



The Water-Balance of Succulent Plants (Classic Reprint)

By D T Macdougall

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Water-Balance of Succulent Plants The activities of the seed-plant make necessary a movement of solutions from the surface intakes of roots or other absorbing: organs in contact with the medium or substratum to various tissues, the residue of liquid and content finally reaching: the excretory or transpiratory membranes of the leaves, stems, or other aerial members. This water-service involves a supply of available moisture in the substratum or medium, absorbing organs, whose tissues sustain a higher osmotic activity than the substratum, conducting tracts of adequate capacity, and transpiratory organs, which in response to the evaporating action of the air throw off the water of the solutions entering the roots, in the form of vapor, at a rate variously modified by the purely physiological activity of the protoplasts. The individual and contributory action of all of these factors is greatly influenced by many internal and external conditions, physiologic, morphogenic, and physical. The relation of the plant to the moisture-supply and to the evaporating capacity of the air constitutes a limiting factor of great importance in...



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