

Determination of Yield and Some Quality Characteristics of Winter Canola (*Brassica napus ssp. oleifera* L.) Cultivars

Authors : B. Coşgun, O. Ozturk

Abstract : Canola is a specific edible type of rapeseed, developed in the 1970s, which contains about 40 percent oil. This research was carried out to determine the yield and some quality characteristics of some winter canola cultivars during the 2010-2011 vegetation period in Central Anatolia of Turkey. In this research; Oase, Dante, Californium, Excalibur, Elvis, ES Hydromel, Licord, Orkan, Vectra, Nelson, Champlain and NK Petrol winter canola varieties were used as material. The field experiment was set up in a "Randomized Complete Block Design" with three replications on 21 September 2010. In this research; seed yield, oil content, protein content, oil yield and protein yield were examined. As a result of this research; seed yield, oil content, oil yield and protein yield (except protein content) were significant differences between the cultivars. The highest seed yield (6348 kg ha⁻¹) was obtained from the NK Petrol, while the lowest seed yield (3949 kg ha⁻¹) was determined from the Champlain cultivar was obtained. The highest oil content (46.73%) was observed from Oase and the lowest value was obtained from Vectra (41.87%) cultivar. The highest oil yield (2950 kg ha⁻¹) was determined from NK Petrol while the least value (1681 kg ha⁻¹) was determined from Champlain cultivar. The highest protein yield (1539.3 kg ha⁻¹) was obtained from NK Petrol and the lowest protein yield (976.5 kg ha⁻¹) was obtained from Champlain cultivar. The main purpose of the cultivation of oil crops, to increase the yield of oil per unit area. According the result of this research, NK Petrol cultivar which ranks first with regard to both seed yield and oil yield between cultivars as the most suitable winter canola cultivar of local conditions.

Keywords : rapeseed, cultivar, seed yield, crude oil ratio, crude protein ratio, crude oil yield, crude protein yield

Conference Title : ICABBBE 2014 : International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering

Conference Location : Paris, France

Conference Dates : September 22-23, 2014