

HERITABILITY ESTIMATES AND RELATIONSHIPS OF CERTAIN CHARACTERISTICS IN POTATOES

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ABSTRACT

Broad sense heritabilities and linear correlations for 10 characteristics of 20 potato genotypes were estimated based on 2 locations and 2 years. Plant height gave the highest and plant yield gave the lowest heritability estimates. Except for dry matter content all the traits studied seemed to be affected by the genotype x environment interaction. Therefore, the testing of genotype x environment interaction should be carried out at multiple locations in multiple years.

There was a positive correlation of plant yield with plant height , number of main stems, number of tubers and avarege tuber weight. A positive correlation between dry matter and starch; negative correlation between dry matter and reducing sugar contents were also estimated.