

Forests For Tomorrow 2015/16 AOP and Five Year Plan

Provincial Meeting
September 17,18 2014
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VISION

• The impacts of catastrophic disturbances and constrained timber supplies are: (a) identified, prioritized and communicated to government to support investment decisions; and (b) consistent with those decisions, the impacts are effectively and efficiently mitigated by exemplary stand tending and reforestation activities that enhance forest values and support forest resilience.

MISSION

 FFT optimally utilizes available funding to reforest and manage productive forest land through the use of best science, and in consideration of all forest values and changing factors.



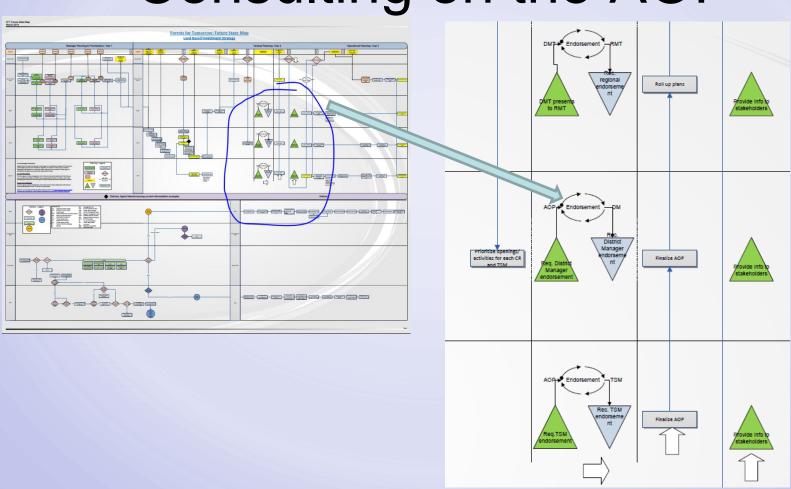
Current Reforestation	Timber Supply Mitigation
Backlog NSR surveys/planning	Surveys
MPB/Wildfire surveys/planning	Conifer release
Defaulted obligation NSR surveys/planning	Spacing
Site prep	Fertilization
Brushing	Pruning
Repression Density spacing	
Planting	
Sowing	
Overstory Removal	

Eligible Investment Category	Sub-Category	Focus	Implementation Priorities
Forests for Tomorrow Program	Current reforestation	Priority given to those areas throughout the province where the catastrophic disturbance has caused drops in midand long-term timber supply. Eliminate backlog NSR.	 •Maintain adequate growth rates on existing government-funded land based investments through vegetation management. •Annual reforestation level of 20 million seedlings (at least) with a variety of species, on areas where the mid- and long-term timber supply has been impacted by catastrophic disturbance. •Meet government obligations under Forest and Range Practices Act section 108. •Eliminate the provincial backlog (pre-1987) Not Satisfactorily Restocked (NSR) by 2015.

Eligible Investment Category	Sub-Category	Focus	Implementation Priorities
Forests for Tomorrow Program	Timber Supply Mitigation	Mitigate impacts on timber supply caused by catastrophic disturbance or constrained timber	 MPB impacted areas Fertilization, spacing, and conifer release in the central Interior will focus on mitigating the reduction in the mid-term timber supply by targeting these activities within the "economic fibre-baskets" associated with the priority areas: Spacing treatments should be focused on managing density of repressed, or potentially repressed, stands with low forest health risks. Stands and spacing densities should be targeted for future fertilization treatments and value improvement. Coast, NW, SE Fertilization, spacing, and conifer release on coastal, southeast, and northwest forest management units with constrained timber supply and where highest return-on-investment will be achieved to improve timber availability and value. Focus on establishing stands suitable for future fertilization and value improvement.



Consulting on the AOP





FFT Investment principles

- •Funds will be allocated to activities based on their potential contribution to the goals, strategic objectives, and priorities outlined in the Land Based Investment Strategy.
 - A. Allocation of investments will be based on consideration of the following factors (in order):
 - i. magnitude of the impact in addressing the goals, strategic objectives, and priorities resulting from the activity; ii. activities that address timber supply;
 - a) Maintain adequate growth rates on existing government funded land based investments [2].
 - b)<u>address critical mid-term time periods</u> when second growth timber must be available in sufficient quantities and size to meet supply demands,
 - c)reforest catastrophic disturbance where mid and long-term timber supply has been impacted iii.activities that are dependent on a specific biological window where delays could result in lost opportunities; iv.the ability to leverage funding from other sources;
 - v.additional benefits that can be achieved from the activity
 - B. Each activity must consider how climate change has affected, or will affect, resource values and their associated goals, objectives and targets.

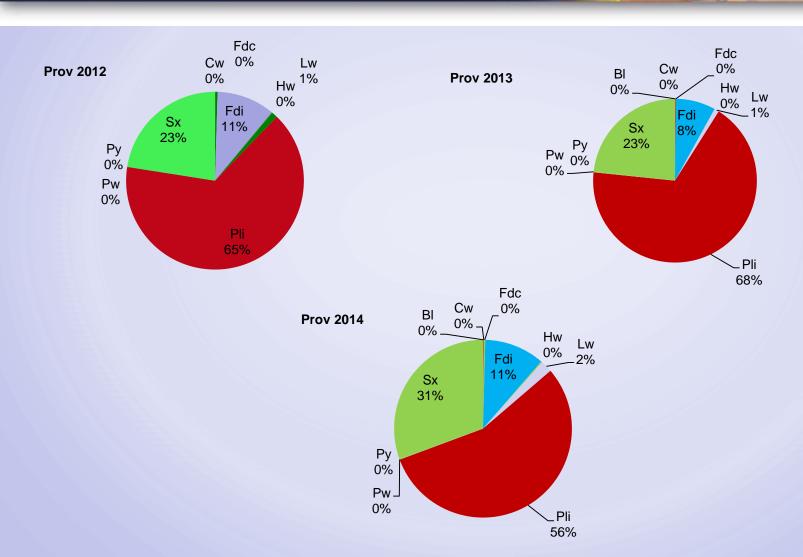


 If FFT funding requests exceed the available budget, then all attempts will be made to fund projects in priority 1 units followed by those in priority 2 and then priority 3 units. Some FFT funding, however, will also be provided to reforest burnt, other NSR non-obligation areas, and constrained timber in other parts of the province.











		2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
	Planting (000 ha)	12	12.7	9.8	12.1	16.2	17.8	12.9
	seedlings (M) RESULTS	13.80	17.47	14.02	14.71			
	Seedlings (M)	13.8	17.5	13.9	14.5	22.7	24.9	18
	Surveys (000 ha) excluding File Review but inc. Air (FG)	80	40	40	150	150	150	150
	Surveys (000 ha) excluding File Review but inc. Air (FG) RESULTS	273.93	197.95	209.37	163.73			
	Funding	\$42.40	\$42.23	\$34.50	\$32.55	\$23.50	\$29.70	\$41.00
	(M)							
FRPA s 108	Seedlings RESULTS	1.10	1.17	6.40	11.69	1	1	1
	Approved pay-out (M)	2.39	9.88	5.79	10.54088			11



From the service plan

Performance Measure 7: Timber volume gain from silviculture investments.

Performance Measure	2012/13	2013/14	2014/15	2015/16
	Forecast	Target ²	Target	Target
Timber volume gain (millions of cubic metres) expected in 65 years from silviculture treatments completed ¹	7.7	8.3	8.3	8.3

Discussion

This measure compliments attainment of the provincial sustainable harvest level targets: 57 million cubic metres per year during the mid-term, and 65 million cubic metres per year for the long-term.



Government Commitments

Current reforestation

- Plant at least 20 million seedlings per year
- Eliminate the backlog NSR by 2015
- Increase funding by \$10 million starting in 2015/16
 Timber Supply Mitigation
- Continue developing Type 4 Silviculture strategies
- Ongoing focus on fertilization
- FFT support for projects in Community Forests and Woodlots



Fire Centres/Zones	Total THLB_AREA	TOTAL HECTARES
100 Mile House Fire Zone	0	18
Arrow Fire Zone	76	214
Boundary Fire Zone	2	4
Bulkley Fire Zone	0	17
Cariboo Chilcotin Fire Zone	963	1731
Cassiar Fire Zone	0	51
Clearwater Fire Zone	40	101
Columbia Fire Zone	53	98
Cranbrook Fire Zone	122	909
Dawson Creek Fire Zone	0	56010
Fort Nelson Fire Zone	2	1802
Fort St. John Fire Zone	2832	13177
Fraser Fire Zone	166	969
Invermere Fire Zone	1887	5287
Kamloops Fire Zone	16	78
Kootenay Lake Fire Zone	20	215
Lillooet Fire Zone	379	1267
Mackenzie Fire Zone	<mark>63173</mark>	<mark>111614</mark>
Merritt Fire Zone	659	794
Mid Island Fire Zone	0	1
Nadina Fire Zone	<mark>24091</mark>	<mark>93559</mark>
North Island Mid Coast Fire Zone	0	190
Pemberton Fire Zone	1	398
Penticton Fire Zone	181	1021
Prince George Fire Zone	72	100
Quesnel Fire Zone	<mark>10495</mark>	<mark>14908</mark>
Robson Valley Fire Zone	0	63
Salmon Arm Fire Zone	1	2
Skeena Fire Zone	0	36
South Island Fire Zone	0	3
Sunshine Coast Fire Zone	1	1
VanJam Fire Zone	<mark>13590</mark>	<mark>53665</mark>
Vernon Fire Zone	1	116
Grand Total	<mark>118824</mark>	<mark>358419</mark>



Sum of HECTARES	Cutblock Status				
Row Labels	FG		NSR	RG	TOTAL
Cariboo Chilcotin Fire Zone		7			7
Clearwater Fire Zone			2	6	7
Columbia Fire Zone				8	8
Cranbrook Fire Zone				31	31
Dawson Creek Fire Zone		<mark>3530</mark>	<mark>41</mark>	<mark>169</mark>	<mark>3740</mark>
Fort St. John Fire Zone		13	0	48	61
<mark>Invermere Fire Zone</mark>		<mark>33</mark>	<mark>O</mark>	<mark>518</mark>	<mark>551</mark>
Kamloops Fire Zone				0	0
Kootenay Lake Fire Zone				0	0
Lillooet Fire Zone		17		34	51
<mark>Mackenzie Fire Zone</mark>		<mark>337</mark>	<mark>10</mark>	<mark>918</mark>	<mark>1265</mark>
Merritt Fire Zone			0	232	232
Mid Island Fire Zone				1	1
<mark>Nadina Fire Zone</mark>		<mark>685</mark>		<mark>310</mark>	<mark>995</mark>
North Island Mid Coast Fire Zone		37		56	92
Pemberton Fire Zone				33	33
Penticton Fire Zone		1		12	13
Prince George Fire Zone				17	17
Quesnel Fire Zone			<mark>3</mark>	<mark>3185</mark>	<mark>3188</mark>
Skeena Fire Zone				30	30
VanJam Fire Zone		<mark>327</mark>	0	<mark>2657</mark>	<mark>2984</mark>
TOTAL		4986	56	8266	13309



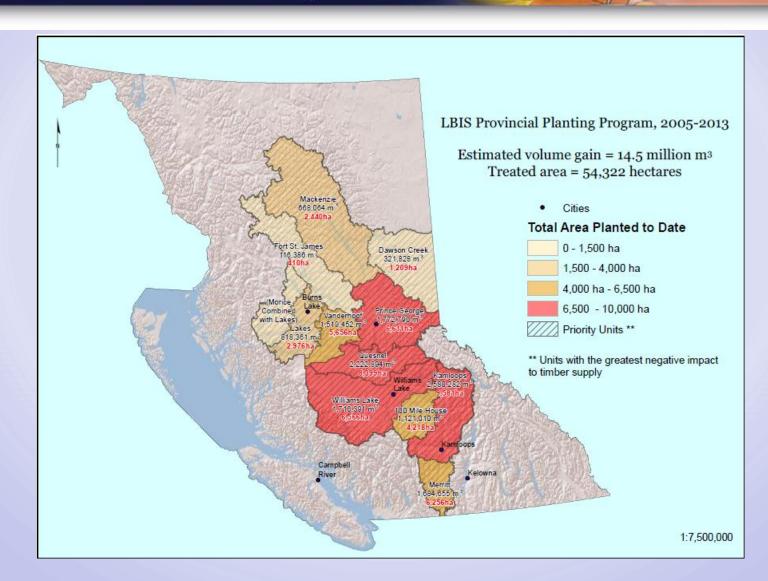
S.108

- 2003 fire season was in excess of \$10M and the two big fire years of 2009 and 2010 are estimated to have cost FRPA s108 claims totaling \$21M.
- All other years have come in at under \$1M. Last year there were some blocks in the Peace but it was under 100K.

Finding treatable areas

- FFT potential opportunity maps (Wildfire)
 - Areas that might be not sufficiently stocked were determined using the vegetation resource inventory, provincial overview surveys for forest health, perimeters of wildfires since 1999, current harvested stand updates, and the mapped boundaries of the timber harvesting land base.
- Digital Camera and other high resolution imagery availability.
 - Available from FAIB and GeoBC





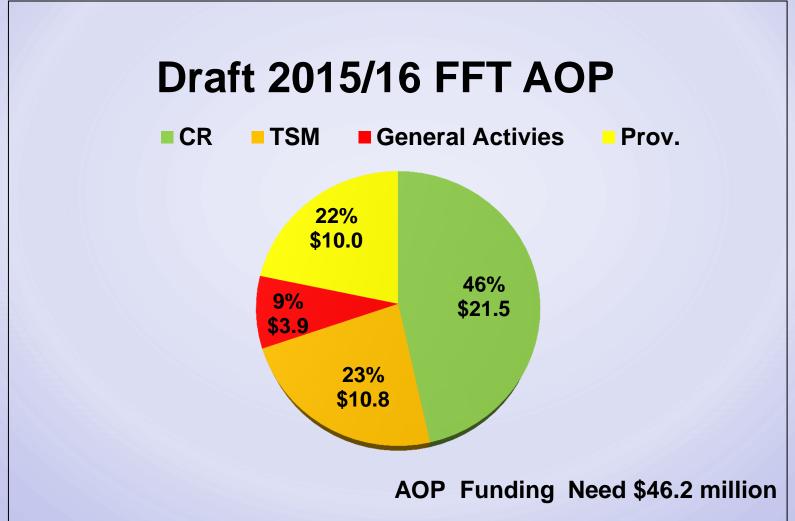


Priority ranking for current reforestation treatment as 2013

(indication of TSA name includes all management unit types – tree farm licences, Community Forests, and woodlots - encompassed by that broader area in priority ranking)

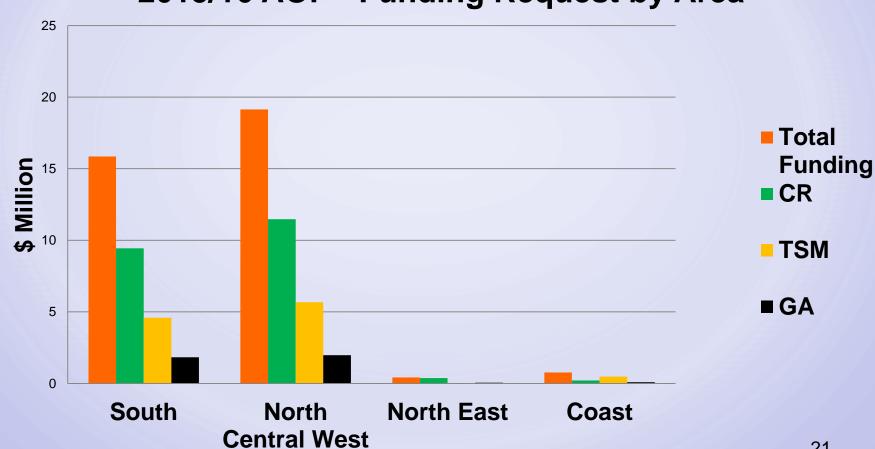
ranking	TSA/District Name	Pre-uplift AAC (m3)	AAC (as ofFeb10,2012)	Mid-term MoFR	LRSY	future Volume loss without treatment (m3/yr)	Future % loss in relation to LRSY without treatment
1	Lakes	1,500,000	2,000,000	500,000	1,200,000	310,975	26%
1	Quesnel	3,248,000	4,000,000	1,110,000	2,200,000	486,567	22%
1	Williams Lake	3,807,000	5,770,000	1,840,000	1,900,000	406,165	21%
2	100 Mile House	1,334,000	2,000,000	855,000	1,300,000	203,158	16%
2	Vanderhoof (District)					589,400	
2	Ft. St. James (District)	9,313,000	12,500,000	6,400,000	9,500,000	442,176	13%
2	Prince George (District)					248,276	
2	Morice		2,165,000	1,200,000	1,600,000	208,726	13%
3	Mackenzie		3,050,000	2,880,000	3,300,000	285,957	9%
3	Kamloops	2,682,000	4,000,000	1,830,000	2,300,000	181,447	8%
3	Dawson Creek		1,860,000	1,180,000	1,800,000	124,359	7%
3	Merritt	1,508,000	2,400,000	1,600,000	1,700,000	94,861	6%





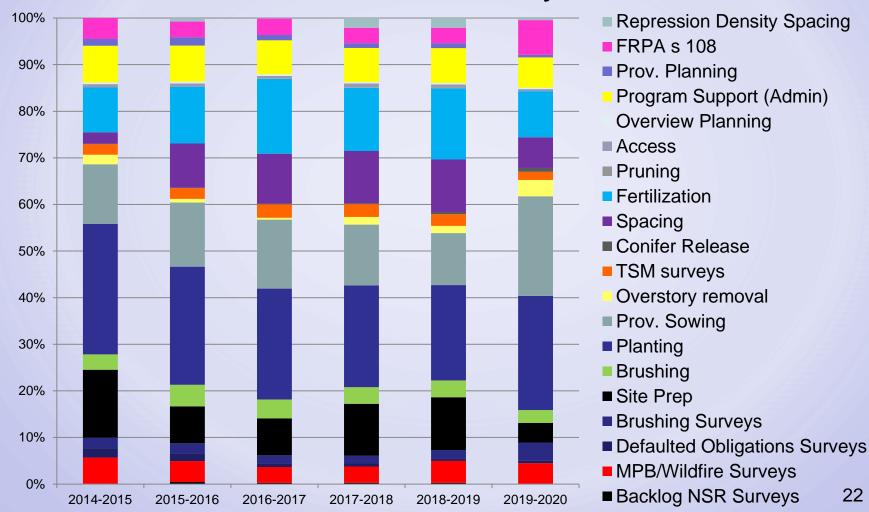


2015/16 AOP - Funding Request by Area





Provincial Summary



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Select Activities

Activity		2014-2015	2015-2016	2016-2017
Site Prep.	На	15,570	7,210	6,620
Brushing	На	1,737	3,151	2,712
Repression				
Density Spacing	На	0	224	35
Planting	Trees	25,219,382	23,641,145	20,482,209
Sowing	Trees	20,337,800	20,912,600	21,088,520
Overstory				
removal	На	688	350	715
Spacing	На	660	2,903	3,177
Fertilization	На	15,700	27,008	32,954

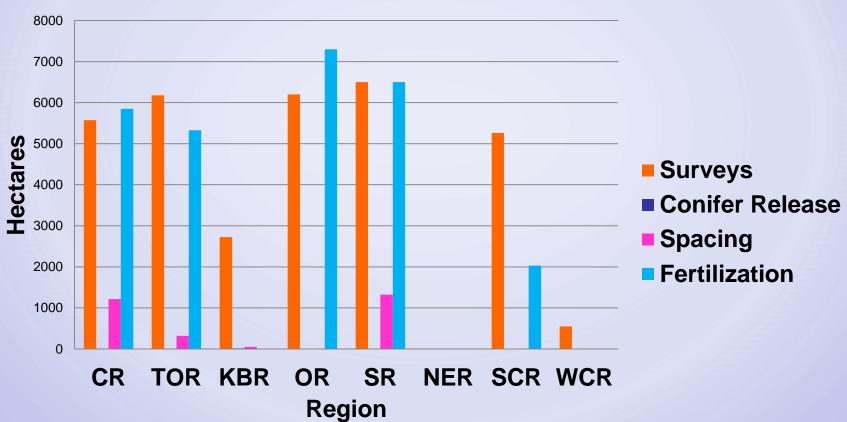


Timber Supply Mitigation 2015/16

- 2015/16 Budget for TSM is \$3.0 million
- Focus on fertilization with spacing and conifer release projects only being delivered by woodlots and community forests.
- Funding covers approximately 6000 ha of fertilization application including cost of fertilizer purchase – 4000 ha interior priority 1 areas and 2000 ha for MUs outside of the interior impacted areas (e.g. Coast)
- Funding for woodlots and community forests will be managed in addition to the \$ 3 million TSM budget.
- TSM planning for years 2016/17 onwards should be based on an annual provincial TSM budget of \$9 million.



TSM - Area Identified for Treatment





Fertilization

- Initial discussion with Interior Regional Priority 1 leads
- Agreement on focusing 4000 ha interior program in one area to maximize efficiency and effectiveness
- Follow-up discussion needed to confirm area. Consider:
 - Type 4 targets
 - Maximize volume growth
 - Minimize costs
- Coast Area already on target of 2000 ha

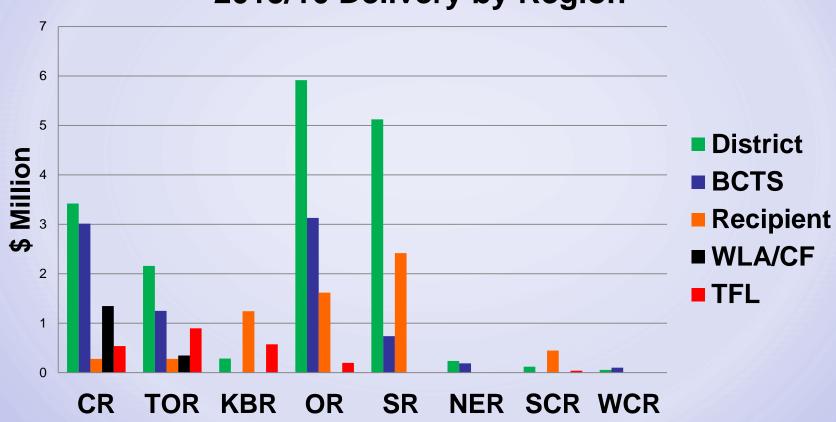


Spacing

- TSM funds focused on fertilization in 2015/16
- Only spacing projects delivered by CF and WL can be funded in 2015/16
- Corporate support for CF and WL projects with an approximate target of \$1 million for FFT (CR and TSM).
- Prioritize focusing on priority one areas

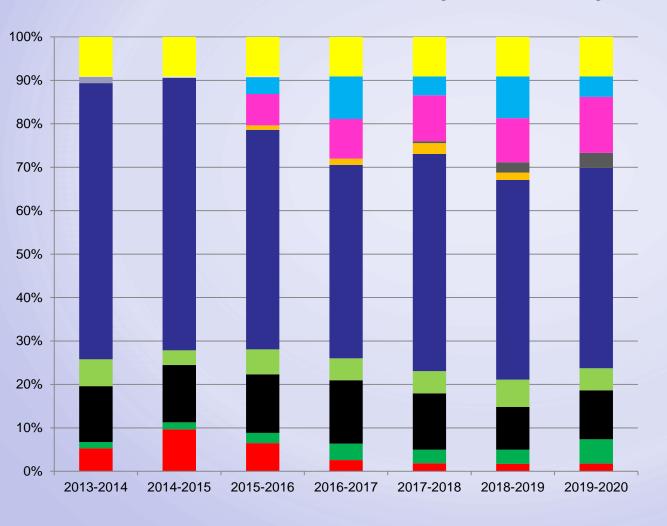


2015/16 Delivery by Region





Provincial BCTS Delivery Summary



- Repression Density
 Spacing
- Spacing
 Program Support (Admin)
- **Overview Planning**
- Access
- Pruning
- Fertilization
- Spacing
- **■** Conifer Release
- TSM surveys
 - **Overstory removal**
- Planting
- Brushing
- **Site Prep**
- Brushing Surveys
- Defaulted Obligations Surveys
- Surveys

 MPB/Wildfire Surveys
- Backlog NSR Surveys 29



Next steps:

- September 30th- Budget submitted as part of LBIS
- November 1st LBIS budget submitted to Deputy
- December 31st 2015/16 AOP 2nd draft firm based on projected budget endorsed by DM
- January March 2015/16 AOP finalized based on received budget
- April 1st 2015/16 AOP actioned



Questions?

- Info: FFT web-page <u>http://lbis.forestpracticesbranch.com/LBIS/node/1059</u>
- Contacts: Matt Leroy <u>Matthew.LeRoy@gov.bc.ca</u>
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