

Effects of planting date on the yield of potato cultivars in autumncultivation

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In order to study the effects of planting date on the yield of early maturity potato cultivars in autumn cultivation in Khuzestan province and evaluate the possibility of potato production in Feb. and Mar. an experiment was conducted for two years (1997-1999) at Behbahan Agriculture Research Station.

The experimental design was a strip plot in randomized complete block design with three replications. Cultivars, considered as horizontal plots, had six levels and planting dates as vertical plots, had five levels.

In the first year (1997) Ajiba, Marfona, Timate, Stetose, Hertha and MN105 cultivars were planted in Sep. 29, Oct.8, Oct.23, Nov.7 and Nov.22.

In the second year (1998) Ajiba, Marfona, Timate, Ilona, Concorde and Romano cultivars were planted in Sept.15, Sept.23, Oct.8, Oct.23 and Nov.7.

In the first year frost occurred in Jan.14 and all plants were killed but in the second year frost didnot occur and plants continued growing until the middle of February.

Analysis of variance showed that in regard to yield, difference among cultivars, planting dates planting date interaction was highly significant in two and cultivar \times years of experiment.

Accroding to obtained results, the best planting date for potato in autumn cultivation was the early October. Ajiba, Hertha, Ilona and Concorde cultivars are recommended respectively.