

ABSTRACT

EFFECT OF DIFFERENT SOWING DENSITY ON YIELD AND SOME QUALITY PROPERTIES OF BUCKWHEAT (*Fagopyrum esculentum* Moench.) IN AYDIN ECOLOGICAL CONDITIONS

Hatice YAVUZ

Master Thesis, Department of Field Crops

Supervisor: Prof. Dr. Osman EREKUL

2014, 67 pages

This research has been conducted for the growing season 2012-2013 at Adnan Menderes University Faculty of Agriculture Research and Experimental Farm. The experimental design was completely randomized blocks with four repetitions. Güneş buckwheat variety which is used as trial material provided from Konya Bahri Dağdaş International Agricultural Research Institute. The aim of this study was to analyze effect of six different buckwheat seeding density on agronomic (plant height, number of plants per square meter, grain yield) and some quality (crude protein and oil, hectoliter weight) features.

As a result of this study, there were statistically significant differences between different buckwheat seeding density applications and grain yield, 1000 grain weight, number of plants per square meter but there were no statistically differences between different buckwheat seeding density applications and grain crude protein, crude oil and hectoliter weight.

Keywords: Buckwheat, seeding density, grain yield, quality