

Title Evaluation of the agronomical potential and post-harvest firmness of fruit in tomato hybrids.
Authors de Andrade Junior, V. C. and de Azevedo, S. M.
Citation Ciencia e Agrotecnologia Vol: 25 (2001); 489-502

Abstract

Experimental tomato hybrids with multiple disease resistance were evaluated as to the characteristics of yield and fruit quality. Twelve potentially competitive hybrids in terms of post-harvest conservation in relation to the standard cultivars 'Santa Clara' and 'Debora Plus' were obtained. Evaluations of those hybrids under plastic house conditions as well as laboratorial tests of the post-harvest keeping capacity of the fruit were made. The characteristics of yield, size, coloration and firmness of the fruit were analysed. The results obtained showed high yield of the hybrids, up to 100% superior relative to the standard cultivar 'Santa Clara' and heterosis values for total and commercial production. The main reason for the yield gains of the hybrids relative to the cultivar 'Santa Clara' was attributed to the genetic homeostasis of the hybrids. No positive heterosis was detected for average weight of fruit and all the treatments were considered satisfactory as for maturation velocity and firmness. The hybrids 'TEX-033' and F1(BPX-342 Dhv x TSWV-582) were considered better than the cultivars 'Santa Clara' and 'Debora Plus'. The hybrid F1(BPX-342 Dhv x TSWV-582) may be suitable for the "long shelf life" market segment of Santa Cruz type.