

SEED ORCHARD

SAINT-LAMBERT (ACE-VG-001)

Category
QUALIFIED

GREEK FIR - *Abies cephalonica*

CHARACTERISTICS OF THE ORCHARD

- INRAE French research
- Clone orchard
- Planting year: 1981
- Planting location: Lioux (Vaucluse) - France
- Surface area: 4 ha
- Number of clones: 3,646
- Origin of clones: 6 Greek sources.
- Pollination method: Open

SELECTION CRITERIA

- In the 1970s, INRAE began a programme to select the Greek sources best suited to the climate of southern France. Stands in the Peloponnese, particularly in the Mainalon mountain range, showed a good compromise between vigour, resistance to summer drought and relatively late budburst (for the species).
- On the basis of these initial trials, the St Lambert orchard was planted with a combination of 6 sources, including 4 from the Peloponnese (Mainalon 38% of the clones, Erymanthos 29%, Parnon 23% and Taygetos 1%) and 2 accessory sources, which were subjected to a more marked summer drought but budded earlier (Island of Cephalonia 5%, Island of Evia 3%).
- The characteristics of the St Lambert site (shallow limestone soil, marked summer drought) have led to a natural selection process, which should result in an improvement in drought resistance compared with the original population.



Saint-Lambert orchard

GENETIC GAINS

- For reforestation in the south of France, the St Lambert seed orchard currently offers the best compromise between vigour and resistance to drought.
- For woodlands further north (Burgundy, Franche-Comté, Germany, etc.), this orchard has been undergoing tests for around ten years, in particular to assess its tolerance to spring frost.



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