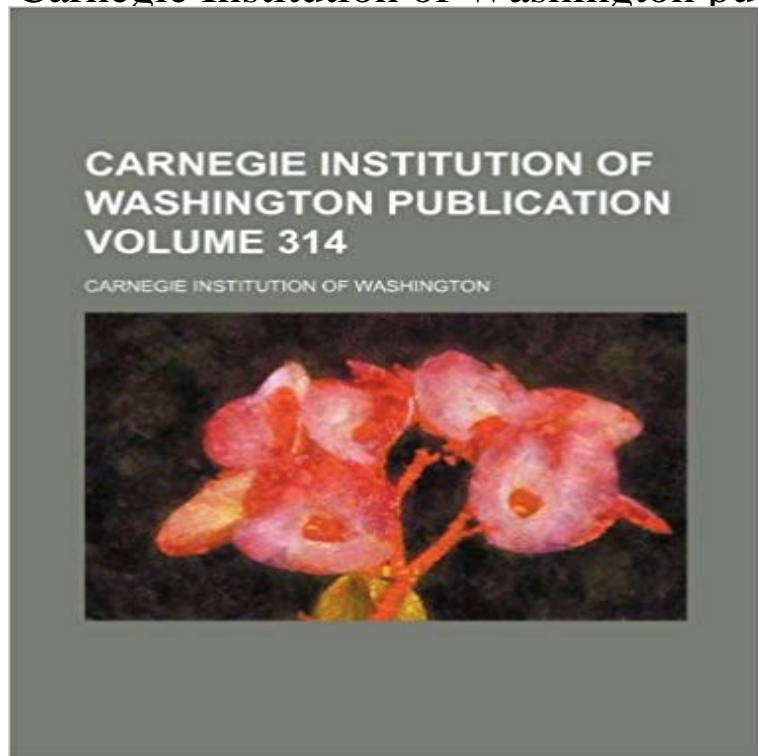


## Carnegie Institution of Washington publication Volume 314



This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1921 Excerpt: ... first showed a response. Hence, with light, at any rate, the difference in time between the impact of a factor and the response decreases as the degree of change increases. Three days later the cabinets were placed on the plots at 9b 30m A. m. and removed at 11 a. m. The stomata of the plants outside were wide open throughout the period. No change of behavior was observed, except in the dark cabinet, in which some closure had begun as the experiment ended. It seems evident that the time of day also makes a difference in the response, and that stomatal movement may be hastened more easily than reversed. This was shown with even greater clearness in the experiments with night illumination and in those carried on in April 1917 at the greenhouse of the University of Minnesota. Potted plants of wheat and corn kept 38 hours in darkness showed stomatal opening in 40 minutes when exposed to the light of a 40-watt mazda light hung 2 dm. above the plants, while others kept in darkness 3 hours showed no opening after 2 hours of such illumination. Potted plants of wheat which had been kept outside were taken inside on the evening of May 4, 1917, and placed near those that had been grown in the greenhouse for series 26. At the start of the series, 4 a. m. May 5, all the plants were stripped at hour intervals until 9 a. m. as were the plants of the series. The plants brought into the greenhouse showed 5 per cent opening at 6 a. m., as did the plants which had been grown inside. At 7 a. m. the greenhouse plants had stomata half open, while those brought in were but 10 per cent. The next hour the greenhouse plants showed stomata at maximum, and the out-door plants 35 per cent opening. At

9 a. m. both groups of plants had wide-open stomata. It is evident that the stomata o...

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