

THE INHERITANCE OF DRY-MATTER AND REDUCING SUGAR CONTENTS IN CULTIVATED POTATOES

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ABSTRACT

The inheritance of tuber reducing sugar and dry-matter contents of cultivated potatoes (*Neo-tuberosum*, *S. tuberosum* and diploid hybrids) were studied in a partial diallel cross experiment. The results obtained were as follows:

The variation of tuber reducing sugar and dry matter contents in cultivated potatoes was wide, and both of them were controlled mainly by gene additive effect. The estimates of heritability of tuber reducing sugar and dry-matter contents were 0.78 and 0.60 respectively, and the correlation coefficient between the two characters was not significant, indicating that it is possible to obtain cultivars with lower reducing sugar and higher dry-matter contents by simple selection. The evaluation to cultivars and progenies presented was made based on combining ability effects of the two characters.

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(陈伊里)