

## عنوان مقاله:

Evaluation of the Effect of Different Levels of Nitrogen Fertilizer on Biomass Related Traits of Corn Cultivars in Isfahan

## محل انتشار:

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## خلاصه مقاله:

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Accepted: 20 November 2015 ABSTRACT To evaluate the effect of different nitrogen fertilizer and cultivar levels on morphological properties in biomass of corn, a field experiment was performed in a farm located in Kabutarabad area of Esfahan in 2014. Experiment was conducted in the form of split plot design at complete randomized blocks with three replications. Different levels of nitrogen fertilizer in four levels of 100, 150, 200 and 250 kg per hectare of pure nitrogen from urea source were the main plots and different cultivars (SC500, SC 604, SC 700 and SC 704) were the sub-factors in sub-plots. The highest dry weight of leaf, stem and plant were obtained in 250 kg nitrogen per hectare. SC 704 due to the longer growing period had the highest leaf, shoot, and plant dry weights. With regard to sustainable agriculture and optimizing the use of fertilizer it can be recommended that under the same conditions of this experiment SC 704 with 250 kg N per hectare would have the best performance.

## کلمات کلیدی:

Keywords: Corn, Leaf Dry Weight, nitrogen, Single cross

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