Estimation of heterosis for bacterial wilt resistance in tomato
H. VIRUPANNAVAR, P.R. DHARMATTI, K.H. YASHAVANT KUMAR AND AJJAPPA SOGALAD

ABSTRACT
In tomato, the extent of heterosis for bacterial wilt resistance, yield and associated characters was studied during Rabi 2008, in a set of 40 hybrids produced from a line x tester mating design involving eight lines and five testers of diverse nature maintained in pure form in the vegetable block, Division of Horticulture, UAS, Dharwad, India. Appreciable amount of heterobeltosis and standard heterosis was noticed for majority of the traits studied. Among the 40 hybrids studied, most of the hybrids were significantly superior over commercial check in desirable direction for bacterial wilt and yield. DMT-6 x DMT-D, DMT-2 x IMP-B and DMT-5 x DMT-D were found to be superior over the commercial check for bacterial wilt and significantly superior for higher fruit yield per plant, average fruit weight, number of fruits per plant over commercial check Ruchi.

Key words: Line, Tester, Commercial check, Heterosis, Heterobeltosis, Bacterial wilt