

# SEED ORCHARD

## ULUDAG-SOUSCEYRAC (ABO-VG-001)

Category  
QUALIFIED

## TURKISH FIR – *Abies bornmuelleriana*

### CHARACTERISTICS OF THE ORCHARD

- INRAE French research
- Clone orchard
- Planting year: 1991/1993
- Planting location: Sousceyrac (Lot) - France
- Surface area: 4.5 ha
- Number of clones: 48
- 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 in Turkey, in 3 sources subject to different climates:
  1. Uludag: Bursa region, western part of the area
  2. Cangal: Ayancyk region, eastern part of the area, humid coastal zone
  3. Araç: Kastamonu region, inland zone, much drier climate
- These 3 sources were compared with 10 Nordmann sources on 2 test sites, in Dordogne and Haute-Marne. The Bornmuellers soon showed clear superiority over the Nordmanns, in terms of vigour and late budburst.
- Within the 2 French tests aged 22 years, INRAE chose the 48 best trees among the 3 sources, for their exceptional characteristics of vigour (height, diameter) and shape.



### GENETIC GAINS

- Compared to the Bostan-Haute-Serre seed orchard (ABO-VG-002), this orchard samples a larger part of the Turkish natural area, and is therefore potentially suitable material for varied growing conditions (humid to dry).



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