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Opuntia arizonica Griffiths, Rep. Mo. Bot. Gard. 20: 93. 1909.^a

Plants stout, more or less spreading, but in time becoming 1 to 1.5 meters high, forming broad clumps; old joints very large and thick; last year's joints orbicular, often rounded at base, 15 to 25 cm. in diameter, pale glaucous green; spines 2 to 5, generally 4 or 5, usually 4 to 6 cm. long, more or less spreading in all directions, stout and somewhat flattened, bright red at base, above whitish or tinged with rose; areoles often 4 to 6 cm. apart; lower areoles naked or with a single spine; bristles caducous except along the margins of the joints, here numerous and long; flowers large, nearly 40 cm. broad, at first lemon-yellow, hardly at all tinged with red at base, in age becoming salmon-colored; ovary somewhat elongated, slightly glaucous, 3.5 to 4 cm. long.

Collected by J. N. Rose near Desert Laboratory, Tucson, Arizona, April, 1908 (no. 11751).

Common on foothills and low mountains in the general region of Tucson.

This species was frequently collected by Professor Toumey under the name of both *O. engelmanni* and *O. lindheimeri*.

Opuntia toumeyi Rose, sp. nov.

Plants low, widely spreading or prostrate; last year's joints obovate, 15 to 20 cm. long, dull green, slightly glaucous; spines 1 to 4, generally 1 or 2, one usually very long and porrect, 4 to 6 cm. long, terete, light brown, the shorter spines often white and appressed; lower areoles naked; young joints pale green, slightly glaucous, the young areoles crowning small tubercles; leaves 6 to 8 mm. long, somewhat bronzed, acute; young areoles with a single rose-colored spine; bristles usually brownish; petals 3 cm. long, deep yellow, reddish, or bronzed at base; ovary oblong, 5 cm. long, glaucous, with oblong tubercles crowned by the areoles, these with brown bristles, but no spines.

Type collected by J. N. Rose near Desert Laboratory, Tucson, Arizona, April, 1908 (no. 11750).

Type U. S. National Herbarium no. 454445.

Opuntia blakeana Rose, sp. nov.

PLATE LV.

Plants low and widely spreading, the old branches trailing on the ground, rarely rising more than 40 to 60 cm. above the ground; joints obovate, small, 1 to 1.5 cm. long, thick, pale, more or less purplish about the areole; spines usually only 2 or 3 at each areole (the lower areoles often without any), short brownish; flowers yellow, more or less reddish in the center.

Type collected by J. N. Rose near Desert Laboratory, Tucson, Arizona, April, 1908 (no. 11753).

Distribution southern Arizona.

Type U. S. National Herbarium no. 454451.

This species is named for Dr. W. P. Blake, of Tucson, Arizona.

EXPLANATION OF PLATE LV.—A pad. Natural size.

^a Still later, while the page proof of this paper was in hand, Dr. Griffiths's publication of *O. arizonica* was received, which proved to be an anticipation of another of my species. I accordingly here substitute Dr. Griffiths's name, allowing, however, my description to stand as already in type.