

INFLUENCE OF ETIOLATION ON MORPHOGENESIS OF THE SHOOT *TRITICUM AESTIVUM L.*

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The aim of the study is to study the influence of the light factor on the morphogenesis of the shoot of wheat, in particular on the growth and development of the leaves. The object of the study was ten-day sprouts of spring soft wheat *Triticum aestivum L.* of 10 varieties. Cultivation was carried out in a climatic chamber at a temperature of 18 ± 1 °C. As control used plants grown during the photoperiod day / night 16/8. A comparative analysis of shoot growth of etiolated and control plants was carried out. The following features of leaf growth in length under the conditions of etiolation were established: an increase in the length of the of the first leaf sheath, a decrease in the length of the second and fourth leaves by 24 – 34 % of the control values. The length of the fifth sheet of ten-day etiolated seedlings is insignificantly different from the control. The length of the sixth sheet of all the varieties studied exceeds the control values by 20 – 58 %. In sprouts cultivated in the absence of light, an earlier formation of the fifth-seventh leaves was noted, which indicates a change in the functional activity of the cone of growth.

Keywords: etiolation, light factor, wheat morphogenesis.

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