## to pincushion, too Moisture is key

of the green bark. carbon dioxide and oxygen; Moisture controls to a great ex-tent the growth of all desert which are found in the outer layer are necessary for the exchange of no leaves, the pores (or stomata) plants. Since cactus plants have

little or no growth will take place little or no food is produced and dry, and there is no rainfall, the air, the stomata opens, allowing stomata closes. Little or no carfood. But as the air becomes very the cactus to manufacture on dioxide can enter the plant bassage of carbon dioxide into When there is moisture in the

ing out in all directions to absorb Cacti have many roots reach-

> solution produced by most orate as readily as the thin sugar type of substance does not evap-

nature's crowning achievements in adaptation to its environment. Cacti have developed a pe-The cactus plant is one of

ers and fruit. and the upper bud produces flowoval, and is made up of two buds. culiar, but necessary, organ The lower bud develops spines the areole. It is usually round or

and reproduction. ches may be produced. This little structure takes care of protection In cacti, like the cholla, bran-

ture is changed chemically into a mucilaginous substance and stored in the plant's body. This plants.

up to 10 inches. groups of stems (except than an inch tall; and the tallest is species). Some are very tiny, less plants with solitary or small Mammillaria cacti are all small

spiral rows around the plant. cacti, but the buds are borne in nipple-like tubercles arranged in They are not ribbed as many

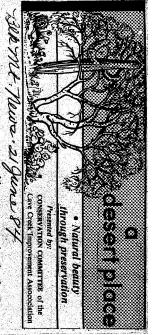
spines are smaller, always straight, and usually lie flat are straight or hooked. The other projecting central spine, or spines lower bud are of two kinds: the against the plant — to protect rom predators and provide The spines that grow from the

ipines is important in distin uishing different species. The color and number of

ple flowers are quite attractive. heir flowers in a circle around he summit of the plant. Others he plant, an inch or more below porne by the upper bud; bloom in Though small, these pink to purne daytime and last several days Some pincushion cacti bear The flowers of this genus are

less, juicy and edible. They are usually club-shaped, an inch or less in length, and often bright are clustered on the apex. The fruits are smooth, spine-

The only common cactus of



for one genus. Microcarpa means smal Foothills is Mammillaria tinguishing characteristic of this like tubercles that are a dis microcarpa. this genus growing in the Deser Mammillaria refers to the nipple The genus name

ches tall and 3 inches in diameter ber, are white. They spread ou dark-brown or purple in color spines, 1/2- to 3/4-inch long, either The radial spines, 15-30 in num y two or three) hooked centra lat around the areole. t is identified by one (occasional This species does grow to 10 in

plant blooms not only in the petals edged with white. This The flowers are pink, and the

spring but at six-week intervals, until fall.

by desert animals and birds. long, bright red; and are enjoyed The fruits are ½- to 1-incl

ed to the higher altitude and this genus occur in Southeastern rizona. Several more are adapt Several interesting species o

