Experimental Planting of *Larix laricina* in the Kamloops Region

Establishment Report

B.C. Ministry of Forests
Research Section
Kamloops Region

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Objective

The objective of this trial is to assess the field performance of *Larix laricina* when grown outside its native geographic range. Plots are located adjacent to two Asian larch *Larix siberica* and *Larix amelitii*, research plantations which were established in 1986 (S886121K).

Site Description and Location

This trial is in the Kamloops Forest District near Knouff Lake and Cahilty Creek.

Knouff Lake

The general site description is as follows:

- Elevation: 1.40 km
- Subzone: MSdm2
- History:
  - Windrowed & burned - 1984
  - Grass seeded - 1985
  - Planted - 1986
- Map Reference: 92I100
  - Opening #6

Cahilty Creek

The general site description is as follows:

- Elevation: 1.65 km
- Subzone: ESBFdc2
- History:
  - Windrowed & burned - 1985
  - Planted - 1986
- Map Reference: 82L091
  - Opening #11

Experimental Design

On each site two blocks were planted. Each block consists of nine rows of ten trees planted approximately 2.5 meters apart within and between rows.
Establishment

Stock used in this trial was grown at Balco Nursery as 1+0 PSB313 container stock. Seed was obtained from the Alberta Forest Service. Seedlot statistics are:

- AFS Genetics Accession #2294
- Latitude: 52° 05’
- Longitude: 114° 28’
- Elevation: 960 m

Measurements

At time of planting a random sample of 20 trees were measured for total height and root collar diameter.

Averages are:

- Planting height - 11.2 cm
- Root Collar Diameter @ planting - 1.8 mm

Subsequent measurements will consist of:

- Fall '88 - 1st Year Increment
  Stem diameter
  Condition

- Spring '89 - Overwinter damage

- Fall '89 - 2nd Year Increment
  Stem diameter
  Condition

- Spring '90 - If overwinter damage in '89

- Fall '92 - 5th Year Increment
  Stem diameter
  Condition
APPENDIX 1 Location Instructions

Knouff Lake - from Heffley Creek store

0.0 km Right off Highway #5 onto Heffley L. Road
8.0 km Left onto Knouff L. Road
20.9 km Right onto Finlay Road at Knouff Lake Estate sign
24.8 km Right over cattleguard
25.1 km Keep right
28.0 km Road junction; left to replicate 1; replicate 2 100+ m south from junction
28.6 km Replicate 1 on right

Cahilty Creek - from Heffley Creek store

0.0 km Right off Highway #5 on to Heffley Lake Road
24.4 km Left onto Louis Creek Road
40.1 km Right onto Cahilty Forest Road
44.2 km Keep left
47.0 km Keep right
47.6 km Turn left
48.8 km Site on right; up slope
APPENDIX 5  CAHILTY - BLOCK.

BLOCK 4

SX 86121 K
ASIAN LARCH TRIAL

SCALE: 1 cm = 10 m

TO HEFFLEY CREEK