



1-31-1996

Astragalus laxmannii Jacquin (Leguminosae) in North America

R. C. Barneby

The New York Botanical Garden, Bronx, New York

S. L. Welsh

Brigham Young University

Follow this and additional works at: <https://scholarsarchive.byu.edu/gbn>

Recommended Citation

Barneby, R. C. and Welsh, S. L. (1996) "*Astragalus laxmannii* Jacquin (Leguminosae) in North America," *Great Basin Naturalist*: Vol. 56 : No. 1 , Article 10.

Available at: <https://scholarsarchive.byu.edu/gbn/vol56/iss1/10>

This Note is brought to you for free and open access by the Western North American Naturalist Publications at BYU ScholarsArchive. It has been accepted for inclusion in *Great Basin Naturalist* by an authorized editor of BYU ScholarsArchive. For more information, please contact scholarsarchive@byu.edu, ellen_amatangelo@byu.edu.

ASTRAGALUS LAXMANNII JACQUIN (LEGUMINOSAE)
IN NORTH AMERICA

R. C. Barneby¹ and S. L. Welsh²

Key words: *Astragalus laxmannii*, nomenclature, North America.

In a recent article Podlech (1993) proposed lectotypes for two names that have implications in the flora of North America, i.e., *A. laxmannii* Jacquin and *A. adsurgens* Pallas. Both names have been used in the literature of American *Astragalus* in application to the one species that has been generally accepted in modern times as *A. adsurgens* sens. lat. (Barneby 1964). Podlech's typifications may be summarized:

Astragalus laxmannii Jacquin, Hort. Vindob. 3: 22, Tab. 34. 1776.

Lectotypus (Podlech, Sendtnera 1: 270. 1993): "Planta culta in Horto Vindobonensi e seminibus a Laxmann e Sibiria (Samen von Pallas erhalten, siehe Pallas, Sp. Astragal. p. 39. 1800). Specimen a Jacquin missum (BM!)."

Astragalus adsurgens Pallas, Sp. Astragal. 40. 1800. "Crescit hic Astragalus tantum in regionibus Trans-Baicalensibus, cum *A. Laxmanni* promiscue, frequens ad Selengam, Ononem, circa Tarei-noor, et usque in Mongoliae desertum."

Type (Podlech 1993): "Transbaicalia, ad Selengam, Pallas (BM!); Ononem circa Tareinoor, Pallas (BM!); Syntypen." "Lectotypus: ad Selengam, Pallas (BM!)."

Following examination of the proposals by Podlech, we obtained pertinent specimens on loan from The Natural History Museum (BM) in London, through the courtesy of A. R. Vickery. There are 7 pertinent sheets at BM, 6 from the Pallas herbarium and 1 from the Jacquin herbarium, none of them annotated by Podlech. The sheet from the Jacquin collection is labeled "Astragalus Laxmannii. Jack. Hort.VB." and has a notation on the back side, "Herbar. NJ Jacquin." It bears a single plant with a branched caudex, several stems, and inflorescences with withered flowers and early fruit. The plant fits well within the characterization of *A. adsurgens* var. *adsurgens* as de-

scribed by Barneby (1964). It is certainly the plant chosen as lectotype by Podlech.

Among the 6 specimens from the Pallas herbarium, 2 bear the designation *Astragalus adsurgens* and the additional notation, "*laxmannii*." The other 4 are annotated *A. laxmannii*. One of the specimens labeled *A. adsurgens* has 2 notations, 1 at the top, "ad [Tareinoor, crossed out] Selengam," and 1 below the specimen, "Specimen drawn in plate 31. Pall." This specimen (49221 BM) is the undoubted lectotype for *A. adsurgens*. It is mounted with at least 3 other fragments of the same species. Sheet 49227 (BM!), bearing a "Type Specimen" label and with the name *A. adsurgens*, is likely a paratype. One (49222 BM!) of the 4 sheets, all bearing the name *laxmannii*, also has a notation, "ad Selengam," and another, "ad Tareinoor." They are possible paratypes of *A. adsurgens* and are mounted with 2 other fragments. Sheets 49223, 49224, 49225 (all BM!) are all *A. laxmannii* (as annotated), but apparently they are nomenclaturally irrelevant.

Two infraspecific taxa have been recognized within *A. adsurgens* in the flora of North America. Their names require nomenclatural realignment within *A. laxmannii*, as follows:

Astragalus laxmannii var. *robustior* (Hooker) Barneby & Welsh, comb. nov., based on *A. adsurgens* var. *robustior* Hooker, Fl. Bor.-Amer. 1: 149. 1831.

Astragalus nitidus var. *robustior* (Hooker) M.E. Jones, Contr. W. Bot. 10: 64. 1902.

Astragalus adsurgens ssp. *robustior* (Hooker) Welsh, Iowa State J. Sci. 37: 357. 1963.

Astragalus laxmannii var. *tananaicus* (Hulten) Barneby & Welsh, comb. nov., based on *A. tananaicus* Hulten, Fl. Alaska & Yukon 1763. 1959, a substitute for *A. viciifolius* Hulten, Ark. Bot. 33B: 1, fig. 1. 1947 (non *A. viciaefolius* DC. 1802).

A. adsurgens var. *tananaicus* (Hulten) Barneby, Mem. New York Bot. Gard. 13: 616. 1964.

¹The New York Botanical Garden, Bronx, NY 10458-5126.

²Herbarium, M. L. Bean Life Science Museum, Brigham Young University, Provo, UT 84602.

REFERENCES

- BARNEY, R. C. 1964. Atlas of North American species of *Astragalus*. Memoirs of the New York Botanical Garden 13: 1-1188.
- JACQUIN, N. J. 1776. *Astragalus laxmannii* Jacquin. Hortus botanicus vindobonensis 3: 22. Tab. 37.
- PALLAS, P. S. 1800. *Astragalus adsurgens* Pallas. Species Astragalorum. Godofredi Martini, Lipsiae.
- PODLECH, D. 1993. Miscellaneous notes on *Astragalus*. Sendtnera 1: 270.

Received 19 July 1995
Accepted 5 September 1995