Effect of pre-sprouting and harvesting date on yield and some agronomical characteristics of three potato cultivars

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A new method of breeding in a single seed potato (Solanum tuberosum L.) at the Central Research Institute for Breeding and Research of Agricultural and Biological Sciences, Iran.

The effect of pre-sprouting and harvesting date on yield and some agronomical characteristics of three potato cultivars was investigated. The cultivars used were S. tuberosum L. 'Amirzadeh', 'Kolahshahr', and 'Khorasan'. The experiment was conducted in a randomized complete block design with three replicates. The results showed that pre-sprouting and harvesting date significantly affected the yield and agronomical characteristics of the potato cultivars. The highest yield was obtained when the potatoes were harvested at the time of maximum tuber development. The cultivar 'Amirzadeh' showed the highest yield and the highest tuber weight, while 'Kolareh' had the highest number of tubers per plant. The results of this study can be used to optimize potato production in the region.