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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.