

عنوان مقاله:

Production of Sunflower and Biomass Depending on Available Soil Water and Nitrogen Levels

محل انتشار:

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خلاصه مقاله:

In order to study the effects of nitrogen and available soil water levels on growth and yield components of sunflower (cv. Embrapa 122 / V-2000), an experiment was carried out from November 2009 to October 2010 in the Agricultural Engineering Department of the Federal University of Campina Grande, Campina Grande, Paraiba, Brazil. The treatments were arranged as a completely randomized design, in a 4×4 factorial experiment (four nitrogen levels and four available soil water levels), with three replications, totaling 48 experimental units. The nitrogen (N) levels in kg ha⁻¹ were: 0; 60; 80 and 100 added as urea; the available soil water (AW) levels were 55; 70; 85 and 100%. In conclusion, this study showed that the application of nitrogen fertilizer levels and available soil water levels led to significant increase in growth and production traits except for the dry weight of 1000 seeds.

کلمات کلیدی:

Irrigation % Nitrogen fertilizer % Helianthus annuus L

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