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Proceedings of the American Academy of Arts and Sciences.

Boston :Metcalf and Co., 1846-1958

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v. 3 (1852-1857): <http://www.biodiversitylibrary.org/item/22230>

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inches thick. Joints 4 lines in diameter; tubercles depressed, 7–9 lines long; spines 8–10 lines long. Flower about $1-1\frac{1}{4}$ inches in diameter.

47. *O. ARBUSCULA*, E. l. c.: arborescens, erecta, capitato-ramosissima; articulis læte viridibus elongato-subtuberculatis; aculeis subsingulis porrectis vel subdeflexis; flore flavo-virescente.

On the Lower Gila, near Maricopa village: fl. June.—A truly arborescent form, with a solid trunk of 4 or 5 inches in diameter, 7–8 feet high; joints 2–3 inches long, about 4 lines in diameter; tubercles indistinct, about 6 lines long; spine 9–12 lines long, often with 1 or 2 smaller ones under it. Flower $1\frac{1}{2}$ inches in diameter.

48. *O. VAGINATA*, E. in Wisl. Rep. (partim): frutescens, erecta; ramis erectiusculis; articulis subtuberculatis; aculeis subsingulis; bacca obovata tuberculata coccinea.

Albuquerque, New Mexico, and southward.—Shrub 3–5 feet high, $1-1\frac{1}{2}$ inches thick; joints 3–4 lines in diameter; tubercles rather distinct, 6–9 lines long. Fruit 8–9 lines long. Seed about 2 lines in diameter. Perhaps a stout form of the next species.

49. *O. FRUTESCENS*, E. in Pl. Lindh. 1845: frutescens, erecta; ramis erectiusculis; articulis teretibus; aculeis subsingulis; flore parvo virescente; bacca obovata haud tuberculata coccinea.

Var. *a.* LONGISPINA: articulis nascentibus stipitatis; aculeis validioribus longioribus laxè vaginatis.

Var. *β.* BREVISPIA: articulis nascentibus sessilibus; aculeis gracilioribus brevioribus arcte vaginatis.

From the Colorado of Texas to Matamoras and Saltillo, westward to Sonora and the Californian Colorado: fl. June to August.—Var. *a.* is the usual Western form; *β.* occurs only in Texas and Eastern Mexico.—Shrub 3–5 feet high, stem $1-1\frac{1}{2}$ inches thick; joints 2–3 lines in diameter; indistinct tubercles 3–5 lines long; spines in *a.* 1–2 inches, in *β.* 4–6 lines, long. Flower 7–9 lines in diameter. Fruit 5–9 lines long. Seeds few, usually $1\frac{1}{2}$ lines in diameter.

50. *O. TESSELLATA* (*O. ramosissima*, E. in Sill. Journ. 1852): frutescens, erecta seu diffusa, divaricato-ramosissima; articulis gracilibus tessellato-tuberculatis cæsiis; tuberculis 5–6 angulatis planis inermibus seu aculeum elongatum paucosque minutos gerentibus; flore purpurascete parva; bacca setosissima sicca.

Valley of the Lower Colorado from Sonora to the California moun-