

ABSTRACT

The author wishes to express sincerest appreciation to her supervisors, Dr. R.P. Arjanyavagan and Professor J.A. Brown for their guidance and assistance. Segregating populations of hybridized soybeans were used for an improvement programme aimed at improving yield and some correlated characters. Successive generations were subjected to the pedigree method of selection, and assessment trials of the promising selections with currently grown standard varieties were carried out to determine whether selection was effective in isolating genetically superior types.

Heritability estimates of some of the characters affecting economic yield were also calculated.

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