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Page(s): Page 298, Page 299

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very vigorous specimens more patulous: spines, when present, less than 1 inch long, but stout. Flower about 2 inches in diameter, pale yellow. Seed $2\frac{1}{2}$ lines in diameter. It seems to be well distinguished from *O. Rafinesquii* (which grows only west of the Alleghanies) by the smaller size, paler color, small pulvilli, usually the absence of spines, the smaller flower, with all the parts less numerous, and especially by the short, thick, and more or less appressed leaves.

§ 5. *Pubescentes*: erectæ seu procumbentes: articuli pubescentes: folia minuta: aculei subnulli.

* *Flavifloræ.*

19. *O. MICRODASYS*, Lehm.: erecto-patula; articulis oblongis obovatis seu orbiculatis pubescentibus læte viridibus; foliis minutis; pulvillis confertis inermibus lanam flavidam setasque numerosas gracillimas flavas gerentibus.

Only south of the lower Rio Grande, near Rinconada, etc. — Plant 2–4 feet high; joints 2–3 inches long, $1\frac{1}{2}$ –2 wide; pulvilli $\frac{1}{4}$ – $\frac{1}{3}$ of an inch apart.

20. *O. RUFIDA*, E. in B. C. R.: erecto-patula; articulis late-obovatis seu suborbiculatis pubescentibus; foliis longe acuminatis; pulvillis confertis setas rufidas graciles numerosissimas gerentibus inermibus; floris flavi ovario obovato pulvillis numerosis instructo; stigmatibus 7 in capitulum congestis.

Common about Presidio del Norte, on the Rio Grande: fl. May. — Stem 2–4 feet high, much branched; joints 3–6 inches long; leaves $2\frac{1}{2}$ lines long. Flower $2\frac{1}{2}$ inches in diameter, with 40–50 pulvilli on the ovarium. — Apparently near *O. microdasys* and *O. puberula*; distinguished from the former by the rounded joints, larger leaves, and red-brown bristles; from the latter by the entire absence of spines, and of the purplish spot which in that species surrounds the pulvillus. Further investigations are necessary to decide about these closely allied forms, as about most species of this intricate genus.

* * *Rubrifloræ.*

21. *O. BASILARIS*, E. & B. l. c.: humilis; articulis obovatis seu triangularibus glaucescentibus pubescentibus e basi proliferis; foliis minutis; pulvillis subconfertis fulvo-villosis setas gracillimas demum numerosissimas fulvidas et subinde aculeolos setiformes caducos gerentibus; floris purpurei ovario obovato pulvillis plurimis instructo;

stigmatibus 8 in capitulum congestis; bacca obovata late umbilicata (sicca?); seminibus magnis crassis subregularibus.

On Williams's River, the Colorado, and the Mojave, and down to the Gila: fl. April and May. — Habit very different from any other of our *Opuntia*; the stout obovate or fan-shaped joints (5–8 inches long) originate from a common base, forming a sort of rosette. Leaves only one line long, 4–6 lines apart; pulvilli red-brown, somewhat immersed. Flower about $2\frac{1}{2}$ inches in diameter; ovary with 40–60 pulvilli. Fruit apparently dry, thereby approaching the next section. Seed 3 lines in diameter, 2 lines thick.

Mr. Schott has observed, on the dividing ridge of the California mountains, west of the mouth of the Gila, and again in the Santa Cruz Valley, Sonora, a very similar but suberect species, 3 feet high, spineless, inclined to assume a purplish hue, which he seems to have confounded with *O. basilaris*. Can it be *O. rufida*, or is it an undescribed species?

§ 6. *Xerocarpeæ*: diffusæ: articuli suborbiculati vel tumidi: aculei plurimi: bacca sicca aculeolata: semina eburnea, magna, plerumque latissime marginata.

* *Articuli compressi suborbiculati.*

22. *O. HYSTRICINA*, E. & B. l. c.: diffusa; articulis obovato-orbiculatis; pulvillis subconfertis setas pallidas rutilasve gerentibus, omnibus armatis; aculeis 5–8 superioribus validis elongatis angulatis seu tortis patulis vel deflexis, inferioribus 5–7 gracilioribus radiantibus; bacca ovata aculeolata, umbilico planiusculo; seminibus maximis.

West of the Rio Grande, to the San Francisco mountains. — Joints 3–4 inches long; pulvilli 5–6 lines apart, unusually large; longer spines $1\frac{1}{2}$ –3 and even 4 inches long, brownish; lower radiating ones white, 4–9 lines long. Fruit an inch long; upper pulvilli with 4–6 bristly spines. Seeds $3\frac{1}{2}$ lines in diameter, among the largest in this genus.

23. *O. MISSOURIENSIS*, DC. (*Cactus ferox*, Nutt. Gen.): prostrata; articulis obovatis vel suborbiculatis tuberculatis; foliis minutis; pulvillis subconfertis stramineo-setosis, omnibus armatis; aculeis 5–10 exterioribus radiantibus setiformibus albidis, 1–5 interioribus robustis albidis seu rufescentibus; floris flavi intus aurantiaci ovario obovato vel subgloboso spinuloso; stigmatibus 5–10 viridibus; bacca spinosa, umbilico plano; seminibus magnis irregularibus.