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

A. A. Khalili, S. Zarei, A. Ghasemi, and M. H. Moradi

Abstract

The effect of pre-sprouting and harvesting date on yield and some agronomical characteristics of three potato cultivars, viz. 'Afrigh', 'Khorasan', and 'Chaharmahal', was studied in a greenhouse experiment. The treatments comprised three pre-sprouting dates (15, 30, and 45 days before planting) and three harvesting dates (early, medium, and late). The results showed that pre-sprouting significantly increased the yield and some agronomical characteristics, such as root length, root diameter, and shoot weight. The optimal pre-sprouting date was 30 days before planting, while the optimal harvesting date was late. The 'Afrigh' cultivar consistently outperformed the other two cultivars in terms of yield and agronomical characteristics.

Keywords: Potato, Pre-sprouting, Harvesting Date, Yield, Agronomical Characteristics.