1985 AERIAL BROADCAST SEEDING TRIAL IN THE GOLDEN DISTRICT (EVANS PRODUCTS)

Report prepared by: 

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Typed

Report & Distribution approved by: 

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Golden District
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Approved:

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1985 AERIAL BROADCAST SEEDING TRIAL IN THE GOLDEN DISTRICT

Working Plan
1985

L.A. Pittman
1985 Broadcast Seeding Trial in the Golden District

OBJECTIVE:
To determine the suitability of broadcast seeding as an acceptable method of regeneration in the Golden District.

PROCEDURE:
1. Site Description
   Of the 251 hectares proposed for broadcast seeding, 188 hectares are located in the Upper Kootenay River – Beaverfoot River area and are situated in the MSa biogoeclimatic zone. The soil type is a fine textured silt-clay-loam, the moisture regime is mesic and the nutrient regime is mesotrophic. The other 63 hectares are located about a mile from Donald in the Lower Copper-Waitabit Creek area, in the ICHQ2 biogoeclimatic zone. The soil type is a silt, clay-loam, moisture regime is submesic and nutrient regime is permesotrophic. Both areas are well suited to lodgepole pine (Pinus contorta Dougl. ex Loud.) regeneration.

2. Seed
   The proposed prescription for these sites will be to broadcast seed lodgepole pine. The seedlot chosen is 261Z, with seed viability of 61%, a B5 collection obtained in the Blaeberry. The total seed required for this project using information from the silviculture manual (Chpt. 8 Section 8.64) -
   - suggested kg. per ha. = 0.5 kg
   - suggested seeds per ha. = 168,000 seeds

   Requirement:
   0.5 kg/ha x 251 ha = 125.5 kg of seed

3. Seeding Method
   The proposed treatment will be carried out on the snow using a seeder mounted to a helicopter.

4. Sampling
   A rodent survey will be carried out on representative blocks before seeding is initiated.

   Each area will be sampled after the first and the second growing season using 50 M² circular plots and a plot density equal to that of regeneration survey plot density.

5. Administration
   Evans Products Co. Ltd. will be responsible for the initiation of this broadcast seeding trial, seeding and related administration, field sampling and final reports which will be submitted to the Ministry of Forests. The Ministry for its part shall ensure that all reasonable costs to Evans are reimbursed through Section 88 of the Forest Act.
February 28, 1985

Ministry of Forests
518 Lake Street
Nelson, B.C.
V1L 4C6

Attention: Chris Thompson, Research Officer

Dear Chris:

Enclosed are maps and seed bed survey forms for the proposed broadcast seeding areas you requested. Upon careful examination of the individual treated areas we have delineated areas within the blocks which display unique geomorphological characteristics. It should be recognized that variations within the blocks are relatively insignificant.

Yours truly,

EVANS PRODUCTS COMPANY LIMITED

[Signature]
Laird A. Pittman
Silviculture Supervisor

LAP/cmG
Encls.