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AN UNDESCRIBED AGAVE FROM ARIZONA.

BY J. W. TOUMEY.

AGAVE TRELEASH, B. sp. - An acaulescent perennial with short rootstock and fleshy-fibrous roots; leaves 20 to 40 cm. long, 15 to 25 mm. broad, convex on lower and nearly flat on upper side; terminal spine horny, brownish, 12 to 19 mm. long, terete or slightly flattened and grooved on upper side; margin at base membranous (never serrulate), remainder filiferous with several fragile white fibers, not marking with white lines the adjoining leaves in separating in the bud as in allied species; scape 18 to 25 dm. high with moderately slender bracts; inflorescence subspicate; flowers usually in twos, sometimes from three to six, yellow, 35 to 50 mm. long and a third to a fourth as wide; perianth lobes shortlinear to obovate, curved inward at the apex and on the sides; filaments inserted much above the middle of the tube; ovary twice as long as broad; fruit unknown. - Type specimens in herb. J. W. Toumey. Living co-types in succulent garden University of Arizona; Missouri Botanical Garden, St. Louis; and in garden Department of Agriculture, Washington, D. C.

This well marked species of the Filiferae group of Agavegrows on the rocky, southern slopes of the Santa
Catalina Mountains in southern Arizona, being found
in particular abundance in the type locality on the mountain known as Castle Rock, where two plants were collected
by the writer in December, 1896, and planted in the succulent garden at the University of Arizona. These plants
have produced numerous offsets and one bloomed in the
summer of 1899. Instead of sending up a stipe from the
center of the plant, several lateral stipes were produced as
offsets, although the central bud was uninjured. These
stipes were without leaves at the base, but appeared above
the ground as naked stalks sometimes a foot or more from
the plant.

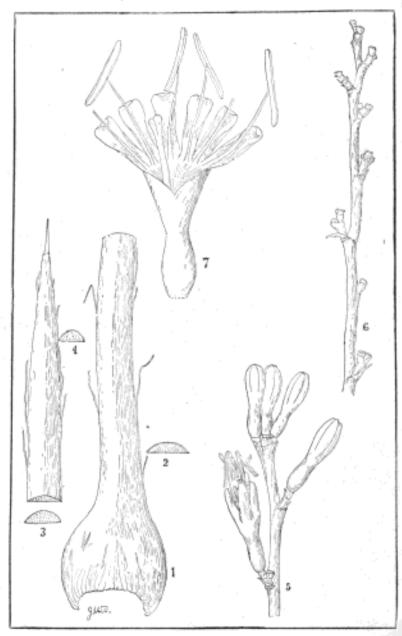
The species appears to be most nearly related to Agave Schottii but differs from it in many particulars. It is a larger plant in every way, the leaves are nearly twice as Separates issued April 6, 1901. (75) broad, it is deeper green and without markings left by adjoining leaves. The flowers are larger and the stamens are inserted toward the upper part of the tube.

This species, like Agave Schottii and A. Lechuguilla, has the leaves usually turned to one side. It is one of the Amole plants used by the Mexicans and Indians of the region as a substitute for soap. It grows with Agave Schottii at an elevation of about 6,500 feet. I take pleasure in naming this interesting succulent in honor of Dr. Wm. Trelease, Director of the Missouri Botanical Garden.

EXPLANATION OF PLATES.

Plate 32, Agave Treleasii.— 1, Medium-sized leaf of mature plant, × \(\frac{3}{2}\); 2, 3, 4, transverse sections of leaf, × \(\frac{3}{2}\); 5, terminal portion of inflorescence, × \(\frac{3}{2}\); 6, terminal portion of scape with flowers removed, × \(\frac{3}{2}\); 7, flower partially split open, showing the insertion of the filaments, × 1\(\frac{3}{2}\).

Plate 33, Agaze Treleasii.—1, Group of plants in the foreground, the short scape arising as an offset from a mature plant. (Beyond and at the right is a group of A. Schottii). 2, Group of plants showing the fillferous leaf-margins and numerous offsets.



AGAVE TRELEASIL

· PLATE 38.

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