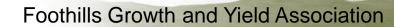
Foothills Growth and Yield Association

Dick Dempster Ph.D., R.P.F. Foothills Model Forest Research Forum June 22, 2005



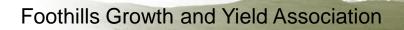




Outline

- Background
- Enhanced fibre production and management of lodgepole pine
- Priorities for growing research into practice









Partners and Members

- Alberta Newsprint Company
- Blue Ridge Lumber
- Canadian Forest Products
- Millar Western Forest Products
- Spray Lake Sawmills
- Sundance Forest Industries
- Sundre Førest Products
- Hinton Wood Products
- Weyerhaeuser Canada
- Alberta Sustainable Resource Development
- Foothills Model Forest
- Forest Resource Improve
- Canadián Forest Servi
- University of Alberta



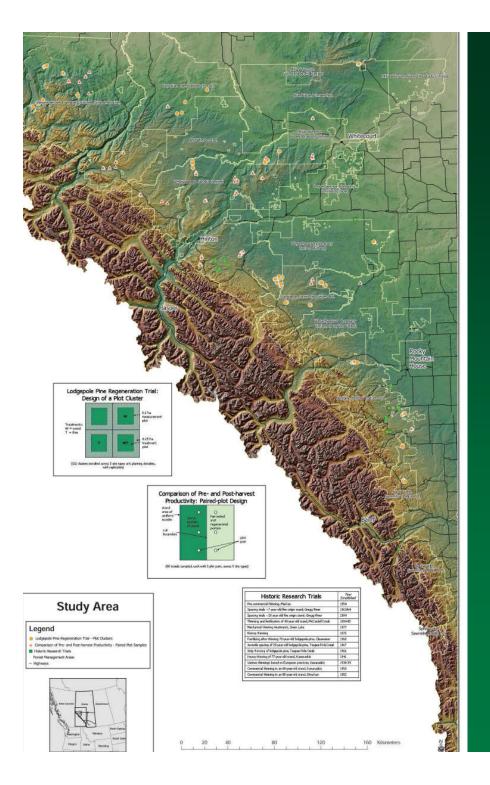
Alberta

Mission and Mandate

Continually improve the assessment of lodgepole pine growth and yield in managed stands by:

- 1. Forecasting and monitoring responses to silvicultural treatments
- 2. Facilitating the scientific development and validation of yield forecasts used by members in managing their tenures
- 3. Promoting knowledge, shared responsibility and cost-effective co-operation





Projects

- Development and management of the Association
- Lodgepole pine regeneration
- Comparison of preharvest and postharvest stand development
- Cooperative management of historic research trials
- Regional yield estimators
- Enhanced management of lodgepole pine



Collaborative Projects

Canadian Forest Service

- Cooperative management of historic research trials
- Alberta Sustainable Resource Development
 - Regional yield estimators

University of Alberta

Enhanced management of lodgepole pine



Enhanced Fibre Production and Management of Lodgepole Pine

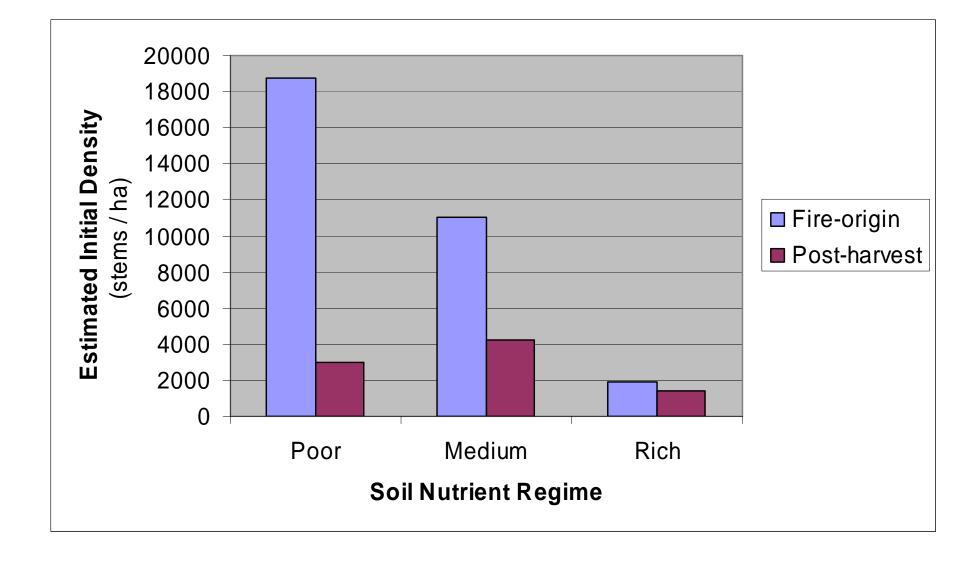
W.R. (Dick) Dempster Foothills Growth and Yield Association

Shongming Huang Alberta Sustainable Resource Development

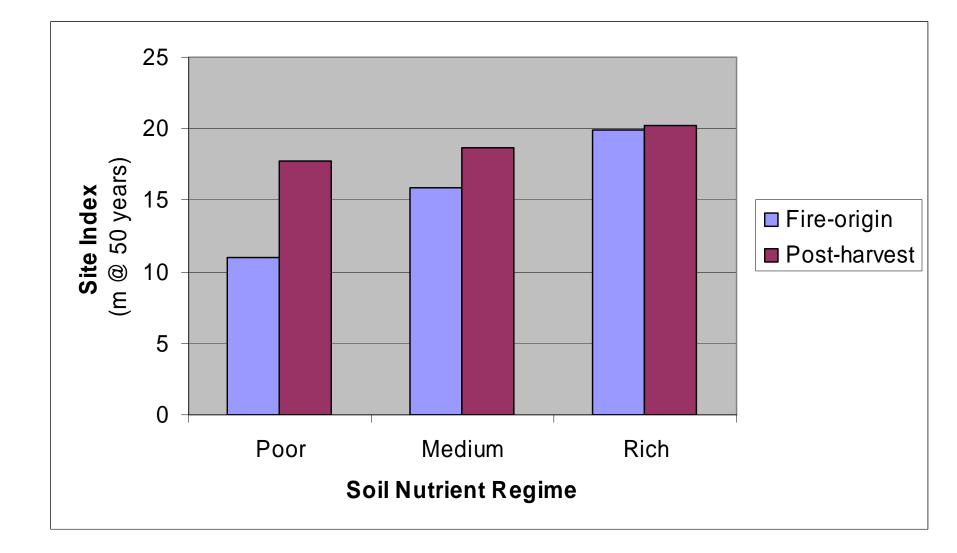
October 4, 2004 Joint CIF/SAF Convention, Edmonton, Alberta



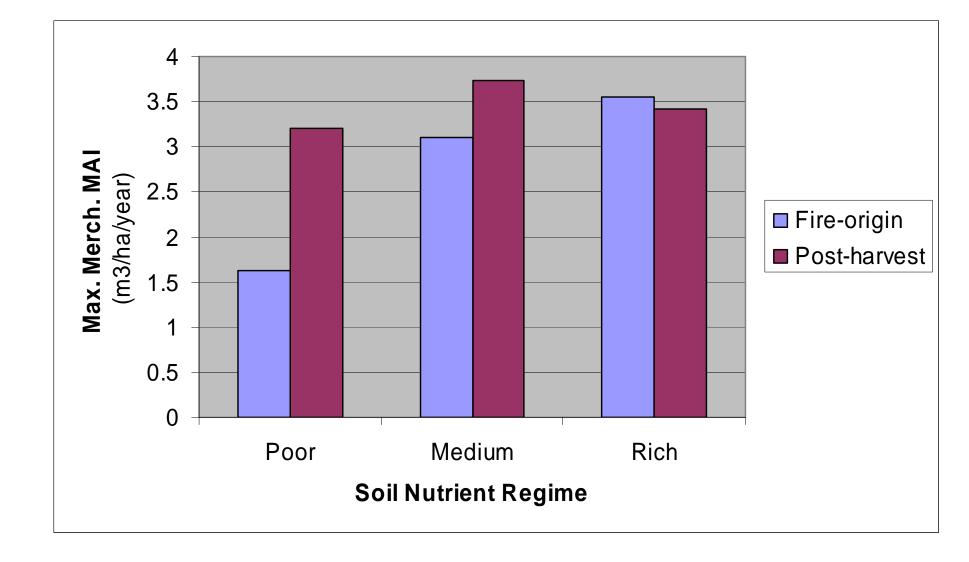
Trends in Regenerated Stands – Density



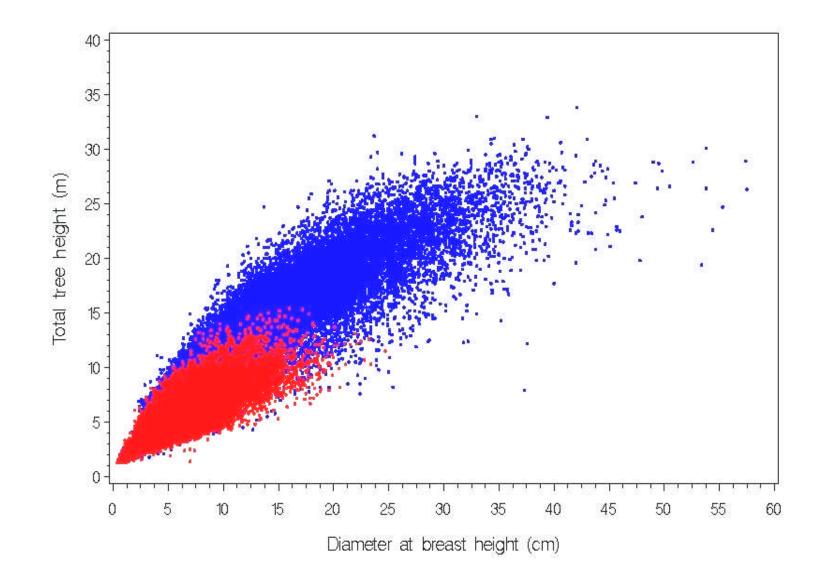
Trends in Regenerated Stands – Site Index



Trends in Regenerated Stands - Volume Production



Trends in Regenerated Stands - Tree Form and Wood Quality







Conclusions

- Post harvest timber productivity can be increased relative to that of fire-origin stands
- Requires improved forecasting, risk management, careful monitoring
- Operational emphasis should be on cost effectively achieving good stocking, to offset risks and maintain options



Decision-Support Priorities

- Management of density and composition in post-harvest regeneration
- Regeneration standards
- Thinning and fertilization





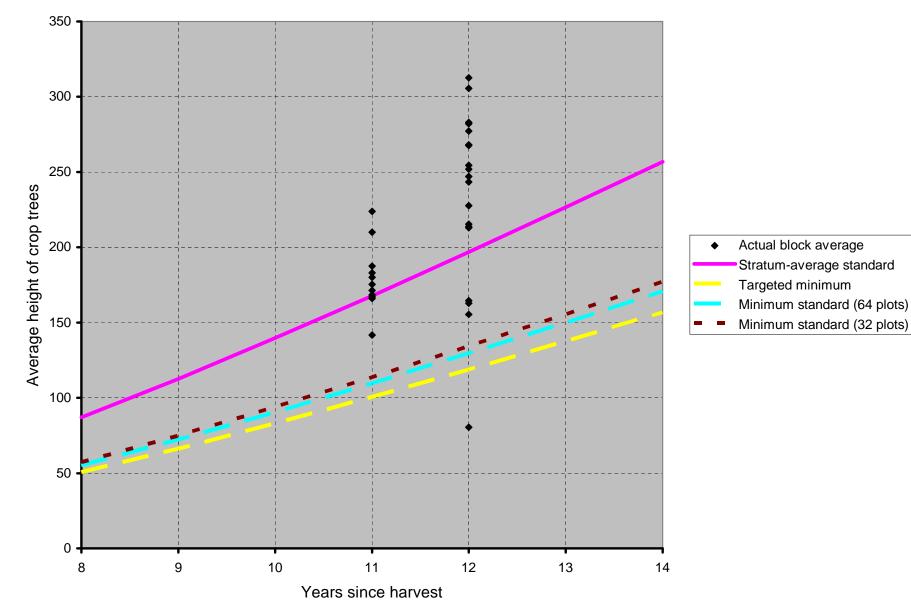












Regeneration Standards







