

# LARIX DECIDUA EUROPEAN LARCH

## FACTS

### Composition

Year of propagation: 2009 - 2010

Year of establishment: 2011

Plus tree offspring when planted out: 30 clones

Isolation to the nearest Larix sp.: Approx. 1,500 m

Reference number: FP.661

Category: Qualified

### Identification

Species: Larix decidua

Ownership: Hedeselskabet

Supervisor: HedeDanmark a/s

SeedLocation: Tophøj dept. 13a

Latitude: N 56.523518

Longitude: E 9.483669

Altitude: 58 m

Area: 3.81 ha

## Seed orchard Tophøj FP.661

### Objective

Production of seeds of high physical and genetic quality for the production of timber.

### Selection criteria

The plus trees are selected based on the following criteria:

1. Overall height
2. Bulk height (height from basis to the beginning of the crown)
3. Diameter (DBH) at a height of 130 cm
4. Cortical thickness
5. Tree log straightness
6. Ability to natural pruning
7. Crown width
8. Crown length
9. Crown shape
10. Crown symmetry/construction of the crown
11. Branch thickness
12. Branch angle of growth

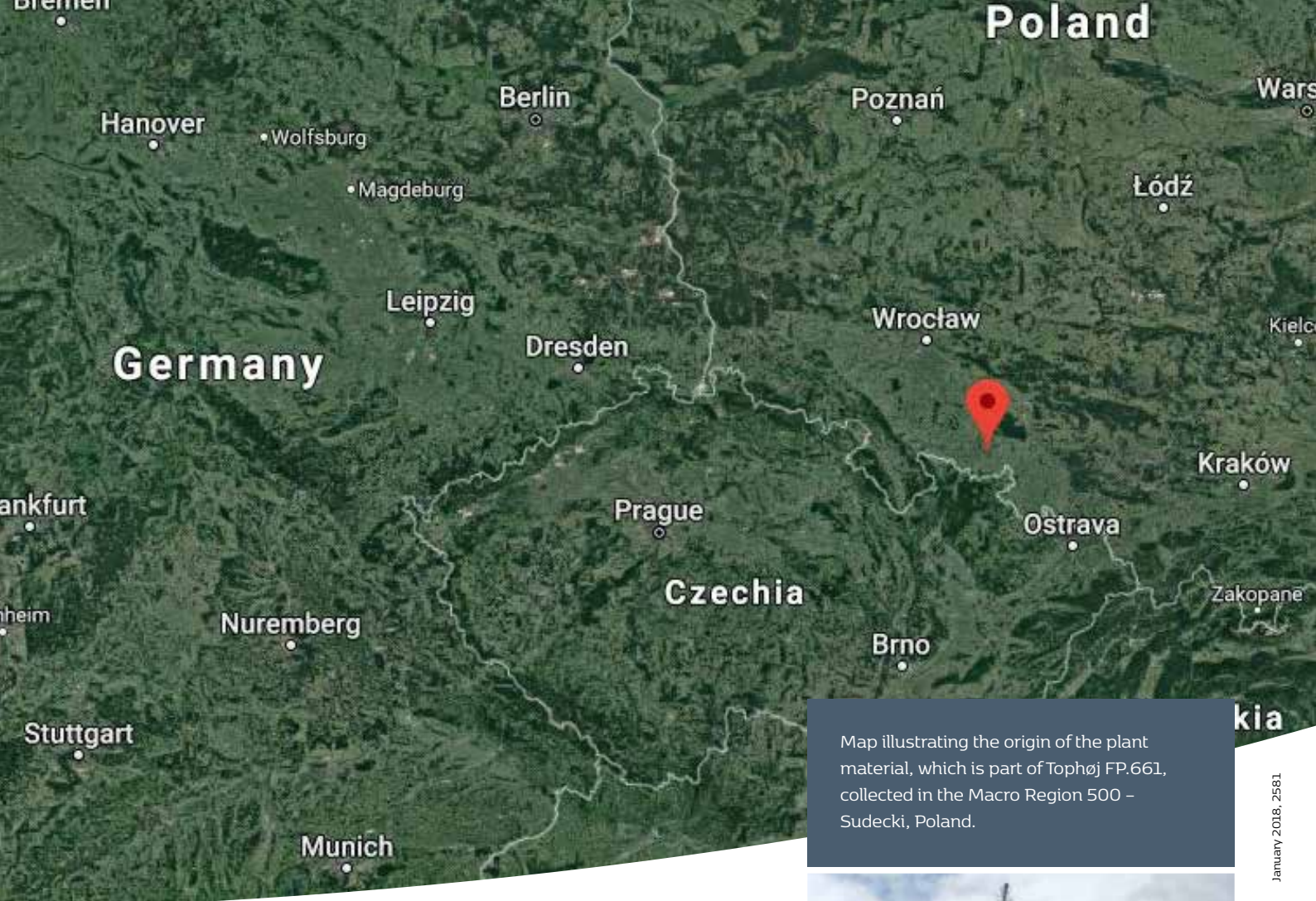
A score or an exact dimension in mm / m was given to each plus tree – values of importance in proportion to a certain number of standard trees.

### The components of the basic material and its origin

European larch (*Larix decidua*), seed orchard Tophøj FP.661, consists of 30 clones selected by the Polish State Forestry. The clones are selected among 46 clones that are part of a clone bank in Aboret Syców, Poland, from where the plant material in the seed orchard originates.

The original plus trees are selected in the eastern part of the Sudete Mountains in the regions Wrocław and Katowice in the southwestern part of Poland. The plus trees were originally selected in natural growth in an altitude of 190 – 280 m, aged 100 – 160 years. The height of the trees was 33 – 42 m with a diameter of 50 – 80 cm at a height of 130 cm.

FP.661 consists of 30 clones, which all originate directly from the clone bank at the Polish State Forestry, Aboret Syców, Poland.



Map illustrating the origin of the plant material, which is part of Tophøj FP.661, collected in the Macro Region 500 – Sudecki, Poland.

January 2018, 2581

#### Design

The seed orchard is well balanced with its 30 clones equally spread between 970 trees.

#### Genetic gain

Offspring of seed orchard *Larix decidua* Tophøj FP.661 is expected to have the same qualities as the originally selected plus trees based on the extensive selection.

#### Recommended planting areas

All places where recommended to plant *Larix decidua*. Based on the very narrow growth form, offspring of Tophøj FP.661 is well suited as a mixture in broad-leaved and conifer plantings.



Offspring of Tophøj FP.661.  
C. E. Flensburg, dept. 127 after 3rd season of growth.

#### HedeDanmark a/s

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