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O. Lindheimeri, E. Pl. Lindh., is partly this same plant, partly a hybrid form between it and perhaps *O. Rafinesquii*, with narrow clavate fruit.

O. ENGELMANNI, var. ? *CYCLODES*, E. & B. in P. R. R. : articulis orbiculatis ; aculeis validioribus subsingulis ; bacca parva globosa ; seminibus majoribus.

On the Upper Pecos, in New Mexico. Joints 6 – 7 inches, and fruit 1 or $1\frac{1}{4}$ inches in diameter.

O. DULCIS, E. in B. C. R., is a doubtful plant, of which we have not material enough. It has been found near the middle course of the Rio Grande, near Presidio del Norte, &c. It is similar to *O. Engelmanni*, and may be a form of it ; but it is lower, more spreading, with a similar but very sweet fruit, and small, regular seeds.

The following may be considered as a subspecies : —

O. OCCIDENTALIS, E. & B. in P. R. R. : erecta, patulo-ramosissima ; articulis grandibus obovatis vel rhomboideis ; pulvillis remotis setas graciles confertas et aculeos 1 – 3 validos compressos deflexos albidos basi obscuriores et inferiores paucos graciliores gerentibus ; floris flavi intus rubelli ovario obovato ; bacca obovata late umbilicata ; seminibus majoribus.

On the western slope of the California mountains, near San Diego and Los Angeles : fl. June. — Plant 4 feet high, forming large thickets ; the joints 9 – 12 inches long ; pulvilli with very fine closely-set bristles ; spines about one inch long. Apparently distinct from *O. Engelmanni* by its manner of growth, the very fine bristles, and the larger seeds.

There are also some indications of another form, growing on hills and plains near San Diego, California, and on the neighboring seabeach, with higher and more upright growth, and coarser bristles on the pulvilli, but which I cannot well distinguish from *O. Engelmanni*. I have seen no fruit or seed of it.

6. *O. CHLOROTICA*, E. & B. in P. R. R. : caule erecto aculeis flavis numerosissimis fasciculatis armato ; articulis orbiculato-obovatis pallidis ; pulvillis subremotis setas difformes confertas aculeosque 3 – 6 inæquales compressos stramineos gerentibus ; floris flavi ovario pulvillis confertis stipato ; petalis spathulatis.

Western Colorado country, between New Mexico and California, from the San Francisco mountains to Mojave Creek. — Plant 4 – 6 feet high, forming large and sometimes spreading bushes ; the trunk