

Study and selection of the most suitable quince vegetative rootstock for commercial Esfahan pear cultivars.

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The dwarf rootstocks because of their role in increasing the yield, the efficient using of planted area and decreasing expenses of fruit production are very important in modern commercial orchards, specially in apple and pear production. From early years, quince has been used as a dwarf rootstock for pear and it is still in use in most of pear producing countries.

This study was conducted in order to obtain the most suitable and compatible dwarf quince rootstock for propagating commercial Esfahan pear cultivars. The compatibility between rootstock and scion, propagation method and different effects of four quince rootstocks (Q.A, Q.B, Q.C and PQBA29) in comparison with seedling pear as a check on three pear cultivars including: Shahmeiveh, Sebrey, Natanzi were studied in Kabutarabad Agricultural Research Station of Esfahan for 3 year from 1997.

The results showed that these rootstocks were easily rooted by vegetative propagation (cutting and layering) and they were compatible with Shahmeiveh, Sbrey, Natanzi pear cultivars and no incompatibility signs was observed in the first years after grafting on this rootstocks.