

Study the growth and yield components of some of rice cultivars in Someesara

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Abstract In order to investigate the qualitative characteristics of some rice varieties in the Sumoza Sara, an experiment conducted based on completely randomized block design with four replications at 2014-2015 growing season. The experimental treatments were included eight rice cultivars containing Hashemi, Kuhsar, Line 23, Gilaneh, Fajr, Shiroudi, Keshvari and Mu, which planted with intervals of 2020 cm. The studied traits were consist of plant height, number of tillers, number of panicles per plant, number of grains per panicle, number of filled grains in the spike, number of empty seeds, spike fertility, panicle length, 1000 seed weight, grain yield and biological yield. Analysis of variance showed that cultivar effect was significant on number of grain per spike, number of cluster per plant, panicle length, spike length, pod yield, biological yield, grain yield and harvest index, which implies the differences between the cultivars. The highest number of grain per spike was observed in Shirodi (126) and Keshvari (124), while the lowest of these traits was related to MU and Fajr (97). In terms of number of spikes per plant (fertile tiller) Shirudi (10) and Keshvari (10) had the highest values of these traits, while the MU (7) had the lowest value. Hashemi had less spike potential compared to breeding cultivars (Table 4-2). **Key words:** rice, yield, morphological traits

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