

# Caragana leduensis, a new species of Leguminosae from Qinghai, China

Authors: Zhao, Yi-Zhi, Wu, Yu-Hu, and Zhao, Li-Qing Source: Willdenowia, 35(1) : 155-157 Published By: Botanic Garden and Botanical Museum Berlin (BGBM) URL: https://doi.org/10.3372/wi.35.35111

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at <u>www.bioone.org/terms-of-use</u>.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

#### YI-ZHI ZHAO, YU-HU WU & LI-QING ZHAO

## Caragana leduensis, a new species of Leguminosae from Qinghai, China

#### Abstract

Zhao, Y.-Z., Wu, Y.-H. & Zhao, L.-Q.: *Caragana leduensis*, a new species of *Leguminosae* from Qinghai, China. – Willdenowia 35: 155-157. – ISSN 0511-9618; © 2005 BGBM Berlin-Dahlem. doi:10.3372/wi.35.35111 (available via http://dx.doi.org/)

*Caragana leduensis* from Qinghai is described as a new species and illustrated. It is similar to *C. kozlovii* but differs by the corolla wing auricle being <sup>3</sup>/<sub>4</sub> as long as the claw, the densely white-villous ovary and legumes, and the obovate-elliptic leaflets being blunt at the apex and glabrous except for the white-villous midvein and margins on the lower surface.

The genus *Caragana* Fabr. contains about 80 species, which are centred in their distribution to arid and semiarid Asia. About 60 species are found in China, preferable in the northern and western parts of the country (Liou 1993), of these about 20 species occur in Qinghai (WU 1999). Revising the herbarium specimens of *Caragana* collected in Qinghai, we discovered two older specimens that represent a still undescribed species, which is here described as new to science.

#### Caragana leduensis Y. Z. Zhao, Y. H. Wu & L. Q. Zhao, sp. nov.

Holotype: China, Qinghai, Ledu, mountain slope, c. 2500 m, 29.5.1966, *B. Z. Guo* 6755 (HNWP) – Fig. 1.

Species *Caragana kozlovii* Kom. affinis, sed auricula alae ungue ¾ longiore, ovario dense albovilloso, foliola obovati-elliptica, apice obtusa, supra glabra, infra secus costam et marginem albo-villoso differt.

*Shrub*, c. 1 m tall. *Bark* cinereous-brunescent, lacerate. *Stipules* ovate, rufous, membranous, densely white-villous. *Leaves* paripinnate, *rachis* persistent and becoming a rigid thorn, 1.5-3 cm long; *leaflets* in 3-4 pairs, obovate-elliptic, 10-12 × 3-5 mm, blunt at the apex, glabrous on upper surface, white-villous at midvein and margins on the lower surface. *Flowers* solitary; *pedicel* c. 8 mm long, with a knee at the base, densely white-villous; *calyx* tubular, c. 10 mm long, c. 5 mm in diam., densely white-villous, lobes triangular, c. 2.5 mm long; *corolla* yellow; *vexillum* broadly obovate, c. 21 mm long; *wings* c. 20 mm long, claw c. 8 mm long, auricle linear, <sup>3</sup>/<sub>4</sub> as long as the claw; *keel* c. 20 mm long, claw and blade equally long, auricle short and small, dentiform; *ovary* densely white-villous outside, glabrous inside. *Fruit* at maturity not seen.

white-villous outside, glabrous inside. *Fruit* at maturity not seen. Downloaded From: https://complete.bioone.org/journals/Willdenowia on 17 Apr 2024 Terms of Use: https://complete.bioone.org/terms-of-use



Fig. 1. *Caragana leduensis* – holotype specimen. Downloaded From: https://complete.bioone.org/journals/Willdenowia on 17 Apr 2024 Terms of Use: https://complete.bioone.org/terms-of-use Additional specimen seen (paratype). – China, Qinghai, Zhiduo, c. 3950 m, 21.6.1966, L. H. Zhou 110 (LZU).

The new species is similar to *Caragana kozlovii* Kom. and *C. tangutica* Kom. (see Liou 1993, Wu 1999) but can be distinguished from these species as follows:

- Corolla wings with auricle <sup>3</sup>/<sub>4</sub> as long as the claw; ovary and pod densely white-villous; leaflets obovate-elliptic, with blund apex, glabrous on upper surface, with white-villous midvein and margins on lower surface . . C. leduensis Y. Z. Zhao, Y. H. Wu & L. Q. Zhao

### References

Liou, Y. H. 1993: *Caragana*. – Pp. 17-67 in: Fu, K. J. (ed.), Flora Reipublicae Popularis Sinicae **42(1).** – Beijing.

Wu, Y. H. 1999: Caragana. - Pp. 173-187 in: Liu, S. W. (ed.), Flora of Qinghai 2. - Xining.

Addresses of the authors:

Yi-Zhi Zhao & Li-Qing Zhao, Faculty of Life Science, Inner Mongolia University, Hohhot 010021, China.

Yu-Hu Wu, Northwest Plateau Institute of Biology, Academia Sinica, Xining 810001, China.