## **Turkish Journal of Botany**

Turkish Journal	Combining Ability Analysis of Yield and Yield Components in Tomato (Lycopersicum esculentum Mill.)
of	
Botany	Mohammad Mofidul HANNAN <sup>1</sup> , Manosh Kumar BISWAS <sup>2</sup> , Mohammad Bulbul AHMED <sup>1</sup> , Monzur HOSSAIN <sup>1</sup> , Rafiul ISLAM <sup>1</sup>
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C Keywords	Abstract: The nature of the inheritance of plant height at 60 days, number of flowers per cluster, number
Authors	of fruits per plant, fruit weight per plant, and number of seeds per fruit was studied from a 10-parent diallel cross of Lycopersicum esculentum Mill. Due to their high general combining ability effects, Pusharubi, Bari 4, and Dynasagor parents were suggested for future hybridisation programmes. For yield, the
	crosses Deshy x Ratan, Deshy x Epoch, Dynasagor x Ratan, Bari-4 x Pusharubi, and Dynamo x Namdhari had good specific combining ability effects and they were recommended because they produce
0	stable performing rare transgressive segregants. A population improvement approach in the form of diallel selective mating or mass selection with concurrent random mating could be used for the exploitation of
bot@tubitak.gov.tr	additive and non-additive gene actions for these characters.
	Key Words: General combining ability, specific combining ability, F <sub>1</sub> seeds, yield components, tomato,
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