

NOTE

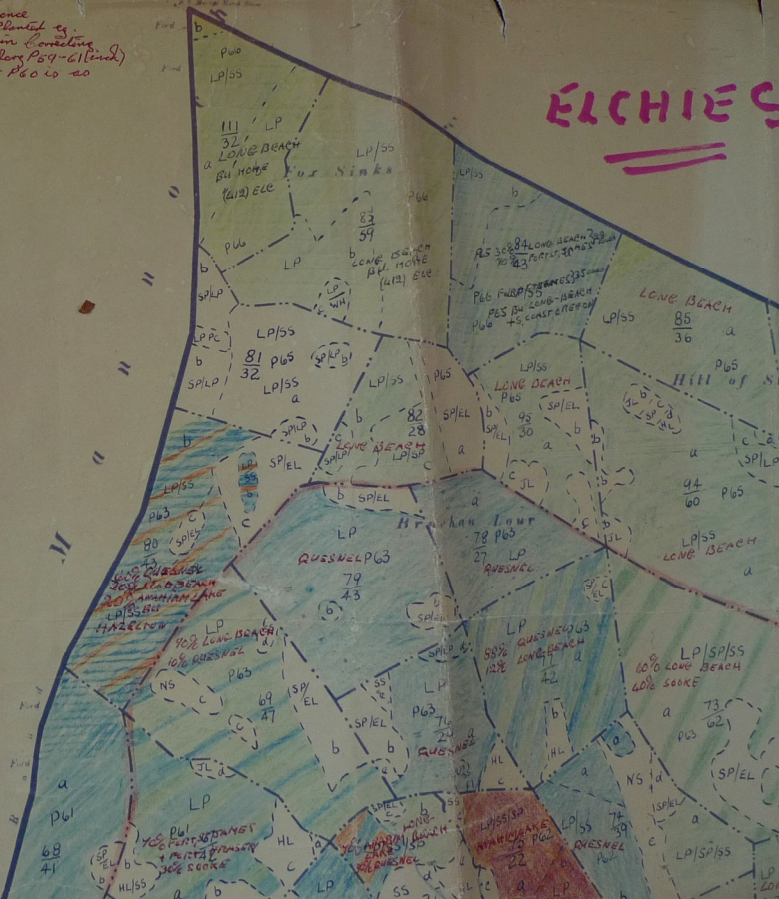
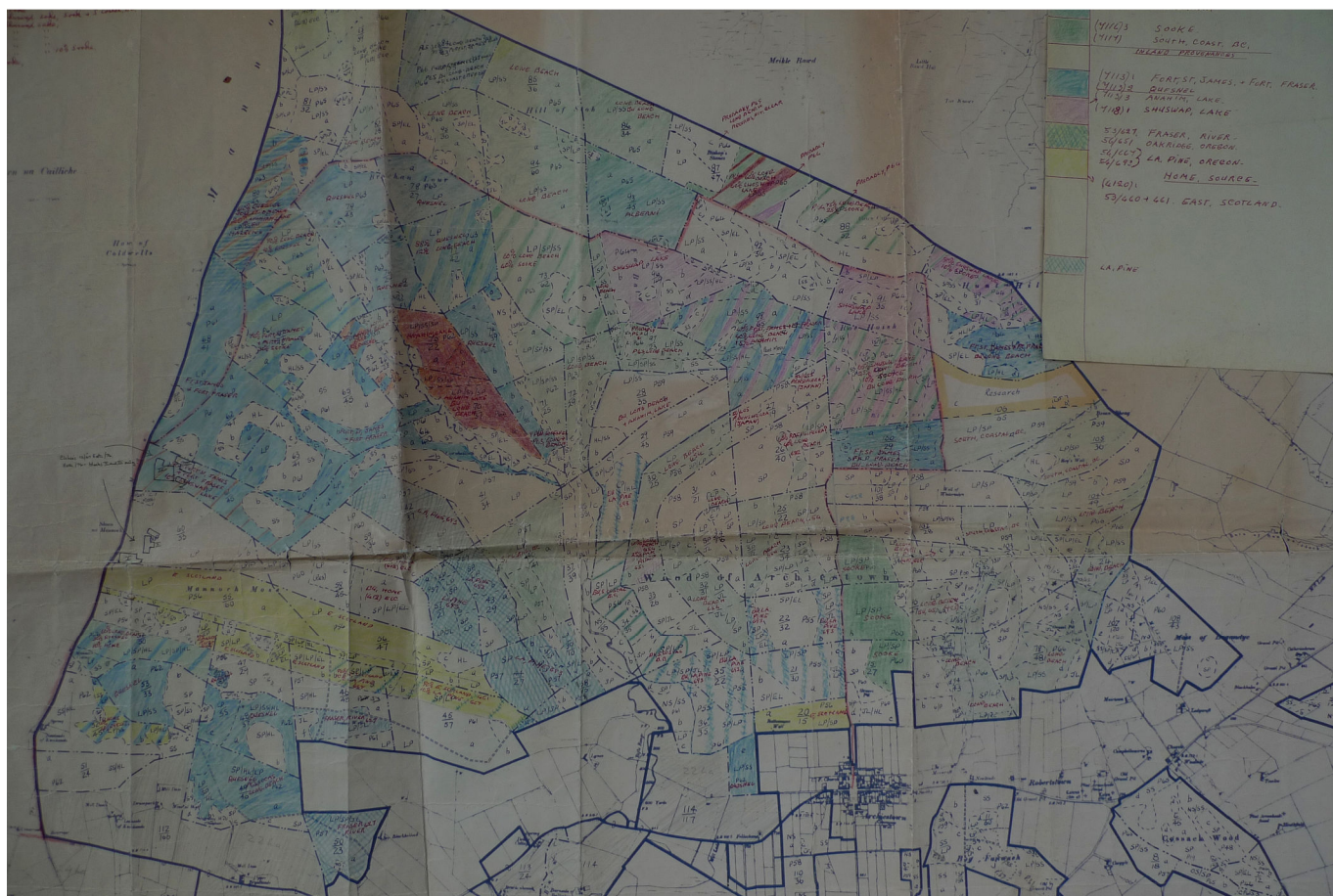
C 47, Shuswap lake
 " 71, Sooke
 " 76, Shuswap lake, Sooke & S Cortal, B.C.
 " 80, Shuswap lake,
 " 81, " "
 " 82, " "
 " 83, " "
 " 84, 90% " 10% Sooke.
 " 86, Sooke,

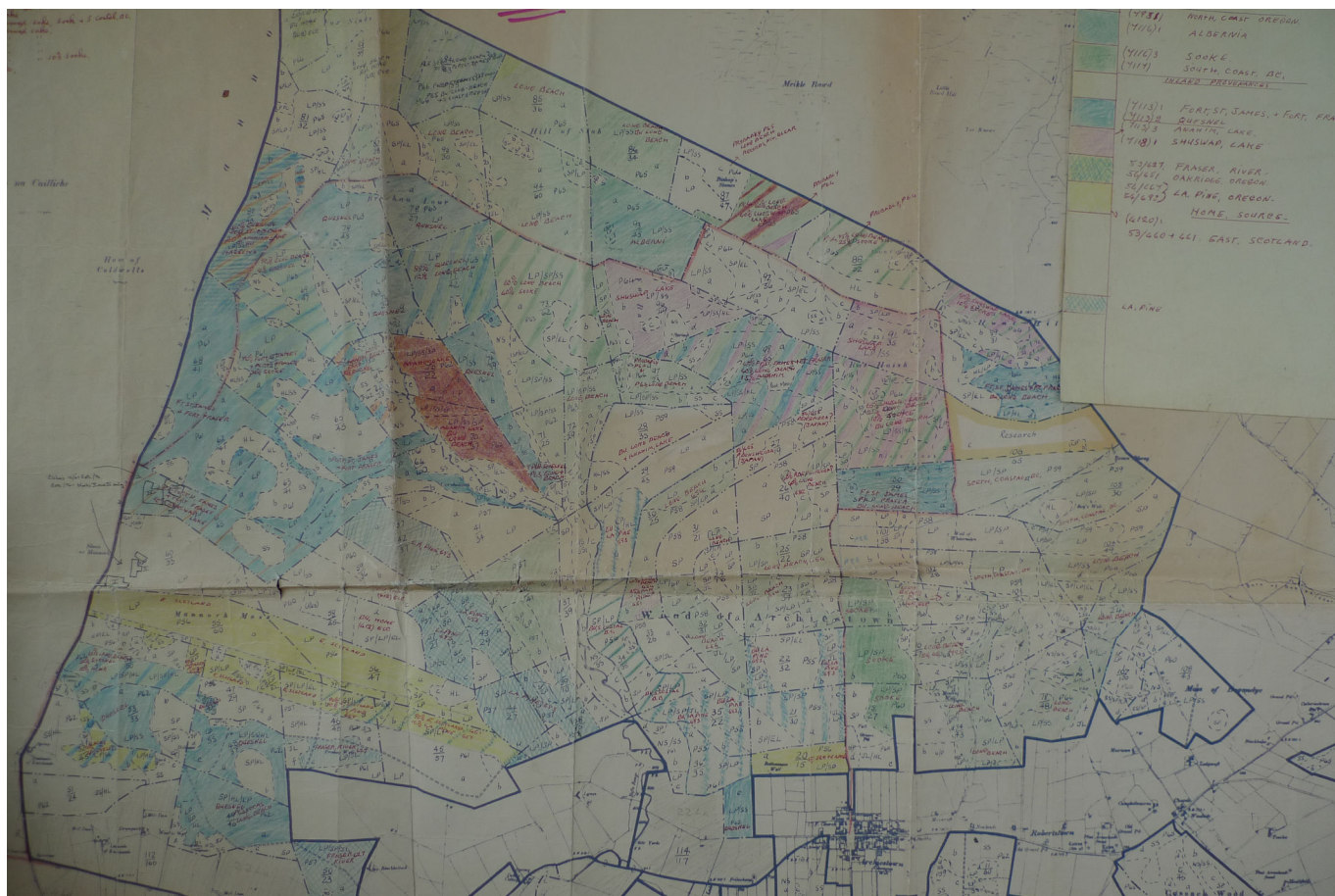
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Spring

Black Road

ΕΛΧΙΕΣ





RL/EML

FORESTRY COMMISSION
Northern Research Station
Roslin, Midlothian

20th May 1971

To: D.B.Paterson

Copy to: P.Silv(N)
J Mackenzie
J H Thomson
E.R.Robson
Aultmore General
55.9

Our Ref: 9.12(a)

AULTMORE FOREST) LP PROVENANCES P.60-P.70
SITE SURVEY OF 1970/71

1. During this survey it was established that there were differences in the performance of various provenances of Lodgepole pine and their distribution was mapped. I was shown three maps together with a table showing the performance of 7 provenances in 17 compartments ranging from P.60 to P.68. I have never visited Aultmore and the following remarks are merely tentative and probably not very helpful.

2. Coastal Provenances

Of the eight provenances I should expect only minor differences in performance between the South Coastal ones (Long Beach, Newport, Astoria, Olney, North Bend and Florence). The notes indicate some superiority of the Newport provenance in Compt. 246 P.67. This is on a slightly more sheltered site than most of the others and we know how rapidly these SCLP can grow on hill peat with the minimum P at Planting. It is too young yet to show any K deficiency though top-dressing will probably be needed before it is 10 years old. On the peaty ironpan soils top-dressing of S. Coastal provenances may not be financially worthwhile. Some of the compartments with Long Beach are planted in the furrow bottom on peaty ironpan soils and judging by Teindland, this is almost certain to result in considerable instability. It may also be a reason for the relatively poor shoot growth in Compt. 223 P.65. (The criterion of maximum shoot length given in the table is perhaps less helpful than some estimate of mean height or mean shoot). I am somewhat surprised about the yellow foliage recorded here and it would be worth checking (a) whether this really is Long Beach (b) how much of the yellowing is due to waterlogged soil conditions and how much to K deficiency.

Sooke is widely planted and appears to have done better than I would have expected on this exposed site (judging from the maximum shoot lengths). It normally reacts poorly to exposure and seldom retains more than two years needles on exposed sites. Early flowering noted here is also a common characteristic.

Alberni is, I presume, 62(7116)1. This seed-lot has turned out to be mixture of types. In the Achray 3 P.65 drainage experiment it contains about 5 per cent South Coastal individuals and about 40-50 per cent Inland B.C. and 40-50 per cent Vancouver Island types. The first will give dark, vigorous and unstable dominants. The second rather spindly trees with yellow foliage on poorer peat soils and the last will be somewhat similar to Sooke though with better needle retention and less male flower.

3. Inland and Intermediate Provenances

Only three compartments are shown in the table, two of which are on hill peat. On those K deficiencies are marked though vigour is said to be "good". In Compt. 162 there are beat-ups of Long Beach which may be the "larger individuals" which are socketing. K top-dressing is likely to be necessary for all compartments with inland and intermediate provenances which are unlikely to be rooting into mineral soil. I am surprised about the Shuswap Lake provenance in Compt. 8 being so inferior to the Sooke lot in Compt. 9. When (and if) these lots get into the thicket stage and provide each other with mutual shelter it should result in improved growth.

I can say little about the Hazelton and Nass R. lots as these do not appear in the table showing performance. I suppose this is because they are only present in the recent plantings. We should expect rather similar rate of growth and performance from these (judging from young provenance experiments). They should be included with inland provenances in any manurial prescriptions for top-dressing.

R LINES

Silviculturist (North)