

# **Effect of planting date and tillage systems on yield of sorghum in the climate of Rasht**

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**To evaluate the effect of tillage systems and sowing date on sorghum ( sorghum bicolor var. speed feed ) field in Rasht climate in 1394(2016) a split-plot in randomized complete block was performed with three replicates. In this study sowing date is considered as main effect in three date including : 94/2/25 , 94/2/15 and 94/2/5 and tillage systems including three levels : no tillage , minimum tillage and conventional tillage as sub-plot. The results shows that in dry farming the effect of sowing date on investigating trait , including dry weight of leaves , dry weight of stems , total dry weight , height of stems , number of tillers and diameter of stems were significant and maximum amounts were seen . The effect of tillage on dry weight of leaves , dry weight of stems , total dry weight , height of stems and protein percentage was significant and the maximum amounts were seen in primary tillage . the date effect on height of stems and protein percentage and the effect of tillage on the number of tillers , diameter of stems and protein percentage weren't significant. The interaction between sowing date and tillage weren't significant in the investigated traits.**

**Keywords : Planting date, tillage, yield, grain sorghum.**

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