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low shrub, 6–18 inches high; joints 1–2½ inches long; tubercles 4–5 lines long; spines not over an inch in length. Flower apparently yellow, about 1½ inches in diameter and somewhat persistent on the fruit. Fruit very shallow, saucer-shaped, with few large seeds. Var. β . is 4 or 5 feet high; joints 8–10 inches long; interior spines 1–1¾ inches long. Fruit globose or even ovate, with 25 pulvilli. Seeds the same in both.

37. *O. SERPENTINA*, E. in Sill. Journ. 1852: erectiuscula seu subprostrata; articulis elongatis cylindricis; tuberculis ovatis; aculeis 7–9 albido- seu rufido-vaginatibus; flore flavo extus rubello; bacca subhemisphærica late et profunde umbilicata villosa aculeatissima.

Near the sea-coast about San Diego, California. — Sometimes 4–5 feet high, but often prostrate; joints 6–12 inches long; spines less than one inch long. Flower cup-shaped, 1¼ inch wide. Fruit apparently like that of the last species, but “long woolly” and with fewer pulvilli, also often crowned with the persistent flower. Seed unknown; said to be large. — Closely allied to the foregoing species. Can this be Nuttall’s *Cactus Californicus* (Cereus, Torr. & Gr. Fl.), with cylindric branches, yellow flower, and spiny fruit?

†† *Decidua*: arborescentes: articuli tumidi, perfragiles: tubercula depressa: flores purpurei: baccæ sæpissime steriles, proliferae.

38. *O. PROLIFERA*, E. l. c.: ramis divaricatis; articulis ovatis seu ovato-cylindricis perviridibus versus ramorum apicem congestis; tuberculis obovato-oblongis prominulis; aculeis 8–10 obscuris stramineo- seu rufo-vaginatibus, singulo centrali, cæteris patulis; flore rubro; bacca ovata aculeolata plerumque sterili prolifera.

On arid hills about San Diego, California, forming extensive thickets. — Stems 2–4, and sometimes even 6–7, inches in diameter, 3–10 feet high; joints 3–6 inches long and 1½–2 in diameter; tubercles about 6 lines long; spines 6–14 lines long, the lower ones shorter. Flowers red, salver-form, 1½ inches in diameter.

39. *O. FULGIDA*, E. in B. C. R.: ramis divaricatis; articulis ovatis seu ovato-cylindricis glaucescentibus versus ramorum apicem congestis; tuberculis ovato-oblongis prominulis; aculeis 5–9 subæqualibus laxè vaginatibus undique stellato-porrectis; flore purpureo parvo; bacca ovata inermi vix tuberculata; seminibus parvis rostratis.

Mountains of Western Sonora: fl. July and August. — Plant 5–12 feet high; joints 3–8 inches long; tubercles rather elongated, 6–7

lines long; spines $1 - 1\frac{1}{4}$ inches long, hiding the whole plant with their lustrous sheaths. Flower about one inch or less in diameter. Fruit fleshy, $1 - 1\frac{1}{4}$ inches long, usually sterile. Seeds smaller than in any other *Opuntia* examined, $1 - 1\frac{1}{2}$ lines long.

40. *O. BIGELOVII*, E. in P. R. R. : ramis erectis adscendentibusve; articulis ovato-cylindricis pallide virescentibus congestis; tuberculis subhemisphæricis depressis confertis; aculeis 6-10 robustioribus et totidem gracilioribus inferioribus; ovario tuberculato; bacca tuberculata subinde (sterili?) aculeolata; seminibus parvis.

On Williams's River, of the Californian Colorado. — Stem 3-4 inches thick and 10-12 feet high; the branches forming a dense contracted head, with joints 2-6 inches long; tubercles 3-4 lines long; larger spines about an inch long, smaller ones 4-7 lines long.

The three foregoing species represent this subsection west of the California mountains, and east of them both south of the Gila and north of it, and seem to be well distinguished from one another by the characters indicated.

††† *Cristatæ* : frutescentes vel arborescentes : articuli cylindrici : tubercula plerumque cristata prominula : flores purpurei : baccæ inermes seu rarius aculeatæ.

41. *O. WHIPPLEI*, E. & B. in P. R. R. : caule erecto seu rarius subprocumbente divaricato-ramoso; articulis cylindricis; tuberculis ovatis confertis; aculeis brevibus cinereo- seu stramineo-vaginatibus, 1-4 majoribus, 2-8 brevioribus deflexis vel radiantibus; flore rubro; bacca subglobosa tuberculata flava inermi; seminibus regularibus.

Var. *α*. *LÆVIOR* : humilior, aculeis paucis deflexis.

Var. *β*. *SPINOSIOR* : elatior, aculeis plurimis radiantibus.

From Zuni westward to Williams's River (*α*.), and south of the Gila (*β*.): fl. in June. — The first state is from a few inches to 3-6 feet high; the second forms small trees 8-10 feet high. Joints $\frac{1}{2} - \frac{3}{4}$ inch in diameter; tubercles about 5 lines long; spines very variable, between 3 and 9 lines long. Flower (of var. *β*.) $1\frac{1}{4} - 1\frac{1}{2}$ inches in diameter. Fruit about an inch long.

42. *O. ARBORESCENS*, E. in Wisl. Rep. (*O. stellata*, Salm.) : arborescens; ramis verticillatis horizontalibus vel pendulis; articulis verticillatis cylindricis; tuberculis cristatis prominentibus; aculeis 8-30 stellato-divaricatis; flore purpureo magno; bacca subhemisphærica tuberculato-cristata flava inermi; seminibus regularibus.