



# BLUE JAY

Volume 70 Number 3

September 2012

*Nature*  
SASKATCHEWAN

Publication Mail Agreement #40063014  
Return Undeliverable Canadian Addresses to:  
Administration Centre Printing Services  
111-2001 Cornwall Street  
Regina, SK S4P 3X9  
Email: [adminprint@sasktel.net](mailto:adminprint@sasktel.net)





*Cladonia arbuscula*

Bernard de Vries



*Vulpicida pinastri*

Bernard de Vries



*Stereocaulon tomentosum*

Bernard de Vries



Mystery Photo(s)

Myrna Townsend

# Blue Jay

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*Muskrat*

Randy McCulloch

**Front Cover:** *Cladonia cristatella*, Bernard de Vries

**Back Cover:** Whooping Cranes with visible transmitters, Kim Mann

# Blue Jay Index 2000 – 2009 (Volumes 58 - 67)

TERESA DOLMAN

## Foreword

This 2000-2009 cumulative index is patterned on the last cumulative index (1990-1999). It is composed of two parts: an Author Index and a Subject Index. The location of every item referenced throughout both parts is given by the year of publication, followed by the page number and then the first letter of the month of issue (M/J/S/D). For example, *Additional Saskatchewan Sphinx Moth Records*, which begins on page 157 of the September 2001 issue, is indexed as 2001:157S. The page number given is, therefore, the first page of the article in which the indexed subject can be found. In contrast, the page number given for a photograph, drawing or map is the exact page on which the item will be found.

Under each author's or illustrator's name in the Author Index, sole-authored entries are listed first, in chronological order. Then, if applicable, multi-authored entries are listed, again chronologically. Finally, if the author has co-authored an article but is not the lead author, the lead author's name is listed at the end preceded by "See" to direct readers to the full entry which is given under the lead author's name.

In order to facilitate the search for an item in the Subject Index, all the major headings can be seen at a glance at the beginning of that section and all these headings appear in boldface type within the Subject Index. Two practices initiated in the last cumulative index are again followed in order to keep the Subject Index to a manageable length. Firstly, subspecies names are indexed only when the subspecies itself is at issue. Secondly, species presented in annotated lists are not indexed unless they are distinguished for reasons beyond their presence in the list. For the user of the index, this means that if you are looking

for all references to, for example, Great Horned Owl, you should first look for that name under "Birds > Particular species" and then you should check the articles listed under "Birds > Counts, surveys & lists" for any reference to or listing of Great Horned Owl.

In the listings of "Particular species", the subheadings under each species' name reflect the salient aspects presented in the articles, such as Breeding, Behaviour, Distribution, Colour variant, etc. In many articles, however, it is the very presence of the species that is being remarked upon (for example, records of rare or uncommon species) in which case the term Occurrence is used. The subheading Drawing includes line drawings, watercolours and acrylic paintings.

Common names are used for butterflies and for vertebrates. Butterfly names follow *Butterflies of Canada* by Layberry *et al.* (1998); amphibian and reptile names follow *Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico* by Crother *et al.* (2008); bird names follow *Check-list of North American Birds* by the American Ornithologists' Union (7th edition and up to the 53rd supplement); and mammal names follow *Mammal Species of the World* by Wilson and Reeder (2005). For vascular plants, algae, mosses, bacteria, fungi, lichens and all invertebrates other than butterflies, each species is indexed under its scientific name (with common name, if given by the author, in parentheses). When no scientific name was provided in *Blue Jay*, the species is indexed under the common name given by the author or illustrator. Unavoidably, this has led to instances where a single species may be listed in several ways. For example, *Quercus macrocarpa* is indexed under its scientific name and under Oak, Bur.

Abbreviations that are used are: AB (Alberta), BC (British Columbia), CBC (Christmas Bird Count), CMC (Christmas Mammal Count), MB (Manitoba) and SK (Saskatchewan).

Anna Leighton performed the time-consuming task of checking all entries in the index against the original entries in

*Blue Jay*. She caught many errors and had numerous suggestions to make the index more consistent in format and more readable – thank you, Anna! Of course, I take full responsibility for any errors that may remain.

Teresa Dolman

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 \_\_\_ and M.V.S. Raju. *Nostoc*, a Little-known Important Alga in the Saskatchewan Prairies. 2000:86J  
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- Dombroskie, Jason J. *Ladybugs of Alberta: Finding the Spots and Connecting the Dots.* (review) 2007:123J
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- Gérard, André. Highest Swainson's Hawk Nest Recorded in Saskatchewan. 2007:115J
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- \_\_\_ and P. Naomi Gerrard, Elston H. Dzus, Gary R. Bortolotti, Emily Scragg. Population Changes in Water-associated Birds at Besnard Lake, SK, 1976-2005. 2006:149S
- \_\_\_ and Naomi Gerrard. Preliminary Observations on the Possible Influence of Toxic Mine Waste on Bird Populations of Kississing Lake, MB. 2006:203D
- Gerrard, Nikki. *Mice in the Freezer, Owls on the Porch: The Lives of Naturalists Frederick and Frances Hamerstrom.* (review) 2003:224D
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- Gilliland, Mary. *Whose Bird? Common Bird Names and the People They Commemorate*. (review) 2004:122J
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- Gollop, J. B. (Bernard, Bernie). *Whither Blue Jay?* (editorial) 2000:iiJ
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- \_\_\_ *Butterflies of North Dakota: An Atlas and Guide*. (review) 2003:228D
- \_\_\_ and Anna Leighton. Results of the 2005 International Butterfly Counts in Saskatchewan. 2005:193D
- \_\_\_ and Anna Leighton. Results of the 2006 International Butterfly Counts in Saskatchewan. 2007:89J; corrigendum 2007:130S
- \_\_\_ and Anna Leighton. Results of the 2007 International Butterfly Counts in Saskatchewan. 2007:211D
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- Gordon, Jeffrey A. Photo: Black-tailed Gull at Churchill, MB. 2008:142S
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- \_\_\_ and Elizabeth Reimer. Additional Roundleaf Monkey-flower Populations in Manitoba. 2002:224D
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- \_\_\_ and Elizabeth Reimer. The St. Lazare Area of Manitoba: A Biodiversity Hotspot. 2004:203D
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- \_\_\_ and Patrick Fargey, Shelly Pruss, Felix Sperling. Early Sighting of a Rare Butterfly, Mormon Metalmark, in Grasslands National Park, SK. 2008:105J
- Hendra, Leslie. Kenneth Bowman, Alberta Lepidopterist. 2005:168D
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- Herzog, Jason. Photo: Common Crane photographed north of Leader. 2004:6M
- Hjertaas, Dale and Paule Hjertaas. Observations from Banding House Finches in the Fall of 1995 at Regina, SK. 2001:86J
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- \_\_\_ and Helen E. Trefry, Enrique Valdez, Jerry Batey. Predation Triad: Prairie Falcon, American Kestrel and Horned Lark. 2006:104J
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- Hooper, Ronald (Ron) R. Additional Saskatchewan Sphinx Moth Records. 2001:157S
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- \_\_\_ and J. Frank Roy, Alex Dzubin. J. Bernard "Bernie" Gollop, 1926-2000. (in memoriam) 2000:109J
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- \_\_\_ and Mary I. Houston. Slow Northward Spread of the Lark Sparrow. 2001:40M
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- \_\_\_ and Marten J. Stoffel, Alan R. Smith. Three Turkey Vulture Pairs Nest in Saskatoon Bird Area. 2002:206D
- \_\_\_ and Ken D. de Smet, Douglas M. Collister. Loggerhead Shrike Banding on the Prairies. 2003:40M; corrigendum 2003:128J
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- \_\_\_ and Geoffrey L. Holroyd, Brenton Terry, Michael Blom, Marten J. Stoffel. Tracking Saskatchewan Nestling Turkey Vultures. 2007:201D
- \_\_\_ and David R. Barber, Brenton Terry, Marten J. Stoffel, Michael Blom, James Mandel, Keith I. Bildstein. Hourly Distances and Altitudes of a Recently-fledged Turkey Vulture on its First Southbound Migration. 2008:148S
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- \_\_\_ See Houston, Mary I.
- \_\_\_ See Stoffel, Marten J.
- Houston, Mary I. *Birds at Your Feeder: A Guide to Feeding Habits, Behavior, Distribution and Abundance*. (review) 2000:156S
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- Hudson, John H. Four Introduced Species New to Saskatchewan from the 1990s. 2000:91J
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- \_\_\_ and James R. Duncan. The Dragonflies of Manitoba: An Updated Species List. 2003:168S
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- \_\_\_ Additions to the Bird List of Manitoba (1997-2007). 2008:139S
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 \_\_\_ and Ted Leighton. Guidelines for Authors. 2000:55M; 2004:174S  
 \_\_\_ and Ted Leighton. Editors' Messages. 2000:iiJ, iiD; 2001:iiD; 2003:192D; 2005:167D; 2006:185D; 2008:67J, 195D  
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 \_\_\_ and Ted Leighton. Nature Saskatchewan 2002 Cliff Shaw Award. 2002:234D  
 \_\_\_ and Ted Leighton. *Blue Jay* and Natural History. (editorial). 2008:67J  
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Breeding 2000:29M  
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Egret, Cattle  
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Map 2006:129S  
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Number 2006:126S; 2007:67J;  
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Egret, Great  
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Occurrence 2001:33M; 2004:182D;  
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Photo 2007:71J  
Status 2007:67J

Egret, Snowy  
Occurrence 2001:33M; 2006:191D  
Status 2007:67J

Eider, Common  
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Eider, King  
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Falcon, Peregrine  
Drawing 2003:220-221D  
Predation by 2000:125S  
Status 2007:179D

Falcon, Prairie  
Behaviour 2007:54M  
Breeding 2007:112J  
Early record (pre-1950) 2007:179D  
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Predation by 2006:104J  
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Finch, House  
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Finch, Purple  
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Flicker, Northern  
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Plumage 2004:182D  
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Status 2007:179D

Flycatcher, Ash-throated  
Occurrence 2008:139S

Flycatcher, Least  
Behaviour 2003:130S; 2004:211D  
Breeding 2004:211D  
Mortality 2001:64J  
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Flycatcher, Scissor-tailed

- Photo 2008:December inside front cover
- Gadwall  
Breeding 2000:65J  
Status 2007:179D
- Gnatcatcher, Blue-gray  
Cowbird host 2004:24M
- Godwit, Bar-tailed  
Occurrence 2008:139S
- Godwit, Hudsonian  
Number 2002:199D
- Godwit, Marbled  
Breeding 2000:65J  
Map 2009:69J  
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Mortality 2009:68J  
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Photo 2009:68J, 70J  
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- Goldeneye  
Photo 2003:188S
- Goldeneye, Barrow's  
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- Goldeneye, Common  
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Mortality 2005:204D  
Number 2006:149S, 203D  
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Status 2007:179D
- Golden-Plover, American  
Drawing 2008:September inside back cover  
Number 2002:199D
- Goldfinch, European  
Occurrence 2008:139S
- Goose, Cackling  
CBC 2005:2M; 2006:2M; 2008:3M  
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Status 2007:179D
- Goose, Canada  
Behaviour 2008:117J  
Breeding 2000:65J  
Drawing 2002:96-97J  
Number 2000:65J; 2006:149S  
Photo 2004:45M; 2006:103J; 2007:187D  
Predation on 2000:65J; 2008:117J  
Status 2007:179D
- Goose, Ross's  
Colour variant 2003:181S  
Drawing 2008:159S  
Occurrence 2004:219D  
Photo 2008:139S
- Goose, Snow  
Breeding 2000:65J  
Drawing 2007:172S; 2008:159S, 162S  
Photo 2001:March front and back covers; 2002:March back cover; 2004:September front and back covers  
Status 2007:179D
- Goose, White-fronted  
Drawing 2007:172S
- Goshawk, Northern  
Behaviour 2008:117J  
Number 2002:192D  
Occurrence 2005:156S  
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Predation by 2000:53M; 2001:161S; 2008:117J
- Grackle, Common  
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- Grebe, Clark's  
Number 2009:26M  
Photo 2009:March inside front cover
- Grebe, Clark's X Western  
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Number 2009:26M  
Photo 2009:March inside front cover, March back cover
- Grebe, Eared  
Behaviour 2009:225D  
Breeding 2000:137S; 2006:29M; 2008:70J  
Mortality 2000:137S  
Photo 2009:226-228D
- Grebe, Horned  
Drawing 2006:94-95J  
Status 2007:179D
- Grebe, Pied-billed  
CBC 2002:2M  
Predation on 2000:125S  
Status 2007:179D
- Grebe, Red-necked  
Breeding 2002:30M  
Distribution 2002:30M  
Map 2002:33M  
Number 2006:149S  
Photo 2002:31M  
Status 2007:179D
- Grebe, Western  
Breeding 2000:65J, 137S; 2006:29M; 2008:70J  
Mortality 2000:137S  
Occurrence 2009:26M  
Photo 2000:138S; 2009:March inside front cover

Status 2007:179D  
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 Clark's X Western  
 Grosbeak, Black-headed  
 Occurrence 2006:191D  
 Grosbeak, Evening  
 Photo 2000:157S  
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 Colour variant 2007:220D  
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 Grosbeak, Rose-breasted  
 Breeding 2000:153S  
 Grouse, Ruffed  
 Behaviour 2002:178S  
 Colour variant 2009:5M  
 Drawing 2003:132S  
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 Grouse, Sharp-tailed  
 Early record (pre-1950) 2004:38M  
 Number 2002:192D; 2006:155S  
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 Grouse, Sharp-tailed X Greater Prairie-  
 Chicken – See Prairie-Chicken,  
 Greater X Sharp-tailed Grouse  
 Grouse, Spruce  
 Photo 2006:December front cover  
 Guillemot, Black  
 Occurrence 2004:182D  
 Status 2007:179D  
 Gull, Black-tailed  
 Occurrence 2008:139S  
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 Gull, Bonaparte's  
 Breeding 2001:29M; 2005:79J  
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 Map 2001:31M  
 Number 2006:149S  
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 Gull, California  
 Breeding 2000:65J  
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 Number 2000:65J  
 Gull, Franklin's  
 Behaviour 2006:215D  
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 Gull, Glaucous  
 Occurrence 2001:33M  
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 Status 2007:179D  
 Gull, Glaucous-winged  
 Occurrence 2003:182S  
 Gull, Herring  
 Breeding 2000:65J  
 Number 2000:65J  
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 Gull, Iceland  
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 Gull, Ivory  
 Early record (pre-1950) 2004:182D;  
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 Photo 2004:189D  
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 Gull, Little  
 Occurrence 2001:33M  
 Gull, Mew  
 Occurrence 2001:33M  
 Gull, Ring-billed  
 Banding 2006:131S  
 Behaviour 2000:127S  
 Breeding 2000:65J  
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 Photo 2000:68J; 2006:133S  
 Status 2007:179D  
 Gull, Ross's  
 Occurrence 2003:30M  
 Photo 2003:31M  
 Gull, Slaty-backed  
 Occurrence 2008:139S; 2009:114J  
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 Gull, Thayer's  
 Status 2007:179D  
 Gull, "White-headed"  
 Number 2006:149S, 203D  
 Gyrfalcon  
 Occurrence 2001:33M  
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 Behaviour 2008:50M  
 Number 2008:131S  
 Predation on 2008:50M  
 Status 2007:179D  
 Hawk  
 Drawing 2003:September front cover  
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Breeding 2003:33M; 2008:206D  
Number 2003:33M  
Photo 2001:162S; 2003:March front cover, 37M; 2008:206D, 208D  
Predation by 2001:161S  
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Behaviour 2004:130S  
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Hawk Owl – See Owl, Northern Hawk

Hawk, Red-shouldered  
Status 2007:179D

Hawk, Red-tailed  
Banding 2001:101J; 2005:26M  
Breeding 2005:26M; 2007:112J  
CBC 2000:2M  
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Nesting phenology 2005:26M  
Number 2007:78J  
Occurrence 2008:131S  
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Predation by 2007:78J  
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Hawk, Rough-legged  
Number 2004:219D  
Occurrence 2008:131S  
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Hawk, Sharp-shinned  
Photo 2001:162S; 2007:189D  
Predation by 2005:114J; 2006:106J  
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Mortality 2005:31M  
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Nest 2007:115J  
Nesting phenology 2005:26M  
Number 2001:207D; 2004:49M; 2005:40M; 2007:78J, 138S  
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Predation by 2007:78J

Heron, Great Blue  
Breeding 2000:65J, 81J, 151S  
CBC 2002:2M; 2003:2M  
Distribution 2000:81J  
Drawing 2002:160-161S  
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Map 2000:83J  
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Occurrence 2007:163S  
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Heron, Green  
Occurrence 2006:191D

Heron, Little Blue  
Occurrence 2006:191D  
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Heron, Tricolored  
Occurrence 2007:111J  
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Hummingbird, Black-chinned  
Occurrence 2007:221D

Hummingbird, Broad-tailed  
Occurrence 2006:191D; 2008:139S  
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Hummingbird, Ruby-throated  
Nest 2004:74J  
Photo 2004:75J; 2006:171S  
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Ibis, White-faced  
Breeding 2006:64J; 2008:31M, 75J  
Distribution 2008:31M  
Early record (pre-1950) 2008:31M  
Map 2008:31M  
Number 2006:64J; 2007:67J; 2008:75J  
Occurrence 2001:33M; 2006:191D  
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Jaeger  
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Jaeger, Parasitic  
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Jaeger, Pomarine  
Occurrence 2004:182D  
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Jay, Blue  
Drawing 2007:53M  
Number 2002:192D  
Occurrence 2008:50M  
Plumage 2007:53M

Jay, Gray  
Breeding 2000:101J, 153S

Jay, Pinyon  
Occurrence 2008:139S

Junco, Dark-eyed  
Banding 2003:57M  
Colour variant 2006:174S  
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Kestrel, American  
Banding 2007:218D; 2008:206D  
Behaviour 2001:163S  
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Kingfisher  
Drawing 2006:96J

Kingfisher, Belted  
CBC 2002:2M; 2003:2M  
Number 2006:149S, 203D  
Occurrence 2001:33M  
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Kinglet, Ruby-crowned  
CBC 2006:2M

Kite, White-tailed  
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Kittiwake, Black-legged  
Occurrence 2004:182D

Knot, Red  
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Lark, Horned  
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Loon, Common  
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Loon, Red-throated  
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Magpie, Black-billed  
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Behaviour 2005:77J  
Colour variant 2007:152-153S  
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Meadowlark, Western  
Early record (pre-1950) 2004:38M  
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Merganser  
Number 2006:149S, 203D

Merganser, Common  
Behaviour 2006:105J  
Breeding 2000:65J  
Status 2007:179D

Merganser, Hooded  
Breeding 2006:105J  
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Status 2007:179D

Merganser, Red-breasted  
Breeding 2000:65J  
Early record (pre-1950) 2007:179D  
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Merlin  
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Drawing 2004:212D  
Mortality 2003:33M

Number 2002:192D; 2003:33M  
 Occurrence 2008:206D  
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 Mockingbird, Northern  
 Abnormality 2000:101J  
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 Occurrence 2001:33M; 2004:66J;  
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 Status 2007:67J  
 Night-Heron, Yellow-crowned  
 Occurrence 2006:191D  
 Nutcracker, Clark's  
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 Nuthatch, Pygmy  
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 Nuthatch, Red-breasted  
 Breeding 2000:151S  
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 Nuthatch, White-breasted  
 Behaviour 2000:152S  
 Drawing 2001:December back cover  
 Oriole, Orchard  
 Occurrence 2004:182D  
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 Banding 2001:182D; 2007:133S  
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 Number 2006:149S  
 Occurrence 2001:33M  
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 Predation by 2003:126J  
 Telemetry 2002:74J; 2004:214D  
 Owl, Barn  
 Early record (pre-1950) 2004:182D;  
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 Map 2001:122S  
 Occurrence 2000:106J; 2001:122S  
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 Occurrence 2004:66J  
 Photo 2000:69J  
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 Owl, Boreal  
 Banding 2009:34M  
 Occurrence 2004:71J, 182D;  
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 Owl, Burrowing  
 Behaviour 2005:203D  
 Breeding 2000:191D  
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 Habitat 2002:135S; 2005:66J;  
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 Owl, Great Gray  
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 Breeding 2001:129S  
 Number 2001:129S  
 Occurrence 2001:33M; 2008:177S  
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 130-132S; 2005:113J; 2007:23M;  
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Owl, Northern Hawk  
 Occurrence 2001:33M; 2004:182D  
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Owl, Northern Saw-whet  
 Banding 2003:219D; 2009:34M  
 Behaviour 2000:148S  
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 Food 2002:130S; 2005:71J; 2009:54M  
 Nest box 2005:71J  
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 Photo 2000:September front and back  
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Owl, Short-eared  
 Mortality 2006:168S  
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Owl, Snowy  
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 Ectoparasite 2006:56M  
 Number 2002:192D  
 Occurrence 2002:56M; 2008:131S  
 Photo 2002:169S; 2006:219D;  
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Predation by 2006:219D

Partridge, Gray  
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 Predation on 2009:71J

Parula, Northern  
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Pelican, American White  
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 Mortality 2002:235D; 2005:109J  
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Phalarope, Red-necked  
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Phalarope, Wilson's  
 Number 2002:199D

Pheasant, Ring-necked  
 Predation on 2008:117J  
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Phoebe, Eastern  
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Pigeon, Band-tailed  
 Occurrence 2001:33M  
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Pigeon, Passenger  
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Pigeon, Rock  
 Number 2002:192D  
 Occurrence 2001:102J  
 Predation on 2000:125S; 2006:216D

Pintail, Northern  
 Status 2007:179D

Pipit, Sprague's  
 Occurrence 2004:203D

Plover, Black-bellied  
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Plover, Piping  
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 Number 2000:65J; 2002:199D

Plover, Semipalmated  
 Number 2002:199D  
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Poorwill, Common  
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Prairie-Chicken, Greater  
 Occurrence 2004:182D

Prairie-Chicken, Greater X Sharp-tailed  
 Grouse  
 Occurrence 2004:182D  
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Ptarmigan, Willow  
 Occurrence 2007:52M  
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Pygmy-Owl, Northern  
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Rail, Yellow  
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 Occurrence 2004:182D  
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Raven, Common  
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Redpoll  
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Redpoll, Common  
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Redpoll, Hoary  
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Robin  
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Robin, American  
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Rosy-Finch, Gray-crowned  
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Sanderling  
 Number 2000:65J; 2002:199D  
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Sandpiper, Baird's  
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Sandpiper, Least  
 Number 2002:199D

Sandpiper, Pectoral  
 Number 2002:199D

Sandpiper, Semipalmated  
 Number 2000:65J; 2002:199D

Sandpiper, Sharp-tailed  
 Occurrence 2008:139S

Sandpiper, Spotted  
 Number 2002:199D; 2006:149S, 203D

Sandpiper, Stilt  
 Number 2002:199D

Sandpiper, Upland  
 Breeding 2000:65J  
 Number 2002:199D  
 Occurrence 2001:33M

Sandpiper, White-rumped  
 Number 2000:65J; 2002:199D

Sapsucker, Yellow-bellied  
 CBC 2003:2M; 2007:3M  
 Drawing 2004:180S  
 Photo 2007:December front cover  
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Scaup, Greater  
 CBC 2002:2M; 2008:3M  
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Scaup, Lesser  
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Scoter, Black  
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Scoter, Surf  
 Early record (pre-1950) 2004:182D  
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Scoter, White-winged  
 Early record (pre-1950) 2007:179D  
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Screech-Owl, Eastern  
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     Number 2007:89J, 211D  
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     Occurrence 2006:113J; 2009:110J  
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*Argomphus cornutus* (horned clubtail)  
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 Mammals 2005:135S; 2006:155S  
 Madge Lake – Birds 2009:138S  
 Makwa Lake Provincial Park  
 Birds 2000:99J  
 Mammals 2000:99J  
 Maple Creek area  
 Birds 2007:114J  
 Invertebrates 2009:82J  
 Plants 2003:176S  
 Matador – Birds 2003:219D  
 Maurice G. Street Wildlife Sanctuary  
 Conservation 2003:68J  
 Map 2003:78J  
 McKell Wascana Conservation Park, Regina  
 Conservation 2009:253D  
 Meadow Bank Lake  
 Invertebrates 2007:102J  
 Photo 2007:104J  
 Meadow Lake Provincial Park  
 Plants 2005:179D  
 Melfort – Birds 2003:127J  
 Merryflat area – Plants 2000:129S  
 Middle Quill Lake – Birds 2008:70J  
 Milestone area – Birds 2004:84J  
 Missouri Coteau – Birds 2005:40M  
 Morse – Birds 2006:172S; 2007:218D  
 Mortlach and area  
 Birds 2001:208D; 2004:28M  
 Plants 2000:129S  
 Mossbank and area  
 Birds 2006:175S; 2008:50M  
 Conservation award 2009:253D  
 Murphy Lake  
 Birds 2000:153S; 2001:182D  
 Narrow Hills Provincial Park  
 Invertebrates 2004:98J  
 Neilburg area – Birds 2007:163S  
 Nisbet Forest – Birds 2009:34M, 54M  
 North Battleford area – Birds 2006:56M  
 Old Man on His Back Prairie and Heritage Conservation Area  
 Birds 2005:155S  
 Old Wives Lake Nature Area  
 Conservation 2009:253D  
 Photo 2009:256D  
 Osage area – Invertebrates 2004:220D  
 Pasqua Lake and area  
 Birds 2007:137S, 163S  
 Patterson Lake  
 Invertebrates 2004:98J  
 Preeceville area  
 Birds 2001:182D, 208D  
 Mammals 2001:104J  
 Prince Albert and area  
 Birds 2006:174S; 2007:52M; 2009:60M  
 Invertebrates 2004:98J  
 Prince Albert Model Forest  
 Birds 2000:69J  
 Prince Albert National Park and area  
 Birds 2000:69J; 2006:170S  
 Invertebrates 2004:98J  
 Mammals 2004:41M  
 Qu'Appelle River Valley  
 Birds 2000:63J; 2002:64J; 2004:38M  
 Rafferty Dam Mitigation Lands  
 Amphibians 2005:144S  
 Reed Lake – Birds 2009:117J  
 Regina and area  
 Algae 2000:86J  
 Award 2009:253D  
 Birds 2000:168D; 2001:86J; 2002:56M, 176S, 182S; 2007:221D; 2008:56M, 206D  
 Invertebrates 2001:157S; 2003:179S; 2005:94J, 207D; 2006:217D  
 Plants 2001:55M  
 Reptiles 2006:215D; 2007:56M  
 Regina – A.E. Wilson Park  
 Birds 2000:168D



Map 2000:170-171D  
 Photo 2000:168D, 169D, 173-175D  
 Regina – McKell Wascana Conservation  
 Park  
 Conservation 2009:253D  
 Regina Beach – Birds 2006:176S  
 Regina Plain – Birds 2005:203D  
 Rendek Elm Forest Nature Sanctuary  
 Conservation 2003:68J  
 Map 2003:74J  
 Photo 2000:89J; 2009:123J  
 Plants 2000:89J  
 Reserve – Birds 2000:101J  
 Richlea area – Birds 2002:177S  
 Richmond Lake – Photo 2001:29M  
 Roddick Lake area  
 Birds 2004:66J  
 Map 2004:67J  
 Rosetown area  
 Birds 2001:188D; 2002:30M  
 Rosthern and area  
 Birds 2000:127S; 2001:182D;  
 2002:224D; 2006:168S  
 Mammals 2009:108J  
 Rowatt area – Invertebrates 2005:200D  
 Saskatoon and area  
 Birds 2000:53M, 116S, 148S, 151S;  
 2001:78J, 102J, 129S, 195D, 208D;  
 2002:35M, 206D, 209D, 211D, 227D;  
 2003:38M, 57M; 2004:28M, 31M,  
 77J, 112J; 2005:77J; 2006:216D;  
 2007:115J, 116J, 166S, 220D;  
 2009:114J  
 Invertebrates 2000:95J; 2003:51M,  
 214D, 217D; 2007:98J, 168S;  
 2008:175S  
 Mammals 2004:49M, 117J  
 Plants 2000:91J; 2001:134S, 208D;  
 2003:56M  
 Reptiles 2000:194D  
 Saskatoon – Peturrson Ravine  
 Map 2001:135S  
 Plants 2001:134S  
 Shellbrook area  
 Invertebrates 2004:98J  
 Silton – Birds 2001:102J  
 Sissons Environmental Education Centre  
 Birds 2004:78J  
 Souris River Valley  
 Birds 2001:207D; 2008:158S  
 Plants 2000:129S  
 South Saskatchewan River  
 Birds 2005:127S  
 Photo 2001:173S; 2005:127S  
 Southend area – Plants 2000:91J

Spruce Lake  
 Birds 2005:79J  
 Plants 2000:91J  
 St. Denis National Wildlife Area  
 Birds 2004:132S  
 Stalwart National Wildlife Area  
 Birds 2007:67J; 2008:70J, 196D  
 Map 2007:68J; 2008:197D  
 Swift Current and area  
 Birds 2002:181S; 2004:28M  
 Invertebrates 2009:259D  
 Tisdale – Mammals 2001:106J  
 Turtle Lake – Birds 2001:182D  
 Turtle Lake Nature Sanctuary  
 Conservation 2003:68J  
 Map 2003:76J  
 Tyner area – Birds 2007:54M  
 Tyvan and area  
 Birds 2000:63J; 2002:174S  
 Usherville area – Birds 2007:167S  
 Val Marie – Birds 2006:32M  
 Van Brien Land Nature Sanctuary  
 Conservation 2003:68J  
 Invertebrates 2007:102J  
 Map 2003:72J; 2007:102J  
 Waddy River – Plants 2000:91J  
 Wallaston Lake area  
 Invertebrates 2004:98J  
 Wascana Creek, Tyvan  
 Birds 2000:63J  
 Waseca area – Birds 2000:188D  
 Waskesiu Lake and area  
 Birds 2000:149S  
 Invertebrates 2004:47M  
 Mammals 2006:110J  
 Weyburn and area  
 Amphibians 2004:43M  
 Birds 2000:150S; 2003:33M, 140S;  
 2004:130S; 2005:115J  
 Invertebrates 2009:110J  
 Mammals 2004:137S  
 Whitewood area  
 Tallgrass prairie habitat 2006:72J  
 Wollaston Lake – Birds 2000:29M  
 Yorkton and area – Birds 2003:94J  
 Young area – Plants 2004:88J

## Plants: Algae and Mosses

### Algae

Human use 2000:86J  
 Particular species  
*Chara braunii* (Braun's stonewort)  
 Occurrence 2005:94J  
*Nostoc commune*  
 Life cycle 2000:86J

Number 2000:86J  
Photo 2000:87J  
Use 2000:86J

## Mosses

### Collections

George F. Ledingham Herbarium  
2009:104J

W.P. Fraser Herbarium (SASK)  
2009:97J

### Particular species

*Evernia mesomorpha* (boreal oakmoss lichen)

Occurrence 2003:43M

*Splachnum luteum* (yellow collar moss, fairy parasol)

Photo 2000:113J, 160S

*Tortula ruralis* (sidewalk moss)

Occurrence 2006:69J

## Plants: Lichens – See Fungi and Lichens

### Plants: Vascular

Biological control 2007:98J

### Collections

George F. Ledingham Herbarium  
2009:104J

W.P. Fraser Herbarium (SASK) 2009:97J  
Photo 2009:102J

### Counts, surveys & lists

Arnicas in Saskatchewan. 2002:49M

Burdocks in Saskatchewan. 2001:92J

Currants and gooseberries in Saskatchewan. 2008:163S

Distribution of buffalograss in southwestern Manitoba: an update. 2003:96J

Flora of North America: scheduled publication of volumes including Saskatchewan vascular plant families. 2007:82J

List of tallgrass prairie plants visited by insects. 2006:84J

Main and historical collections hosted at the W.P. Fraser Herbarium. 2009:97J

Oak-feeding insects in Saskatchewan. 2002:113J

Observations on the flowering of deciduous trees and shrubs in Regina, SK. 2001:55M

Prairie goosefoots. 2008:82J

Puccoons in Saskatchewan. 2002:216D

Saltbushes of the prairie provinces. 2008:211D

St. Lazare area of Manitoba: a biodiversity hotspot. 2004:203D

Vascular plants: new finds at the Rendek Elm Forest, SK. 2000:89J

Vascular plants: of the Peturrson Ravine area of Saskatoon SK. 2001:134S

Vascular plants: survey of Meadow Lake Provincial Park, SK. 2005:179D

Where have all our asters gone? 2002:151S

Disease – Dutch Elm 2000:89J

Early records (pre-1950) 2007:86J

### Field techniques

Identifying a rare plant

Photo 2005:115J

Human use 2002:216D; 2008:82J, 163S, 211D

Information wanted 2001:92J

Invasion by exotics 2001:92J, 134S; 2004:88J; 2007:98J

Literature 2007:82J

### Particular species

*Achnatherum hymenoides* (Indian rice grass)

Occurrence 2004:203D; 2005:81J

*Allium cernuum* (nodding onion)

Habitat photo 2009:250D

Identification 2009:249D

Number 2009:249D

Photo 2009: December inside front cover, 250D

*Alopecurus carolinianus* (annual water foxtail)

Occurrence 2000:129S

Photo 2000:134S

*Alopecurus pratensis* (meadow foxtail)

Occurrence 2000:91J

Photo 2000:93J

*Andropogon hallii* (sand bluestem)

Occurrence 2004:203D; 2005:81J

*Arctium* (burdock genus)

Description 2001:92J

Identification 2001:92J

See also Burdock

*Arctium lappa* (great burdock)

Description 2001:92J

Map 2001:95J

*Arctium minus* (common or lesser burdock)

Description 2001:92J

Map 2001:95J, 96J

*Arctium tomentosum* (woolly or cotton burdock)

Description 2001:92J

Map 2001:95J

*Arctostaphylos uva-ursi* (bearberry)

Photo 2008:December inside front cover

- Arnica*  
 Distribution 2002:49M  
 Drawing 2002:53M  
 Identification 2002:49M  
 Name 2002:49M
- Arnica angustifolia* (narrow-leaved or alpine arnica)  
 Description 2002:49M  
 Drawing 2002:50M  
 Map 2002:51M  
 See also *Arnica*, Narrow-leaved
- Arnica chamissonis* (leafy arnica)  
 Description 2002:49M  
 Drawing 2002:50M  
 Map 2002:51M
- Arnica cordifolia* (heart-leaved arnica)  
 Description 2002:49M  
 Drawing 2002:50M  
 Map 2002:51M
- Arnica fulgens* (shining or orange arnica)  
 Description 2002:49M, 216D  
 Drawing 2002:50M  
 Map 2002:51M
- Arnica lonchophylla* (spear-leaved arnica)  
 Description 2002:49M  
 Drawing 2002:50M  
 Map 2002:51M
- Arnica*, Narrow-leaved (Alpine)  
 Photo 2002:49M  
 See also *Arnica angustifolia*
- Arnica sororia* (twin arnica)  
 Description 2002:49M  
 Drawing 2002:50M  
 Map 2002:51M  
 Photo 2007:85J
- Arrow-wood, Downy – See *Viburnum rafinesquianum*
- Artemisia cana* (hoary sagebrush)  
 Drawing 2004:92J
- Aspen  
 Drawing 2003:September back cover
- Aster  
 Photo 2002:151S  
 Taxonomy 2002:151S
- Astragalus ledinghamii*  
 Photo 2009:105J
- Atriplex* (saltbush genus)  
 Description 2008:211D  
 Habitat 2008:211D  
 Identification 2008:211D  
 Status 2008:211D  
 Use 2008:211D  
 See also Saltbush
- Atriplex argentea* (silvery saltbush, silverscale)  
 Description 2008:211D
- Atriplex canescens* (four-wing saltbush)  
 Description 2008:211D
- Atriplex dioica* (thickleaf orache, saline saltbush)  
 Description 2008:211D
- Atriplex gardneri* (Gardner's saltbush, Nuttall's saltbush, moundscale, saltsage)  
 Description 2008:211D  
 Identification 2008:211D  
 Photo 2008:211D
- Atriplex glabriuscula* (glabrous orache)  
 Description 2008:211D
- Atriplex heterosperma* (two-scale saltbush)  
 Description 2008:211D
- Atriplex hortensis* (garden orache, French spinach)  
 Description 2008:211D  
 Photo 2008:December inside back cover
- Atriplex oblongifolia* (oblong-leaf orache)  
 Description 2008:211D
- Atriplex patula* (spreading orache, spear saltbush, fat-hen saltbush, spear-scale)  
 Description 2008:211D
- Atriplex powellii* (Powell's saltbush)  
 Description 2008:211D
- Atriplex prostrata* (hastate saltbush, halbert-leaved saltbush)  
 Description 2008:211D
- Atriplex rosea* (tumbling orache, red orache, red-scale)  
 Description 2008:211D
- Atriplex suckleyi* (Suckley's orache, rillscale)  
 Description 2008:211D
- Atriplex truncata* (wedgescala, wedge-leaved saltbush)  
 Description 2008:211D
- Blysmus rufus* (red bulrush)  
 Occurrence 2001:134S
- Botrychium multifidum* (leathery grape fern)  
 Occurrence 2005:179D  
 See also Grape Fern, Leathery
- Buchloë dactyloides* (buffalograss)  
 Distribution 2003:96J  
 Habitat photo 2003:101J  
 Map 2003:96J, 98J  
 Photo 2003:97J  
 Status 2003:96J
- Burdock

- Bird entanglement 2001:64J  
 Photo 2001:99J  
 See also *Arctium*
- Butomus umbellatus* (flowering rush)  
 Habitat photo 2004:88J  
 Invasive species 2004:88J  
 Photo 2004:89-91J; 2005:June back cover
- Carex pseudocyperus* (cyperus-like sedge)  
 Occurrence 2005:179D
- Castilleja sessiliflora* (great plains Indian paintbrush)  
 Photo 2006:June front cover
- Chenopodium* (goosefoot genus)  
 Description 2008:82J  
 Distribution 2008:82J  
 Habitat 2008:82J  
 Identification 2008:82J  
 Status 2008:82J  
 Use 2008:82J  
 See also Goosefoot
- Chenopodium album* (lamb's quarters, white pigweed)  
 Description 2008:82J
- Chenopodium atrovirens* (dark goosefoot, pinyon goosefoot)  
 Description 2008:82J
- Chenopodium berlandieri* (pit-seed goosefoot, net-seed lamb's quarters)  
 Description 2008:82J
- Chenopodium bonus-henricus* (good king henry, fat-hen, wild spinach)  
 Description 2008:82J
- Chenopodium capitatum* (strawberry-blight, Indian-paint, Indian ink)  
 Description 2008:82J
- Chenopodium desiccatum* (arid goosefoot, arid-land goosefoot)  
 Description 2008:82J
- Chenopodium foliosum* (leafy goosefoot)  
 Description 2008:82J
- Chenopodium fremontii* (Fremont's goosefoot)  
 Description 2008:82J
- Chenopodium glaucum* (saline goosefoot, oak-leaf goosefoot)  
 Description 2008:82J
- Chenopodium hians* (Hian's goosefoot, gaping goosefoot)  
 Description 2008:82J
- Chenopodium incanum* (mealy goosefoot)  
 Description 2008:82J
- Chenopodium leptophyllum* (narrowleaf goosefoot)  
 Description 2008:82J
- Chenopodium murale* (sowbane, nettle-leaved goosefoot)  
 Description 2008:82J
- Chenopodium polyspermum* (many seeded goosefoot)  
 Description 2008:82J
- Chenopodium pratericola* (desert goosefoot)  
 Description 2008:82J
- Chenopodium rubrum* (red goosefoot, coast-blight)  
 Description 2008:82J
- Chenopodium simplex* (maple-leaf goosefoot, big-seed goosefoot)  
 Description 2008:82J
- Chenopodium strictum* (late-flowering goosefoot, upright lamb's quarters)  
 Description 2008:82J
- Chenopodium subglabrum* (smooth goosefoot)  
 Description 2008:82J  
 Drawing 2008:83J  
 Habitat photo 2005:83J  
 Identification 2005:81J  
 Occurrence 2005:81J  
 Photo 2005:82J
- Chenopodium watsonii* (Watson's goosefoot, Dakota stinking goosefoot)  
 Description 2008:82J
- Cirsium drummondii* (dwarf thistle)  
 Occurrence 2005:179D
- Coryphantha vivipara* (ball cactus)  
 Photo 2002:June front cover
- Cottonwood  
 Damage on 2003:183S  
 Photo 2003:183S
- Crassula aquatica* (pigmy-weed)  
 Drawing 2000:129S  
 Occurrence 2000:129S
- Crocus, Prairie  
 Photo 2000:March back cover;  
 2001:1M; 2009:March inside front cover
- Currant – See *Ribes*
- Cyperus schweinitzii* (sand nut-grass)  
 Occurrence 2005:81J
- Cypripedium candidum* (small white lady's-slipper)  
 Early record (pre-1950) 2007:86J  
 Map 2007:87J
- Cypripedium passerinum* (sparrow's egg lady's-slipper)

- Occurrence 2005:179D  
*Cypripedium reginae* (showy lady's-slipper)  
 Number 2008:178S  
*Delphinium glaucum* (tall larkspur)  
 Occurrence 2005:179D  
*Dryopteris cristata* (crested shield fern)  
 Occurrence 2006:173S  
*Echinacea angustifolia* (narrow-leaved purple coneflower)  
 Photo 2003:December back cover  
 Elder, Box (Manitoba Maple)  
 Photo 2001:60M  
*Ericameria nauseosa* (rubber rabbitbrush)  
 Photo 2008:105J  
*Erigeron strigosus* (rough daisy fleabane)  
 Occurrence 2005:179D  
*Eriogonum flavum* (yellow umbrella-plant)  
 Occurrence 2004:203D  
*Eriogonum pauciflorum* (branched umbrella-plant)  
 Photo 2008:105J  
*Escobaria vivipara* (ball cactus)  
 Occurrence 2005:81J  
*Euphorbia esula* (leafy spurge)  
 Invasive species 2007:98J  
 Gentian, Fringed  
 Photo 2000:54M  
 Gooseberry – See *Ribes*  
 Goosefoot  
 Drawing 2008:86J  
 See also *Chenopodium*  
 Grape Fern, Leatherly  
 Drawing 2005:191D  
 See also *Botrychium multifidum*  
*Hieracium aurantiacum* (orange hawkweed)  
 Occurrence 2000:91J  
 Photo 2000:92J  
*Hordeum jubatum* (foxtail barley)  
 Photo 2008:135S  
*Hymenoxys acaulis* (stemless rubber-weed)  
 Occurrence 2000:129S  
 Photo 2000:135S  
*Hypoxis hirsuta* (eastern yellow star-grass)  
 Photo 2006:80J  
*Impatiens capiensis* (touch-me-not)  
 Photo 2006:230D; 2007:61M  
 Seed dispersal 2007:61M  
*Juniperus horizontalis* (creeping juniper)  
 Photo 2000:60M  
 Lady's-slipper, Pink  
 Number 2008:52M  
 Lady's-slipper, Sparrow's Egg  
 Photo 2005:192D  
 Lady's-slipper, Stemless  
 Photo 2001:June front cover  
 Lady's-slipper, Yellow  
 Drawing 2005:122S  
*Leersia oryzoides* (rice cut-grass)  
 Occurrence 2000:129S  
 Photo 2000:131S  
*Liatis spicata* (garden liatris)  
 Photo 2005:December front cover  
*Lilium philadelphicum* (western red lily)  
 Photo 2009:June front cover  
 Lily  
 Damage on 2001:208D; 2002:56M  
 Photo 2001:208D  
*Lithospermum* (puccoon genus)  
 Description 2002:216D  
 Distribution 2002:216D  
 Drawing 2002:218D, 219D  
 Identification 2002:216D  
 Name 2002:216D  
 Use 2002:216D  
 See also Puccoon  
*Lithospermum canescens* (hoary puccoon)  
 Description 2002:216D  
 Drawing 2002:216D  
 Map 2002:217D  
 Photo 2006:77J  
*Lithospermum incisum* (narrow-leaved or fringed puccoon)  
 Description 2002:216D  
 Drawing 2002:216D  
 Map 2002:217D  
*Lithospermum ruderales* (mountain, Columbian or woolly puccoon)  
 Description 2002:216D  
 Drawing 2002:216D  
 Map 2002:217D  
 See also Puccoon, Narrow-leaved  
 Lobelia, Kalm's  
 Photo 2001:137S  
*Lomatium macrocarpum* (large-fruited parsley)  
 Habitat photo 2004:208D  
 Occurrence 2004:203D  
*Lomatogonium rotatum* (marsh felwort)  
 Occurrence 2001:134S  
*Lygodesmia rostrata* (annual skeletonweed)  
 Occurrence 2005:81J

- Mentzelia decapetala* (evening star)  
Photo 2000:June front cover
- Mimulus glabratus* (roundleaf monkey-flower)  
Habitat photo 2002:85J, 225D  
Map 2002:84J  
Occurrence 2002:83J, 224D;  
2004:203D  
Photo 2002:83J
- Oak, Bur  
Size 2003:126J  
See also *Quercus macrocarpa*
- Oenothera andina* (upland evening-primrose)  
Occurrence 2000:129S  
Photo 2000:133S
- Orobanche ludoviciana* (Louisiana broom-rape)  
Occurrence 2005:81J
- Oxytropis sericea* (early yellow locoweed)  
Occurrence 2004:203D
- Paintbrush, Indian  
Photo 2007:December inside back cover
- Pediometum esculentum* (large Indian-breadroot)  
Photo 2006:80J
- Penstemon nitidus* (waxleaf beardtongue)  
Habitat photo 2004:207D  
Occurrence 2004:203D
- Penstemon procerus* (slender beardtongue)  
Occurrence 2004:203D
- Phlox hoodii* (moss pink)  
Occurrence 2004:203D
- Platanthera hyperborea* (northern green orchid)  
Photo 2009:99J
- Polygonum spargulariaeforme* (spurry knotweed)  
Identification 2000:129S  
Occurrence 2000:129S  
Photo 2000:130S
- Populus tremuloides* (trembling aspen)  
Photo 2008:204D, December back cover
- Primula mistassinica* (dwarf Canadian primrose)  
Number 2006:107J  
Photo 2006:107J
- Puccoon – See *Lithospermum*
- Puccoon, Narrow-leaved  
Photo 2002:221D
- See also *Lithospermum ruderales*
- Quercus macrocarpa* (bur oak)  
Distribution 2002:87J  
Drawing 2002:91J, 92J  
Herbivory on 2002:113J  
Map 2002:88J, 89J  
Natural history 2002:97J  
See also Oak, Bur
- Ribes* (currant and gooseberry genus)  
Description 2008:163S  
Drawing 2008:164S, 165S, 172S  
Identification 2008:163S  
Use 2008:163S
- Ribes americanum* (American black currant)  
Habitat 2008:163S  
Map 2008:170S
- Ribes aureum* (golden currant)  
Habitat 2008:163S  
Map 2008:170S
- Ribes glandulosum* (skunk currant)  
Habitat 2008:163S  
Map 2008:170S  
Photo 2008:165S
- Ribes hirtellum* (hairy-stem gooseberry)  
Habitat 2008:163S  
Map 2008:170S
- Ribes hudsonianum* (northern black currant)  
Habitat 2008:163S  
Map 2008:170S  
Photo 2008:166S
- Ribes lacustre* (prickly black currant)  
Habitat 2008:163S  
Map 2008:170S
- Ribes oxycanthoides* (Canada gooseberry)  
Habitat 2008:163S  
Map 2008:170S
- Ribes setosum*  
Identification 2008:163S
- Ribes triste* (wild red currant)  
Habitat 2008:163S  
Map 2008:170S
- Rose  
Damage on 2003:176S; 2009:83J  
Insect galls 2009:125J  
Photo 2003:177S; 2009:61M, 84J, 85J, 125J
- Rudbeckia  
Photo 2000:June back cover
- Saltbush  
Drawing 2008:216D, 217D  
Habitat photo 2008:212D  
See also *Atriplex*

*Sanguinaria canadensis* (bloodroot)  
Photo 2007:June front cover

*Sedum telephium* (garden orpine)  
Occurrence 2000:91J  
Photo 2000:93J

*Senecio viscosus* (stinking groundsel)  
Occurrence 2000:91J  
Photo 2000:92J

*Solidago canadensis* (Canada goldenrod)  
Insect galls 2000:144S  
Photo 2000:144-147S

*Sorghastrum nutans* (Indian grass)  
Occurrence 2000:129S  
Photo 2000:133S

*Sparganium glomeratum* (clustered bur-reed)  
Occurrence 2006:220D  
Photo 2006:220D, 221D

*Spiranthes lacera* (slender ladies'-tresses)  
Occurrence 2005:179D

Sunflower, Plains  
Photo 2009:March inside back cover

*Townsendia exscapa* (low townsendia)  
Occurrence 2004:203D

*Trichophorum pumilum* (dwarf bulrush)  
Occurrence 2001:134S

*Trillium cernuum* (whip-poor-will-flower)  
Drawing 2003:143S, 145-148S, 151-156S, 158S, 159S, 162S, 164S  
Map 2003:144S  
Natural history 2003:143S

*Trimorpha elata* (tall white daisy fleabane)  
Occurrence 2005:179D

*Typha angustifolia* (narrow-leaved cattail)  
Herbivory on 2008:178S  
Identification 2008:178S  
Number 2008:178S

*Typha latifolia* (common cattail)  
Identification 2008:178S

*Ulmus americana* (American elm)  
Photo 2000:89J; 2009:123J

*Viburnum rafinesquianum* (downy arrow-wood)  
Drawing 2009:90-95J  
Map 2009:96J  
Natural history 2009:89J

*Viola pubescens* (smooth yellow violet)  
Occurrence 2000:89J

Violet, Early Blue  
Photo 2001:152S

Whip-poor-will-flower – See *Trillium cernuum*

Willow

Photo 2004:221D

Rare species 2000:129S; 2001:134S;  
2002:49M, 83J, 216D; 2003:96J;  
2004:203D; 2005:81J, 179D; 2006:69J,  
220D; 2007:86J; 2008:82J; 2009:249D

## Poetry

2000:187D, 196D; 2001:108J, 172S;  
2002:227D, 232D; 2003:60M, 64M;  
2004:54M, 55M, 56M, 57M, 62M, 170S,  
221D; 2005:59M, 70J, 80J, 91J, 158S,  
202D; 2006:118J, 119J, 120J, 177S, 178S,  
179S, 180S; 2007:57M, 58M, 119J, 120J,  
121J, 132S, 225D; 2008:95J, 147S, 188S,  
225D, 236D; 2009:33M, 41M

## Protists

Particular species – Slime mold  
Occurrence 2000:154S

## Reptiles

Diseases / Afflictions / Injuries  
Craniodichotomy 2005:139S

Particular species

Bullsnake  
Behaviour 2002:56M  
Drawing 2005:125S  
Photo 2008:235D

Gartersnake  
Behaviour 2001:105J  
Photo 2000:108J; 2001:105J, 106J;  
2008:54M  
Predation on 2009:71J

Gartersnake, Plains  
Size 2002:183S

Lizard, Greater Short-horned  
Photo 2009:113J

Rattlesnake, Prairie  
Abnormality 2005:139S  
Photo 2001:September back cover;  
2005:139S, 140S, 142S, September  
back cover

Turtle, Snapping  
Occurrence 2000:194D  
Photo 2000:195D

Turtle, Western Painted  
Habitat 2007:56M  
Occurrence 2006:215D  
Photo 2006:December inside back  
cover

## Reviews

*A User's Guide to Saskatchewan Parks*  
2006:222D

*Atlas of Saskatchewan* 2000:107J  
*Beginner's Guide to Bird Songs of North America* 2007:170S  
*Bird Songs of the North American Prairie* [CD] 2008:184S  
*Birder's Conservation Handbook: 100 North American Birds at Risk* 2008:58M  
*Birdlife of the Churchill Region: Status, History, Biology* 2004:222D  
*Birds at Your Feeder: A Guide to Feeding Habits, Behavior, Distribution and Abundance* 2000:156S  
*Birds of North America* [CD-ROM, Version 2.5] 2001:109J  
*Birds of North America* [CD-ROM, Version 3] 2002:120J  
*Birds of North America* [CD-ROM, Version 5] 2009:263D  
*Birds of the Rosetown-Biggar District* 2009:119J  
*Birds of the Saskatoon Area* 2003:59M  
*Birds of Yorkton-Duck Mountain* 2003:227D  
*Bolt from the Blue: Wild Peregrines on the Hunt* 2002:230D  
*Butterflies of North Dakota: An Atlas and Guide* 2003:228D  
*Caterpillars in the Field and Garden* 2006:58M  
*Caterpillars of Eastern North America* 2006:58M  
*Checklist of the Vascular Plants of Saskatchewan and the Provincially and Nationally Rare Native Plants in Saskatchewan* 2003:229D  
*Cultivating Our Roots – Growing Authentic Prairie Wildflowers and Grasses* 2009:261D  
*Ecology, Conservation, and Status of Reptiles in Canada* 2008:233D  
*Eighteenth-century Naturalists of Hudson Bay* 2004:120J  
*Finding Birds in Southern Manitoba* 2007:59M  
*Grass, Sky, Song: Promise and Peril in the World of Grassland Birds* 2009:121J  
*Home Place: Essays on Ecology* 2004:171S  
*Jacob's Wound: A Search for the Spirit of Wildness* 2005:57M  
*Ladybugs of Alberta: Finding the Spots and Connecting the Dots* 2007:123J  
*Lichens of North America* 2002:60M  
*Marshes: The Disappearing Edens* 2007:122J  
*Mice in the Freezer, Owls on the Porch:*

*The Lives of Naturalists Frederick and Frances Hamerstrom* 2003:224D  
*Orchids of Manitoba: A Field Guide* 2008:120J  
*Owls of the World* 2003:225D  
*Prairie Phoenix: The Red Lily, Liliium philadelphicum, in Saskatchewan* 2005:159S  
*Prairie: A Natural History* 2004:223D  
*Raptors of Western North America* 2008:119J  
*Rediscovering The Great Plains: Journeys by Dog, Canoe & Horse* 2002:184S  
*River in a Dry Land: A Prairie Passage* 2000:197D  
*Saskatchewan Scenic Secrets* 2001:167S  
*Shoveling Fuel for a Runaway Train* 2001:165S  
*The Birds of Manitoba* 2004:118J  
*The Encyclopedia of Saskatchewan: A Living Legacy* 2006:59M  
*The Great Sand Hills Regional Environmental Study: Final Report* 2008:179S  
*The Gyrfalcon* 2006:115J  
*The Sand Dunes of Lake Athabasca: Your Adventure in Learning* 2001:168S  
*The Site: A Personal Odyssey* 2002:228D  
*Tiger Beetles of Alberta – Killers on the Clay, Stalkers on the Sand* 2001:113J  
*Weeds of Canada and the Northern United States* 2000:155S  
*Where the River Runs* 2002:229D  
*White as a Ghost: Winter Ticks and Moose* 2005:116J  
*Whose Bird? Common Bird Names and the People They Commemorate* 2004:122J  
*Wildflowers of Alberta: A Guide to Common Wildflowers and Other Herbaceous Plants* 2001:112J  
*Wildflowers of the Rocky Mountains* 2008:57M

**Slime Molds – See Protists**

**Societies / Organizations**

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 Greencover Canada Program 2007:223D  
 Nature Canada 2009:145S  
 Saskatchewan Burrowing Owl Interpretive Centre 2008:239D  
 Saskatchewan Power Corporation 2001:182D  
 Southwest Naturalists 2002:181S



See also **Nature Saskatchewan**

## Viruses

Particular species

Frog Virus 3 (ranavirus)

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## Wetlands

Counts, surveys & lists

Beaverhill Lake, AB: rare or unusual bird sightings, 1996-2000. 2001:33M

Besnard Lake, SK: population changes in water-associated birds, 1976-2005. 2006:149S

Candle Lake, SK: biodiversity and adult emergence periods of mayflies. 2008:96J

Crooked Lake Fen Nature Sanctuary, SK: lichen inventory. 2003:43M

Crooked Lake Fen Nature Sanctuary, SK: survey of aquatic macroinvertebrates. 2005:98J

Kississing Lake, MB: possible influence of toxic mine waste on bird populations. 2006:203D

Luck Lake, SK: shorebird migration. 2002:199D

Meadow Bank Lake in Van Brienens Land Nature Sanctuary, SK: preliminary check list of aquatic macroinvertebrates. 2007:102J

Meadow Lake Provincial Park, SK: vascular plant survey. 2005:179D

Myers Wetlands, BC: observations on nesting red-winged and yellow-headed blackbirds. 2000:77J

Roddick Lake, SK: bird species, 1927 and 2003. 2004:66J

Whitewater Lake, MB: cattle egret and white-faced ibis breeding activity: an update. 2008:75J

Ephemeral habitats

Adaptations to 2005:94J



*Common Snipe*

Randy McCulloch

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# PLANTS

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## FIRST RECORDED OCCURRENCE OF CREEPING MAHONIA (*BERBERIS REPENS* Lindley) IN SASKATCHEWAN

ALAN DODD, *Rangeland Conservation Service Ltd. #502, 2903 Kingsview Boulevard SE Airdrie, Alberta T4A 0C4*

### Introduction

The first recorded population of creeping mahonia (*Berberis repens* Lindley) was observed in Saskatchewan. A single population was observed in Cypress Hills Inter-provincial Park (CHIP) - West Block in August 2011. The species was originally observed in 2002 at the same location but the discovery went unrecognized. This new population represents a significant extension of the known range of the species, as the closest known populations are in southwestern Alberta and central Montana. The discovery of creeping mahonia is a significant addition to the unique flora of the Cypress Hills.

### Background

#### Cypress Hills

The Cypress Hills are centred on lat. 49 30' N, long. 110 W on the Canadian Great Plains, approximately 70 km north of the United States border. They extend for approximately 130 km along an east-west axis through southwestern Saskatchewan and southeastern Alberta. North-south, the Hills are typically only about 15 km wide, although they do reach a width of 25 km in places. In total, the Cypress Hills cover nearly 2600 km<sup>2</sup> of land.

CHIP is divided into three blocks: Elkwater in Alberta and the West and Centre blocks in Saskatchewan. The West Block is located adjacent to the Elkwater Block on the opposite side of the provincial boundary and approximately

16 km west of the Centre Block. The West Block covers approximately 13,880 hectares (34,300 acres) of land, and is located approximately 40 km southwest of the town of Maple Creek in Townships 7 and 8, Ranges 28 and 29 W3M.

The primary ecological factor differentiating the Cypress Upland from other ecoregions is elevation.<sup>1</sup> Highest elevations in the Hills are near Elkwater, Alberta and lowest near Eastend, Saskatchewan. Elevation ranges from approximately 1,463 m (4,810 feet) to 1,000 m (3,300 feet) between these two locations.

Elevation has dramatic effects on vegetation in the Cypress Upland. There are two main habitat types in the ecoregion: grassland and forest. Mixed grassland occurs at elevations between 775 m (2,550 feet) and 1,000 m (3,300 feet) on the north slope and between 850 m (2,800 feet) or 950 m (3,100 feet) (depending on location) and 1,050 m (3,450 feet) on the south slope.<sup>1</sup> Grassland at higher elevations is dominated by rough fescue (*Festuca campestris* and *F. hallii*). The reference community on the Loam ecosite (Dark Brown and Black Chernozemic soils) in the Cypress Upland is described as rough fescue (average cover = 30%).<sup>2</sup>

Forests are more prevalent in the west part of the Cypress Hills. Forest in the Cypress Hills occurs primarily on

north aspects as well as in some of the valleys on the plateau. In the West Block, lodgepole pine (*Pinus contorta*) and aspen (*Populus tremuloides*) are the dominant tree species, with lesser amounts of white spruce (*Picea glauca*) and balsam poplar (*Populus balsamifera*). Lodgepole pine reaches its greatest extent in the West Block, and occurs at elevations between 1,280 m (4,200 ft) to 1,465 m (4,800 ft).<sup>3</sup> Aspen forest is typically found at lower elevations immediately below lodgepole pine forests in the West Block, as well as in mixed stands with white spruce. White spruce is generally found in cool, moist habitats associated with springs as well as along Battle Creek.<sup>3</sup>

The forests of the Cypress Hills were originally described as boreal forest outliers<sup>4</sup> and boreal-cordilleran transition forests.<sup>5</sup> Other authors emphasized the Cordilleran influence.<sup>3,6</sup> The Cypress Hills are included in the Rocky Mountain Natural Region in Alberta<sup>7,8,9,10</sup> and the Cypress Upland Ecoregion in Saskatchewan, which is described as an outlier of the montane vegetation zone.<sup>11</sup>

### **Creeping Mahonia**

Creeping mahonia is a member of the Berberidaceae family. It is an evergreen shrub 2 cm to 20 cm (60 cm) tall.<sup>12</sup> Its leaves are (3-) 5 to 7 foliolate with thin, flexible, usually dull and somewhat glaucous leaflets which have numerous spine-tipped teeth. The inflorescence is densely racemose with 25 to 50 flowers that produce blue berries. The species flowers from April to June.

The habitat of creeping mahonia is described as mountain woods,<sup>13</sup> forests from foothills to lower montane elevations,<sup>14</sup> open forest, shrub, and grassland,<sup>12</sup> and dry rocky slopes and open forests in the steppe and montane zones.<sup>15</sup>

Creeping mahonia has not been previously recorded in Saskatchewan (Enns pers. comm.).<sup>16</sup> Nature Serve lists creeping mahonia as growing in British Columbia, Alberta, and Ontario in Canada.<sup>17</sup> In Alberta, it occurs in the southwest part of the province from Waterton Lakes National Park in the south



*Creeping Mahonia*

Alan Dodd

to the Crowsnest Pass in the north.<sup>13</sup> In British Columbia, it is described as common in the southeast and rare in the central and south-central parts of the province.<sup>15</sup> In the United States, creeping mahonia is found in 19 states, including the bordering states of Washington, Idaho, Montana, and North Dakota.<sup>17</sup> The closest known populations to the Cypress Hills are in the foothills of southwestern Alberta and in central Montana,<sup>13,18</sup> both of which are approximately 300 km from the observed Saskatchewan population.

Creeping mahonia is considered Secure (S5), Vulnerable (S3), and Exotic in British Columbia, Alberta, and Ontario, respectively.<sup>17</sup> Creeping mahonia is not ranked or under review (SNR/SU) in Washington and Idaho. It is listed as Secure in Montana and Imperiled (S2) in North Dakota.

## Findings

Creeping mahonia was first discovered in CHIP - West Block in 2002 by RCS staff during a range inventory of the park, in which a number of transects were established in forest and grassland communities throughout the block. However, the significance of the discovery was not realized at the time. The species was observed along only one of fourteen forest transects established in 2002. The transect was located in a white spruce - aspen mixedwood forest community in the southeast part of the West Block.

During a range re-assessment of the West Block in 2011, creeping mahonia was observed along the same transect, but as in 2002, at none of the others. Approximately 30 plants were observed along the transect in 2011, although a detailed, systematic count was not conducted due to time constraints. A park closure due to fire hazard prevented a second visit to the park later in the season to conduct a detailed population

count. Creeping mahonia occurred in two of the ten quadrats along the transect. The forest community was described as Healthy according to the Saskatchewan Range Health protocol.<sup>19</sup>

Plant species occurring in the same quadrat as creeping mahonia included smooth wild rye (*Elymus glaucus*), white-grained mountain rice grass (*Oryzopsis asperifolia*), wild white geranium (*Geranium richardsonii*), snakeroot (*Sanicula marilandica*), buckbrush (*Symphoricarpos occidentalis*), wild strawberry (*Fragaria virginiana*), veiny meadow rue (*Thalictrum venulosum*), western Canada violet (*Viola canadensis*), Lindley's aster (*Aster ciliolatus*), common pink wintergreen (*Pyrola asparifolia*), cream-colored vetchling (*Lathyrus ochroleucus*), and spreading sweet cicely (*Osmorhiza depauperata*). Smooth wild rye and wild white geranium are also considered rare in Saskatchewan.<sup>20</sup>

No flowers or berries were present on the creeping mahonia plants observed. However, the characteristic leaves make this species readily identifiable. Nevertheless, a specimen was collected and taken to the University of Calgary herbarium where its identification was confirmed by the assistant curator (Smith pers. comm.).

Interestingly, a leaf specimen collected of creeping mahonia by the author seemed to have more teeth than mentioned in the literature. The Flora of North America describes creeping mahonia leaflets as having 15 to 24 teeth.<sup>12</sup> However, The Flora of the Pacific Northwest describes creeping mahonia as having 15 to 43 teeth.<sup>14</sup> Teeth number is not mentioned in the Flora of Alberta.<sup>13</sup> The specimen collected in CHIP had between 38 and 48 teeth.

## Discussion

A number of botanical studies and inventories have been conducted in the Cypress Hills.<sup>3,6,21</sup> A number of range inventories and assessments that included a vegetation inventory component have also been completed in the Centre, West, and Elkwater blocks of CHIP.<sup>22,23,24,25</sup> The fact that creeping mahonia had not been observed prior to 2002 suggests that the species may be quite rare in the Cypress Hills. White spruce - aspen mixedwood forest is also limited in extent in the West Block. Assuming creeping mahonia favours this plant community type in the Cypress Hills, then this adds to the potential rarity of the species at this location. Moreover, the size of the creeping mahonia population observed was apparently quite small. All these factors suggest that future management planning in the park take into consideration any activity that could potentially impact the creeping mahonia population, including forestry, recreational, and livestock grazing activities.

Further surveys are necessary to determine the entire extent of creeping mahonia in the Cypress Hills. Because creeping mahonia was found in white spruce - aspen mixedwood forest, future surveys should be directed to these plant community types. A number of the fourteen transects surveyed by RCS were located in white spruce - aspen mixedwood forest. These stands were found in various locations throughout the south and west parts of the West Block.

As previously discussed, the closest known populations of creeping mahonia to the Cypress Hills population are in montane habitat in southwestern Alberta and central Montana. The Cypress Hills population thus represents a range extension of approximately 300 km. However, the Cypress Hills population is

isolated from these other two populations due to the long distance and lack of montane habitat, and is thus an outlier. The occurrence of creeping mahonia in the Cypress Hills further supports the description of the flora as having a distinct Cordilleran influence. Genetic work is needed to determine if there are any differences to other populations.

Creeping mahonia is sometimes planted as an ornamental in xeriscape gardens. And, as previously discussed, it is found in Ontario as an exotic species. Thus, there exists the possibility that creeping mahonia was introduced into CHIP in recent years. However, this event seems unlikely as the creeping mahonia population observed in the park was located in a fairly remote area, away from any known trails. Most visitors to the park follow existing roads and trails, none of which passed through the community creeping mahonia was observed within.

Recent dispersal into the park by other means seems unlikely for several other reasons as well. As previously discussed, creeping mahonia produces blue berries, each of which contains several large seeds. The species is thus not adapted to long distance wind dispersal. Moreover, although the plant is sometimes consumed by wild ungulates, it is not a preferred food source.<sup>26</sup> Even if berries were consumed by an ungulate, the long distance from other known creeping mahonia populations argues against this type of dispersal. Dispersal by birds also seems unlikely, although not impossible, given when the berries develop (*i.e.*, mid-summer) and when the majority of birds migrate north (*i.e.*, April to May).

A far more likely explanation for the presence of creeping mahonia in the Cypress Hills is that it has been there for quite some time. The association of

creeping mahonia to other Cordilleran species is likely the key to the explanation of the species' presence in the Cypress Hills. But is its presence in the Cypress Hills an indication that the area was a refugium, or did the species arrive after the melting of the last continental ice sheet?

In a study of land snails in the Cypress Hills, it was argued that the lack of endemic species and proximity of the surrounding ice sheet during continental glaciation supported the conclusion that the Cypress Hills were not a refugium for pre-glacial biota.<sup>27</sup> Instead, the author concluded that the flora and fauna of the hills must have colonized from the southwest in the early post-glacial period. Other authors have pointed to the presence of rare alleles and distinctive cone and seed traits in lodgepole pine as possible evidence the Cypress Hills acted as a refugium.<sup>28,29</sup> However, recent research supports the conclusion that creeping mahonia and other Cordilleran species likely colonized the Cypress Hills during de-glaciation.

Recently developed paleovegetation zonal models suggest that Cordilleran forest expanded northward from the western United States during de-glaciation and was present in the Cypress Hills area approximately 14,000 years BP.<sup>30</sup> As the ice sheet moved north of the Cypress Hills, conditions in the area surrounding the hills became favourable for the development of a grassland ecosystem, which has remained the case ever since. Thus, colonization of Cordilleran vegetation after 14,000 years BP became increasingly unlikely. The aforementioned high elevation of the hills prevented them from becoming dominated by grassland, and could have allowed creeping mahonia and other Cordilleran species to persist to the present day.

A possible northward shift of creeping mahonia distribution following de-glaciation is also supported by recent research on the distribution of other disjunct plant species found in the Cypress Hills. For example, a study of the phylogeography of pine sap (*Monotropa hypopitys*), revealed the probability of glacial refugium in the western and eastern United States.<sup>31</sup> Pinesap's current disjunct distribution in the Cypress Hills is postulated to be the result of colonization north from the western United States during de-glaciation. Similarly, Engelmann spruce (*Picea engelmannii*), whose distribution in Canada is currently confined to the Rocky Mountain region in Alberta as well as parts of British Columbia, is found in the Cypress Hills in hybrids with white spruce. The presence of white spruce-Engelmann spruce hybrids in the Cypress Hills is argued to be the result of hybridization in its refugium in the Montana-Wyoming area followed by northward expansion of those hybrids with glacial retreat.<sup>32</sup>

### Acknowledgements

The author wishes to thank Kelvin Kelly (Saskatchewan TPCS) for arranging for RCS to complete the two range surveys of CHIP - West Block. Tanya Lawson, Park Ranger for the West Block, assisted with field logistics. Amie Enns of SCDC confirmed that creeping mahonia had not previously been observed in Saskatchewan. Bonnie Smith, assistant curator at the University of Calgary herbarium, confirmed the identification of the creeping mahonia species collected. And lastly, thanks to Jon Boyle, Renny Grilz, Jacqueline Redburn, and three anonymous reviewers for commenting on earlier drafts of this manuscript.

1. THORPE, J. 2007a. Saskatchewan Rangeland Ecosystems, Publication 1: Ecoregions and Ecosites. Saskatchewan Research Council Publication No.

- 11881-4E07. Saskatchewan Prairie Conservation Action Plan. Regina, SK. 40 pp.
2. THORPE, J. 2007b. Saskatchewan Rangeland Ecosystems, Publication 4: Communities on the Loam Ecosite. Saskatchewan Research Council Publication No. 11881-4E07. Saskatchewan Prairie Conservation Action Plan. Regina, SK. 48 pp.
3. BREITUNG, A.J. 1954. A botanical survey of the Cypress Hills. *Canadian Field-Naturalist* 68: 55-92.
4. ROWE, J.S. 1959. Forest Regions of Canada. Canada Department of Northern Affairs and Natural Resources. Queen's Printer. Ottawa, ON. 71 pp.
5. MOSS, E.H. 1955. The vegetation of Alberta. *Botanical Review* 21:493-567.
6. NEWSOME, R.D., AND R.L. DIX. 1968. The forests of the Cypress Hills, Alberta and Saskatchewan, Canada. *American Midland Naturalist* 80(1):118-165.
7. ACHUFF, P.L. 1994. Natural Regions, Subregions and Natural History These of Alberta: A Classification for Protected Areas Management. Alberta Environmental Protection, Parks Services. Edmonton, AB. 72 pp.
8. NATURAL REGIONS COMMITTEE. 2006. Natural Regions of Alberta. Compiled by D.J. Downing and W.W. Pettapiece. Government of Alberta. Publication No. T/852. Edmonton, AB. 254 pp.
9. STRONG, W.L., AND K.R. LEGGAT. 1981. Ecoregions of Alberta. Alberta Energy and Natural Resources, Resource Evaluation and Planning Division. ENR Technical Report T/4. Edmonton, AB. 64 pp.
10. STRONG, W.L., AND K.R. LEGGAT. 1992. Ecoregions of Alberta. Alberta Forestry, Lands and Wildlife. Publication No. T/245. Edmonton, AB. 59 pp.
11. ACTON, D.F., G.A. PADBURY, AND C.T. STUSHNOFF. 1998. The Ecoregions of Saskatchewan. Canadian Plains Research Center. Regina, SK. 204 pp.
12. FLORA OF NORTH AMERICA EDITORIAL COMMITTEE (FNAEC). 1997. Flora of North America, Volume 3: Magnoliophyta: Magnoliidae to Hamamelidae. Oxford University Press, NY. 616 pp. <http://www.efloras.org> (accessed October 1, 2011)
13. MOSS, E.H. 1983. Flora of Alberta: An Manual of Flowering Plants, Conifers, Ferns and Fern Allies Found Growing Without Cultivation in the Province of Alberta, Canada. Second Edition Revised by J.G. Packer. University of Toronto Press, Toronto, ON. 687 pp.
14. HITCHCOCK, C.L., AND A. CRONQUIST. 1973. Flora of the Pacific Northwest: An Illustrated Manual. University of Washington Press. Seattle, WA. 730 pp.
15. DOUGLAS, G.W., G.B. STRALEY, D.V. MEIDINGER, AND J. POJAR (editors). 1998. Illustrated Flora of British Columbia, Volume 2: Dicotyledons (Balsaminaceae Through Cucurbitaceae). B.C. Ministry of Environment, Lands & Parks and B.C. Ministry of Forests. Victoria, B.C. 401 pp.
16. SASKATCHEWAN CONSERVATION DATA CENTRE. 2011a. Saskatchewan Vascular Plant Species List (October 2011 version). Saskatchewan Ministry of Environment. Regina, SK. 156 pp. <http://www.biodiversity.sk.ca/Docs/vasc.pdf>. (accessed November 15, 2011).

17. NATURESERVE EXPLORER: AN ONLINE ENCYCLOPEDIA OF LIFE [WEB APPLICATION]. 2011. Arlington, VA. <http://www.natureserve.org/explorer/> (accessed October 1, 2011).
18. THE UNIVERSITY OF MONTANA HERBARIUM (WEB APPLICATION). 2011. *Berberis repens* records. <http://herbarium.dbs.umt.edu/database/DisplayItem.aspx?id=Berberis%20repens&locality=> (accessed November 4, 2011)
19. SASKATCHEWAN PRAIRIE CONSERVATION ACTION PLAN GREENCOVER COMMITTEE. 2008. Rangeland Health Assessment: Native Grassland and Forest. Prairie Conservation Action Plan. Regina, SK. 82 pp.
20. SASKATCHEWAN CONSERVATION DATA CENTRE. 2011b. Tracked Species for Vascular Plants (October 2011 version). Saskatchewan Ministry of Environment. Regina, SK. 40 pp. <http://www.biodiversity.sk.ca/Docs/vasctrak.pdf>. (accessed November 15, 2011).
21. DE VRIES, B., AND C.D. BIRD. 1968. Additions to the vascular flora of the Cypress Hills, Alberta. *Blue Jay* 26:98-100.
22. RANGELAND CONSERVATION SERVICE LTD. (RCS). 2000. Cypress Hills Interprovincial Park (Centre Block) Vegetation and Range Resource Inventory. Unpublished report prepared for Saskatchewan Environment and Resource Management. Swift Current, SK.
23. RANGELAND CONSERVATION SERVICE LTD. (RCS). 2001. Cypress Hills Interprovincial Park (Alberta) Vegetation and Range Resource Inventory. Unpublished report prepared for Alberta Environment, Natural Resources Service. Lethbridge, AB.
24. RANGELAND CONSERVATION SERVICE LTD. (RCS). 2003. Cypress Hills Interprovincial Park (West Block) Vegetation and Range Resource Inventory. Unpublished report prepared for Saskatchewan Environment. Swift Current, SK. 102 pp.
25. RANGELAND CONSERVATION SERVICE LTD. (RCS). 2008. Cypress Hills Interprovincial Park (Centre Block) Vegetation and Range Resource Inventory. Unpublished report prepared for Saskatchewan Ministry of Tourism, Parks, Culture and Sport. Swift Current, SK. 111 pp.
26. TANNAS, C. 2003. Common plants of the western rangelands, Volume 2: Trees and shrubs. Alberta Agriculture. Edmonton, AB. 192 pp.
27. RUSSEL, L.C. 1951. Land snails of the Cypress Hills and their significance. *Canadian Field-Naturalist* 65:174-175.
28. WHEELER, N.C., AND R.P GURIES. 1982a. Population structure, genic diversity, and morphological variation in *Pinus contorta* Dougl. *Canadian Journal of Forest Research* 12:595-606.
29. WHEELER, N.C., AND R.P GURIES. 1982b. Biogeography of lodgepole pine. *Canadian Journal of Botany* 60:1805-1814.
30. STRONG, W.L., AND L.V. HILLS. 2005. Late glacial and Holocene palaeovegetation zonal reconstruction for central and north-central North America. *Journal of Biogeography* 32:1043-1062.
31. BEATTY, G.A., AND J. PROVAN. 2011. Phylogeographic analysis of North American populations of the



parasitic herbaceous plant *Monotropa hypopitys* L. reveals a complex history of range expansion from multiple late glacial refugia. *Journal of Biogeography* 38:1585-1599.

32. STRONG, W.L., AND L.V. HILLS. 2006. Taxonomy and origin of present-day morphometric variation in *Picea glauca* (x *engelmannii*) seed-cone scales in North America. *Canadian Journal of Botany* 84:1129-1141.



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## NATURE NOTES AND LETTERS

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### FIRST RECORD OF LICHENS FOR HASBALA LAKE, SASKATCHEWAN

BERNARD DE VRIES

*bdevries@accesscomm.ca*

The purpose of this paper is to document 39 lichens, including 2 subspecies, 1 form, and 2 rare taxa for Hasbala Lake of Saskatchewan.

No earlier lichenological studies for Hasbala Lake (59 57 N 102 00 W) are known. A first detailed survey of the Hasbala Lake region ecosites, including lichens, was made by the Forest Ecosystem Classification Survey in 1997.<sup>11</sup> A subsequent botanical survey of the southwest Hasbala Lake region was made by de Vries<sup>3</sup> as a supplement to Argus.<sup>1</sup> During this survey a few lichens were observed and incorporated in this paper, denoted with an asterisk (\*).<sup>3</sup>

#### Location of Hasbala Lake

Hasbala Lake lies well within the subarctic section of northeastern Saskatchewan and is part of the taiga ecozone, which supports open subarctic lichen woodlands with mixed forest-tundra.<sup>6,7</sup>

This ecozone is dominated by coniferous taiga vegetation. The predominant tree species is Black Spruce (*Picea mariana*) both in upland sites and in the very extensive poorly-drained peatlands where it commonly grows with tamarack (*Larix laricina*). White Spruce (*Picea glauca*)

is restricted to sheltered valley bottoms and lake shores. A minor broad-leaved component is found in some upland sites in the form of scattered White birch (*Betula papyrifera*). The area is also characterized by ericaceous shrubs and occasional Willow (*Salix*).

Lichen woodlands is the dominant forest type in the uplands, characterized by an open canopy structure and extensive mats of terricolous lichens, e.g. Reindeer lichens (*Cladonia*), Foam lichens (*Stereocaulon*) and Iceland lichens (*Cetraria*) in order of dominance, partnered with a diverse assemblage of epiphytic lichens attached mainly to tree bark. Feather mosses (*Pleurizium schreiberi*) and (*Hylocomium splendens*) are also common in upland forests.

Lowland forests are characteristically very open with a predominant ground cover of Peatmoss (*Sphagnum*), and other bryophytes, although lichens are sometimes an important component of the ground and epiphytic flora in peatlands.<sup>5</sup>

As more sampling is done, the rate at which new species are acquired falls off, because all but the rarest species have been collected.<sup>11</sup>

## Lichens Of Hasbala Lake

Each species have their scientific and common names followed by habitat, and geographic distribution. Nomenclature follows that of Esslinger<sup>4</sup>, while distribution is that of Brodo et al.<sup>2</sup>

## Terrestrial Lichens

*Cetraria ericetorum* Opiz, Iceland lichen . On earth in open woodlands. Circumpolar boreal and arctic-alpine.<sup>9</sup>

*Cladonia amaurocraea* (Flörke) Schaerer, Quill lichen. Forest floor. Circumpolar, arctic and boreal.

*Cladonia arbuscula* ssp. *mitis* (Sandst.) Ruoss, Yellow reindeer lichen, Open dry sandy soil. Circumpolar, arctic to temperate.

*Cladonia borealis* S. Stenroos, Boreal pixie-cup. Open xeric sandy soil. Circumpolar, low-arctic.

*Cladonia botrytes* (K.G. Hagen) Willd., Wooden soldiers. Decaying tree stump in Black Spruce forest. Circumpolar, boreal  
*Cladonia cariosa* (Ach.) Sprengel, Split-peg lichen. Open sandy soil. Circumpolar, arctic to temperate.

*Cladonia cenotea* (Ach.) Schaerer, Powdered funnel lichen. On earth of forest floor. Circumpolar in the northern hemisphere, low-arctic, boreal.

*Cladonia chlorophaea* (Flörke ex Sommerf.) Sprengel,\* Mealy pixie-cup. Open xeric sandy soil. Circumpolar, boreal.

*Cladonia coccifera* (L.) Willd. Madame's pixie-cup. In open muskeg. Circumpolar, northern boreal, arctic

*Cladonia coniocraea* (Flörke) Sprengel Common powderhorn. Shaded Forest.

Circumpolar, boreal to south temperate.

*Cladonia cornuta* (L.) Hoffm. ssp. *cornuta*, Bighorn cladonia. Open soil. Circumpolar, boreal, low-arctic.

*Cladonia crispata* (Ach.) Flotow var. *crispata*, Organ-pipe lichen. Open soil. Circumpolar, boreal, low-arctic.

*Cladonia cristatella* Tuck., British soldiers. Open forest location on soil. Boreal, temperate

*Cladonia deformis* (L.) Hoffm., Lesser sulphur-cup. On soil in open woodlands. Circumpolar, low arctic, boreal.

*Cladonia fimbriata* (L.) Fr.\*, Trumpet lichen. On soil in open forest. Circumpolar, low-arctic, boreal.

*Cladonia gracilis* ssp. *turbinata* (Ach.) Ahti, Smooth cladonia. On exposed soil. Cosmopolitan, low-arctic, boreal, temperate.

*Cladonia gracilis* f. *floripara* (Flörke) Flörke, Smooth cladonia. On exposed soil. No geographic range known. Presumably that of the species.<sup>8</sup> (see later discussion).

*Cladonia pleurota* (Flörke) Schaerer., Red-fruited pixie-cup On forest soil. Circumpolar, arctic, boreal.

*Cladonia rangiferina* (L.) F.H. Wigg., Grey reindeer lichen. Open dry sandy soil. Circumpolar, arctic to temperate.

*Cladonia sulphurina* (Michaux) Fr., Greater sulphur-cup On forest floor. Circumpolar, low arctic.

*Cladonia uncialis* (L.) F.H. Wigg., Thorn cladonia. On bare soil. Circumpolar, arctic, temperate.

*Flavocetraria nivalis* (L.) Karnefelt & Thell, Crinkled snow lichen. On earth with mosses in open location. Arctic-alpine, boreal.

*Uromyces ericetorum* (L.) Zahlbr., Candy lichen. Over mosses in forest. Circumpolar, boreal.

*Peltigera aphthosa* (L.) Willd., Common freckle pelt. On mossy ground in forest. Circumpolar, boreal.

*Peltigera rufescens* (Weiss) Humb.\* , Field-dog lichen. On xeric sandy soil. Circumpolar, arctic, boreal

*Stereocaulon paschale* (L.) Hoffm., Easter lichen. On open soil. Circumpolar, arctic, boreal.

*Stereocaulon tomentosum* Fr.\* , Woolly foam lichen. On open soil. Circumpolar, northern boreal.

## Epiphytic Lichens

*Bryoria lanestrus* (Ach.) Brodo and D. Hawksw., Brittle horsehair lichen. On Black Spruce branches. Circumpolar, but mainly a boreal species.

*Bryoria nadvornikiana* (Gyelnik) Brodo and D. Hawksw., Spiny grey horsehair lichen. On Black Spruce bark in muskeg. Southern edge of the tundra and a peripheral species for northern Saskatchewan. Probably circumpolar. (see later discussion).

*Evernia mesomorpha* Nyl., Boreal oakmoss lichen. On Black Spruce bark. Circumpolar, boreal, temperate.

*Hypogymnia physodes* (L.) Nyl., Monk's-hood lichen. On Black Spruce bark. Circumpolar, arctic, temperate.

*Lecanora circumborealis* Brodo and Vitik,

Black-eyed rim-lichen. On Black Spruce branch. Circumpolar, boreal

*Melanohalea olivacea* (L.) O. Blanco et al. (*Melanelia olivacea*), Spotted camouflage lichen. On Black Spruce branch. Circumpolar, arctic, boreal.

*Melanohalea septentrionalis* (Lyngé) O. Blanco et al. (*Melanelia septentrionalis*), Northern camouflage lichen. On Black spruce bark. Circumpolar, low arctic, northern boreal.

*Parmeliopsis ambigua* (Wulfen) Nyl., Green starburst lichen. On Black Spruce bark. Circumpolar in the boreal forest.

*Parmeliopsis hyperopta* (Ach.) Arnold, Gray starburst lichen. On Black Spruce bark. Circumpolar in the northern forest.

*Tuckermannopsis americana* (Sprengel) Hale, Fringed wrinkle-lichen. On Black Spruce bark. Low arctic, boreal forest.

*Tuckermannopsis sepincola* ((Ehrh.) Hale, Chestnut wrinkle-lichen. On Black Spruce bark. High arctic, northern boreal.

*Vulpicida pinastri* (Scop.) J.E. Mattsson and M.L. Lai, Powdered sunshine lichen. On Black Spruce bark. and as litter on forest floor. Circumpolar, arctic, boreal

## Discussion

As no previous lichenological surveys are known for Hasbala Lake, prior to the 1997 forest ecosystem classification survey, the recorded lichens can be seen as new to its lichen flora. These lichens are common boreal forest species with a circumpolar and arctic to sub-arctic distribution pattern, e.g. belonging to the arctic element such as *Cladonia coccifera*<sup>9</sup> and the boreal element as *Melanohalea septentrionalis*.<sup>2</sup>

## First Records For Hasbala Lake

*Cladonia gracilis* f. *floripara* (Flörke) Flörke. Only as a form of the species

on an exposed upper ridge of esker on mineral soil, among Black Spruce and *Cladonia gracilis* ssp. *turbinata*. The form has short podetia and cup-margins thickly set with a continuous ring of dark apothecia. However, one must be cautious in accepting such forms, as these could very well be genetically or environmentally caused. The form could be considered as rare for Saskatchewan.<sup>8</sup>

### Second Record For Hasbala Lake

The occurrence of *Bryoria nadvornikiana* (Gyelnik) Brodo and D. Hawksw. Synonym: *Alectoria nadvornikiana* Gyelnik remains controversial. It was previously reported from this vicinity by Thomson<sup>9</sup> as new to northern Saskatchewan, and again recorded by Wright<sup>10</sup> on Black Spruce on a gravelly esker at Hasbala Lake.

The species is common in northern Europe, and documented for North America as low-subarctic peripheral reaching the north-central Saskatchewan and Northwest Territory's boundary and in eastern Canada.<sup>2</sup>

### Comments

The presence of a significant arctic-subarctic element in the lichen flora of northeastern Saskatchewan is not surprising, since the surveyed area is part of the northwest transitional section of Rowe<sup>7</sup> with close proximity of open subarctic woodlands with a mixed forest-tundra vegetation and the majority of species have an arctic to low-arctic distribution pattern.

### Summary

Thirty-nine taxa are new to the lichen flora of Hasbala Lake including two subspecies, and one form. Two species are reported as rare to Saskatchewan.

1. Argus GW (1966). Botanical Investigations in northeastern Saskatchewan: the subarctic Patterson-

Hasbala Lakes Region. Canadian Field Naturalist, 80:119-143.

2. Brodo IM, Sharnoff SD, Sharnoff S. (2001). *Lichens of North America*. Yale University Press, New haven, U.S.A.

3. de Vries B (1977). Further Notes on the Vascular Flora of the Hasbala Lake Region, Saskatchewan. Blue Jay 35(2):74-76.

4. Esslinger TI (2011). A cumulative checklist for the lichen-forming lichenicolous and allied fungi of the continental United States and Canada, North Dakota State University: <http://www.ndsu.edu/pubweb/~esslinger/chcklst/chcklst7.htm> (First Posted 1 December (1997), Most recent version #16, 18 June 2010, Fargo, North Dakota

5. McLaughlin MS, Wright RA, Jiricka RD (2010). *Field Guide to the Ecosites of Saskatchewan's Provincial Forests*. Saskatchewan Ministry of Environment, Forest Service, Prince Albert, Saskatchewan.

6. Rowe JS (1959). Forest regions of Canada. Canada Department of Northern Affairs and natural resources. Forestry Branch Bulletin 123:1-71.

7. Rowe JS (1972). Forest regions of Canada. Ministry of Environment Canada, Ottawa, Ontario, Canada..

8. Thomson JW (1967). *The Lichen Genus Cladonia in North America*. University of Toronto Press, Toronto, Ontario, Canada.

9. Thomson JW (1984). *American Arctic Lichens* 1. The Macrolichens. Columbia University Press, New York, U.S.A.

10. Wright RA (1997) Forest Ecosystems Classification Survey. Unpublished report.

11. Wright RA, de Vries B (2012) Lichens of Saskatchewan-Provincial List: [www.biodiversity.sk.ca/docs/lichens.pdf](http://www.biodiversity.sk.ca/docs/lichens.pdf).

**Acknowledgement**

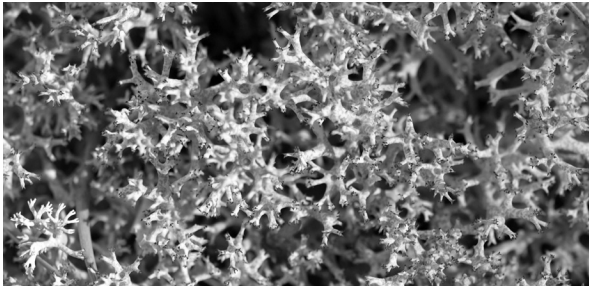
I would like to thank Dr. Rob Wright for his valued comments and suggestions for this paper, and Steve Porter for his help in providing a map for the area.



*Cladonia cristatella* Bernard de Vries  
(see front cover for colour)



*Vulpicida pinastri* Bernard de Vries  
(see inside back cover for colour)



*Cladonia arbuscula* Bernard de Vries  
(see inside top - front cover for colour)



*Stereocaulon tomentosum* Bernard de Vries  
(see inside bottom - front cover for colour)



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# MYSTERY PHOTO

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September 2012 MYSTERY PHOTO



*Myrna Townsend*

See inside back cover for this and other colour images of this month's mystery photo. Can anyone explain what is illustrated in these photos?

Do you think you know what the mystery photo is? Send your answers to: [bluejay@naturesask.ca](mailto:bluejay@naturesask.ca) for a chance to win cool stuff!

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June 2012 MYSTERY PHOTO



The photo is of a sporophyll (fertile leaf) of a quillwort. Quillworts are submerged aquatic plants in the clubmoss phylum (Lycopodiophyta). Each quillwort plant superficially resembles a tuft of grass in shallow water of a lake. Quillworts are found throughout Canada. These plants reproduce by spores, not seeds. The photo shows some of the spores inside the sporangium at the base of the leaf. Such fertile leaves are often washed up onto beaches after storms. It is often the only way that we know that there are quillworts in a lake. They are told from grasses because they have the spoon shaped sporangium at the base of the leaf. -Richard Staniforth

The lucky NS who correctly identified the June Mystery Photo is Beth Dolmage, who will receive a prize from Nature Sask. Thanks to all who sent in answers for the mystery photo.



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Blue Jay, founded in 1942 by Isabel M. Priestly, is a journal of natural history and conservation for Saskatchewan and adjacent regions. It is published quarterly by **Nature Saskatchewan, 206-1860 Lorne Street, Regina, Saskatchewan S4P 2L7.**

CN ISSN 0006-5099

Editors: Kerry Hecker and Lowell Strauss P.O. Box 247 Simpson, SK S0G 4M0

Email: bluejay@naturesask.ca

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Printed by Administration Centre Printing Services, Regina, SK.

THIS ORGANIZATION RECEIVES FUNDING FROM







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 Phone: (306) 780-9273 or  
 toll free 800-667-4668 (Saskatchewan only)  
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