

## LONG TERM PERFORMANCE OF FUERTE AND HASS CVS. ON LULA AND TOPA-TOPA ROOTSTOCKS ON SHALE SOILS A-153

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The study was done between 1981 and 2000 in a slightly calcareous and well drained shale soil. For the first eight years (six crops) Fuerte/Topa had higher yield and tree efficiency (yield per unit trunk cross sectional area) than Fuerte/Lula. The reverse happened with Hass. None of the differences were statistically significant. In the last twelve crops (1988-2000) differences between rootstocks were smaller. Fuerte/Lula produced trees larger than Fuerte/Topa. There were no consistent differences in pulp dry matter content between rootstocks but in most years Lula induced slightly earlier ripening.

In both cultivars K leaf levels were higher and Ca-Mg lower on Topa-Topa. Hass had higher P and Mn leaf levels than Fuerte on both rootstocks. N, Cu and Fe were similar in both cultivars and rootstocks. In the last 4 years of the experiment B was applied with the irrigation water. Leaf content increases were bigger in Fuerte and similar in both rootstocks.