

1900]

ROCKY MOUNTAIN HERBARIUM

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midrib not evidently thickened, very narrowly lanceolate-acuminate, about 5^{mm} long: nutlets obscurely roughened under a lens, ovate with sub-acute apex, less than 2^{mm} long, the narrow groove forked at base but without conspicuous open areola, similar, usually only three maturing.

This species is allied to *C. Pattersoni* and to *C. ramulosissima*. In habit it is intermediate between them, but in floral and fruit characters it differs essentially from both.

The type number is 6440, from Snake river, Yellowstone park, August 13, 1899.

CRYPTANTHE AFFINIS flexuosa.—Evidently allied to *C. affinis*, but a larger plant, 3–5^{dm} high: stems loosely branched from near the base upward, the branches long and flexuous: leaves narrowly oblong, 2–3^{cm} long: fruiting spike long and open: sepals lanceolate-acuminate, densely hispid at base, the tips mostly open and spreading, 6–8^{mm} long: nutlets mottled, smooth and shining, ovate-acute, about 2^{mm} long, the ventral groove nearly closed, forked at the base but without areola.

This may prove worthy of specific rank, but until further material is secured it may best stand as a variety. The species, I think, occurs further toward the west and northwest only.

Secured in Jackson's hole, near Jackson's lake, August 17, 1899.

Mertensia amoena.—Root somewhat woody, more or less branched, surmounted by a branched caudex: branches of the caudex few to several (3–8), crowded, erect, closely covered with dead leaf-bases: stems one or more from each crown, simple, ascending, 1–2^{dm} high, pubescent with short spreading or crisped hairs: crown-leaves oblong-lanceolate, sub-acute, glabrous below, softly hispid-pubescent above and on the margins, 4–7^{cm} long, about one fourth as broad, on slender petioles which are usually longer than the blade: stem leaves rather crowded, broadly linear or narrowly oblanceolate, sessile, 3–6^{cm} long, pubescence similar to that of the root-leaves; inflorescence crowded; calyx-lobes lanceolate, sparsely ciliate-hirsute, about half as long as the tube of the corolla; corolla about 15^{mm} long, the tube scarcely longer than the campanulate limb, the lobes of the limb about half its length, crests inconspicuous; filaments