

**Forest Resource Improvement Association of Alberta
Forest Resource Improvement Program**

Foothills Growth and Yield Association

Annual Report

April 1, 2011 – March 31, 2012

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Introduction

The Foothills Growth and Yield Association (FGYA) Business and 2011-12 Work Plan was finalized in May 2011 to incorporate 2010/11 actual results and directives from the Steering Committee meeting held March 22, 2011 (See Appendix 1, Steering Committee Minutes).

The Plan identified four projects (1, 2, 4, and 7) that were to be active in the year. In addition, two projects were largely complete (3 and 5), but had follow-up within Project 4; and one project (6) was considered dormant, (published reports to be received), until reviewed for further actions at the Annual Meetings.

1. Development and management of the Association (FRIAA¹ Project *Foothills Growth and Yield Association – Third Five-Year Program* # FOOMOD-01-007);
2. Lodgepole pine regeneration;
3. Post-harvest stand development;
4. Cooperative management of historic research trials (FRIAA Project *Measurement and Maintenance of Historic Research Trials*, # FOOMOD-01-02);
5. Regional yield estimators;
6. Enhanced management of lodgepole pine (FRIAA Project # OF-02-16);
7. Regeneration Management in a Mountain Pine Beetle Environment (FRIAA Project # OF-07-PO19)

Income and expenditures (where applicable), achievements and shortfalls for each project are described below for the period from April 1, 2011 to March 31, 2012.

NOTE: FRIAA Agreements FOOMOD -01-03 and OF-02-16 are closed out as of 2011/12. FOOMOD-01-02 continues on a year-by-year basis as determined by need.

1. Project 1 - Development and Management of the Association

1.1. Income and Expenditures

Table 1 shows income and expenditures for Project 1 for the 2011/12 fiscal year. The budgeted amount is that shown in the Business and Work Plan for 2011. The actual amounts are those spent to the year-end on March 31, 2012.

Costs reported do not include the following in-kind contributions by members and collaborating agencies:

- Foothills Research Institute (FRI) GIS, administrative and financial services;
- Database storage by Sundre Forest Products
- Participation on technical, steering and project committees, meeting attendance;
- Participation on project teams, e.g. new Operations Director recruitment;
- Review of minutes, reports, proposals, experimental designs and scientific papers;
- Inspection and protection of experimental sites;
- Contracting and supervision of field crews measuring the Regenerated Lodgepole Pine project plots as well as some Mountain Pine Beetle plots.

¹ Forest Resource Improvement Association of Alberta

Table 1. Annual Income and Expenditures - Project 1

Income / Expenditure	2011-12 Budget	2011-11 Actual
Membership fee (per voting member)	18,000	18,000
Income		
Prior year balance forward	69,760	69,760
FRIAA carry over from FOOMOD-01-03		12,950
Membership Fees FRIAA new 5 year,	90,000	90,000
Membership fees - non-FRIAA	72,000	72,000
Total income	231,760	244,710
Expenditures		
Director	35,000	36,258
Field Coordinator	40,000	28,873
Research and Development Associate	75,000	79,574
GIS, Database and misc. services	30,000	26,935
Office and field supplies	2,500	467
Meetings and tours	9,000	2360
Contingency (4.6%)	9,300	0
Total expenses	200,800	174,467
Ending Balance	30,960	70,243

1.2. Achievements and Shortfalls

Table 2 summarizes achievements and shortfalls in development and management of the Association relative to deliverables planned for the year.

Table 2. Achievements and Shortfalls - Project 1 – Development and Management of the Association

Deliverable	Progress	Reference
Project 1. Development and Management of the Association		
Updated 5-year business plan and annual work plan	Draft annual plan posted on FRI SharePoint site Updated 5-year business plan (preliminary draft for discussion)	http://sharepoint.foothillsri.ca
Project proposals, plans, designs, reports and publications	See under individual projects.	
Meetings, field tours and technical sessions	Pre-season technical committee and contractor meeting held June 22, 2011, Sunpine House, Sundre. Western Mensurationists meeting June 19-21, Banff: presentation <i>"Regeneration modeling in a changing</i>	Minutes of June 22 technical committee / contractor meeting. Copies of presentations and poster available on website.

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	<i>environment</i> ", poster: "Foothills Growth and Yield Association". FRI AGM October 4, 2011, Edmonton: presentation "Reforestation management in a changing environment – meeting the challenge". Annual technical and steering committee meetings held March 27-28 2012.	Minutes of March 27 and 28 th meetings.
Active publicly-accessible web site	Ongoing under FRI website. FGYA page now up to date.	www.foothillsresearchinstitute.ca
Web-based risk management discussion forum(s)	See under Projects 2.	
Structured deployment and review of decision support tools	See under Projects 2 and 7.	
Communications and extension strategy update and implementation	Reports, papers, notes, forums and meetings listed under individual projects.	
Mid-year and annual progress reports	Final annual report for 2010-11 submitted May 2011. Shortfall: Mid-year progress report not done Preliminary annual report for 2011-12. done	Foothills Growth and Yield Association annual report - April 1, 2010 –March 31, 2011, May 5, 2011 FGYA Draft Annual Report.
Financial statements	Monthly available for FI	
Documented recommendations of the technical committee	Minutes were prepared and circulated for 2 technical committee meetings.	Minutes of March 22, 2011 technical committee meeting. Minutes of June 22 technical committee / contractor meeting.
Steering committee	Minutes distributed for March 2011 meeting. Meeting held March 28, 2012.	Minutes of March 22, 2011 steering committee meeting. Minutes of March 28 th meeting

2. Project 2 - Regenerated Lodgepole Pine

2.1. Income and Expenditures

Costs of treatments and field measurements were incurred directly by the member companies, and not reported to the FGYA Director. Inputs by the FGYA Director, Field Coordinator, and Research and Development Associate are accounted for under Project 1 - *Development and Management of the Association* (see Table 1).

2.2. Achievements and Shortfalls

Table 3 summarizes achievements and shortfalls in fieldwork, data management, analysis and reporting for the Lodgepole Pine Regeneration Project.

Table 3. Achievements and Shortfalls – Project 2 - Regenerated Lodgepole Pine Project:

Deliverable	Progress	Reference
Project 2. Regenerated Lodgepole Pine		
Measurement and treatment schedules.	Schedules and field manual additions presented for review and approved at June 22 pre-season meeting. Manual updated.	<i>Regenerated lodgepole pine trial - field manual for measurements and maintenance, version 4.0, July 15, 2011. RLP re-measurement schedule 2011 (Excel file).</i>
Special field checks and remedial measurements	Checks and re-measurements completed for 18 installations with high levels of suspect 2010 data.	
Field measurements – scheduled	Field measurements completed: Full measurements: 27 installations; Status checks: 75 installations.	
Audits (of scheduled measurements) and verification reports	Audit protocol updated. Shortfall: verification and audit reports compilation begun but not completed as of reporting date.	<i>Audit protocol appended to minutes of June 22 technical committee / contractor meeting.</i>
Digital database	Loading database provided to contractors. 2011 measurement data uploaded to database December 1, 2011. Shortfalls: master database loading, clean-up and approval.	<i>MS Access database: RLPMaster_20111201</i>
Field treatments	Thinning commenced on 1 group (WWC-4-1) of 6 installations to develop and test procedures. Completed for 3 installations. Shortfall: 3 installations not completed because of equipment problems.	<i>Data pending – will be added to Access database.</i>
Crop performance report	Detailed analysis and report prepared from latest 2011 data and corrected earlier data. Series of 3 quick-notes also prepared.	<i>Regenerated lodgepole pine trial 10-year crop performance report, February 2012. FGYA Quicknotes # 13, 14 and 15.</i>
Regeneration model deployment plan	Shortfall: deployment plan not revised.	
Regeneration model enhancement	Shortfall: second enhancement not completed. Corrections to 2010 data were not finalized until receipt of 2011 data in December 2011. No user feedback received on first enhancement.	
Regenerated lodgepole pine project (RLPP) discussion	Original RLPP discussion moved to FRI SharePoint site. New discussion (“silvicultural risk management”)	http://sharepoint.foothillsri.ca/FGYA/

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group	initiated. No participation indicated and no feedback received.	
Assessment of climate effects	Analysis updated from 2006 to 2009 (latest year for which climate data available). Scientific paper prepared for peer review. Shortfall: new data and results not incorporated into decision support tool	<i>Draft paper: Mortality of planted and naturally regenerating lodgepole pine increases with temperature in Alberta, Canada.</i>

Table 4 summarizes achievements and shortfalls in the field program of the Lodgepole Pine Regeneration Project relative to deliverables planned for the year.

Table 4. Achievements and Shortfalls – Project 2 – Field Program

Regenerated Lodgepole Pine Installations Measured and Audited						
FMA Code	Full Measure Scheduled	Full Measure Done	Status Check Scheduled	Status Check Done	Total Done	Formal Audit
ANC			6	6	6	2
BRL			6	6	6	0
CFP			6	6	6	5
MWFP			6	6	6	2
SDA			6	6	6	5
SLS			6	6	6	2
SPI	13	13	1	1	14	4
WEYDV			6	6	6	2
WEYED			6	6	6	2
WEYGP	2	2	16	16	18	7
WWC	12	12	10	10	22	5
TOTAL	27	27	75	75	102	36

3. Project 3 – Comparison of Pre- and Post-harvest Stand Development

In 2009, an analysis of the Gregg historic research trials was planned, examining growth and yield of regenerated versus fire origin Lodgepole pine stands. This did not transpire because the new GYPSY model was not yet available, and the consultant approached to do the analysis using TASS was not able to take on the contract. Some work began in 2011, to verify previous results and quantify the effects of density on yield. See Project 4 – analysis and publication of results.

Deliverable	Progress	Reference
<i>Project 3. Comparison of Pre-harvest and Post-harvest Stand Development</i>		
Verification of previous results and quantification of effects of density on yield	See Project 4, analysis and publication of results.	

4. Project 4 - Cooperative Management of Historic Research Trials

4.1. Income and Expenditures

Table 5 shows income and expenditures for *Measurement and Maintenance of Historic Research Trials*.

Table 5. Annual Income and Expenditures – Project 4

Income / Expenditures	2011-12 Budget	2011-12 Actual
Income		
Balance Forward	17,428	17,428
Member Contributions	8,634	8,634
FRIAA	11,366	0
CdnWoodFibreCentre Non- Repayable Contribution Agreement	0	70,000
Total income	37,428	96,062
Expenditures		
Data Analysis and Modeling	0	49,014
Supervision, Data Collection, and QC & Quality Control	30,000	15,601
Modeling oversight and Technical Direction		5,087
Administrative Charges		298
Total Expenditure	30,000	70,000
Ending Balance	7,428	26,062

4.2. Achievements and Shortfalls

The Project involves three main tasks:

1. Maintenance and protection of the field installations including signage;
2. Analysis of historic data and synthesis of results;
3. Ongoing re-measurement of trials.

Table 6 summarizes achievements and shortfalls in the Historic Research Trials Project relative to deliverables planned for the year. Some of these deliverables are by agencies other than the FGYA, but are described under the Letter of Agreement between the FGYA, CFS and Alberta Sustainable Resource Development.

This is a cooperative effort shared between the FGYA, the Canadian Fibre Centre, Canadian Forest Service (CFS) and Alberta Sustainable Resource Development (ASRD). The FGYA's main role is re-measurement, maintenance and analysis of the trials.

Table 6. Achievements and Deliverables Project 4. Historical Research Trials

Deliverable	Progress	Reference
Project 4. Historic Research Trials		
Measurements	Gregg spacing trial (1963) re-measured (stand age 55 years). Supplementary measurements not required because tree map data acquired from CFS and processed by SRD.	<i>1963 Gregg Burn historic (spacing) research trial</i> <i>2011 re-measurement summary report.</i>
Maintenance and protection of trials	Buffers, plot corners and tree tags refreshed for Gregg (1963) spacing trial. Shortfall: New signage prepared for Gregg, Teepee Pole, Swan Lake, MacKay, McCardell, Strachan and Clearwater trials, but installation not completed.	(As above.)
Analysis and publication of results (CFS)	3 papers utilizing trial data published or in press. 4 additional papers in preparation.	<i>Comparing canopy metrics derived from terrestrial laser scanning across thinned Lodgepole Pine dominated forest stands.. Forestry (in press)</i> <i>Prediction of wood fiber attributes from LiDAR-derived forest canopy indicators. 2012. Forest Science, accepted. Prediction of diameter using height and crown attributes: a case study. 2012. West. J. Appl. For. 27: 30-35.</i>
Analysis and publication of results (FGYA, GYPSY-FRIAA Project and SRD)	Testing of non-spatial GYPSY 2010 model for application to managed lodgepole pine against Gregg trial data completed. Additional tests of spatial model conducted by SRD. Shortfalls: <ul style="list-style-type: none"> No other models were selected or tested (planned in event validation was unsuccessful); Effects of density on rotation yield not projected or reported. 	<i>Testing GYPSY with data from the Gregg Spacing Trial</i> report prepared for the GYPSY-FRIAA Project (HIWOOD-01-129) and the Foothills Growth and Yield Association, April 15, 2011. <i>GYPSY test using the Gregg Burn Spacing Trial data, August 12, 2011.</i>
	At CFS request, FGYA reviewed CWFC prediction performance evaluation of wood quality models based on Hinton area data.	<i>Review of prediction performance evaluation of IWQTA models of lodgepole pine fibre attributes using CFS research installations data, 21 December 2011.</i>
Verbenone treatment	No MPB reported.	

5. Project 5 - Regional Yield Estimators

5.1. Income and Expenditures

Some expense was incurred in 2011-12 through use of the Research Associate's time for analysis. Expense is within Project 1 costs and not repeated here.

An Interim Report on the Development of Yield Estimators for Pure Lodgepole Pine Stands in Alberta prepared by Yuqing Yang and Shongming Huang of the Forest Management Branch, ASRD, and edited and amended with input from the FGYA Director has been posted on the FGYA website as a technical information report.

Deliverable	Progress	Reference
Project 5. Regional Yield Estimators		
GYPSY validation against Gregg Trial data	See Project 4, analysis and publication of results.	

6. Project 6 - Enhanced Management of Lodgepole Pine

6.1. Income and Expenditures

Table 7 shows budgeted and actual income and expenditures for Project 6 during the 2009/10 fiscal year.

Table 7. Annual Income and Expenditures – Project 6

Income / Expenditures	2011-12 Budget	2011-12 Actual
Income		
Prior year balance forward	(5,010)	(5,010)
FRIAA Open Funds (OF-02-16)	5,010	5,010
Total income	0	
Expenditures		
Sub-project 1: lodgepole pine nutrition	0	0
Sub-project 2: pine-aspen density management	0	0
Analysis	0	0
Total expenditures	0	0
Balance	0	0

Final reports have been received from UofA scientists and are being reviewed by the Research and Development Associate who may conduct any necessary supplemental analysis and prepare the final report in 2012. This will be subject to review and decision by the Technical Committee.

The FRIAA Project has been closed with submission of a financial statement and two reports.

6.2. Achievements and Shortfalls

Achievements, shortfalls and problems encountered with this project are summarized in Table 8.

Table 8. Achievements and Shortfalls - Project 6 – Enhanced Management of Lodgepole Pine

Deliverable	Progress	Reference
Project 6. Enhanced Management of Lodgepole Pine		
Sub-project 1: Lodgepole pine nutrition:	Shortfall: no analysis of nutrient uptake in fire-origin stands.	
Sub-project 2: pine-aspen density management	(No further activity scheduled.)	Report on EMLP2 Study (FRIAA Project OF-02-16): <i>Effects of aspen competition on growth of lodgepole pine</i> , November 23, 2010.
Papers and reports	1 paper published 2011. Shortfalls: <ul style="list-style-type: none"> • <i>Growth response to fertilization and thinning in lodgepole pine</i>. Not accepted for publication. • Final project information (synthesis) report not prepared. 	<i>Fertilization of lodgepole pine trees increased growth but reduced root carbohydrate concentration</i> . Forest Ecology and Management 260 (2010) 1914–1920. <i>Snow damage in lodgepole pine stands brought into thinning and fertilization regimes</i> . Forest Ecology and Management 261 (2011) 2096–2104

7. Project 7 - Regeneration Management in a Mountain Pine Beetle Environment

This is a project that began late in 2007/08 with work continuing in 2011 to provide tools and guidance for members and others faced with the challenge of managing stands and landscapes in a post-beetle environment.

Funding has been provided to the program from the Foothills Research Institute’s Mountain Pine Beetle Ecology Program, as well as FRIAA Open Funds (Project #OF-07-P019), and the project is being managed by the Program Lead of the MPBEP of the Foothills Research Institute, with technical direction from the FGYA’s Research and Development Associate.

A successful proposal was submitted to the FRIAA Forest Health and Fire Hazard Reduction Program to expand data collection and analysis in a second phase of this project.

7.1 Income and Expenditures Project 7

The FGYA Research and Development Associate provides technical direction and oversight of this project, while project management and budget control and reporting is under the direction of the Program Lead of the MPBEP at the Foothills Research Institute.

7.2 Achievements and Shortfalls

Achievements, shortfalls against proposed deliverables are summarized in Table 9.

Table 9. Achievements and Shortfalls Project 7 – Regeneration Management in a MPB Environment

Deliverable	Progress	Reference
Project 7. Forest Management in an MPB Environment		
Update monitoring schedule	2011 schedule updated based on SRD overwintering data and map. Preliminary schedule for 2012 developed.	Revised MPB schedule 2011 (MS Excel file), 22 July 2011. Preliminary monitoring schedule for 2012, 7 Dec. 2011.
Field measurements (preliminary schedule)	Basic monitoring completed for 89 plots. Detailed measurements completed for 42 plots.	See below.
Data compilation	Compilation late (delivered 23 December 2011). Shortfall: database corrections pending.	MS Access database: MPB_Database_ver7_20111221.
Enhanced decision support tool	Shortfall: work not started until February 2011, precluding scheduled March 31 completion.	
Reports	Interim note prepared on project and monitoring results, August 2011. Rates of infestation and tree mortality based on monitoring results to date, reported February 2012. Shortfalls: <ul style="list-style-type: none"> • Monitoring compilation report; • DST enhancement report. 	MPBEP Quick-Note #4, August 2011: <i>Regeneration management in an MPB environment - project update.</i> MPBEP Quick-Note #7, February 2012: <i>Regeneration management in an MPB environment - rates of infestation and tree mortality.</i>

8. Extension and Communication

Deliverables for extension and communications are listed against the projects to which they relate. They appear in the tables of Accomplishments and Shortfalls for each project.

The cost for activities conducted under Extension and Communications are funded under Project 1 and not reported separately here.

Appendix 1. FGYA Steering Committee Minutes, March 22, 2011

Foothills Growth and Yield Association

Annual General Meeting
Steering Committee
Tuesday, March 22, 2011 2:15 pm– 4:45 pm
Hinton Training Centre, Room 141

Attendees

Voting Company Reps

Greg Branton – ANC FGYA Chair
Tim Burns – Blue Ridge Lumber
Dwight Weeks – Canfor
Pat Golec – Sundance Forest Industries
Richard Briand – Hinton Wood Products
Greg Behuniak – Weyerhaeuser Canada

Government/Other

Bob Udell - FGYA Director
Dick Dempster – FGYA R&D Associate
Daryl Price – SRD
Dave Morgan - SRD
Debby Raabel – Secretary

Other Company Reps

Melonie Zaichkowsky – Canfor
Scott Merrifield – Sundance Forest Industries
Glenn Buckmaster – Hinton Wood Products
Bruce McMillan - Weyerhaeuser Pembina

Regrets: Ed Kulscar (Spray Lakes), Bob Held (Sundre Forest Products), Tim McCready (Millar Western Forest Products), Tom Archibald (FRI), Darren Tapp (SRD), Dan Rollert (FRI)

Greg Branton called the meeting to order at 2:15 pm. Bob Udell reported that although 7 members (75%) are required for a quorum, he had received written support from Ed Kulscar for the draft Annual Reports, Business Plan, 10 year Report and 2010 meeting minutes. Also, Bob Held was ill and unable to attend but in a telephone conversation on March 21 he signaled his support for these documents also.

1. Review Minutes and Action Items of March 25, 2010

Bob Udell provided a list of Action Items from last year's meeting, all complete. 3 proposals have been received for new Operations Director/Field Coordinator which will be reviewed at this meeting.

Greg Behuniak motioned to accept minutes of March 25, 2010 Steering Committee meeting. Dwight Weeks seconded. Carried.

2. Five Year Business Plan/2011 Work Plan Review/Approval

Richard Briand motioned to accept 5 Year Business Plan. Pat Golec seconded. Carried.

3. Review and approval draft Annual Report

Dwight Weeks motioned to accept the draft Annual Report. Tim Burns seconded. Carried

4. Review and approval 10 year report

Bob referred the group to the Executive Summary. He commented that this report is presented in non-technical language. David Holehouse edited and helped put the report into non-technical language. Greg Behuniak said the group can be proud of work done over last 10 years,

Bob noted that RLP plot measures do not show up in financials but he had added them in to provide a more meaningful view of member contributions to the program. Richard Briand questioned why Financial Report (page 23) is only 5 years, why not 10 years?

Action: Bob Udell will update the 10 year report to include the financials for 10 years instead of 5.

Pat Golec motioned to accept the FGYA 10 Year Report. Richard Briand seconded. Carried.

Discussion

Greg Branton updated the members on his company's view and proposed application of the first ten years' research to the ANC landbase. The company faces a future decline in AAC as a result of extraordinary MPB response measures, and is looking at applying research to mitigating the decline. They also see some potential cost savings as well as silviculture risk reduction through consideration of such things as encouragement of ingress and adaptation to climate change. Greg has more ideas under development, and said ANC is open to sharing ideas.

Dick said that the climate in the upper foothills portion of the ANC FM area is forecast to be more akin to that of the lower foothills within less than half a rotation. Land managers need to consider appropriate adaptation measures. For instance genetic stock originating from stands that regenerated after fires 100 years ago may not be adapted to our climate today, and in that light Alberta may wish to reconsider existing seed zone transfer guidelines. Research suggests that Alberta should take a serious look at these and other adaptations to climate change impacts.

5. Recruitment of new Operations Director/Field Coordinator – update

Three proposals were received for Ops Director/ Field Coordinator and a comparison of the proposals was circulated. In the view of the Committee, none of the proposals met the needs of the Association appropriately. However, there is some urgency to move forward with filling the Field Coordinator position.

Richard, Bob and Greg reviewed the proposals and recommended the committee offer Field Coordinator position to Bruce Neilson.

Action Item: Greg Branton to talk to Bruce Nielsen about taking the Field Coordinator contract for 2011.

Operations Director:

There may be not enough work to generate interest, and in the discussion that ensued the members suggested seeking some synergies to make the position more attractive. Rather than using consulting firms with potentials conflicts of interest as well as overheads, a larger package might attract a qualified individual to the opportunity.

The FGYA is clearly mandated to stick to lodgepole pine and this may be limiting opportunities. Dick noted that the time has come to look at a mixture of species and to bring in a wider range of silviculture, forest health, and genetics expertise. One person with links to other growth and yield associations in an operations management role could facilitate some of these opportunities. The group needs a manager for facilitation, collaboration, administrative support and dealing with inefficiencies. If greater integration is warranted, it will happen and the FGYA doesn't need to lose anything.

Bob Udell agreed to continue to provide support to the FGYA on an interim basis to allow time for this work.

Action Item: Gregg Branton, Richard Briand and Bob Udell to explore some options with other like minded associations for synergies in combining ops director roles into a single position.

6. Staff and Assignments 2011/12

- i. **Director:** Greg Behuniak motioned to appoint Bob Udell Interim Director for up coming year as his schedule allows. Tim seconded. All voting members present in favor. Carried.
- ii. **Field Coordinator :** Richard Briand moved that Bruce Neilson of Woodlands Forest Management be approached to provide Field Coordinator services. Seconded by Greg Behuniak. Every voting member present in favor. Carried.
- iii. **Research and Development Associate:** Pat Golec motioned to appoint Dick Dempster as Research and Development Associate for the upcoming year. Richard Briand seconded. All voting members present in favor. Carried.
- iv. **Database Management:** Bob received three expressions of interest
 - Forestry Corp
 - Geographic Dynamics Corporation

- Teco (current contractor)
All have the staff and capability resources to do job.

Greg Behuniak asked whether any other applications had been received and none had at that time.

POST-MEETING NOTE: A proposal was subsequently received from WESBOGY for the database management project, this will be added to the list for consideration.

Action Item: Outline of tasks to be done in 2011 for the RLP database will be sent to acceptable proponents with a request for detailed bids. Bob Udell

Action Item: Bob Udell to check with Bob Held, Ed Kulscar and Tim McCready to confirm their approval of the appointments.

7. Authorizations for Admin and Funding

Members present signed their authorizations for 2011 FGYA membership fees and Historic Research Trial measurements. Bob Udell has the Spray Lakes authorization and will seek the others from Sundre Forest Products and Millar Western.

Tim Burns motioned to adjourn meeting at 4:45 p.m. Richard Briand seconded. Carried

Appendix 2: Detailed Expenses 2010-11

Foothills Research Institute				4:23 PM			
Profit & Loss by Class				04/10/2012			
April 2011 through March 2012				Accrual Basis			
			235 Growth & Yield				
			(Con	Total Cont	TOTAL		
Ordinary Income/Expense							
Income							
	Prior Year Balance Forward	#	69,760.25	69,760.25			
	6090 - Canadian Forest Products - Corp	#	18,000.00	18,000.00			
	6170 - FRIAA Funding - Corp	#	102,950.00	102,950.00			
	6270 - Millar Western - Corp	#	18,000.00	18,000.00			
	6420 - Weyerhaeuser Canada - Corp	#	18,000.00	18,000.00			
	Total Income	#	226,710.25	226,710.25			
Expense							
	ADVERTISING	#	1,297.80	1,297.80			
	COMPUTER EXPENSE	#	1,550.12	1,550.12			
	CONSULTING	#	7,738.50	7,738.50			
	FREIGHT	#	47.07	47.07			
	INSURANCE	#	23.16	23.16			
	MEETING EXPENSE	#	2,360.40	2,360.40			
	OFFICE& ADMINISTRATION	#	467.09	467.09			
	PRINTING AND BINDING	#	445.45	445.45			
	PUBLIC RELATIONS	#	180.47	180.47			
	SUB-CONTRACTS	#	151,094.89	151,094.89			
	TELEPHONE AND UTILITIES	#	342.06	342.06			
	TRAVEL AND TRAINING	#	7,346.94	7,346.94			
	8550 - Recovered Expenses	#	(53.00)	(53.00)			
	Total Expense	#	172,840.95	172,840.95	1,626.67	174,467.62	total costs

