

Effects of planting depth on yield of potato varieties in autumncultivation

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In order to determine the best planting depth for potato varieties in autumn cultivation in Khozestan province an experiment was conducted for two years (1997-99) at Behbahan Agriculture Research Station.

A split plot in randomized complete block design with three replications was used. Planting depth considered as the main factor, had three levels and variety as sub factor had six leveles.

In the first year (1997) Diamant, Liseta, Remarka, Carlita, Ilona and Estima varieties and in the second year (1998) Ajiba, Timate, Marfona, Stetose, Ilona and Panda varieties were planted in depth of 10, 15 and 20cm in early October.

In the first year frost occured 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 regards to yield difference among planting depths and varieties was highly significant in the first year. In the highly significant but × second year difference among varieties was variety among planting depths was not significant. Planting depth interaction was not significant in two years of experiment.

According to obtained results, the best planting depth for potato in autumn cultivation was 15cm. Ajiba, Ilona, Timate, Carlita and Estima varieties are recommended respectively.