



Plants for
Christmas trees
and Greenery

Lundbygaard FP.1000

GEOGRAPHY

The seed orchard consists of 17 carefully selected clones, all contributing to improving the quality of the offspring with more first-quality trees and better health. The genetic foundation of the seed orchard originates from Silkeborg Nordskov FP 259, grafted from the old Tversted seed stand planted in 1904. The original genetic material is believed to come from the Borjomi area in Georgia. The seed orchard is located at Lundbygaard Estate in Southern Zealand. The altitude is 30 m. The stand covers 4.5 hectares, grafted in 2007, and comprises 574 grafted trees.

TYPE, SHAPE, AND GROWTH

The Tversted F526 and F527 seed stands, from which the clones originate, are characterized by a very attractive shape with beautiful branches, excellent needle position, and large, dense needles. Tversted breaks buds quite late and is, therefore, associated with a low risk of late spring frost damage. The seed orchard originally consisted of groups of 20 clones, but 3 of the 20 clones were genetically thinned, and the remaining 17 clones have been intensively tested for needle loss and *Neonectria* fungus, leaving the orchard with good prospects for producing very healthy seedlings.

RESEARCH AND EXPERIENCE

The clones from the seed orchard have all been tested at the University of Copenhagen, and their breeding values are known. The progeny of the offspring can, therefore, be expected to have the following characteristics compared to Tversted F526 and F527. It is expected that the grower will obtain 14% more first-quality trees compared to Tversted, the growth rate is slower and will require less work on regulation and shearing. On average, the offspring will be about 4 inches shorter (10 cm) than Tversted F526 and F527 after a tree crop rotation. The width of the trees is also smaller, resulting in narrower trees. The offspring of Lundbygaard FP1000 flushes later than Tversted and Ambrolauri, but only marginally. Likewise, the after-harvest quality is improved and tested, reducing the risk of needle loss.

SUPPLY SECURITY

The seed orchard has produced seeds on a commercial scale since 2015. It is professionally managed for optimal seed quality and yield. This includes intensive pest management programs and optimal fertilization combined with frequent inspections. This means that the technical quality of the seed is very high with high germination rates and impressive vitality. The seed will provide an optimal basis for plants from the nursery to the Christmas tree grower.



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Rooted in Knowledge

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