

## GEUM LACINIATUM MUIR. AND POTENTILLA RECTA L. NEW TO SOUTH DAKOTA

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For the past two summers an intensive study has been made of the flowering plants of Codington County, in northeastern South Dakota. Numerous collections have been made and classified and the distribution of the species studied. Two species in the family Rosaceae which have not been previously reported for the state were collected in this area. *Potentilla recta* L. was collected along the roadside of Highways 212, three miles west of Watertown, on July 14, 1957. *Geum laciniatum* Muir. was collected three miles east and one-half mile south of Waverly in a damp meadow on July 6, 1958. These species were not reported for South Dakota in Over's "Flora of South Dakota. An Illustrated Check-List of Flowering Plants, Shrubs and Trees of South Dakota" (1) or in McIntosh's "A Botanical Survey of the Black Hills of South Dakota" (2).

The species were determined using Gleason's "New Britton and Brown Illustrated Flora of the Northeastern United States and Adjacent Canada" (3); "Gray's Manual of Botany" by Fernald (4); and Rydberg's "Flora of the Prairies and Plains of Central North America" (5).

*Geum laciniatum* Muir. can be distinguished from the other closely related species which have been reported for the state. The following are distinguishing characteristics:

	<i>Geum laciniatum</i>	Others
Flower color	White	<i>G. aleppicum</i> and <i>G. macrophyllum</i> are yellow
Achenes	Not reflexed	<i>G. canadense</i> —reflexed
Receptacle	Nearly glabrous	<i>G. canadense</i> and <i>G. virginianum</i> —hirsute
Peduncles	Long hirsute with divergent or reflexed hairs	<i>G. canadense</i> and <i>G. virginianum</i> —minutely puberulent, with or without scattered longer hairs

*Potentilla recta* L. can be separated from the other closely related members of the genus found in the state. The following are distinguishing characteristics:

	<i>Potentilla recta</i>	Others
Leaf	Digitately compound, five or more leaflets	Some—pinnately compound leaves
Stem	Simple to inflorescence	<i>P. rivalis</i> —many branched stem
Anther	1.0—1.5 mm. long	<i>P. rivalis</i> —0.2—0.7 mm. long
Achenes	Rugose reticulate	<i>P. rivalis</i> and <i>P. gracilis</i> —smooth
Petiole hairs	Bristly and spreading	<i>P. gracilis</i> —appressed or ascending

Herbarium specimens of *Geum laciniatum* Muir., collection No. 682a, and *Potentilla recta* L., collection No. 247, are deposited in the herbarium of the State University of South Dakota. These two species should therefore be added to the known flora of South Dakota.

### BIBLIOGRAPHY

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