

SEED ORCHARD BALTIC (PAB-VG-03)



QUALIFIED
Category

NORWAY SPRUCE – *Picea abies*

CHARACTERISTICS OF THE SEED ORCHARD

- French research INRA / IRSTEA
- Orchard of family trees
- Plantation year: 1981
- Plantation place: Comiac (Lot - France)
- Acreage: 7,9 ha
- Elevation: 580 m
- Number of families: 39
- Families origin: Northeast Poland forest stands (Mazurie-Podlasie regions - see table 1)
- Method of pollination : open

Table 1: list of original forest stands:

Forest	Stand name	Number of families
Bialowieza	Zwierzyniec I	8
	Zwierzyniec II	23
Augustow	Wigry	2
Borecka	Przerwanki	1
	Borki	5



Seed orchard

SELECTION CRITERIA

3 steps of selection:

- In forest; selection of Plus-trees based on branching, stem's straightness, late flushing and wood density features.
- At the nursery stage; choice of best offsprings for vigor & late flushing.
- Seed orchard thinned twice to emphasize on shape and vigor (lowering density from 2500 trees/ha, down to a final density of 245 trees/ha).

GENETIC GAIN TO EXPECT

BALTIC-VG is late to budburst: + 17 to + 61 degrees-days, compared to original forest stands.

+ 9% to +39% in juvenile growth, compared to original forest stands.



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