

## Comparison of Chlorophyll Contents in Common Bean (*Phaseolus vulgaris* L.) and Runner Bean (*P. coccineus* L.) Genotypes

**Authors :** Huseyin Canci

**Abstract :** Chlorophylls are green photosynthetic pigment in plants. Therefore, photosynthesis in plants occurs in the leaves. Roles of chlorophylls help plants to get energy from light. The aim of the present study is to compare of chlorophyll contents in some bean species including common bean (*Phaseolus vulgaris* L.) and runner bean (*P. coccineus* L.) and genotypes. This research was carried out in fields of Faculty of Agriculture, Akdeniz University in Antalya. Species and genotypes were grown in 2 m single row and 50 cm row spacing. A randomized blocks design was used with two replications. Totally, 124 beans species and genotypes which 122 common beans and 2 runner beans were sown on February, 17th 2014 by hand. Chlorophyll a + b (SPAD values) were determined seedling stage, days to flowering 50% and pod setting stage on bean genotypes. Results showed that there were significant differences for genotypes, stages and interaction of genotypes X stages. There was statistically significant relationships between yield and chlorophyll content of bean species and genotypes.

**Keywords :** bean, chlorophyll, *Phaseolus*, SPAD values

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