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From north and east of Santa Fé and the Llano Estacado, to Zuni; extending southward deep into Mexico: fl. May—July. — Northward 5—6, south 10—20 or more, feet high; easily characterized by the horizontal and verticillate branches, etc.

43. **O. acanthocarpa**, E. & B. in P. R. R.: arborescens; ramis alternis adscendentibus; articulis cylindricis; tuberculis elongatis; aculeis 8—25 stellato-divaricatis; bacca subglobose tuberculata aculeata; seminibus multangulatis.

Mountains of Cactus Pass, between Santa Fé and the Western Colorado. — Stems 5—6 feet high; branches few, alternate, and separating from the stem at an acute angle. Joints (as in the preceding) 4—6 or 8 inches long, about 1 inch in diameter; tubercles 9—10 lines long; interior spines 1—1½ inches, exterior ones 4—10 lines, long. Spines of fruit on the depressed tubercles 3—6 lines long. Seeds large, unlike those of any other **Opuntia** seen by me.

44. **O. mammillata**, A. Schott in litt., B. C. R.: arborescens, divaricato-ramosissima; articulis crassis abbreviatis perversibus; tuberculis tumidis; aculeis 4—6 brevibus plerisque deflexis; flore parvo purpureo; bacca obovata inermi; seminibus parvis.

Sonora, on the Sierra Babuquibari, in fertile soil: fl. July and August. — Stems 5—6 feet high; joints 3—4 inches long, 1½ inches in diameter; the swelling tubercles very prominent; spines 3—9 lines long, sometimes almost wanting. Flowers an inch or less in diameter.


Bacauachi, Sonora: fl. June. — Much more slender than any species yet enumerated in this subgenus. Joints ¾ inch in diameter; tubercles 9 lines long; spines 3—8 lines long, the lowest one the stoutest. Flower 1½ inches in diameter.

**Monacantha:** lignum densum: articuli graciliores obscure tuberculati; aculei singuli: flores flavi seu rubri; semina plus minus marginata.

46. **O. Wrightii**, E. l. c.: frutescens, erecta; articulis cylindricis gracilibus elongato-subtuberculatis; aculeis subsingulis porrectis vel subdeflexis; flore miniato.

On steep mountain-sides, from the Limpio to the Pecos, and in Northern Mexico: fl. June and July. — Shrub 2—4 feet high, 1—1½