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# Additions to the vascular flora of Montana and Wyoming

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## ADDITIONS TO THE VASCULAR FLORA OF MONTANA AND WYOMING

Robert W. Lichvar<sup>1</sup> and Robert D. Dorn<sup>2</sup>

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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