

... A forestry consultant with experience in industry and government. My goal is to increase clients' profit margins, asset values, and competitiveness.

Some of the key challenges in achieving this goal have been:

- To define clear objectives.
- To identify opportunities with a high likelihood for substantial economic benefit (risk management).
- To narrow the focus for capitalising on benefits in the near term.
- To design management systems so that decisions, and the process of making them will be simple, efficient, effective and durable.
- To get the involvement of stakeholders and technical experts with a degree of commitment necessary to ensure success.

Direct experiences in forestry include:

business management
strategic planning
supervision
training
information systems
data management
software development
research
data analyses
ecological classification
surveys and monitoring
inventories
growth and yield
forest estate planning
harvest planning
silviculture
forest valuation
damage appraisals

RANGE OF EXPERIENCE

Mr. Moss has worked 24 years in forestry consulting, government and industry in the central interior and coastal environments of British Columbia, and to a lesser extent in Saskatchewan, South Eastern United States, Scotland and Iran.

SPECIFIC EXPERIENCE

Consulting

Provided valuation of woodlands using cash flow projections.

Produced V-day estimates of capital gains on a private land sale on Vancouver Island.

Assessed Fire damages in two lawsuits.

Designed and implemented growth and yield projects in the Lignum Ltd. IFPA. Activities include field sampling protocols, data management and data analyses.

Prepared an economic valuation of IFPA activities.

Completed a draft corporate silviculture investment policy.

Developed software to support the valuation of tissue culture (embryogenesis) as an alternative to seed orchards in the SE US.

Developed strategic plans for: The Northern Interior Vegetation Management Association, and for the Lignum Limited Inventory, Growth and Yield Programs.

Pacific Forest Products

Designed a plot based inventory data collection, compilation and projection system for application to Pacific Forest Products' 125,000 hectares of private land.

Northwood Pulp & Timber

Initiated and completed the preliminary design of the Operational Planning System. The system supported the scheduling of, and budgeting for: permit approvals, road construction, harvesting and silviculture activities involving an annual cut of 3 million cubic metres.

Developed a concept of risk management and free growing liability using discount rates. It was integrated into the planting management system to improve plantation establishment practices and enabled a reallocation of staff time to improving other aspects of silviculture.

As part of a team of 3 technical experts, lead in the development of an actuarial system for predicting the likelihood of trees meeting height and age (free growing) targets. As a consequence vegetation management treatments in the third growing season after planting were recognised as ineffective - a practice that cost \$350,000 per year. The purpose of this program was to underwrite the estimation of free growing liability prior to the stand actually reaching free growing.

Designed and implemented a herbicide rate and timing trial

that resulted in the granting of a minor use permit for VISION. This enabled the application of VISION in the same year as planting.

Assessed the seedling nursery environment at Northwood and made recommendations leading to improved seedling growing conditions.

Initiated the design of the original McGregor Model Forest Concept of Sustainability and participated in its implementation.

Industrial Forestry Service Ltd.

Managed a 10-person silviculture department at Industrial Forestry Service with an annual revenue of 500 thousand dollars.

Managed the Northern Interior Vegetation Management Association directed by 10 licensees with an annual budget of 100 thousand dollars for program development, communications and education.

Assessed the impact of the "maximum density policy" for lodgepole pine in terms of costs and benefits (long run sustained yield) for the Cariboo Lumber Manufacturers Association.

Developed a variable density, mixed aspen-spruce growth model to assess the impact of mixed-wood management on timber supply in the Fort Nelson area.

Completed numerous pre- and post-harvest field assessments and surveys and silviculture prescriptions throughout the North Central Interior.

Assessed Saskatchewan's planting program and made

recommendations for improvements.

Ministry of Forests

Assisted in the field sampling and developed silviculture interpretations for the Coastal Western Hemlock, hyper-maritime subzone.

Assisted in the field sampling of Grizzly Bear habitat in the Mid Coast's Kimsquit Valley.

MacMillan Bloedel

Completed surveys, prescriptions and supervised the silviculture crew operations.

Atholl Estates

Designed, implemented, compiled and reported on the inventory of this 3000 hectare Scottish Estate.

Education

MS. University of Georgia, 1988.
A concept of foliar nitrogen efficiency was developed and applied as means of estimating carbon allocation in Black Locust, Sweetgum and Sycamore. Studies focussed on tree physiology.

BSF. UBC, 1979

Association of BC Foresters

Member of the Board of Examiners.

Canadian Institute of Forestry

Initiated and lead the design and implementation of a workshop on Wildlife Habitat in the central and northern interior. The proceedings were published.

Published an article in the Forestry Chronicle on "Foresters' Ethics".

Silviculture Institute of BC

Completed module V. Participated as an examiner for module VI. Presented information on the use of monitoring and data management in Module III, and made a presentation on the economics of silviculture in an Advanced Silviculture Module.

Alberta Silviculture Institute

Presented a daylong seminar on Forest Estate Planning.

Conferences

Recent presentations were made on the economics of silviculture and forest management to the Southern Interior Silviculture Committee, to a joint meeting of Northern Interior Silviculture Committee and the Northern Interior Vegetation Management Association, and to a conference in Edmonton on the Economics of Fertilization.

Reports

Benowicz, A., R.W.Falls, I.S. Moss. 2003. Forest biotechnology for reducing the impacts of greenhouse gases. An investment alternative. Cellfor Ltd., Vancouver, BC.

Bourgeois, B., T. Earle, I. Moss, J. Flewelling, J. Rochelle, V. LeMay, A. Nussbaum, P.Eligh. 2000. Recommendations for managed stand growth and yield program. A report prepared for Lignum Limited. Lignum Limited, Williams Lake, BC.

D.R. Systems Inc. 2000. J.S. Jones Timber Ltd. valuation of company tenure. J.S. Jones Ltd., Boston Bar, BC.

El-Kassaby, Y.A. and I.Moss. 2001. The economic benefits of planting weevil resistant Sitka spruce through somatic embryogenesis. Southern Forest Tree Improvement Conference, Athens, GA, USA.

Farnden, C., I.S. Moss, T.E. Earle. 2003. Prototype field guide for identifying stand structure classes in the Cariboo Forest Region. Lignum Limited, Williams Lake, BC.

ForesTree Dynamics Ltd., Canadian Forest Products Managed Forest #10 valuation tables. Canadian Forest Products, Coastal Operations, Campbell River, BC.

- 2003. Lignum Limited stand structure key. Second approximation. 17 Stand structure classes. Lignum Limited, Williams Lake, BC.

- 2003. The Lignum Limited RADIAL INCREMENT – NET GROWTH tree and stand growth model. Lignum Limited, Williams Lake, BC.

- 2003. The potential for substituting height-diameter-age curves in the place of traditional top height growth equations. Lignum Limited, Williams Lake, BC.

- 2003. The potential for using estimates of individual tree basal area increment as an

indicator of site productivity. Lignum Limited, Williams Lake, BC.

- 2002. The design and implementation of silviculture and harvesting regimen in forest management. BC Ministry of Forests, Forest Practices Branch, Victoria, BC.

- 2002. CANFOR MF 10 – Sustainable harvest review. Canadian Forest Products Ltd., Campbell River, BC.

- 2002. Potential increases in the volume and value of loblolly pine using somatic embryo-genesis. Temple-Inland Forest Products Corporation, Diboll, Texas, USA. Cellfor Ltd., Brentwood Bay, BC.

- 2001. Lignum/ Ministry of Forests managed stand growth and yield partnership. Management plan. Lignum Limited, Williams Lake, BC.

- 2001. Lignum managed stand growth and yield program. Technical overview. Lignum Limited, Williams Lake, BC.

Hackett, J., I.S. Moss. 2001. Evaluation of Provincial stumpage revenue loss due to the Eagle Fire. BC Department of Attorney General, Vancouver, BC.

Harmeny Systems Ltd., C. Farnden. 2003. Prince George Timber Supply Area growth and yield strategic plan. Prince George Timber Supply Area growth and yield strategy working group. Canadian Forest Products Ltd., Prince George, BC.

-, ForesTree Dynamics Ltd. 2002. Forest asset accounting. A discussion paper. Harmeny Systems Ltd., Richmond, BC. ForesTree Dynamics Ltd., Duncan, BC.

Moss, I.S. 2003. A quantitative method for building systems of classification. ForesTree Dynamics Ltd., Duncan, BC.

-, Y.A. El-Kassaby. 2001. An algorithm for: Modelling even-aged stand growth responses using yield table inputs.

ForesTree Dynamics Ltd.,
Duncan, BC. Cellfor Ltd.,
Brentwood Bay, BC.