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**Leaflets of botanical observation and criticism /by Edward L. Greene.**

Washington, D.C. : [author?], 1903-1912.

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**Some Western Species of Arabis.**

Every year of the last fifteen, by the arrival at my study table of several specimens of *Arabis* from the farther West, I have felt the desirability of a general summing up of the membership of this group of crucifers, in the form of a monograph; but the time for undertaking such a task still recedes. Meanwhile a new invoice of these plants having lately come in to me from northern California under promise on my part that I would try to identify and report on them, I have been impelled to make a renewed study of other material of this kind lying in the National Herbarium hitherto unexamined.

For my own convenience and that of others I shall first present a short bibliography of my own contributions to the knowledge of the genus made within the last ten or a dozen years.

*A. rhodantha*, Fendleri, Pitt. iii, 155. *A. drepanoloba*, l. c. 306. *A. Albertina*, *arida*, *campyloloba*, *connexa*, *consanguinea*, *duriuscula*, *eremophila*, *formosa*, *gracilentata*, *gracilipes*, *maxima*, *oxylobula*, *oxyphylla*, *platyloba*, *recondita*, *rectissima*, *tenuis*, Pitt, iv. 189-198.

*A. Austinae*, *Covillei*, *epilobioides*, *inamoena*, *Leibergii*, *Missouriensis*, *oligantha*, *peramoena*, *pratincola*, *trichopoda*, Feddes' Repertorium, v. 242-244.

Out of a considerable number of new species here characterized, only the first is at all closely akin to true *Arabis*, the best representative of which in the farther West is *A. Blytharophylla* of the coast of California. That and its allies are marked by a truly green herbage which is of thin texture, with no other than a sparse and bristly pubescence. The petals of these, though purple in color, have a broad spreading limb, and the pods are always straight and erect.

ARABIS ACULEOLATA. More or less tufted montane perennial, with subscapiform slender few-flowered stems 6 to 10



inches high and floriferous almost subumbellately at summit only: lowest leaves in a small rosulate tuft, less than an inch long, obovate to oblanceolate, entire or with a coarse tooth or two, the upper face sparsely, the margins more closely, beset with white straight hispid hairs, the bases of the flowering stems similarly invested and quite densely so; cauline leaves few and sparse, oval or oblong, sessile, hispidulous-hairy in a less degree than the basal: raceme few-flowered and the flowers all near the summit; calyx purple, the sepals with a few bristles at tip; petals rich purple, 4 lines long; young siliques erect, rather short, on slender pedicels.

Mountains of southwestern Oregon, and apparently rather local; first collected by Howell, near Waldo, in 1884, and distributed for *A. furcata*; then gathered twenty years later (in 1904) by C. V. Piper in the same general region.

The second species here presented, though the specimens are past flowering, is readily seen to be of that well-marked broad-petalled group of which *A. pulchra* of Jones is typical. All of them belong to the desert regions of the Great Basin.

ARABIS NARDINA. Perennial, younger plants simple, older ones tufted, 4 to 7 inches high, the stem and all foliage very hoary with a minute and dense stellate tomentum; basal leaves forming a tuft, but upright rather than rosulate, oblanceolate, obtuse, entire,  $\frac{1}{2}$  to 1 inch long, the cauline oblong-linear,  $\frac{1}{2}$  to  $\frac{3}{4}$  inch long, sessile, obscurely auricled: pedicels of the short raceme, and also the calyx stellate-hoary like the foliage: corolla unknown: pods few, straight, erect or ascending on slender pedicels, about 2 inches long, 2 lines wide, abruptly acutish, glabrous, marked with a strong median nerve; seeds in two rows, suborbicular, rather broadly winged all around.

This is known only as collected in the Panamint Mountains, on the Death Valley Expedition by Coville and Funston, 20 May, 1891; their n. 776, and not listed in the Report. The label once bore the name, in Sereno Watson's handwriting, of *Arabis platysperma*, but the specific name was erased, evidently