

## **Abstract**

This research was conducted to evaluate mini-tubers production potential in micro-tuber of potato different cultivars in planting beds with factorial on completely randomized design and three replications under the greenhouse condition. First factor included potato cultivars of Agria, Savalan, Sante and Spirit and second factor included planting beds of Zeolit, Punch, Wintereshtaen peat-mass, Wintereshtaen peatmass: Zeolit (1:1) and Wintereshtaen peat-mass: Punch (1:1) were. Analysis of variance for measured traits showed that planting beds and potato cultivars in mini-tuber number and weight per m<sup>2</sup> and mini-tuber size average, plant height, stem number per plant, leaf number per plant, number and weight smaller than 2 g, between 2-5 g and bigger 5 g and between planting beds and potato cultivars interaction in mini-tuber number and weight per m<sup>2</sup> and mini-tuber size average had significant difference. The between planting beds, cultivars and planting beds × cultivars interaction in main stem per plant, main stem diameter and chlorophyll index had non-significant difference. The maximum of mini-tuber number and weight per m<sup>2</sup>, mini-tuber size average and number leaf per plant were belonged to Spirit cultivar in Wintereshtaen peat-mass: Zeolit (1:1). The difference number of mini-tuber per m<sup>2</sup> of Spirit cultivar with control (Agria) in the planting beds of Wintereshtaen peat-mass and Zeolit (1:1) was 1600 mini-tuber per m<sup>2</sup>.

**Key words:** Micro-tuber, Mini-tuber, Potato, Planting bed



University of Zabol

Graduate school

Faculty of Agriculture

Department of Agronomy and Plant Breeding

**The Thesis Submitted for the Degree of Master of Science  
(In The Field of Agroecology)**

**Title:**

**Evaluation of planting different beds on mini-tuber  
production of potato cultivars from micro-tuber  
under greenhouse conditions**

**Supervisors:**

Dr. M. Ramroudi

Dr. D. Hasanpanah

**Advisor:**

Dr. M. Asgharipour

**By:**

Sevda ghasemi

Jun 2013