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acterizations, modified by several miscellaneous notes from various localities, one description having been written in the type locality and the other drawn from a three year old seedling. The type specimen is No. 8141 D. G., collected near Zacatecas, Mexico, September 19, 1905.—Plate 22, upper figure.

**Opuntia lubrica** sp. nov.

A low ascending, spreading species very similar in habit to *O. microdasys*, frequently  $4\frac{1}{2}$  dm. high and when well developed 10 dm. or more in diameter; joints sub-circular to obovate, about 15 by 20 cm., or in case of last joints of previous year about 12 by 15 cm., bright, glossy, leaf-green, very evidently papillate but scarcely pubescent under a lens; leaves subulate, cuspidate-pointed, 6 to 9 mm. in length; areoles 15 to 22 mm. apart, 4 to 6 mm in diameter, sub-circular, prominent; spicules prominent, 4 to 5 mm. in length, erect, bushy, in crescentic tufts in upper portion of areoles, becoming much more numerous in age, and at 2 to 4 years completely filling the areole, and, like *O. rufida* and some other species, becoming very abundant and conspicuous by proliferation of areolar tissue into short raised or columnar structures; spines exceedingly variable, sometimes [nearly absent, again quite abundant and irregularly distributed, none too many, mostly 1 to 3, becoming more numerous with age and in scattering areoles to as high as 16, mostly about 12 mm. long, but sometimes  $2\frac{1}{2}$  cm., yellowish, translucent, bonelike, sometimes darker at base; fruits decidedly acid, light red without with yellowish green rind and red pulp; seed small, thin shelled, about 3 mm. in diameter.

The habit of this species resembles that of *O. microdasys*, but it is a more robust plant with heavier glossy joints smooth to the touch and with color of entirely different character.

The description is a compilation of partial descriptions made in the type locality and notes upon cultivated, nearly mature plants. The type is No. 8439 D. G., collected near Alonzo, Mexico, August 23, 1906, backed up by several specimens put up from cultivated material. The cultivated plants have not yet bloomed, although one of them is now in the third year's growth from a single joint cutting.—Plate 23.

**Opuntia nigrita** sp. nov.

An erect, open-branching, stout, arborescent plant with distinct cylindrical trunk and spread of branch about like *O. pachona*, com-