



ECHINO CERFUS BAILLYI ROSE.



FLOWER OF ECHINOCEPHEUS BAILEYI ROSE.

ECHINOCEREUS BAILEYI, A NEW CACTUS FROM OKLAHOMA.

By J. N. ROSE.

In 1904, James H. Gaut while collecting in the Wichita Mountains for the Biological Survey of the Department of Agriculture sent me two specimens of an *Echinocereus*, which at first I supposed to be a peculiar form of *Echinocereus caespitosus*. Further examination of these plants showed very marked difference in the habit and in the arrangement of spines. Both these plants died without flowering. In 1906 Mr. Vernon Bailey also obtained from the Wichita Mountains several specimens, one of which flowered in 1907.

The species may be described as follows:

Echinocereus baileyi Rose, sp. nov.

PLATES LVI, LVII.

Plant body cylindrical, 10 cm. or so high; ribs 15, straight or perhaps sometimes spiral; areoles elongated, separated from the adjacent ones by a space of about their own length; spines at first white, when mature brownish or yellowish, about 16, somewhat spreading, those at the top and base of the areole smaller; central spines none; areoles when young clothed with dense white wool, this nearly or quite wanting in age; flowers from the youngest growth appearing terminal; corolla widely spreading, 6 cm. or more broad; petals light purple, oblong to spatulate-oblong, the broad apex toothed or jagged, the terminal tooth tapering into a slender awn; filaments short, yellow; style stout, longer than the filaments; stigmas 10, obtuse, green; areoles of the ovary bearing 10 or 12 slender spines intermixed with cobwebby wool, the spines whitish, or the central ones brownish; areoles of the tube crowning an elongated tubercle, not so closely set, bearing spines subtended by minute leaves.

Collected by James H. Gaut, Mount Scott, Wichita Mountains, Oklahoma, October 25, 1904; and by V. Bailey, Wichita Mountains, August, 1906 (type).

Type U. S. National Herbarium no. 53167.

EXPLANATION OF PLATES LVI, LVII.—Plate LVI, potted plant. From photograph of one of Mr. Bailey's specimens. Plate LVII, face of flower from same individual.