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Page(s): Page 291, Page 292

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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 sea-beach, 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

covered with spines 1–2 inches long; joints 8–10 by 6–8 inches in length; spines  $\frac{1}{2}$ – $1\frac{1}{2}$  inches long. Ovary with nearly 50 pulvilli, while the foregoing species have not more than 20.

†† *Procumbentes.*

7. *O. PROCUMBENS*, E. & B. l. c.: prostrata; articulis orbiculato-obovatis grandibus pallide viridibus; pulvillis remotis setas stramineas rigidas valde inæquales et aculeos 2–4 validos compressos angulatos stramineos basi obscuriores gerentibus.

San Francisco mountains to Cactus Pass, in Western New Mexico. Joints 9–13 inches long, always edgewise; pulvilli  $1\frac{1}{2}$ –2 inches apart; spines 1–2 inches long. Similar to *O. Engelmanni*, but prostrate, with more distant pulvilli, and stouter spines. No flower or fruit seen.

8. *O. ANGUSTATA*, E. & B. l. c.: prostrata vel adscendens; articulis elongato-obovatis versus basin angustatis; pulvillis remotis setas fulvas graciles aculeosque paucos (2–3) validos compressos stramineos seu albidos versus basin rufos deflexos gerentibus; bacca obovata tuberculata; seminibus magnis.

From Zuni, west of the Rio Grande, westward to the Cajon Pass, in the California mountains. — Joints 6–10 inches long, only 3 or 4 wide. Spines similar to those of the last species; bristles much more delicate. Fruit  $1\frac{1}{2}$  inches long; the umbilicus flat, but immersed. — Well distinguished by the shape of the joints.

\* \* \* *Fulvispinæ.*

9. *O. MACROCENTRA*, E. in B. C. R.: adscendens; articulis magnis suborbiculatis tenuibus; pulvillis subremotis setas graciles breves fulvas gerentibus, summis solum aculeos 1–2 prælongos subcompressos fusco-atros proferentibus; floris flavi ovario ovato; stigmatibus 8; seminibus majusculis.

Sand-hills on the Rio Grande near El Paso: fl. May. — Two or three feet high, with very striking round joints, 5–8 inches in diameter, and blackish spines as much as 2 or 3 inches long. Nearly allied to the next species.

10. *O. PHÆACANTHA*, E. in Pl. Fendl.: diffusa, adscendens; articulis obovatis crassis glaucescentibus; pulvillis subremotis setas graciles stramineas seu fuscatas longiores gerentibus, plerisque aculeos 2–5 plus minus compressos fuscis proferentibus; floris flavi ovario abbreviato; stigmatibus 8; bacca cuneata pyriformi; seminibus majusculis.