

# **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`,**

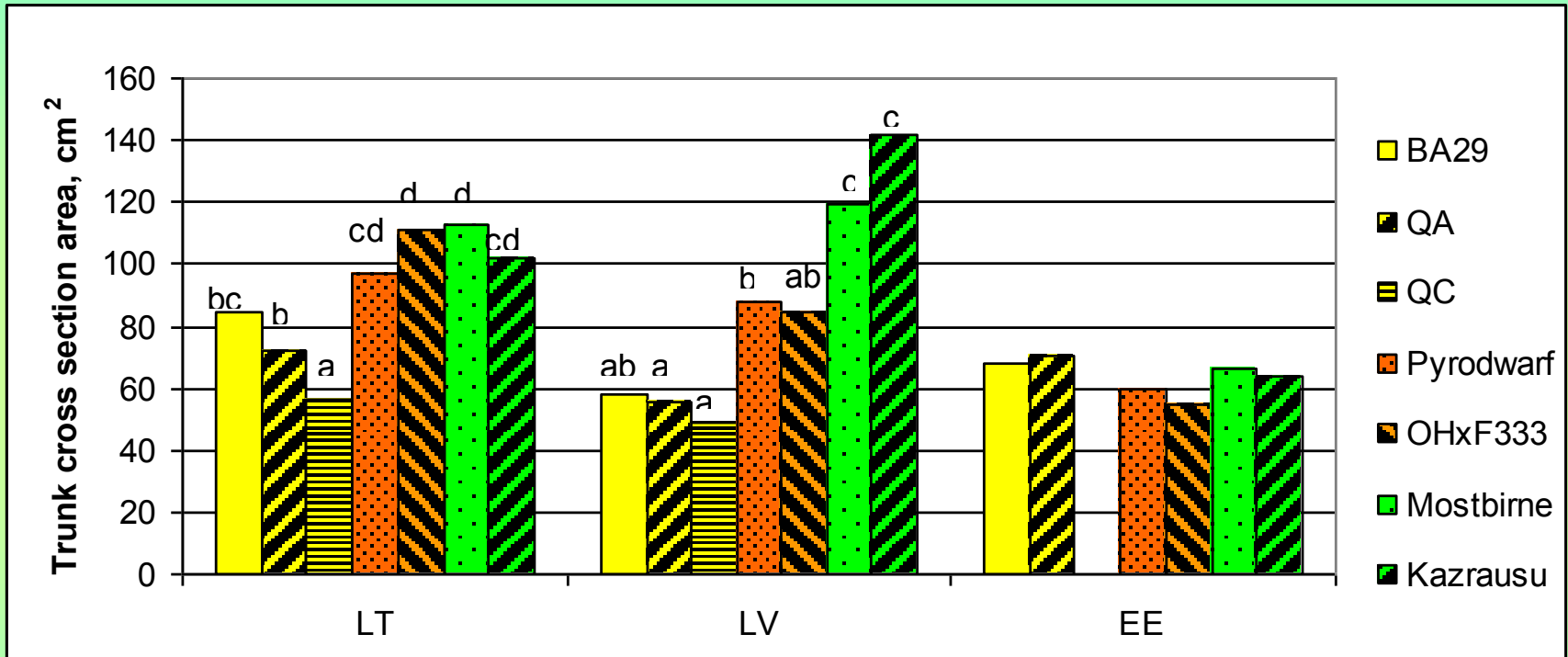
**seedling rootstocks from *Pyrus communis*-**

**`Kirchensaller Mostbirne`**

**`Kazrausu`**

Planted on 2001.

# Vegetative growth, 2010



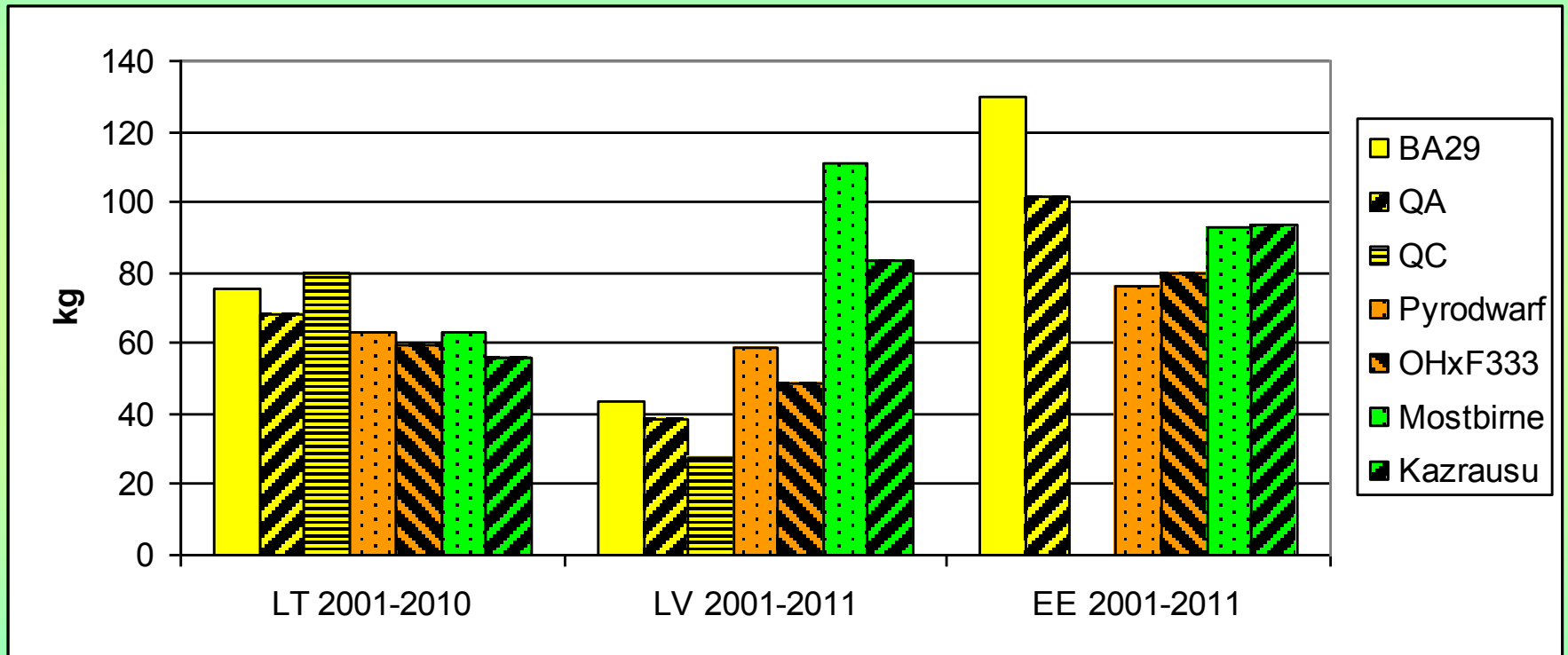
Planting distances:

LT- BA29, QC, QA, Pyrodwarf, OHF333 - 4x2m; Mostb, Kazrausu - 4x3m

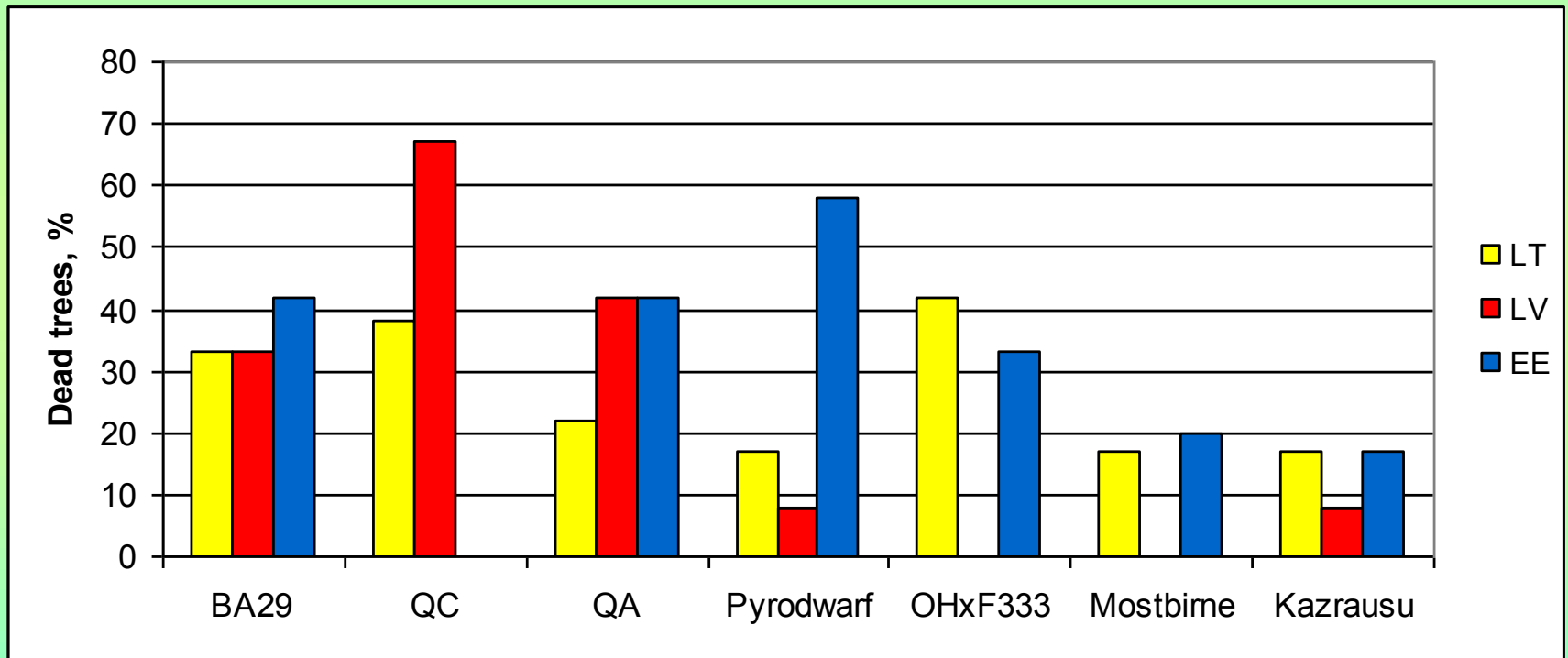
LV- BA29, QC, QA - 4x2m; Pyrodwarf, OHF333 - 4x3m; Mostb, Kazrausu - 5x5m

EE- BA29, QA, Pyrodwarf, OHF333, Mostb, Kazrausu - 4x1.5m

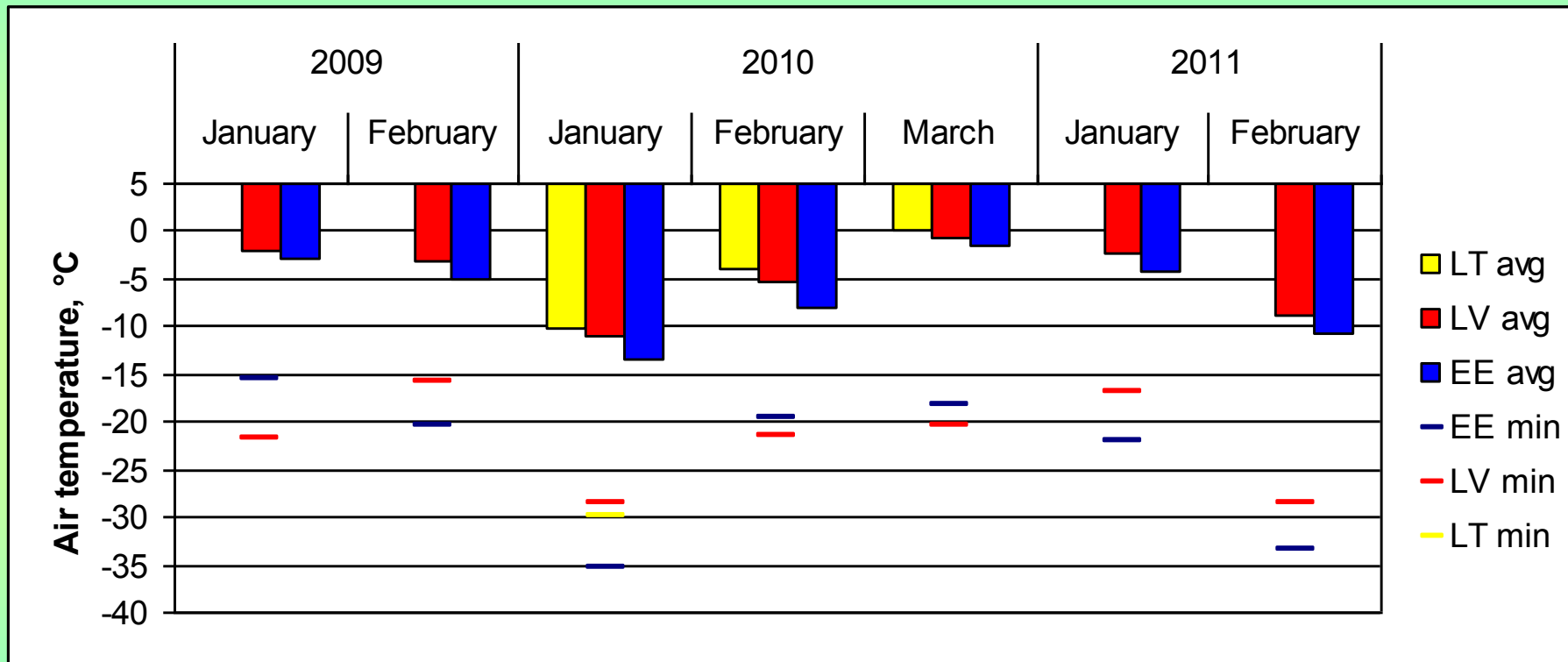
# Yield per tree



# Tree survival rate



# Wintering conditions

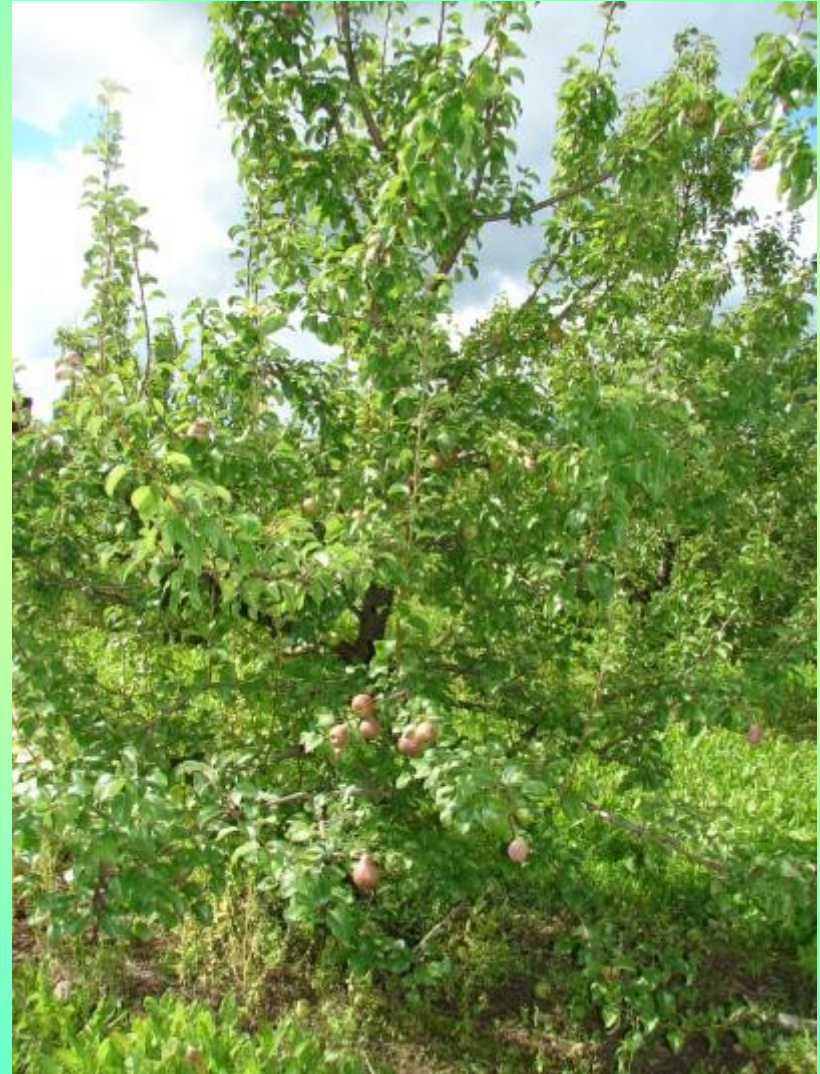


# Winter damages





# Winter damages



# Conclusions

- The most vigorous tree habit was stated in Lithuania on the rootstocks Kirschtaler Mostbirne and OH×F333, but in Latvia on Kirschtaler 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!**