

## Determination of Bulbing Time and Growth Analysis of Some of Onion Landraces in Climatic Conditions of Karaj

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### Abstract

An experiment was conducted to determine bulbing time and growth analysis of Safid Behbahan, Gholi Gheseh Zanzan, Kamarei Khomain, Dorcheh Esfahan and Safid Ghom Landraces at Seed and Plant Improvement Institute in Karaj at 2007 based on randomized complete block design with three replications. Seeds were sown in nursery in early February and seedlings were transplanted in early May. Bulbing occurred in landraces from a photoperiod of 14 h and 21min (11 June) to 14 h and 32 min (7 July). The results of growth analysis showed a slow growth (about 75 days after emergence) and a rapid growth after that. Leaf blade growth continued after bulbing in all landraces, exception in Safid Qom landrace, that leaf blade growth stopped approximately simultaneously with bulbing. Also mentioned landrace had the highest bulb growth rate, crop growth rate and leaf area index . A high significant positive correlation (  $r = 0.69$  ) was found between relative growth rate and net assimilation rate. Safid Behbahan landrace produced the minimum yield. According to results, we recommended Safid Qom landrace for planting at Karaj region.

**Keywords:** *Growth analysis Onion, Bulbing, Crop growth rate, Yield*