

xlviii. 48 (1916) *C. oxygona* has apparently a very restricted range and *C. quentinensis* may likewise be local in its distribution.

CRYPTANTHA BARBIGERA (Gray) Greene, var. **Fergusonae**, var. nov., corollae limbo 5–6 mm. lato; nuculis formae typicae similibus sed sulco fere ad apicem dilatato. — CALIFORNIA: Palm Springs, April 1, 1917, *Margaret C. Ferguson*, no. 42 (TYPE, Gray Herb.; co-type, Wellesley College Herb.).

The specimens of this species secured by Dr. Ferguson of the department of botany of Wellesley have been the means of calling to my attention the existence of two well marked forms. The typical form has small narrow inconspicuous flowers and the groove of the nutlets is dilated but a short distance above the base. The specimens secured by Parry & Palmer cited in the Syn. Fl. ii. pt. 1. 194 (1878), belong here although the expression “limb of the corolla sometimes 3 lines in diameter” in the description of *Eritrichium barbigerum* indicates that Dr. Gray saw material of the large-flowered form proposed above as a variety. Besides the much larger flowers the groove of the nutlets is dilated much higher up.

*C. INTERMEDIA* (Gray) Greene exhibits the same sort of variation. In the vicinity of Los Angeles I have seen large- and small-flowered plants growing together that were otherwise indistinguishable. Since the first material sent to Dr. Gray by Nevin, upon whose specimens the species was largely based, consisted of the inconspicuously flowered state it may be regarded as the typical form. Recently Mr. I. M. Johnston of Upland, California, has kindly furnished me with a large series of specimens of both forms and I take pleasure in connecting his name with this *Cryptantha* which is more common in many places than true *C. intermedia* itself. An analagous variation occurs also for *C. Torreyana* (Gray) Greene, which has been designated var. *grandiflora* (Rydb.) Nels. & Macbr.

*C. INTERMEDIA* (Gray) Greene, var. **Johnstonii**, var. nov., corollae limbo 5–6 mm. lato. — CALIFORNIA: dry rocky ground, Claremont, Los Angeles Co., May 15, 1918, *I. M. Johnston*, 1938 (TYPE, Gray Herb.).

PEDICULARIS CANADENSIS L., var. **fluviatilis** (Heller), comb. nov. *P. fluviatilis* Heller, Minn. Bot. Stud. ii. 33 (1898).

Heller, when proposing his species, l. c. 34, wrote that it “seems to be closely related to the common eastern *P. Canadensis*.” But