis</i> Hooker	Wolfberry
Caryophyllaceae		
55.	<i>Cerastium arvense</i> subsp. <i>strictum</i> Gaudin	American Field Chickweed
Celastraceae		
56.	<i>Parnassia palustris</i> L.	Marsh Grass-of-parnassus
Convolvulaceae		
57.	<i>Calystegia sepium</i> subsp. <i>angulata</i> Brummitt	Angled False Bindweed
Cornaceae		
58.	<i>Cornus sericea</i> L.	Red-osier Dogwood
Cupressaceae		
59.	<i>Juniperus horizontalis</i> Moench	Creeping Juniper
Cyperaceae		
60.	<i>Bolboschoenus maritimus</i> subsp. <i>paludosus</i> (A. Nelson) T. Koyama	Alkali Bulrush
61.	<i>Carex aquatilis</i> Wahlenberg	Water Sedge
62.	<i>Carex atherodes</i> Sprengel	Wheat Sedge
63.	<i>Carex aurea</i> Nuttall	Golden Sedge
64.	<i>Carex bebbii</i> (L.H. Bailey) Olney ex Fernald	Bebb's Sedge

TABLE S1. Continued.

No.	Scientific name	Common name
65.	<i>Carex concinna</i> R. Brown	Northern Elegant Sedge
66.	<i>Carex crawfordii</i> Fernald	Crawford's Sedge
67.	<i>Carex duriuscula</i> C.A. Meyer	Needle-leaved Sedge
68.	<i>Carex eburnea</i> Boott	Bristle-leaved Sedge
69.	<i>Carex filifolia</i> Nuttall	Thread-leaved Sedge
70.	<i>Carex interior</i> L.H. Bailey	Inland Sedge
71.	<i>Carex scirpoidea</i> Michaux subsp. <i>scirpoidea</i>	Single-spike Sedge
72.	<i>Carex viridula</i> Michaux subsp. <i>viridula</i>	Greenish Sedge
73.	<i>Carex vulpinoidea</i> Michaux	Fox Sedge
74.	<i>Eleocharis erythropoda</i> Steudel	Red-stemmed Spikerush
75.	<i>Eleocharis palustris</i> (L.) Roemer & Schultes	Common Spikerush
76.	<i>Eriophorum angustifolium</i> Honckey	Narrow-leaved Cottongrass
77.	<i>Schoenoplectus acutus</i> (Muhlenberg ex Bigelow) Á. Löve & D. Löve var. <i>acutus</i>	Hard-stemmed Bulrush
78.	<i>Schoenoplectus pungens</i> (Vahl) Palla var. <i>pungens</i>	Common Three-square Bulrush
79.	<i>Schoenoplectus tabernaemontani</i> (C.C. Gmelin) Palla	Soft-stemmed Bulrush
80.	<i>Trichophorum pumilum</i> (Vahl) Schinz & Thellung	Dwarf Clubrush
Elaeagnaceae		
81.	<i>Elaeagnus commutata</i> Bernhardt ex Rydberg	Wolf-willow
82.	<i>Shepherdia argentea</i> (Pursh) Nuttall	Silver Buffaloberry
83.	<i>Shepherdia canadensis</i> (L.) Nuttall	Soapberry
Equisetaceae		
84.	<i>Equisetum arvense</i> L.	Field Horsetail
Fabaceae		
85.	<i>Astragalus agrestis</i> Douglas ex G. Don	Field Milk-vetch
86.	<i>Astragalus flexuosus</i> (Hooker) Douglas ex G. Don	Flexible Milk-vetch
87.	<i>Dalea purpurea</i> Ventenat var. <i>purpurea</i>	Purple Prairie-clover
88.	<i>Glycyrrhiza lepidota</i> Pursh	Wild Licorice
89.	<i>Lathyrus ochroleucus</i> Hooker	Cream-coloured Vetchling
90.	<i>Melilotus albus</i> Medikus	White Sweet-clover
91.	<i>Melilotus officinalis</i> (L.) Lamarck	Yellow Sweet-clover
92.	<i>Thermopsis rhombifolia</i> (Nuttall ex Pursh) Richardson	Prairie Golden-banner
93.	<i>Vicia americana</i> Muhlenberg ex Willdenow var. <i>americana</i>	American Vetch
Gentianaceae		
94.	<i>Gentiana affinis</i> Grisebach	Pleated Gentian
95.	<i>Gentianella amarella</i> subsp. <i>acuta</i> (Michaux) J.M. Gillett	Marsh Gentian
96.	<i>Gentianopsis virgata</i> subsp. <i>macounii</i> (Holm) J.S. Pringle	Macoun's Fringed-gentian
Grossulariaceae		
97.	<i>Ribes oxycanthoides</i> L. var. <i>oxycanthoides</i>	Canada Gooseberry
Hippuridaceae		
98.	<i>Hippuris vulgaris</i> L.	Common Mare's-tail
Iridaceae		
99.	<i>Sisyrinchium montanum</i> Greene var. <i>montanum</i>	Strict Blue-eyed-grass
Juncaceae		
100.	<i>Juncus alpinoarticulatus</i> Chaix	Sparse-flowered Rush
101.	<i>Juncus balticus</i> subsp. <i>ater</i> (Rydberg) Snogerup	Dark Baltic Rush
102.	<i>Juncus bufonius</i> L.	Toad Rush

TABLE S1. Continued.

No.	Scientific name	Common name
103.	<i>Juncus dudleyi</i> Wiegand	Dudley's Rush
104.	<i>Juncus nodosus</i> L.	Knotted Rush
Juncaginaceae		
105.	<i>Triglochin maritima</i> L.	Seaside Arrowgrass
Lamiaceae		
106.	<i>Lycopus asper</i> Greene	Rough Water-horehound
107.	<i>Lycopus uniflorus</i> Michaux	Northern Water-horehound
108.	<i>Mentha canadensis</i> L.	Canada Mint
Liliaceae		
109.	<i>Lilium philadelphicum</i> L.	Wood Lily
110.	<i>Maianthemum stellatum</i> (L.) Link	Star-flowered False Solomon's-seal
111.	<i>Triantha glutinosa</i> (Michaux) Baker	Sticky Tofieldia
Linaceae		
112.	<i>Linum lewisii</i> Pursh var. <i>lewisii</i>	Lewis' Wild Blue Flax
Melanthiaceae		
113.	<i>Anticlea elegans</i> (Pursh) Rydberg	Mountain Death-camas
Ophioglossaceae		
114.	<i>Botrychium campestre</i> W.H. Wagner & Farrar var. <i>campestre</i>	Prairie Moonwort
115.	<i>Botrychium onondagense</i> Underwood (= <i>Botrychium lunaria</i> (L.) Swartz var. <i>onondagense</i> (Underwood) House)	Onondaga Moonwort
116.	<i>Botrypus virginianus</i> (L.) Michaux (= <i>Botrychium virginianum</i> (L.) Swartz)	Rattlesnake Fern
Orchidaceae		
117.	<i>Coeloglossum viride</i> (L.) Hartman	Frog Orchid
118.	<i>Corallorhiza striata</i> Lindley var. <i>striata</i>	Striped Coralroot
119.	<i>Cypripedium parviflorum</i> var. <i>pubescens</i> (Willdenow) O.W. Knight	Large Yellow Lady's-slipper
120.	<i>Liparis loeselii</i> (L.) Richard	Loesel's Twayblade
121.	<i>Platanthera aquilonis</i> Sheviak	Tall Northern Green Orchid
122.	<i>Spiranthes romanzoffiana</i> Chamisso	Hooded Ladies'-tresses
Plantaginaceae		
123.	<i>Plantago eriopoda</i> Torrey	Saline Plantain
124.	<i>Plantago major</i> L.	Common Plantain
Poaceae		
125.	<i>Agropyron cristatum</i> subsp. <i>pectinatum</i> (M. Bieberstein) Tzvelev	Comb Wheatgrass
126.	<i>Agrostis scabra</i> Willdenow	Rough Bentgrass
127.	<i>Agrostis stolonifera</i> L.	Creeping Bentgrass
128.	<i>Alopecurus geniculatus</i> L.	Water Foxtail
129.	<i>Beckmannia syzigachne</i> (Steudel) Fernald	American Sloughgrass
130.	<i>Bouteloua gracilis</i> (Kunth) Lagasca ex Griffiths	Blue Grama
131.	<i>Bromus inermis</i> Leysser	Smooth Brome
132.	<i>Bromus pumpellianus</i> Scribner	Pumpelly's Brome
133.	<i>Calamagrostis canadensis</i> (Michaux) Palisot de Beauvois	Bluejoint Reedgrass
134.	<i>Calamagrostis stricta</i> (Timm) Koeler subsp. <i>stricta</i>	Slim-Stemmed Reedgrass
135.	<i>Distichlis spicata</i> (L.) Greene	Saltgrass
136.	<i>Elymus trachycaulus</i> (Link) Gould ex Shinners subsp. <i>trachycaulus</i>	Slender Wheatgrass
137.	<i>Glyceria striata</i> (Lamarck) Hitchcock var. <i>striata</i>	Fowl Mannagrass
138.	<i>Helictochloa hookeri</i> (Scribner) Romero Zarco	Hooker's Oatgrass
139.	<i>Hesperostipa comata</i> (Trinius & Ruprecht) Barkworth	Needle-and-thread Grass

TABLE S1. *Continued.*

No.	Scientific name	Common name
140.	<i>Hordeum jubatum</i> L. var. <i>jubatum</i>	Foxtail Barley
141.	<i>Muhlenbergia richardsonis</i> (Trinius) Rydberg	Richardson's Muhly
142.	<i>Nassella viridula</i> (Trinius) Barkworth	Green Needlegrass
143.	<i>Pascopyrum smithii</i> (Rydberg) Barkworth & D.R. Dewey	Western Wheatgrass
144.	<i>Phalaris arundinacea</i> L.	Reed Canarygrass
145.	<i>Poa compressa</i> L.	Flat-stemmed Bluegrass
146.	<i>Poa palustris</i> L.	Fowl Bluegrass
147.	<i>Poa pratensis</i> L. subsp. <i>pratensis</i>	Kentucky Bluegrass
Polygonaceae		
148.	<i>Rumex britannica</i> L.	Greater Water Dock
149.	<i>Rumex fueginus</i> Philippi	American Golden Dock
Potamogetonaceae		
150.	<i>Potamogeton pusillus</i> L.	Small Pondweed
Primulaceae		
151.	<i>Lysimachia maritima</i> (L.) Galasso, Banfi & Soldano	Sea Milkwort
152.	<i>Primula incana</i> M.E. Jones	Mealy Primrose
153.	<i>Primula pauciflora</i> (Greene) A.R. Mast & Reveal var. <i>pauciflora</i>	Pretty Shootingstar
Pyrolaceae		
154.	<i>Pyrola asarifolia</i> Michaux subsp. <i>asarifolia</i>	Pink Pyrola
Ranunculaceae		
155.	<i>Actaea rubra</i> (Aiton) Willdenow	Red Baneberry
156.	<i>Anemone cylindrica</i> A. Gray	Long-headed Anemone
157.	<i>Anemone multifida</i> Poirer	Cut-leaved Anemone
158.	<i>Pulsatilla nuttalliana</i> (de Candolle) Berchtold ex J. Presl	Prairie Pasqueflower
159.	<i>Ranunculus gmelinii</i> de Candolle	Gmelin's Buttercup
Rosaceae		
160.	<i>Amelanchier alnifolia</i> (Nuttall) Nuttall ex M. Roemer	Saskatoon
161.	<i>Argentina anserina</i> (L.) Rydberg subsp. <i>anserina</i>	Silverweed
162.	<i>Crataegus chrysocarpa</i> Ashe var. <i>chrysocarpa</i>	Fireberry Hawthorn
163.	<i>Dasiphora fruticosa</i> (L.) Rydberg	Shrubby Cinquefoil
164.	<i>Fragaria virginiana</i> subsp. <i>glauca</i> (S. Watson) Staudt	Smooth Wild Strawberry
165.	<i>Potentilla bipinnatifida</i> Douglas nom. cons.	Bipinnate Cinquefoil
166.	<i>Prunus virginiana</i> L. var. <i>virginiana</i>	Chokecherry
167.	<i>Rosa acicularis</i> Lindley	Prickly Rose
168.	<i>Rosa arkansana</i> Porter	Prairie Rose
169.	<i>Rosa woodsii</i> Lindley subsp. <i>woodsii</i>	Woods' Rose
Rubiaceae		
170.	<i>Galium boreale</i> L.	Northern Bedstraw
171.	<i>Galium triflorum</i> Michaux	Three-flowered Bedstraw
Ruppiaceae		
172.	<i>Ruppia cirrhosa</i> (Petagna) Grande	Spiral Ditchgrass
Salicaceae		
173.	<i>Populus balsamifera</i> L.	Balsam Poplar
174.	<i>Populus tremuloides</i> Michaux	Trembling Aspen
175.	<i>Salix bebbiana</i> Sargent	Bebb's Willow
176.	<i>Salix brachycarpa</i> Nuttall var. <i>brachycarpa</i>	Short-capsuled Willow
177.	<i>Salix candida</i> Fluegge ex Willdenow	Sage Willow

TABLE S1. Continued.

No.	Scientific name	Common name
178.	<i>Salix discolor</i> Muhlenberg	Pussy Willow
179.	<i>Salix famelica</i> (C.R. Ball) Argus	Starved Willow
180.	<i>Salix interior</i> Rowlee	Sandbar Willow
181.	<i>Salix maccalliana</i> Rowlee	McCalla's Willow
Santalaceae		
182.	<i>Comandra umbellata</i> (L.) Nuttall subsp. <i>umbellata</i>	Bastard Toadflax
Saxifragaceae		
183.	<i>Heuchera richardsonii</i> R. Brown	Richardson's Alumroot
Scrophulariaceae		
184.	<i>Penstemon gracilis</i> Nuttall	Slender Beardtongue
Selaginellaceae		
185.	<i>Selaginella densa</i> Rydberg	Prairie Spikemoss
Typhaceae		
186.	<i>Typha latifolia</i> L.	Broad-leaved Cattail
Ulmaceae		
187.	<i>Ulmus pumila</i> L.	Siberian Elm
Violaceae		
188.	<i>Viola adunca</i> Smith var. <i>adunca</i>	Hooked Violet
189.	<i>Viola canadensis</i> var. <i>rugulosa</i> (Greene) C.L. Hitchcock	Rugose Violet
190.	<i>Viola nephrophylla</i> Greene	Northern Bog Violet

TABLE S2. Floristic composition of threatened habitats (marl fens; Critically Imperilled [G1], according to USNVC n.d.) at the Redberry Lake Flats, Saskatchewan, Canada.

	Scientific name	Common name
1.	<i>Agrostis scabra</i> Willdenow	Rough Bentgrass
2.	<i>Almutaster pauciflorus</i> (Nuttall) Á. Löve & D. Löve	Alkali Marsh Aster
3.	<i>Alopecurus geniculatus</i> L.	Water Foxtail
4.	<i>Anticlea elegans</i> (Pursh) Rydberg	Mountain Death-camas
5.	<i>Argentina anserina</i> (L.) Rydberg subsp. <i>anserina</i>	Silverweed
6.	<i>Beckmannia syzigachne</i> (Steudel) Fernald	American Sloughgrass
7.	<i>Betula occidentalis</i> Hooker	Water Birch
8.	<i>Betula pumila</i> var. <i>glandulifera</i> Regel	Northern Bog Birch
9.	<i>Calamagrostis stricta</i> (Timm) Koeler subsp. <i>stricta</i>	Slim-Stemmed Reedgrass
10.	<i>Carex aquatilis</i> Wahlenberg	Water Sedge
11.	<i>Carex aurea</i> Nuttall	Golden Sedge
12.	<i>Carex interior</i> L.H. Bailey	Inland Sedge
13.	<i>Carex scirpoidea</i> Michaux subsp. <i>scirpoidea</i>	Single-spike Sedge
14.	<i>Carex viridula</i> Michaux subsp. <i>viridula</i>	Greenish Sedge
15.	<i>Cicuta maculata</i> L. var. <i>maculata</i>	Spotted Water-hemlock
16.	<i>Coeloglossum viride</i> (L.) Hartman	Frog Orchid
17.	<i>Cornus sericea</i> L.	Red-osier Dogwood
18.	<i>Cypripedium parviflorum</i> var. <i>pubescens</i> (Willdenow) O.W. Knight	Large Yellow Lady's-slipper
19.	<i>Dasiphora fruticosa</i> (L.) Rydberg	Shrubby Cinquefoil
20.	<i>Eleocharis erythropoda</i> Steudel	Red-stemmed Spikerush
21.	<i>Eleocharis palustris</i> (L.) Roemer & Schultes	Common Spikerush
22.	<i>Eleocharis quinqueflora</i> (Hartmann) O. Schwarz	Few-flowered Spikerush

TABLE S2. Continued.

Scientific name	Common name
23. <i>Epilobium palustre</i> L.	Marsh Willowherb
24. <i>Eriophorum angustifolium</i> Honckeney	Narrow-leaved Cottongrass
25. <i>Equisetum hyemale</i> subsp. <i>affine</i> (Engelmann) Calder & Roy L. Taylor	American Tall Scouring-rush
26. <i>Gentiana affinis</i> Grisebach	Pleated Gentian
27. <i>Gentianopsis virgata</i> subsp. <i>macounii</i> (Holm) J.S. Pringle	Macoun's Fringed-gentian
28. <i>Halerpestes cymbalaria</i> (Pursh) Greene	Seaside Buttercup
29. <i>Hippuris vulgaris</i> L.	Common Mare's-tail
30. <i>Juncus alpinoarticulatus</i> Chaix	Northern Green Rush
31. <i>Juncus balticus</i> subsp. <i>ater</i> (Rydberg) Snogerup	Dark Baltic Rush
32. <i>Juncus longistylis</i> Torrey	Long-Styled Rush
33. <i>Lilium philadelphicum</i> L.	Wood Lily
34. <i>Liparis loeselii</i> (L.) Richard	Loesel's Twayblade
35. <i>Lobelia kalmii</i> L.	Kalm's Lobelia
36. <i>Lycopus asper</i> Greene	Rough Water-horehound
37. <i>Parnassia palustris</i> L.	Marsh Grass-of-parnassus
38. <i>Platanthera aquilonis</i> Sheviak	Tall Northern Green Orchid
39. <i>Poa palustris</i> L. subsp. <i>palustris</i>	Fowl Bluegrass
40. <i>Primula pauciflora</i> (Greene) A.R. Mast & Reveal var. <i>pauciflora</i>	Pretty Shootingstar
41. <i>Rubus pubescens</i> Rafinesque	Dwarf Raspberry
42. <i>Salix brachycarpa</i> Nuttall var. <i>brachycarpa</i>	Short-capsuled Willow
43. <i>Salix candida</i> Flügge ex Willdenow	Sage Willow
44. <i>Salix famelica</i> (C.R. Ball) Argus	Starved Willow
45. <i>Schoenoplectus tabernaemontani</i> (C.C. Gmelin) Palla	Soft-stemmed Bulrush
46. <i>Sisyrinchium montanum</i> Greene var. <i>montanum</i>	Strict Blue-eyed-grass
47. <i>Spiranthes romanzoffiana</i> Chamisso	Hooded Ladies'-tresses
48. <i>Symphyotrichum boreale</i> (Torrey & A. Gray) Á. Löve & D. Löve	Rush Aster
49. <i>Triantha glutinosa</i> (Michaux) Baker	Sticky Tofieldia
50. <i>Trichophorum pumilum</i> (Vahl) Schinz & Thellung	Dwarf Clubrush
51. <i>Triglochin maritima</i> L.	Seaside Arrowgrass
52. <i>Viola nephrophylla</i> Greene	Northern Bog Violet
53. <i>Zizia aptera</i> (A. Gray) Fernald	Heart-leaved Alexanders

TABLE S3. Threats to rare plants and sensitive habitats at the Redberry Lake Flats, Saskatchewan, Canada.

Threat category		Species affected (no. from Table 2)	Threat level	Comments
2. Agriculture & Aquaculture	2.1 Annual & perennial non-timber crops	1, 8	Moderate	Cultivation extends to site edges, with cropland activity evident; further expansion on unprotected parcels could fragment habitat and reduce resilience.
	2.3 Livestock farming & ranching	1, 6, 8, 9, 10	High	Intensive grazing and trampling signs were evident on private and Crown land; continued intensive grazing may further disturb vegetation structure and sensitive microsites.
6. Human Intrusions & Disturbance	6.1 Recreational activities (foot traffic, informal trails)	2, 7, 8, 9, 10, 12	Low	Informal trails and footpaths were noticeable near lakeshore habitats; increased visitor pressure could intensify trampling and compact soils in fragile plant areas.
7. Natural System Modifications	7.2 Dams & Water Management/ Use	3, 4, 9, 10, 11, 12	High	Fen margins appeared vulnerable with sensitive hydrological balance; future groundwater or marsh-level changes could degrade these specialized habitats.
8. Invasive & Other Problematic Species, Genes & Diseases	8.1 Invasive Non-Native/Alien Species/ Diseases	1, 6, 7, 8, 9, 10, 12	Moderate	Patches of invasive grasses were visible in meadows; unchecked spread may outcompete native flora and displace rare plants.
	8.2 Problematic Native Species/Diseases	2, 5, 6, 7, 8	High	Shrub and small tree encroachment was noticeable in open habitats; if left unmanaged, succession could shade microsites and reduce habitat suitability.
9. Pollution	9.3 Agricultural & Forestry Effluents	1, 8, 9, 10, 12	Moderate	Runoff influence was apparent near fen margins; intensifying fertilizer use could worsen nutrient loading and alter delicate wetland plant communities.