

**THE EFFECT OF NITROGEN ON THE GROWTH AND DRY MATTER ACCUMULATION
OF WHEAT (*T. AESTIVUM L*) AT HAWASSA UNIVERSITY**

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ABSTRACT

A field experiment was carried out by sowing wheat (*Triticum aestivum L.*) in Hawassa Agricultural college Farm, Sothern Nations and Nationalities States of Ethiopia to quantify the effect of increasing the level of nitrogen (N) fertilizer from 0 to 100 kg /ha application on the growth and dry matter application. It was applied using Randomized complete Block Design with four replications. The study quantified the effect of nitrogen (N) on leaf area index, leaf area ratio, growth rate, assimilation rate and total dry weight. Dry weight of wheat was showed significant differences between treatments at ($p = 0.05$). Leaf area index, leaf area ratio, growth rate and assimilation rate were significantly affected by the rate of nitrogen fertilizers. Nitrogen at 100 kg/ha gave significantly higher leaf area index, leaf area ratio, growth rate and assimilation rate. The highest total dry weight was obtained when N level is 100 and the lowest value was obtained when N level is 0.

KEYWORDS: Wheat, Dry Weight, N Fertilizer