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**The Cactaceae : descriptions and illustrations of plants of the cactus family /
by N.L. Britton and J.N. Rose.**

Washington :Carnegie Institution of Washington,1919-1923.

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177. *Opuntia littoralis* (Engelmann) Cockerell, Bull. South. Calif. Acad. 4: 15. 1905.*Opuntia engelmannii littoralis* Engelmann in Brewer and Watson, Bot. Calif. 1: 248. 1876.*Opuntia lindheimeri littoralis* Coulter, Contr. U. S. Nat. Herb. 3: 422. 1896.

Bushy plants, low and spreading; joints thick, orbicular to oblong, 15 cm. long or more, usually smaller in greenhouse plants, dull green; areoles rather closely set, large, often elevated on old joints; spines numerous, yellow, rather short on young joints (1 to 2 cm. long), but on old joints much longer, in age more or less flattened; wool of the areoles brown; flowers large, yellow, 8 to 12 cm. broad; sepals broad, apiculate; petals retuse; ovary with many areoles; fruit red, juicy; seeds 4 to 5 mm. in diameter.

Type locality: Coast from Santa Barbara to San Diego, California.

Distribution: Along and near the coast of southern California.

This species was very briefly described as a variety of *Opuntia engelmannii* in 1876. No definite locality was given for it, and the original material preserved is so poor that its identification is doubtful. We have taken as our representative of this species the low, bushy plant with rather thick joints, large and closely set areoles and yellow spines.

Opuntia littoralis often grows in proximity to *O. occidentalis* in southern California, and hybrids of the two may exist.

Figure 203 represents joints of the plant collected at Elsinore, California, by Dr. MacDougal in 1913.

178. *Opuntia aciculata* Griffiths, Proc. Biol. Soc. Washington 29: 10. 1916.

Low, bushy plant, 1 meter high or more, often 3 meters broad or more, the lower branches decumbent and sending up erect branches; joints obovate, 12 to 20 cm. long, rounded at apex, dull dark green, somewhat glaucous, bearing large, closely set areoles, these often spineless; leaves subulate, 7 mm. long; spines several in a cluster, acicular, slender, 3 to 5.5 cm. long, often reflexed, brownish at base, with yellow tips, seemingly deciduous; glochids numerous, from all parts of the areoles, long, persisting for several years; flower golden yellow, sometimes with a greenish center, large, 8 to 10 cm. broad; petals broad, rounded or retuse; filaments yellowish; style dull yellowish green; stigma-lobes 8 to 10, green; fruit pyriform, purple.

Type locality: Near Laredo, Texas.

Distribution: On high gravelly ground at type locality and vicinity.

This species is not very common about Laredo, Texas, but grows in small colonies usually to the exclusion of all other plants. It can easily be distinguished from related species, and is usually restricted to dry hills. Our description is based on specimens obtained by Dr. Rose at Laredo in 1913. Since then it has been grown both in Washington and New York.

Plate xxviii, figure 3, represents a flowering joint of the plant collected by Dr. Rose near the type locality in 1913.

179. *Opuntia lindheimeri* Engelmann, Bost. Journ. Nat. Hist. 6: 207. 1850.*Opuntia dulcis* Engelmann, Proc. Amer. Acad. 3: 291. 1856.*Opuntia lindheimeri dulcis* Coulter, Contr. U. S. Nat. Herb. 3: 421. 1896.*Opuntia engelmannii dulcis* Schumann, Gesamtb. Kakteen 725. 1898.*Opuntia cacanapa* Griffiths and Hare, N. Mex. Agr. Exp. Sta. Bull. 60: 47. 1906.*Opuntia ferruginispina* Griffiths, Rep. Mo. Bot. Gard. 19: 267. 1908.*Opuntia tricolor* Griffiths, Rep. Mo. Bot. Gard. 20: 85. 1909.*Opuntia texana* Griffiths, Rep. Mo. Bot. Gard. 20: 92. 1909.*Opuntia subarmata* Griffiths, Rep. Mo. Bot. Gard. 20: 94. 1909.*Opuntia alta* Griffiths, Rep. Mo. Bot. Gard. 21: 165. 1910.*Opuntia gomei* Griffiths, Rep. Mo. Bot. Gard. 21: 167. 1910.*Opuntia sinclairii* Griffiths, Rep. Mo. Bot. Gard. 21: 173. 1910.*Opuntia cyanella* Griffiths, Rep. Mo. Bot. Gard. 22: 30. 1912.*Opuntia gilvoalba* Griffiths, Rep. Mo. Bot. Gard. 22: 35. 1912.*Opuntia convexa* Mackensen, Bull. Torr. Club 39: 290. 1912.*Opuntia griffithsiana* Mackensen, Bull. Torr. Club 39: 291. 1912.*Opuntia reflexa* Mackensen, Bull. Torr. Club 39: 292. 1912.*Opuntia deltica* Griffiths, Bull. Torr. Club 43: 84. 1916.*Opuntia laxiflora* Griffiths, Bull. Torr. Club 43: 85. 1916.*Opuntia flexospina* Griffiths, Bull. Torr. Club 43: 87. 1916.*Opuntia squarrosa* Griffiths, Bull. Torr. Club 43: 91. 1916.