

**Estimating the combining ability on number of days from germination before maturing 1st fruit and average mass of fruits sterile and fertiles tomatoes lines.**

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The paper presents results of estimating the combining ability on number of days from germination before maturing 1st fruit and average mass of fruits and sterile and 10 fertile tomatoes lines. High values of analysed hybrid characteristics are due to combined effects of high general and specific combining ability. It has been found, that high average mass of fruits tomato lines is controled by dominant polygenes. The high positive correlation between number of days from germination before maturing 1st fruit and their average mass at hybrids F1( $r=0.60\pm 0.09$ ) is shown.

Correlations between phenotype manifesation of number of days from germination before maturing 1st fruit and mass of fruits in lines and their general combining ability were rather high at both groups of parental lines. On early in sterile lines:  $r=0.81\pm 0.24$  in fertiles:  $r=0.92\pm 0.14$ ; on mass of a fruit at sterile lines:  $r=0.58\pm 0.33$  at fertile  $r=0.88\pm 0.22$ .