SX 83202 Q

SEED COVER TRIAL

WORKING PLAN FEBRUARY 1983

G. Matthews 1983
To: A. McDonald
Silviculture Branch Library

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Subject: SX 83-202Q Seed Cover Trial

Introduction

Companies providing sources of washed screened sand and crushed silica are anxious to have their products accepted in competition with the standard Forestry Sand provided by Target Concrete. The period of concern is germination, although we should consider post germination effects of sand temperature.

Experimental Design

- Each treatment will consist of 4 PSB 211 styroblocks
- Seedlots to be used are:
  S(SZ 3100) 93H13/B3/4186/.907 92%
  Hw(SZ 1040) 92G12/B2/3021/.490 44%
  Fdi(SZ 5020) 92015/B3/3088/1.143 85%

The growing medium will be standard
3 peat & 1 vermiculite containing 3 kg/m³
12 mesh and finer Green Valley dolomite lime.
All seedlots will be single sown. This trial should be located in a greenhouse at PFRC and can be initiated as soon as possible. Spruce and hemlock should be covered with 6 mm of sand, Douglas fir with 9 mm.

Treatment 1. Control. Cover seed with Target Forestry Sand.
2. Cover seed with #2 Granite grit if available.
3. Cover seed with Pacific Silica crushed silica grit.
4. Cover seed with washed screened sand from Quesnel.
5. Cover seed with washed screened sand from Prince George.

Requirements

Five treatments x 4 reps x 3 species = 60 PSB 211's

20 PSB 211's - S 4186 = 4800 cavities x 1 seed = 4800 seeds
20 PSB 211's - Hw 3021 = 4800 cavities x 1 seed = 4800 seeds
20 PSB 211's - Fdi 3088 = 4800 cavities x 1 seed = 4800 seeds

Observations Required

Germination counts should be made from the time germination begins until it is complete. Germination curves should assess the rates of germination as well as total germination. Observations should include...
the occurrence of disease during germination.

G. Matthews
Agriculturist
Container Productivity

GM/cm