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ADDITIONS TO THE VASCULAR FLORA OF MONTANA AND WYOMING

Robert W. Lichvar¹ and Robert D. Dorn²

ABSTRACT.— A list of one taxon new for Montana and 10 new for Wyoming is presented, plus comments about *Astragalus molybdenus*.

Recent field work has added one additional species to the flora of Montana and 10 additional species for Wyoming. The following herbaria were consulted for the taxa reported below: BYU, COLO, CSU, ID, IDS, MONT, MONTU, NEB, RM, US, UTC. Comments on the taxonomic status of *Astragalus molybdenus* Barneby in Wyoming are included.

ASTERACEAE

Ratibida tagetes (James) Barnh. Wyoming, Laramie Co., 3 miles W. of Cheyenne (T14N R67W S28 SE¼ SW¼), 1890 m, 17 Aug 1980, R. Dorn 3612, RM.

First report for Wyoming. Likely introduced with Blue Grama seed.

Solidago speciosa Nutt. Wyoming, Crook Co., Bear Lodge Mountains (T54N R62W S20), 1430 m, 18 July 1980, R. Lichvar 3185, RM; R. Dorn 3545, RM.

First report for Wyoming. In Atlas Fl. Gt. Plains (Barkley 1977) a dot is given for Goshen Co., but that dot represents a specimen of *S. missouriensis* (R. Hartman, pers. comm., 1981).

BRASSICACEAE

Draba verna L. Wyoming, Yellowstone National Park, Old Faithful area near Belgian Pool, 2285 m, 25 Apr 1980, R. Lichvar 2544, RM.

First report for Wyoming.

CAMPANULACEAE

Campanula aparinoides Pursh. Wyoming, Crook Co., Bear Lodge Mountains (T54N

R63W S2), 1430 m, 18 Jul 1980, R. Dorn 3549, RM, US; R. Lichvar 3196, RM, US.

First report for Wyoming.

CROSSOSOMATACEAE

Forsellesia meionandra (Koehne) Heller. Wyoming, Sweetwater Co., Little Firehole Basin (T17N R106W S26 NW¼ NW¼), 2040 m, 2 Jul 1980, R. Dorn 3508, RM. Sweetwater Co. (T16N R106W S10 SE¼), 1980 m, 3 Jul 1980, R. Dorn 3512, RM.

First report for Wyoming.

CYPERACEAE

Carex granularis Muhl. Wyoming, Crook Co., Bear Lodge Mountains (T54N R63W S2), 1430 m, 18 Jul 1980, R. Lichvar 3206, RM; R. Dorn 3548, RM.

First report for Wyoming.

FABACEAE

Astragalus molybdenus Barneby. Wyoming, Lincoln Co., Salt River Range, Head of Corral Creek (T31N R117W S16), 2865 m, 21 Aug 1980, R. Dorn 3661, RM, NY; R. Lichvar 3600, RM, NY. Same location, 17 Sept 1980, R. Lichvar 3926, RM, NY; R. Dorn 3682, RM, NY.

The Sept collections represent the first collection of fruits for this species in Wyoming. Barneby (1964) noted "An astragalus resembling *A. molybdenus* in habit . . . collected in flower in the Salt River Mountains in Western Wyoming . . ." and commented that, "when better known may prove to be a sec-

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ond member of sect. *Minerales*." We cannot distinguish the flowering and fruiting material of the Wyoming material from the Colorado material of *A. molybdenus*. Barneby (1980) has described this as a new species, *A. shultziorum*.

Oxytropis riparia Litv. Wyoming, Fremont Co., Ice Slough along Rt. 287 (T29N R93W S6 NW¼), 2285 m, 11 Aug 1980, *R. Lichvar* 3407, RM.

Second report for Wyoming. S. Welsh (pers. comm., 1979) reported a collection from Seedskaadee Natl. Wildlife Refuge, Sweetwater Co., but no specimens have been seen.

LABIATAE

Lycopus uniflorus Michx. Wyoming, Crook Co., Bear Lodge Mountains (T54N R63W S11 N½), 1433 m, 5 Sept 1981, *R. Dorn* 3718, RM, NY.

First report for Wyoming.

POACEAE

Phippsia algida (Phipps) R. Br. Montana, Carbon Co., Beartooth Plateau (T9S R19E

S33 NW¼), 2990 m, 12 Aug 1980, *R. Dorn* 3586, RM, MONT.

First report for Montana.

POTAMOGETONACEAE

Potamogeton crispus L. Wyoming, Sweetwater Co., Flaming Gorge (T14N R108W S13 SW¼), 1830 m, 24 Sept 1979, *D. Shute s.n.*, RM; Sweetwater Co., Flaming Gorge at Utah-Wyoming state line (T12N R108W S20 NE¼), 1830 m, 1 July 1980, *R. Lichvar*, 2880, RM.

First report for Wyoming.

RANUNCULACEAE

Anemone virginiana L. Wyoming, Crook Co., Bear Lodge Mountains, (T54N R63W S2), 1430 m, 18 Jul 1980, *R. Dorn* 3550, RM.

First report for Wyoming.

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