

RESEARCH RESULTS SELECTION OF ELITE PEAR IN BAC KAN PROVINCE

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Summary

Local pear is a special fruit tree grown in some upland areas of Bac Kan province, and brings high income to local people. A selection of local pear trees performing good agronomic traits was conducted in 2017 in Ngan Son district and Ba Be district of Bac Kan province. Through the survey's results of 2015 and 2016, 15 local pear individuals were selected and evaluated in field condition in 2017. The results indicated 5 local pear individuals (coded: NS1, NS2, NS3, NS5 and NS7) bearing good flowers and fruits in 3 consecutive years from 2015 to 2017 while other individuals had no flowering or less flowering in the 2016 - 2017's winter that was warmer and shorter than that of previous years. Annually, the each of 5 pear individuals produced from 298 to 637 fruits per tree with fruit weight ranging from 232.7 to 345.7 g/fruit and fruit yield ranging from 77.9 – 187.2 kg/tree. The local pear fruits exhibited spherical shape, hard and yellowish brown fruit peel. The fruit quality was evaluated as following index: sweetness, 9.77 - 10.87° Brix; vitamin C content: 9.33 - 13.75 mg/100g; total acidity content: 0.35 - 0.46%; tannin content: 0.17 - 0.29%. Through the overall assessment, 3 local pear individuals (NS1, NS2, NS3) were selected and ranked as the elite trees, and 2 others (NS7, NS14) were ranked as the good trees.

Keywords: *Bac Kan, local pear cultivar, elite pear trees, fruit quality, fruit yield, selection.*