

# SEED ORCHARD

## BOSTAN-HAUTE-SERRE (ABO-VG-002)

Category  
QUALIFIED

## TURKISH FIR – *Abies bornmuelleriana*

### CHARACTERISTICS OF THE ORCHARD

- INRAE French research
- Clone orchard
- Planting year: 1986 to 1991
- Planting location: St Denis-Catus (Lot) France
- Surface area: 5 ha
- Number of clones: 65
- Origin of clones: 3 Turkish sources.
- Pollination method: Open

### SELECTION CRITERIA

- The Bornmueller fir is very close to the Nordmann. Its natural area extends along the Pontic mountain range, in northern Turkey.
- Cones were collected from 3 remarkable Turkish stands, south of Kastamonu, in the continental zone subject to a relatively dry climate (annual rainfall less than 500 mm):
  1. Baldiran (altitude 1,550m)
  2. Kizilkhize (alt. 1,750m)
  3. Catak (alt. 1,650m)
- These 3 sources were evaluated on 4 contrasting sites in France, in Dordogne, Cantal and Haute-Marne.
- Within these 4 tests aged 23 years, INRAE chose the 65 best trees from the 3 sources, for their exceptional characteristics of vigour (height, diameter), late budburst and wood density.



### GENETIC GAINS

- Compared to the Uludag-Sousceyrac seed orchard (ABO-VG-001), this orchard is able to grow trees of a more inland Turkish origin, subject to a drier climate in summer and colder in winter. The habit is also narrower (adaptation to heavy snow).
- In progeny tests, this orchard confirms strong juvenile vigour (height at 10 years, +75% compared to the Nordmann Ambrolauri control) and less sensitivity to spring frost.



VILMORIN

T. +33(0)2 41 79 41 66

[semences.arbres@vilmorin.com](mailto:semences.arbres@vilmorin.com)

Route du manoir

49250 La Ménitrie – FRANCE

[vilmorin-tree-seeds.com](http://vilmorin-tree-seeds.com)

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