Some New and Interesting

PLANT RECORDS

For the Prairie Province

by J. LOOMAN*

Introduction

In the 3 years since I reported range extensions of several species in Manitoba, further new or interesting records have been collected.¹⁰ Specimens of the species mentioned are all in the herbarium of the Research Station, Swift Current, Saskatchewan under the collection numbers quoted.

Data and Discussion

Beech Fern (Thelypteris phegopteris (L.) Slosson). McLennan Lake, Saskatchewan, at about 55° 53′ N 104° 22′ W, Looman 16533. Along small stream in shaded coniferous forest; fairly plentiful.

Boivin gives the distribution of this species as ranging from Nova Scotia to British Columbia, but remarks: "With only one known collection per province, we admit to being puzzled by this high degree of sporadism."3 Scoggan mentions a single collection (at about 57° N, 102° W) for Manitoba¹³; Moss does not list the species for Alberta¹²; Fraser and Russell have the species as occurring in the coniferous forest zone7, and Breitung gives records at Lake Athabasca, Clut Lake (north of Fond du Lac), and Porter Lake (which may be in the Northwest Territories, rather than Saskatchewan).⁵

The present collection is not only that of a rare species, but also well south of the known collections.

Smooth Crabgrass (Digitaria

ischaemum (Schreb.) Muhl.), Moo Lake, Manitoba, 49° 12′ N 95° 20′ V Looman 14998. In disturbed ar along roadside, with Witch Gra (Panicum capillare L.).

Previously reported only from Winipeg. ¹³ This species has glabro sheaths and leaves, and its i florescence has usually three raceme while in *D. sanguinalis* (L.) Scop. t sheaths and leaves are pubescent, at the inflorescence usually has five more racemes.

Smooth Grabgrass is a rather common and troublesome weed in Easte Canada but is very rare in the West. Moose Lake it was plentiful along t side of a now apparently little us road to a former logging camp.

Pine Grass (Calamagrostis rubesce Buckl.) Nipawin Provincial Par Grace Lake, Saskatchewan, at about 54° 01′ N 104° 32′ W, Looman 1663 Along trail in moderately deconiferous forest.

This species was known in Saska chewan only from the Cypress Hi Provincial Park. 4 6 7 14 Boivin gives distribution as southwest Saska chewan to British Columbia.2 Mo lists the species only for Weste Alberta, and de Vries and Bird do n include it in their list of "Cordillera species. 12 15 However, Tisdale at Budd mention that the species w collected in the Albertan Cypress Hi by Bolton, and a specimen labell "Cypress Hills, Alta." collected Bolton in 1936 is in the herbarium the Research Station, Swift Current Breitung also lists a specimen from t Albertan Cypress Hills.4 The prese location is far north and east hitherto known distribution and it

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possible that further locations in the Boreal forest will be found. Several of the Cordilleran species, listed by Breitung and de Vries and Bird show this type of distribution, for example, Pipsissewa (Chimaphila umbellata var. occidentalis), Pinesap (Monotropa sypopithys), and Pinedrops (Pterospora mdromedea). 4 15

Muhly (Muhlenbergia andina (Nutt.) Hichc), Birch River Community Pasture, Manitoba, at about 52° 30′ N 01° 01′ W, Looman 15334. Wet arean shallow depression. Duck Mountain Provincial Park, Laurie Lake, Manitoba, 51° 33′ N 101° 03′ W, Looman 15415. On moist rocky beach. Incommon in the Birch River Community Pasture, but very abundant on the shore of Laurie Lake. New to Lanada.

This species has not previously been eported east of the Rocky Mountains. brams gives its distribution as "open round, Arid Transition ascade and Sierra Nevada Mountains om Washington to California, east to yoming." Hitchcock includes Monina, at medium altitudes, in the istribution area.9 Its occurrence some or 3° north, and possibly 14° east of e hither-to known range is rather izzling. Though it is not impossible at this species has been overlooked the intervening area, I doubt hether this alone can account for the parent discontinuity in stribution of M. andina. Supercially, confusion with Bog Muhly (M. omerata) and Marsh Muhly (M. cemosa) is possible, and both these ecies are widely distributed in the airie Provinces. It is therefore not tirely impossible, though rather likely, that some misidentified ecimens of M. andina are in herria. Examination under moderate Ox or more) magnification will bring ch specimens to light. Also, while g Muhly is a plant of oligotrophic arshes, and Marsh Muhly occurs ainly in forest margins and shrubry on rather dry soils, M. andina ocrs on somewhat saline, wet soil in th locations in Manitoba.

stemless Lady's-slipper, (Cyprilium acaule Ait.), Moose Lake, Manitoba, Looman 14977; McKay Lake, Saskatchewan, 55° 27′ N 104° 56′ W, Looman 16623; Lac Ile a-la-Crosse, Saskatchewan, 55° 25′ M 104° 56′ W, Looman 16953. Shady and open coniferous forests on sandy soil (Fig. 1).



Fig. 1. Stemless Lady's-slipper (*Cypripedium acaule* Ait.)

In Manitoba this species is reported only from the Whiteshell Forest Reserve, Victoria Beach and Herb Lake Village. 13 Fraser and Russell report it (as *Fissipes acaulis*) from forests in the Grey Podsol soils and Precambrian shield zone. 7 Breitung lists Lac la Ronge and Lake Athabasca as the only locations in Saskatchewan. 5

Moss gives northeastern Alberta, but does not indicate the abundance of the species.¹² Stemless Lady's Slipper has also been sent in to me for identification from "north of Green Lake."

Maiden Pink. (Dianthus deltoides L.). Cold Lake, Saskatchewan, 54° 33′ N 109° 52′ W, Looman 17686. Disturbed area in open pine-spruce forest on sandy soil (Fig. 2).



Fig. 2. Maiden Pink (Dianthus deltoides L.)

Hitherto known in Canada from Nova Scotia to Ontario and British Columbia.² The only other *Dianthus* species in the Prairie Provinces are Wood-pink (D. sylvestris Wulfen), with a glabrous calyx (pubescent and somewhat glandular in Maiden Pink), and Sweet William (D. barbatus L.) which has a congested inflorescence.

The genus *Dianthus* is apparently not native to North America, and the occurrence of Maiden Pink in this isolated location forms another puzzle. There is a cabin about three-quarters of a mile north of the location and across the Cold River. But this

cabin belongs to a trapper who uses only in winter and there is no garder Topographic maps of the area indicat a ranger's cabin approximately at the location, but this cabin was never there according to forest rangers whom asked for information. At present, two picnic tables and a toilet are in the general area but old-timers in near Pierceland assured me that no one has ever lived permanently in the area of maintained a garden there.

Swamp Saxifrage (Saxifraga per sylvanica L. ssp. pensylvanica). Moos Lake area, Manitoba, Looman 1486 Very sparse in muskeg area (Fig. 3).



Fig. 3. Swamp Saxifrage (Saxifraga pensylvanica L.)

The species is new to Manitoba at was previously known in Canada of from the Rainy River area in Ontail. It was collected there by Ward, dated, and Garton, 1961, as shown therbarium labels. In a personal comunication confirming identification of this species, Dr. Boivin notes to the species is cited by Macoun states.

ollected by Day in low places near ort Erie but that he has been unable ind the Day specimens anywhere." Ience, he considers the report unsubtantiated and notes further that leason includes Ontario in the range if the species on the basis of Macoun's port. The first authentic report for lanada is that of Bovin which is based in the Rainy River collections. The resent location in Manitoba is about miles across Lake of the Woods om the Ontario locations.

Northern Wild Comfrey. Cynoglossum boreale Fern). Moose ake, Manitoba, Looman 14800. In toist woods around the lake.

Previously known only from four her locations in Manitoba. This is nother "rare" species. Dr. Boivin, in personal communication, remarks A very rare plant. Can you guess at e reason for its rarity?"

It is possible to make a guess at rity but it will be much harder to ove this guess correct or incorrect. my opinion, native plants can be e for three main reasons: Firstly, cause of their limited tolerance to bitat conditions, which makes table habitat types scarce. In this e, a species may be found in only y few locations but may be quite ntiful there. Secondly, because of y special adaptations, such as those the orchids which require a symnt. This case is very similar to the t one, but the species can occur in her varied habitat types, as long as symbiont is present. Thirdly, the roductive capacity of the species y be limited so that it cannot ome abundant.

t is possible that a species has two, even all three of the above characstics and is very rare indeed. Thus, rthern Wild Comfrey may well be ited to the moist, shady coniferous ods on sandy soils, as those at ose Lake. It also appears to set her few seeds, so that its reproduccapacity is limited. Given these ditions, the species must be and at remain rare in general as well as all occurrence. ¹ABRAMS, L. 1940. *Illustrated flora of the pacific states*. Stanford Univ. Press, Stanford, California. 1 vol.

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⁵BREITUNG, A. J. 1957. Annotated catalogue of the vascular flora of Saskatchewan. Amer. Midl. Naturalist 58: 1-72.

⁶BUDD, A. C. and K. F. BEST. 1964. Wild plants of the Canadian prairies. Can. Dep. Agr. Pub. 983.

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¹¹MACOUN, J. 1886. Catalogue of Canadian plants. Part III — Apetalae. Dawson Brothers. Montreal.

¹²MOSS, E. H. 1959. Flora of Alberta. Univ. of Toronto Press.

¹³SCOGGAN, H. J. 1957. *Flora of Manitoba*. Bull. 140. Nat. Mus. of Can., Ottawa.

¹⁴TISDALE, E. W. and A. C. BUDD. 1948. Range extensions for three grasses in western Canada. Can. Field-Naturalist 62: 173-175.

¹⁵VRIES, B. DE, and C. D. BIRD. 1968. Additions to the vascular flora of the Cypress Hills, Alberta. Blue Jay 26: 98-100.



Yellow Lady's-Slipper

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