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high, twenty-flowered; bracts shorter than the flowers, lanceolata, deciduous; calyx two-thirds length of the corolla, its teeth acuminate, the lower twice the length of the upper; corolla 8 lines long, whitish or ochroleucous, the keel with a large purple spot at the apex; petals very long-clawed; the tenth stamen free one-third its length; ovary densely villous; pod one-fourth inch long, not wrinkled, closely conformed to the shining dark seed.

Dry hills, Oak Grove, San Diego Co., June, 1882. (Parish 643).

OPUNTIA BERNARDINA, Engelm. in herb.

Loosely branched shrub, 2-4 ft. high, several-stemmed from the base; joints cylindrical, 3-12 inches long, with a slight scurfy pubescence, never deciduous; tubercles of the younger joints oblong and very prominent, shorter and less marked on the older; spines yellow, $\frac{1}{4}$ -1 inch long, one or two usually longer and stouter than the others; flowers in a dense cluster at the ends of the previous year's joints; inner segments of the perianth yellow, outer greenish, or dull red; fruit ovate, less than an inch long, deeply umbilicate, the tubercles bearing a single short spine, becoming at length dry, and only then deciduous, usually fertile, but few-seeded; seed flat, one-fourth inch in diameter, the rhapshe channeled.

Dry hills and mesas from the Coast Range to the San Bernardino Mts., in the San Jacinto and San Bernardino Valleys.

This is the only *Cylindropuntia* in the region indicated, and apparently does not extend to the coast region or the deserts. Specimens distributed by the National Herbarium, ticketed "New Mexico, Geo. R. Vasey, February, 1881," were probably collected in Southern California, where Mr. Vasey was at that date.

✓*O. basilaris*, E. & B., var RAMOSA. Spreading, and the joints freely branching above; joints and fruit glabrous; otherwise as in the species.

Dry washes and gravelly benches of the Colorado and Mojave deserts, and occasionally in the less arid regions; dry ridges, 7000 ft. alt., on the northern side of the San Bernardino Mts., near Bear Valley; San Mateo Pass; San Jacinto Plains as far as