



Physiological Researches, Vol. 1: July, 1913 August, 1916 (Classic Reprint) (Paperback)

By Burton Edward Livingston

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Physiological Researches, Vol. 1: July, 1913 August, 1916 The experiments described in this paper had as their chief purpose to discover (a) whether the water content of a given soil at the time when plants growing therein become permanently wilted remains a constant when wilting occurs under widely varying environmental conditions, and can therefore be determined with accuracy by calculation from the known physical constants of the soil, and (b) whether there is a definite and constant relation between the water content of the plant and that of the soil at the time of wilting, under such varying conditions. The work was performed at the Desert Laboratory of the Carnegie Institution, at Tucson, Arizona, during the summer of 1911. The plants used were *Zea mays* L., *Phaseolus vulgaris* L., *Xanthium commune* Britton, *Martynia louisiana* Mill., and *Physalis angulata* var. *Linkiana* Gray. The chief results follow: 1. For large numbers of turgid individuals of the same age and species, the average water content of all the normal functioning leaves is approximately a constant under the midsummer...



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