

STUDY ON THE EFFECT OF SOUR PUMMELLO POLLEN AND MIXED SUBSTANCES RATIO SPRAYED FOR ADDITIONAL POLLINATION TO THE YIELD OF PHUC TRACH PUMMELLO CULTIVAR

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Summary

Aimed at stabilizing the yield and income earned, Phuc Trach pummello cultivar (*Citrus grandish* sp.) considered as a traditionally economic fruit crop in Huong Khe district, Ha Tinh province, has been additionally pollinated with different pummelo cultivar pollen that took time and labor. The study conducted in 2017 -2019 period focused on the determining proper mixture of sour pummelo pollen and supplemental substances used as additionally sprayed pollination for Phuc Trach pummelo. Results showed that the mixtures of sour pummelo pollen and powders of CaCO₃, milk and rice gave good effect to the fruit setting, fruit maintenance on the tree (2.82 to 3.75 times higher than control/ no application) that resulted to improving the yield (6.20 to 7.75 times higher than control) and economical efficiency of Phuc Trach pummelo cultivar in which CaCO₃ powder was considered the best whereas no changes of fruit characteristics was also recorded. the yield. And, what is more, the ratio between pummelo pollen and additional substance had no impact to the yield of Phuc Trach pummelo excluded CaCO₃ powder and sour pummelo pollen mixture of 1: 4 ratio gave the highest income (15.06 to 16.13 times higher than the control).

Keywords: *Phuc Trach pummelo cultivar, additional pollination, mixture, ratio, productivity.*