

EVALUATION OF FORAGE YIELD AND COMPONENTS FOR FORAGE CORN CULTIVARS UNDER THE DIFFERENT NITROGEN FERTILIZER TREATMENTS IN ISFAHAN REGION

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ABSTRACT

To evaluate the impact of nitrogen fertilizer amounts on forage yield, an experiment was conducted as a split plot in a randomized complete block design. Experimental factors included nitrogen fertilizer (0, 50, 100, 150 kg/ha) in main plots and corn hybrids (Sc704, Sc640, Sc 540) in sub plots. On the basis of the results obtained, 540 cultivar and 50 kgN/ha had related the highest dry and fresh forage yield, if the 704 cultivar need to used 100 kgN/ha for production the maximum dry and fresh forage. Thus, 50 kg N /ha and 540 might be suitable as early cultivar and 100 kg N /ha and 704 as late cultivar for forage production under the condition similar to the present study.

Keywords: forage corn, nitrogen fertilizer, forage yield