THE CORRELATION BETWEEN TIME OF GERMINATION, MATURITY, AND YIELD OF CORN

T. B. HUTCHESON AND T. K. WOLFE

The first consideration in the production of corn is yield. The production of high quality corn is frequently largely dependent upon the time of maturity of the crop. The yield and maturity of strains and varieties of corn can be determined by tests in the field. If tests less laborious and time-consuming than field trials could be found which would give some indication as to the yield and maturity of corn, it would be very helpful. The investigation reported in this paper was conducted to study the relation between time of germination and maturity, time of germination and yield, and between yield and maturity.

EXPERIMENTAL WORK

The results reported herein cover a three-year period, 1916 to 1918. In 1916, Boone County White corn was used, while in 1917 and 1918 Silver King corn was used. A number of ears were selected for planting in an ear-to-row test and the germination of each ear was tested before planting. The seed from each ear was planted in duplicate rows. The time of germination was secured by determining the percentage of kernels which had germinated at the end of seventy-two hours. The average of three tests was used in the calculations. Each row was 66 feet long and contained 20 hills of two stalks each.

1Contribution from the Department of Agronomy, Virginia Agricultural Experiment Station, Blacksburg, Va. Received for publication May 15, 1924.
2Agronomists.