



Picea sitchensis, Sitka spruce

Seed Orchard Nødebo FP.238

November 2014, 1501

Purpose:

Production of seeds for plants of superior quality.

Basic material:

The seed orchard consists of 113 clones (plus trees) selected among 27 Danish Sitka spruce stands on 11 main locations; all stands of presumed Washington origin. The seed stands had been "Approved" or were of equivalent quality.

Selection criteria:

The plus trees are selected according to volume production, stem form and fine structure branching.

Improvement programme:

The seed orchard is established as a clonal seed orchard (by grafting) and comprised 113 clones at the establishment.

Genetic thinning:

Due to the limited numbers of trees in the orchard, a genetic thinning is not expected.

Qualities:

Progeny of Nødebo FP.238 will have a genetic gain above average compared to the original stands. Compared to one of the best Danish seed stands, for instance Rye Nørskov F.299, progeny of Nødebo FP.238 will be an improvement as regards stem form and volume production.

Application:

Based on the effect of the selected plus trees progeny of FP.238 will be specifically suitable for the production of high quality timber, wherever it is recommended to plant Sitka spruce; however not on frost-exposed locations.

HedeDanmark a/s

Seed

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FACTS

Composition:

Year of propagation: 1977-1987

Number of clones when established: 113 clones

Design: Randomized

Isolation to the nearest Sitka spruce: Min. 500 m

Approved No.: FP.238

Approved category: "Qualified"

Approved purpose: Wood production

Identification:

Species: Picea sitchensis

Ownership: HedeDanmark a/s & Naturstyrelsen

Supervisor: Naturstyrelsen

Locality: Gribskov, Nødebo, DK

Latitude: N 56.084444

Longitude: E 12.472222

M.a.s.l.: 68 m

Area: 4.0 ha