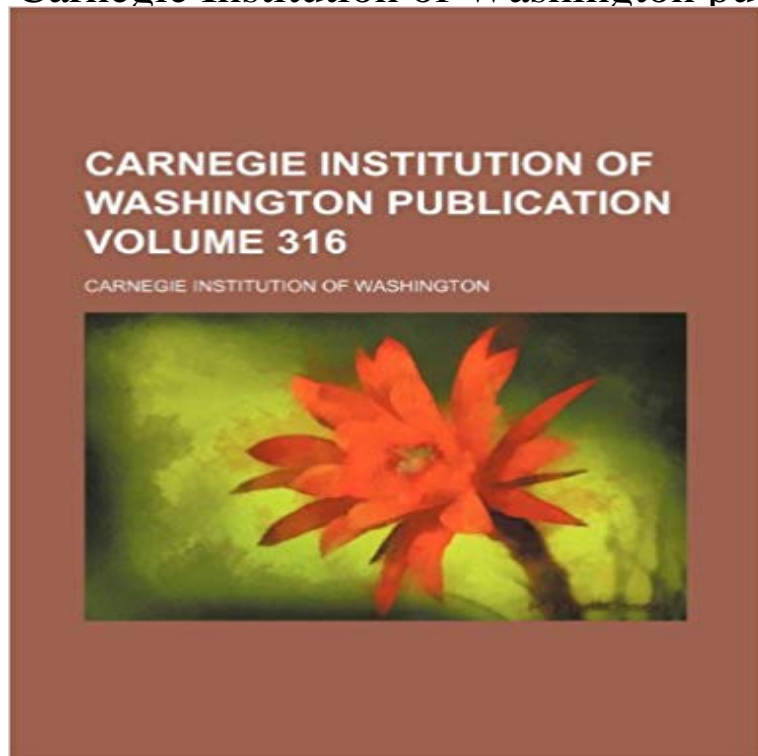


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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1922 Excerpt: ...deeply seated than that of oats at Lincoln on May 30. Table 13.--Water-content in excess of hygroscopic coefficient in crop plats at Phillipsburg, Kansas, 1920. On July 9 the oats was well past the dough stage of grain development. The crop averaged 2.6 feet in height. Counts on selected square-meter areas showed that the plants had an average of 2.3 tillers each. The crop was slightly damaged by grasshoppers and also somewhat affected by stem rust, *Puccinia graminis avenae*. Indeed, by the time of harvest (July 20) the rust epidemic was so severe that the grain was very light and of very poor quality. Table 14.--Average daily evaporation at Phillipsburg, Kansas, 1920.

June 2 to 10	11.0	June 10 to 17	26.9
June 17 to 24	12.3	June 24 to July 1	24.5
July 1 to 8	32.2	July 8 to 15	30.6
July 15 to 21	25.9	July 21 to 28	29.5
July 28 to Aug. 4	21.1	Aug. 4 to 11	13.8
Aug. 11 to 18	13.0	Aug. 18 to 26	24.2

The root system by this time had penetrated the loess soil to a working depth of 3.3 feet. A maximum depth of 6 feet was recorded for a few of the longest roots, while at 5.5 feet depth they were not at all uncommon. Thus, the root depth exceeded that at Lincoln (4.2 feet) and nearly equaled that at Peru (6.7 feet). The root extent was greater than that of Texas Red oats (4.8 feet) excavated a few miles distant, but in similar soil, in June 1919 (Weaver, 1920: 119). The clue to this marked root development is apparently to be found in an examination of the texture and water-content of the soil and the aerial conditions causing water-loss. In general, the mellow soil during this interval was relatively dry when compared with conditions at Lincoln, while the evaporating power of the air was

greater than at the latter station. This seems to have stimulated root-growth in...

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