Research Memo

August, 1987

Re: FRDA Reports 014, 015, 016, 017.

Due to their specialized content, abstracts have been provided for the above mentioned reports. Limited quantities have been printed and are available upon request only.

FRDA Report 014
IMPACT OF INTENSIVE FORESTRY PRACTICES ON NET STAND VALUES IN BRITISH COLUMBIA
prepared by: Nawitka Resource Consultants

Abstract: A study was done to indicate the economic impact of intensive forestry practices on net stand values in B.C. The purpose of the study was to develop a trail from treatment responses predicted by theory and demonstrated research results, through changes caused by focussing on the merchantable part of the stand, to further changes caused by applying treatments in operational conditions. Results include operational yield tables for major species for second growth managed stands, and a set of relative priorities for treatment.

FRDA Report 015
PRODUCTIVITY AND PROFITABILITY OF GRAPPLE YARDING B.C. COASTAL SECOND-GROWTH TIMBER
by: Jack MacDonald

Abstract: A study was established to examine the profitability of grapple yarding second-growth timber of the type being produced by treatments implemented by FRDA. The study block was located approximately 15 km northwest of Sooke, B.C. The stand composition was mainly second-growth Douglas-fir. A Madill 122 yarding crane was monitored on a shift-level basis over a two-month period, and at a detailed-time period, individual logs were scaled and graded, and their yarding time recorded. The yarding costs and profits of these logs were calculated. Marginal log sizes for each species, by log grade, were determined. The major factor influencing the profitability of a log was turn size with yarding distance having a lesser influence. Grapple size and design influenced yarder productivity.

FRDA Report 016
SITE PREPARATION EQUIPMENT IN BRITISH COLUMBIA: CURRENT AVAILABILITY AND FUTURE NEEDS
by: R.E. Breadon, R.P.F.

Abstract: Requirements by type, quantities and potential sources, of mechanical site preparation (MSP) equipment in B.C. were investigated in relation to work forecast under FRDA. On B.C. Crown lands, an estimated 66 300 ha of "current" MSP and 38 700 ha of "rehabilitation" MSP are planned for each year during the period 1988-1992. Taking into account annual equipment productivities, added work on federal and private lands, machine replacements and other factors, it is estimated that existing pieces of MSP equipment must be supplemented with 93 new pieces by the 1988 field season. Prime movers for the new MSP equipment must also be purchased or diverted from other work. Experienced MSP operators or well-trained new operators will be required. Cost and technical problems encountered with current equipment are outlined, along with possible solutions in some cases.

FRDA Report 017
UTILIZATION OPPORTUNITIES FOR WESTERN RED CEDAR — A REVIEW
prepared by: M.R.C. Massie, Nawitka Resource Consultants

Abstract: A review of the red cedar specialty products industry was done to determine future research needs. The study focussed on present products and markets, research done on new products and potential markets for cedar specialty products.

*To obtain a copy of these reports, please forward your request and a return address label to: Publications, Canadian Forestry Service, Pacific Forestry Centre, 506 West Burnside Road, Victoria, B.C. V8Z 1M5.*