EVALUATION OF PEAR ROOTSTOCKS IN PROJECT “BALTIC ROOTSTOCKS STUDIES”

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Location

- Polli Horticultural Research Centre
  58°07`N 25°32`E

- Pure Horticultural Research Centre
  57°02`N 22°55`E

- Institute of Horticulture
  55°06`N 23°48`E
Materials

Local cultivar `Suvenirs` grafted on:

quince rootstocks -  
BA 29, QA 
QC;

*Pyrus communis* rootstocks - OH×F333  
`Pyrodwarf`,

seedling rootstocks from *Pyrus communis* -  
`Kirchensaller Mostbirne`  
`Kazrausu`

Vegetative growth, 2010

Planting distances:
LT- BA29, QC, QA, Pyrodwarf, OHF333 - 4x2m; Mostb, Kazrausu - 4x3m
LV- BA29, QC, QA - 4x2m; Pyrodwarf, OHF333 - 4x3m; Mostb, Kazrausu - 5x5m
EE- BA29, QA, Pyrodwarf, OHF333, Mostb, Kazrausu - 4x1.5m
Yield per tree

![Graph showing yield per tree for different varieties and locations.](image)
Tree survival rate

The graph displays the percentage of dead trees for different tree species categorized into three groups: LT, LV, and EE. The species are BA29, QC, QA, Pyrodwarf, OHxF333, Mostbirne, and Kazrausu. The graph indicates varied survival rates across these categories, with some species showing a higher percentage of dead trees compared to others.
Wintering conditions
Winter damages
Winter damages
Conclusions

• The most vigorous tree habit was stated in Lithuania on the rootstocks Kirschentaler Mostbirne and OH×F333, but in Latvia on Kirschentaler Mostbirne and Kazraushu.

• The most dwarfing influence of rootstock QC was observed.

• The highest cumulative yield from the orchard area was stated for trees grafted on rootstocks of quince group.

• Good overwintering in Latvia and Lithuania was observed for trees grafted on Pyrodwarf. In its turn surviving rate of trees on Pyrodwarf in Estonia was unsatisfactory.

• Intensive development of offshoots should be noted as drawback of Pyrodwarf rootstock.

• The rootstocks included in the investigation have dwarfing influence on trees, but no one of them can be recommended as perspective for commercial orchards in Baltic agro-climatical conditions.
Thank You!