

Various fungicides and growth regulators were studied to evaluate their capability to control stem-end rot and internal core-rot caused by *Alternaria* in citrus fruits after prolonged storage.

Results of experiments with grapefruits and Valencia oranges have shown that the fungicide imazalil decreases only slightly the incidence of decay and that the growth regulator 2,4-D is much more effective. Still better results were obtained with a

combined treatment of these two compounds.

There was a correlation between the percentage of green stem-end following the 2,4-D treatment, and the incidence of stem-end rot and internal rot after storage: the more green buttons, the less decay.

2,4-D treatment lowered also the incidence of stem-end rots and internal rots in fruits picked without the button.