Title Yield-related traits and fruit shelf life of tomato hybrids heterozygous in the "alcobaca" locus.

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Citation Ciencia e Agrotecnologia Vol: 25 (2001); 503-509

Abstract

We evaluated F1 hybrids of tomato plants of the multilocular group, which were obtained through the combination of the line TOM 559 (isogenic to 'Flora Dade' and homozigous for "alcobaca" allele), with the cultivars BHRS 2-3, Florida 1B, Hayslip, Piedmont, Rotam-4, Stevens and Summit (used like female parents). The trial was run at Ijaci - MG in the year 1994, with a randomized block design, where the treatments were seven hybrids cited above, seven parentals cultivars, the inbred line TOM 559 and the check 'Flora Dade', with 3 replications and 17 plants per plot. The total yield of the F1 hybrids showed values higher than and/or equal to those of their parental lines. The F1 hybrids fruits were firmer than their respective female parents. The titrable total acidity (TTA) of the F1 hybrids fruits had values superior to their parents. The total soluble solids (TSS) content of the F1 hybrids fruits were equal to that of their parents. The TSS/TTA of the F1 hybrids fruits, except the hybrids Hayslip x Tom 559 and Piedmont x Tom 559, were superior to that of the parents. Color of F1 fruits was slightly inferior to that of their female parents. The F1 hybrids evaluated will be able to advantageously substitute the check 'Flora Dade' and even their female parental lines, because of their superior fruit firmness, and also for their superior or similar performance relative to their respective parents.