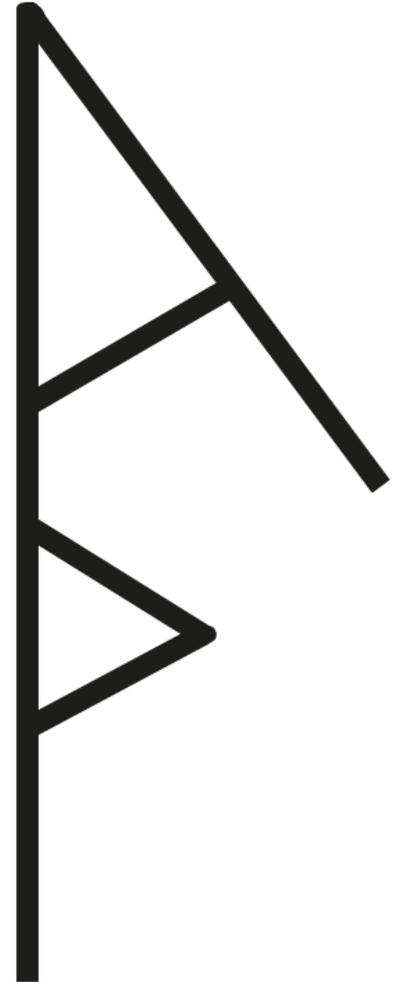


Practical approach on production of Sitka spruce

Bjørn Borgan

Nursery manager

Alstahaug Planteskole



Who are we?

- Forest nursery established 1930
- Production for the costal line of Norway. Picea, Pinus, Larix, Abies, Betula
- Registrated as a non-profit trough Helgeland Skogselskap est. 1905



Where are we?

- Located at 66 degrees north
- Coastal climate



Our history on production of Sitka-spruce

- Established as a forest nursery for production of Sitka-spruce
- Steady incline on demand for the first years with a production of apx. 1 million in the top years.
- Planted apx. 8000 hectares In Nordland county
- Crash of 03/04
- The last years demand and production have been hovering around 20-30 000 Sitka and Lutzii spruce
- Alstahaug seed



Extra Lighting

- High pressure nitrogen lamps for the 1-year production in a 12 hour regime with start of sowing march 15.
- The light is kept on during the 2 year production with start at May 1.
- Might not be necessary for the Sitka spruce production, specially not for the seeds gathered from southern locations, but it's always better to be safe than sorry!
- Change do to the new LED-tech in lighting?

Shortday- treatment.

- Essential for production of Sitka
- Every year in the forest nursery
- 12-14 day regime
- 1800-0730
- Feel the development of the bud



Storage.

- A bit more difficult to store compared to Norway Spruce.
- Seems to be more exposed to fungi in storage
- We wait as long as possible before we put them in boxes.
- Key-rule: always dry needles before storage!



Thank you for the
attention!

