

SEED YIELD ANALYSIS IN NINE SOYBEAN CULTIVARS

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ABSTRACT

Partitioning simple correlation coefficient between seed yield/plant and some of the yield components at harvest in nine soybean cultivars revealed that pods dry weight/plant and number of seeds/plant were the most effective contributing components to seed yield. Variation since their contributions were 42.4%, 71.21%, 48.7% and 28.16% for pods dry weight/plant and 9.05%, 1.83%, 11.2% and 16.26% for number of seeds/plant in 1st, 15th May, 1st and 15th June sowing dates, respectively. Whereas, the R^2 were 99.91%, 99.94%, 99.85% and 99.991% and the residual effects for sowing date were 0.09%, 0.06%, 0.149% and 0.009%, respectively.

INTRODUCTION

Studying the association among characters of economic importance gives useful information to plant breeder. If two characters are correlated either positively or negatively then selection for one will cause a change in the other according to the strength of the correlation. To find out that two desirable characters are associated together is an advantage, but the correlation between desirable and undesirable characters represents an obstacle in breeding program especially if the