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NOTES FROM THE HERBARIUM OF THE GEOLOGICAL SURVEY OF CANADA.

BY JAMES M. MACOUN.

ARABIS WHITEDII, Piper, Bull. Torr. Bot. Club, xxviii: 39.

Near Sidley, west of Midway, B.C., 1905. Herb. No. 70,820. (*W. Spreadborough*). New to Canada. Only flowering specimens were collected and these in general appearance resemble *Lesquerella* rather than *Arabis*. Determined by Dr. Greene.

LEPIDIUM CAMPESTRE, (L.) R. Br.

Becoming common in Eastern Canada, especially in Ontario. Collected at Lower Montague, Prince Edward Island, by Mr. Geo. A. Amear.

SPIRÆA PYRAMIDATA, Greene, Pittonia II: 221.

S. Douglasii, var. *Nobleana*, Can. Rec. Sci., 1895, p. 3.

The plant which was referred above by the writer to *S. Douglasii*, var. *Nobleana*, proves to be *S. pyramidata*. It was collected at Sicamous, B.C., by Prof. Macoun. A single bush over five feet high of what is doubtfully referred here was found growing along the trail near Lake House, Skagit River, B.C., by J. M. Macoun, June 27, 1905, No. 69,957. The flowers were too immature for definite determination, but unless a hybrid between *S. lucida* and *S. Menziesii*, both of which grew near, it is probably this species. Spreadborough in 1906 found a bush in flower at 4,500 ft. alt. near Chilliwack Lake, B.C., No. 72,872, and again with *S. lucida* and *S. Menziesii* which makes it more probable that this white-flowered bush is a hybrid.

SPIRÆA DENSIFLORA, Nutt.; Torr. & Gray. Fl. I: 414.

S. betulæfolia var. *rosea*, Gray.

S. arbuscula, Greene.

Recorded from the Selkirk Mts., B.C., by many collectors. Not rare in the Chilliwack Valley, B.C., between 4,000 and 6,000

feet altitude, Nos. 34,822, 34,823; abundant at 5,000 feet altitude on one mountain near the second summit west of Skagit River, B.C., No. 69,949. Not seen elsewhere in the Skagit Valley. (*J. M. Macoun.*)

SPIRÆA DOUGLASII, Hook.

Abundant at Chilliwack, B.C., No. 34,819, and Sumas Lake, B.C., No. 34,820. (*J. M. Macoun.*) Not before recorded from the B. C. mainland.

PETASITES DENTATA, Blankinship, Mon. Agr. Coll. Sci. Stu. I: 64.

P. sagittata, Macoun, Cat. Can. Pl. I: 260 in part.

Long separated from *P. sagittata* in our herbarium but without a name. The shape of the leaf is intermediate between those of *P. palmata* and *P. sagittata*. Pursh described the radical leaves of *P. sagittata* as being "oblongis acutis sagittatis integerimus, lobis obtusis." The specimens he saw were from Hudson Bay. Gray in order to include western specimens changed the description of the leaves to "deltoid-oblong to reniform-hastate, from acute to rounded-obtuse, repand-dentate." A common species throughout the prairie region extending west at least to the Rocky Mountains. In British Columbia it is replaced by *P. speciosa*. Dr. Greene, (*Leaflets* p. 180), described a plant collected by Prof. Macoun at Emerson, Man., in 1880, (Herb. No. 72375), calling it *P. vitifolia*. The configuration of the leaf is quite unlike that of any of the specimens referred to *P. dentata*.

VERNONIA CORYMBOSA, Schweinitz.

Damp prairies, near Morris, Man., Aug. 8th, 1906, No. 23,104. (*John Macoun.*) Not before recorded from Canada. Vernonias are abundant in southwestern Ontario and from that region we have specimens which have been referred to *V. gigantea*, *V. fasciculata* and *V. Drummondii* and what appear to be typical plants of all three are in our herbarium, but other specimens cannot certainly be determined so that they cannot yet be recorded.

DISCOURSES UPON THE LEPIDOPTERA.
I. VARIATION.

BY. F H. WOLLEY-DOD, MILLARVILLE, ALTA.

In Europe, more particularly in the British Isles, species of lepidoptera are less frequently confused, and variation far better understood, than on the North American continent. Many of



Macoun, James Melville. 1909. "Notes from the Herbarium of the Geological Survey of Canada." *The Ottawa naturalist* 23(7), 121–122.

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