**Table S1.** Description of seedlots1 of interior spruce, lodgepole pine and western hemlock, and their International Seed Testing Association (ISTA) seed test result2

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Seedlot code | Species | Seed planning zones3 | Elevation (m) | Year collected | Germination% | Moisture content % |
| 3679 | Pli | TOD (50°56ʼN 122°50ʼW) | 1320 | 1978 | 93 | 5.1 |
| 4939 | Pli | WK (49°7ʼN 118°22ʼW) | 1450 | 1987 | 94 | 6.7 |
| 8435 | Pli | CT (52°3ʼN 121°5ʼW) | 1300 | 1988 | 95 | 6.2 |
| 40428 | Pli | CHL (52°51ʼN 123°38ʼW) | 1100 | 1996 | 96 | 7.3 |
| 42255 | Pli | TOA (50°27’ʼN 120°3ʼ31’’W) | 1445 | 2005 | 96 | 6.5 |
| 33356 | Sx | WK (50°15’N 118°10ʼW) | 1190 | 1991 | 96 | 7.0 |
| 35707 | Sx | MIC (51°2ʼN 118°48ʼW ) | 1200 | 1991 | 97 | 7.0 |
| 37842 | Sx | MGR (54°26ʼN 121°44ʼW) | 850 | 1992 | 95 | 8.0 |
| 39450 | Sx | CP (55°3ʼN 125°2ʼW) | 875 | 1994 | 95 | 7.6 |
| 45353 | Sx | SM (54°39ʼN 128°45ʼW) | 800 | 1996 | 97 | 7.0 |
| 3439 | Hw | NST (55°30ʼN 128°57ʼW) | 150 | 1978 | 92 | 6.7 |
| 4094 | Hw | M (48°59ʼN 124°25ʼW) | 850 | 1979 | 94 | 6.9 |
| 35571 | Hw | SM (54°35ʼN 128°5ʼW) | 750 | 1992 | 97 | 6.1 |
| 39235 | Hw | MIC (51°2ʼN 118°16ʼW) | 900 | 1993 | 93 | 6.8 |
| 53002 | Hw | WK (50°8’30’ʼN 117°58ʼ32’’W) | 610 | 2008 | 96 | 6.9 |

1 Data collected in this experiment.

2 Seed tests carried out by the Tree Seed Centre (Tree Improvement Branch, Ministry of Forests, Lands and Natural Resource Operations) as per International Seed Testing Association rules.

3 The Seed Planning Zones in BC are abbreviated TOD, WK, CT, CHL, TOA, MIC, MGR, CP, SM, NST, and M; these denote Tompson Okanagan Dry, West Kootenay, Cariboo Transition, Chilcotin, Tompson Okanagan Arid, Mica, McGregor, Central Plateau, Submaritime, Nass Skeena Transition, and Maritime zones, respectively.

 **(a) Lodgepole pine**



Time course (day)

Germination %

**(b) Interior spruce**









Germination %

Time course (day)



**(c) Western hemlock**



Germination %

Time course (day)

**Figure S1**. Germination profiling for all 15 seedlots of lodgepole pine, interior spruce, and western hemlock in six manipulated environments. (S: stratification, P20°C: thermo-priming at 20°C for three days, SP20°C : stratification followed by 20°C thermo-priming for three days, P15°C: thermo-priming at 15°C for three days, SP15°C: stratification followed by 15°C thermo-priming for 3 days, CK: control (no manipulation). Seedlot numbers are indicated on the bottom right-hand side of each graph.