

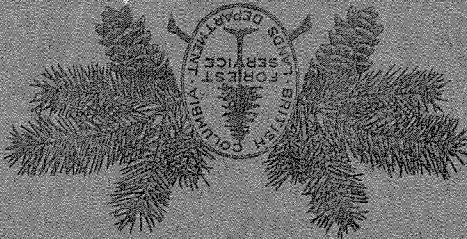
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ANALYSIS OF COSTS OF
BEAR CREEK LOGGING &
MILLING STUDY
1941

BRITISH COLUMBIA FOREST SERVICE



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Following Mr. McMillan's progress report of February, 1942, and his analysis of logging data then available, the rest of the operation was completed. Mr. Hodgins covered this later phase of the field work in his note of December, 1942.

With all the data at hand Messrs. Housell and Alexander have made a complete analysis of all phases of the experiment with the exception of the milling study which had been completed the first season and reported on in the initial report. The final analyses are presented herewith.

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ANALYSIS OF COSTS OF BEAR
CREEK LOGGING AND MILLING
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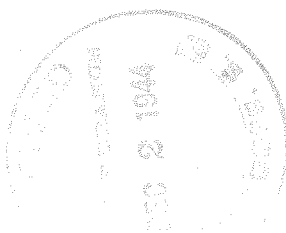
A. Crew Labor Requirements

B. Labor Requirements In Men Minutes

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E. Board Foot-Cubic Foot Ratio



I. FALTING AND BUCKING

A. Falting and Bucking Time Per Tree

Falting and bucking time per tree is presented graphically in Figure 1, from which the accompanying table was drawn. In this as well as subsequent graphs, there may be slight discrepancies between the table and graph. These discrepancies, which are negligible, were the result of slight deviations in finishing off the graphs in black ink.

Falting and Bucking Time Per Tree

| D.B.H. (Inches) | No. of Trees | Men Minutes Per Tree |
|--------------------|-----------------|-------------------------|
|--------------------|-----------------|-------------------------|

| | | |
|----|----|-----|
| 16 | 5 | 39 |
| 18 | 18 | 46 |
| 20 | 29 | 55 |
| 22 | 40 | 65 |
| 24 | 29 | 76 |
| 26 | 12 | 88 |
| 28 | 3 | 102 |
| 30 | 3 | 116 |
| 32 | 3 | 132 |
| 34 | 2 | 148 |
| 36 | -- | 164 |
| 38 | 2 | 180 |

The standard error of men minutes per individual tree was 14.5 minutes.

Falting and bucking time includes swamping, undercutting, sawing, rest and delay, as well as moving and bucking.

B. Falting and Bucking Time Per M.B.M.

Falting and bucking time per M.B.M. is shown graphically in Figure 2, from which the following table was drawn.