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Var. *a.* NIGRICANS: aculeis brevioribus acute angulatis et nigricantibus.

Var. *β.* BRUNNEA: pulvillis remotioribus; aculeis longioribus obtuse angulatis brunneis sursum albidis.

Var. *γ.* MAJOR: suborbiculata; pulvillis remotis; aculeis brevioribus paucioribus pallidioribus.

New Mexico: fl. May. Var. *a.* is found on the Rio Grande near Santa Fé; *β.* in similar sandy locations near El Paso; and *γ.* in mountainous regions near Santa Fé. — Joints 4–6, or in *γ.* even 8, inches long; spines mostly 1–2 inches in length. Flower about 2 inches in diameter, with a short ovary. Fruit  $1\frac{1}{4}$ – $1\frac{1}{2}$  inches long, slender, much contracted at base so as to appear almost stipitate.

*O. MOJAVENSIS*, E. & B. in P. R. R.: prostrata; articulis grandibus suborbiculatis; pulvillis remotis; setis fulvis; aculeis 3–6 validis infra fuscis.

On the Mojave, west of the Colorado. — The material is too scanty to make out where it belongs; but perhaps it is only a form of *O. phæacantha*.

11. *O. CAMANCHICA*, E. & B. in P. R. R.: prostrata; articulis adscendentibus majusculis suborbiculatis; pulvillis remotis plerisque armatis; setis stramineis fulvisve parcis; aculeis 1–3 compressis fuscis apice pallidioribus, superioribus elongatis suberectis, cæteris deflexis; bacca ovata late umbilicata; seminibus majusculis angulatis hilo excisis.

Llano Estacado, on the Upper Canadian River. A large, extensively spreading plant; the joints 6–7 inches long; spines  $1\frac{1}{2}$ –2 or even 3 inches long. Fruit large, juicy. Seeds 2–3 lines in diameter, very irregular and deeply notched at the hilum.

12. *O. TORTISPINA*, E. & B. l. c.: prostrata; articulis adscendentibus majusculis suborbiculatis; pulvillis subremotis; setis stramineis seu fulvis; aculeis 3–5 majoribus angulatis sæpe tortis albidis cum 2–4 gracilioribus; bacca ovata late umbilicata; seminibus majusculis orbiculatis.

On the Camanche plains, east of the elevated plateau of the Llano Estacado. — Similar in size and habit to the last species, its western neighbor, with more numerous spines than any other of our *Opuntia* with juicy fruit. Seeds regular, and only very slightly notched at the hilum.

§ 3. *Setispina*: adscendentes: articuli plerumque minores: aculei pauci, teretes seu vix angulati, graciles, flexiles, pallidi: bacca minor.

13. *O. TENUISPINA*, E. in B. C. R.: articulis majusculis obovatis basi attenuatis læte viridibus; pulvillis subapproximatis setas graciles breves fulvas gerentibus plerisque armatis; aculeis 1–2 elongatis albidis cum 1–4 brevioribus inferioribus; floris flavi ovario clavato; petalis obovatis retusis; bacca oblonga profunde umbilicata; seminibus minoribus.

Sand-hills near El Paso: fl. May. — Joints 3–6 inches long, 2–4 wide; leaves very slender, hardly 2 lines long; upper spines sub-erect, or spreading,  $1\frac{1}{2}$ – $2\frac{1}{2}$  inches long; flower  $2\frac{1}{2}$ –3 inches in diameter; seeds less than 2 lines in diameter, very irregular. — Similar in many respects to *O. phæacantha*, which grows with it; but readily distinguished by the spines and fruit.

14. *O. SETISPINA*, E. in Salm, H. D.: articulis suborbiculatis parvis glaucis; pulvillis confertis setas flavidas gerentibus, omnibus armatis; aculeis 1–3 longioribus subangulatis et 3–7 brevioribus plus minus deflexis, omnibus gracillimis.

Pine woods in the mountains west of Chihuahua, *Dr. Wislizenus*. Joints not over 2 inches long; pulvilli only 3–4 lines apart; longer spines 1– $1\frac{1}{2}$  inches long, very slender, like bristles. Flower and fruit unknown.

15. *O. FILIPENDULA*, E. in B. C. R.: glauca; radicibus nodoso-incrassatis; articulis minoribus orbiculatis seu obovatis seu oblanceolatis tenuibus; pulvillis approximatis setas virescenti-flavas graciles numerosas gerentibus armatis vel inermibus; aculeis, si adsunt, 1–2 elongatis subangulatis cum 1–2 minoribus, omnibus albidis; floris purpurascens ovario gracili; stigmatibus 5; seminibus minoribus tumidis.

Alluvial bottoms of the Rio Grande near El Paso, and eastward on the Pecos: fl. May and June. — The long knotted roots, the small bluish joints, with the very small leaves and very long bristles, together with the purple flower, and thick very narrowly margined seeds, distinguish this species from all others. Plant 6–12 inches high, joints  $1\frac{1}{2}$ –3 inches long, 1–2 wide; pulvilli 4–6 lines apart; lower spines 1–2 inches long. Flower  $2\frac{1}{2}$  inches in diameter. Seed hardly 2 lines in diameter.