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Horticultural Science

Baltic fruit rootstock studies: evaluation of 12 apple rootstocks in North-East Europe

Kviklys D., Kviklienė N., Bite A., Lepsis J., Univer T., Univer N., Uselis N., Lanauskas J., Buskienė L.:

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[fulltext]

In the frame of ‘Baltic fruit rootstock studies’ apple rootstocks B.9, B.146, B.396, B.491, P 2, P 22, P 60, M.9, M.26, Jork 9, Bulboga and Pure 1 were tested in Estonia, Latvia and Lithuania. More vigorous tree growth was recorded following North-South direction being the weakest in Estonia and the strongest in

Lithuania. Apple rootstocks can be grouped, according to the induced tree vigour, in the following way: less vigorous than M.9: P 22, the same as M.9: Pure 1, B.396, Jork 9, P 60, B.9 and P 2, between M.9 and M.26: B.491, more vigorous than M.26: Bulboga and B.146. Rootstock effect on cumulative yield and cumulative yield efficiency index was determined by location. The highest productivity, considering cumulative yield and efficiency index, was obtained on M.9 rootstock in Lithuania, on Bulboga, B.146, M.26 and B.491 rootstocks in Estonia and on Pure 1, P 60 and B.9 rootstocks in Latvia. Rootstock effect on fruit weight was not clear and differed among locations. Interactions between rootstock and location indicate at the importance of multi-site rootstock evaluation.

Keywords:

Malus domestica; growth; yield; fruit quality; efficiency index; geographical location

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