

## Abstract

Geminivirus screening of new tomato varieties with one check variety of slicing tomato was conducted with the use of Crop Health Therapy products. The aim was to evaluate eight varieties of tomato on varietal characteristics and response to ReZist. Results showed that TX54 had significantly higher harvest weights in weeks 11 and 13. Brix tests indicated that Tropical Glory (TROPG), ROMA11 and Summer Star (SS) had significantly lower total soluble solids content. ROMA18 showed significantly greater firmness when compared to other varieties. All varieties showed minimal signs of Geminivirus when compared to Calypso. TX62, TX54 and H20 possessed larger fruit widths for five consecutive weeks when compared to other tomato varieties. As time progressed, all seven varieties recorded an increase in height. Tomato varieties TX62, TX54, TROPG and ROMA18 had significantly high fruit wall thicknesses. In addition, TX62 had significantly higher locule numbers. Over time, marketability of all tomatoes decreased. No major changes were observed for colour among all varieties. It may be concluded that no significant changes in susceptibility to Geminivirus were observed with or without the use of ReZist when applied to the tomato varieties.