

Larix kaempferi, Japanese larch

Seed orchard C.E. Flensburg FP.601



Purpose

The object was to produce a wind-resistant Japanese larch that would be particularly well-suited for the western part of Denmark.

Basic material

Older wind-exposed stand of Japanese larch at Kongenshus Hede west of Viborg. The stand had grown well, had an excellent stem form and was probably the progeny of seeds, directly imported from Hokkaido, Japan.

Selection criteria

Wind-resistant type, stem form, branch quality and health.

Genetical gain

In 2005, the seed orchard was approved as tested in accordance with the results of the progeny trials, F.223 and F.224, at two different locations in Denmark. The qualities in which FP.601 significantly outperforms the standard Sostrup F.40d are stem form, basal sweep and wood density.

Stem form: +23.7%

Basal sweep: +13.0%

Wood density: +6.6%

Use

Based on the selection criteria, FP.601 is well-suited at wind-exposed locations and because of its wind resistance and wood density FP.601 is also well-suited for the production of high quality timber with mixed broad leaf species and in mono stands. FP.601 is also well-suited as a nurse tree or as a hedge plant since the progeny of FP.601 is very homogenous. FP.601 can be used at all locations where Japanese larch is recommended.

FACTS

Composition

Year of propagation: 1955-61

Year of establishment: 1955-62

No. of clones planted initially: 13

No. of clones removed: 3

Plant spacing: 4.5 x 3.0

Isolation to closest larch occurrence: 500

Country: Denmark

Reference number: FP.601

Selection category: Tested

Identification

Species: Larix kaempferi, Japanese larch

Ownership: Det danske Hedeselskab

Supervisor: HedeDanmark a/s, Forest Seed

Location: C.E. Flensburg dept. 19k

Latitude: 56°38' N

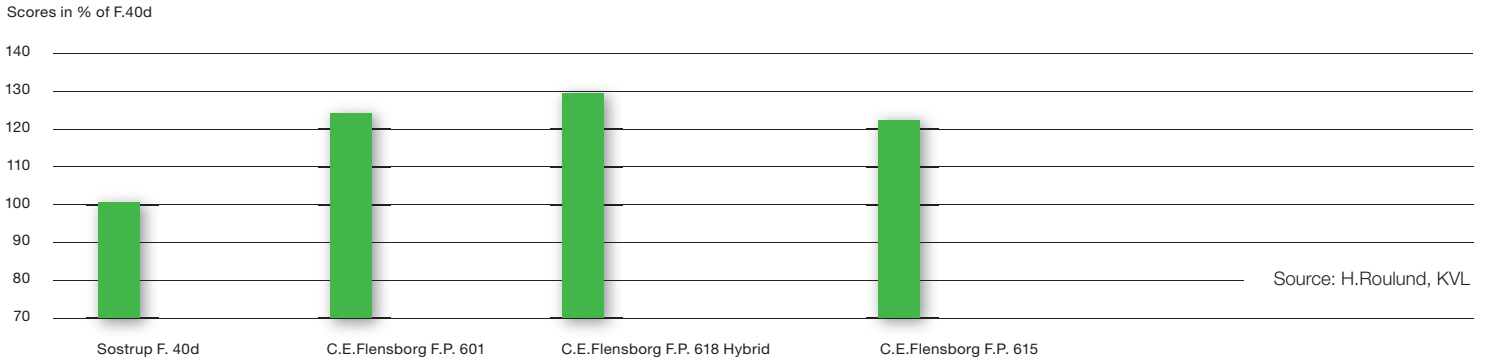
Longitude: 09°24' Ø

Altitude: 40 m.a.s.l.

Area: 2.4 ha

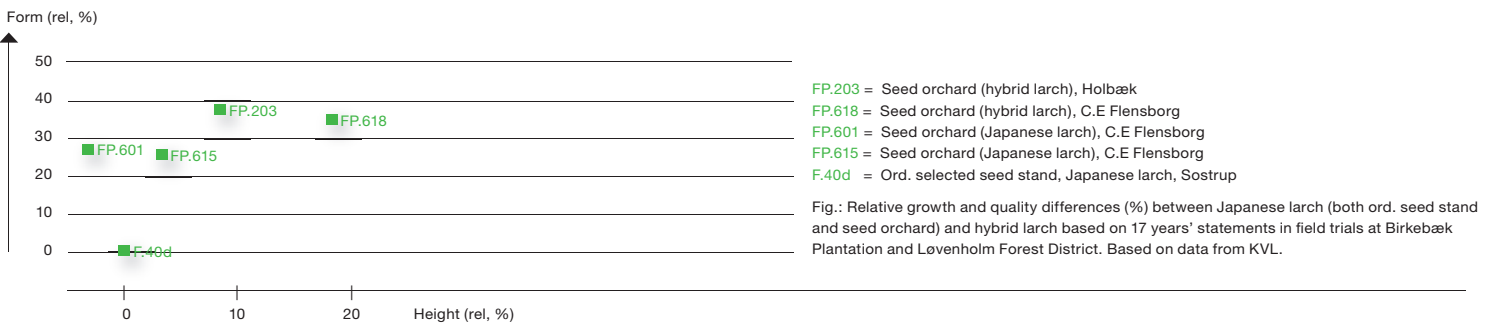
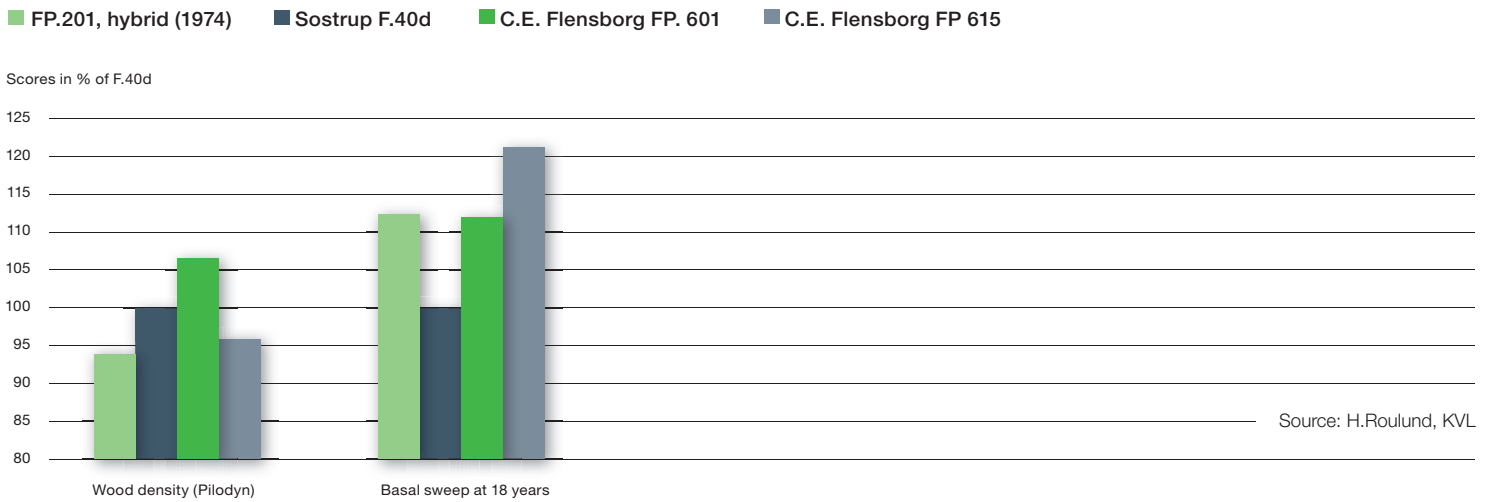
STEM FORM AT 18 YEARS

Percentage improvement over the standard, Sostrup F.40d.



WOOD DENSITY AND BASAL SWEEP

Percentage improvement over the standard, Sostrup F.40d.



HedeDanmark a/s

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