



## ESTIMATION OF GENETIC PARAMETERS IN SOYBEAN FOR YIELD AND MORPHOLOGICAL CHARACTERS

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### ABSTRACT

The present study was carried out to estimate the important genetic parameters such as genotypic coefficient of variance (GCV), phenotypic coefficient of variance (PCV), heritability ( $h^2$ ), expected genetic advance (GA) and genetic advance as percent of mean (GAM) for nine quantitative traits of soybean (*Glycine max* L). The study was conducted during Kharif 2013 at Agriculture Research Institute (North) Mingora Swat. The field was laid down in randomized complete block design with three replications. The results indicated that PCV was greater than GCV for all traits except oil contents where PCV and GCV were equal. The PCV and GCV values ranged between 24% and 28% for number of pods plant<sup>-1</sup>, and 4% and 3% for days to maturity, respectively. Highest heritability was observed for oil contents (99%) and lowest heritability were observed for days to pod formation (31%). Most of the parameters exhibited high heritability including 100 seed weight, grain yield ha<sup>-1</sup> and oil contents (>85%), while days to pod formation, and pod length revealed moderate heritability. Expected genetic advance ranged between 1.78 (oil contents) and 780.80 (seed yield ha<sup>-1</sup>), while genetic advance as percent of mean ranged from 36.93 (number of pods plant<sup>-1</sup>) to 4.76 (days to maturity). Economically important characters including pod numbers plant<sup>-1</sup>, 100 seed weight and seed yield exhibited high variability and heritability with moderate genetic advance as percent of mean. It can be concluded that these characters may be used as selection tool in future breeding programs.

**Keywords:** genetic advance, genotypic coefficient of variance, phenotypic coefficient of variance, heritability, quantitative traits, soybean.

### INTRODUCTION

Soybean (*Glycine max* L.) of the family Leguminosae, is considered a miracle crop because of its extraordinary qualities. In Pakistan, it is one of the non-conventional oil seed crops that can successfully be grown during Kharif and Rabi season (Arshad *et al.*, 2006). Soybean is the one among the important vegetable food source in the world. This is due to its high content of oil (20%) and protein (40%) in its seed (Conab, 2010). It is grown in East and South East Asia mainly for food, feed and medicinal purposes (Lawrence, 2011). This plant contains about 37-42% of high quality protein, 6% ash, 29% carbohydrate and 17

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