

ABSTRACT

MSc Thesis

**THE EFFECT OF DIFFERENT ROW SPACING ON THE YIELD AND
YIELD COMPONENTS OF RAPESEED VARIETES**

Hilal FARSAK

Adnan Menderes University

Graduate School of Natural and Applied Sciences

Department of Field Crops

Supervisor: Prof. Dr. Mustafa Ali KAYNAK

This study was conducted to determine the effect of different row spacing on the yield and yield components of winter sown rapeseed and optimum row spacing under the ecological conditions of Aydın Province, in Turkey.

This study was carried in the Adnan Menderes University, Faculty of Agriculture in 2008-2009 growing years in the study, four winter rapeseed cultivars (Licord, Oase, Californium, Orkan) and three row spacing (13 cm, 26 cm and 39 cm) were tested. Seed yield, plant height, number of lateral branches on the main stem, number of pods per plant, seed number per pod, thousand seed weight and crude oil ratio were examined.

In the study, on the plant height, lateral branches number, pod number, seed number and seed yield were significantly effected by row spacing.

The highest yield was obtained from 13 cm row spacing, while the lowest yield was obtained from 39 cm row spacing in all four cultivars. The best cultivars for Aydın conditions were Orkan and Californium.

2009, 43 pages**Key Words :** Rapeseed, plant density, yield and yield components, oil rate.