



**Investment
Agriculture
Foundation**
of British Columbia

Livestock Waste Tissue Initiative

January 5, 2011

2010 Annual Report

Funding provided by:

Canada 



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1. INTRODUCTION

This annual report covers the initiative management, summary of applications, communication activities, and proposed activities as laid out in the Strategic Plan compared to actual activities for 2010.

Events that impacted the Livestock Waste Tissue Initiative:

- The BC SRM Management Program end March 31, 2010.

2. INITIATIVE MANAGEMENT

The Management Committee membership changed during the year as follows:

- Rick Thiessen filled the vacant British Columbia Agriculture Council – BC Poultry Association position as a voting member.
- Bonnie Windsor changed from representing British Columbia Food Processors Association, to representing British Columbia Pork Producers Association

The full Management Committee (as of the end of 2010) is shown in the table below.

Representing	Person	Voting
British Columbia Abattoir Association	Fernie, David	Yes
British Columbia Agriculture Council – BC Cattlemen's Association	Baumann, Roland	Yes
British Columbia Agriculture Council – BC Milk Producers Association	vacant	Yes
British Columbia Agriculture Council – BC Pork Producers Association	Windsor, Bonnie	Yes
British Columbia Agriculture Council – BC Poultry Association	Rick Thiessen	Yes
British Columbia Food Processors Association	Vacant	Yes
Ministry of Agriculture and Lands	Schmidt, Orlando	Yes
Union of British Columbia Municipalities	Beer, Don	Yes
Union of British Columbia Municipalities	Wright, Jared	Yes
West Coast Reduction	Koch, Humphry	Yes
Agriculture and Agri-Food Canada	Innes, Tracey	No, Ex-officio
Canadian Food Inspection Agency	Roblesky, Ken	No, Ex-officio
Investment Agriculture Foundation of British Columbia	Byra, Chris	No, Ex-officio
Investment Agriculture Foundation of British Columbia	Van Kleeck, Rick: Coordinator , Staff	No, Ex-officio
Ministry of Agriculture and Lands	Corraini, Ken	No, Ex-officio
Ministry of Agriculture and Lands	Nickel, Ken: Chair	No, Ex-officio
Ministry of Environment	John, Barb	No, Ex-officio

The Management Committee met four times (2 face to face, and 2 conference calls) during 2010:

- February 22, 2010 in Abbotsford,
- April 19, 2010 a conference call
- April 23, 2010 in Abbotsford, and
- October 19, 2010 a conference call.

The LWTI Strategic Plan approved on January 23, 2009 was up-dated and approved by the Management Committee on February 22, 2010. The Terms of Reference approved on January 23, 2009 was up-dated and approved by the Management Committee on February 22, 2010.

The Management Committees mandate changed in October from adjudicating application, approving annual reports and yearly work plans to only approving annual reports and yearly work plans. This change was brought about because of perceived or real conflict of interest due to the Management Committee now receiving application for infrastructure projects at abattoirs or abattoir service providers. In the past few years this type of application would have gone to the BC SRM Management Program. The Terms of Reference were amended to reflect the revised duties of the Management Committee and approved by the IAF Initiative Management Committee on December 6, 2010.

The Management Committee worked very well as a group, with almost all decisions being unanimous.

The Coordinator worked 64% of his time on this initiative during 2010.

3. SUMMARY OF APPLICATIONS

Projects started and completed in previous years are not listed.

Project LWTI #	Title/From	Decision / Funding	Contract / Payment	Status
029	UBCM Farmed Animal Mass Carcass Disposal Emergency Planning Program / Union of British Columbia Municipalities	July 27, 2007 Approved \$705,000.00 total \$705,000.00 IAF	Fully executed Jan. 29, 2008 <ul style="list-style-type: none"> ▪ Oct. 5, 2007 \$352,500.00 ▪ Jan. 26, 2010 \$31,633.24 	Program wrapping up Dec. 31, 2009 \$400,065.50 committed
035	Organize, Host and Report on a BC FMD Workshop / LWTI – RFP – Centre for Coastal Health	Apr. 24, 2009 Approved (e-mail vote) \$64,729 total \$64,729 IAF Feb. 22, 2010 Final Report Approved Mar. 11, 2010 RRC sign off	Fully executed Jul.16, 2009 <ul style="list-style-type: none"> ▪ Aug. 27, 2009 \$11,350.77 ▪ Oct. 26, 2009 \$12,319.29 ▪ Dec. 10, 2009 \$17,497.43 ▪ Jan. 25, 2010 \$8,113.30 ▪ Mar. 15, 2010 \$3,828.75 	Project completed IAF Total \$53,100.54
036	FMD Economic Impact Study / Serecon	Apr. 20, 2009 Approved (e-mail vote) \$31,975 total + GST \$1,598.75 = \$33,573.75 \$33,573.75 IAF Feb. 22, 2010 Final Report Approved Mar. 11, 2010 RRC sign off	Fully executed Jul.16, 2009 <ul style="list-style-type: none"> ▪ Aug. 6, 2009 \$11,088.70 ▪ Nov. 16, 2009 \$11,044.44 ▪ Mar. 17, 2010 \$11,158.46 	Project completed IAF Total \$33,289.60

Project LWTI #	Title/From	Decision / Funding	Contract / Payment	Status
039	Gasification Study / LWTI – RFP – Sandwell Engineering	Feb. 22, 2010 Approved \$197,000 total + tax \$208,820 total \$208,820 IAF	Fully executed May 19, 2010 ▪ Jun. 7, 2010 \$19,043.99 ▪ Jun. 16, 2010 \$31,494.75 ▪ Aug. 5, 2010 \$14,498.93 ▪ Aug. 11, 2010 \$34,458.48 ▪ Sep. 2, 2010 \$81,409.05 ▪ Oct. 1, 2010 \$19,421.92	Project wrapping up
040	Peace River Regional District Phase II Study/LWTI	Oct. 21, 2009 Approved \$50,000 total \$50,000 IAF	<u>McElhanney</u> Fully executed Sep. 13, 2010 ▪ Oct. 13, 2010 \$18,480.00 <u>Kala</u> Fully executed Jun. 23, 2010	Project under way
041	FADES V/Smart Risk Control	Oct. 21, 2009 Approved \$54,818 total \$54,818 IAF Dec. 15, 2010 RRC Project completion approved	Fully executed Feb. 3, 2010 ▪ Jul. 19, 2010 \$22,318.98	Project completed awaiting final payment
042	Farmed Fish Mass Mortality Disposal Workshop / BC Salmon Farmers' Association	Apr. 19, 2010 Approved \$14,809 total \$7,079 IAF Dec. 15, 2010 RRC Project completion approved	Fully executed Jul. 7, 2010	Project completed awaiting final payment
046	Non-SRM Slaughter Waste Composting Facility / Spa Hills Farm	Apr. 23, 2010 Approved \$379,500 total \$189,750 IAF	Fully executed Aug. 23, 2010	Project wrapping up
048	SRM/Litter Fuel Analysis / LWTI	Apr. 19, 2010 Approved \$7,000 total \$7,000 IAF	No contract ▪ Jul. 28, 2010 \$2,890.66	Project completed IAF Total \$2,890.66
049	Coldstream Farm Animal Mass Carcass Disposal Tabletop Exercise / District of Coldstream	Aug. 6, 2010 Approved IAF Exc. \$6,035 total cash cost \$6,035 IAF	Fully executed Dec. 9, 2010 ▪ Dec. 6, 2010 \$4,5000.00	Project under way
050	Spallumcheen Farm Animal Mass Carcass Disposal Tabletop Exercise / Township of Spallumcheen	Aug. 6, 2010 Approved IAF Exc. \$6,035 total cash cost \$6,035 IAF	Fully executed Dec. 2, 2010 ▪ Dec. 6, 2010 \$4,5000.00	Project under way

Project LWTI #	Title/From	Decision / Funding	Contract / Payment	Status
051	Nanaimo Farm Animal Mass Carcass Disposal Tabletop Exercise / Regional District of Nanaimo	Sept. 13, 2010 Approved IAF IMC \$8,854 total cash cost \$8,854 IAF	Fully executed Dec. 9, 2010 ▪ Dec. 6, 2010 \$6,6000.00	Project under way
052	RDCK Farm Animal Mass Carcass Disposal Tabletop Exercise / Regional District of Central Kootenay	Oct. 25, 2010 Approved IAF IMC \$7,630 total cash cost \$7,630 IAF	▪ Dec. 13, 2010 \$6,4000.00	Project under way
053	Chilliwack Farm Animal Mass Carcass Disposal Tabletop Exercise / City of Chilliwack	Oct. 25, 2010 Approved IAF IMC \$8,165 total cash cost \$8,165 IAF	Fully executed Dec. 9, 2010 ▪ Dec. 6, 2010 \$6,0000.00	Project under way
055	Compost Berm / Rainer Farm	Dec. 6, 2010 Approved IAF IMC \$5,520 total cash cost \$2,760 IAF		Project just starting
056	FADES VI / LWTI RFP	Dec. 6, 2010 Approved IAF IMC		Request for Proposals (RFP) out to consultants
057	Fraser-Fort George Farm Animal Mass Carcass Disposal Tabletop Exercise / Fraser-Fort George Regional District	Dec. 6, 2010 Approved IAF IMC \$12,503 total cash cost \$12,503 IAF		Project just starting
Projects 043, 044, 045, and 047 did not get to a completed application stage.				

4. COMMUNICATION ACTIVITIES

Pacific Agriculture Show

The Coordinator attended the Pacific Agriculture Show in Abbotsford on February 14, 2010 at the Investment Agriculture Foundation booth to inform show attendees about the LWTI activities, explain the slaughter industry regulatory requirements and raise awareness of emergency planning needs for mass carcass disposal.

UBCM Convention

The Coordinator attended the Union of British Columbia Municipalities (UBCM) – Trade Show held in Whistler on September 27, 2010 at the Investment Agriculture Foundation booth to inform show attendees about the LWTI activities, explain the slaughter industry regulatory requirements and raise awareness of emergency planning needs for mass carcass disposal.

Emergency Preparedness

The Coordinator attended the Emergency Preparedness Conference held in Vancouver on November 23 to 25, 2010. Discussions were held with many emergency planners from around the province about the UBCM's Mass Carcass Emergency Planning program, and to up-date them about LWTI's activities and possible funding opportunities.

Web Page

New information was added several times during the year to the LWTI web pages, including:

- Projects approved by the LWTI Management Committee.
- For completed projects, links to final reports.
- A request for proposals for FADES VI project.

5. PROGRESS TOWARDS STRATEGIC PLAN GOALS

The 2005 Strategic Plan has been up-dated several times, with the latest up-date approved February 22, 2010.

Action Items started and completed in previous years are not listed.

Action Items in the table below with gray background are now considered completed.

Proposed Activities	Actual Activities	Comments
Action Item 4.1.1. Scan other jurisdictions for technology options or alternative uses for tissue wastes and report on findings	2005 <ul style="list-style-type: none"> • Not started. 2006 <ul style="list-style-type: none"> • Coordinator attend CFIA SRM workshop in Alberta September 27. 2007 <ul style="list-style-type: none"> • Coordinator met with a number of technology providers to discuss the applicability of their technology in SRM management. 2008 <ul style="list-style-type: none"> • No specific activities. 2009 <ul style="list-style-type: none"> • Coordinator met with a number of technology providers to discuss the applicability of their technology in SRM management. 2010 <ul style="list-style-type: none"> • No specific activities 	2009 & 2010 More effort is now needed to find technologies that can be used for the long term and minimize waste disposal costs.
Action Item 4.1.2. Research promising technologies and alternative uses for tissue wastes that if proven successful may be adopted by BC tissue waste generators or service providers.	2005 <ul style="list-style-type: none"> • Not started. 2006, 2007, 2008 & 2009 <ul style="list-style-type: none"> • No applications for projects. 2010 <ul style="list-style-type: none"> • No applications for projects. 	2006 & 200, 2008, 2009 & 2010 Coordinator efforts were to demonstrate technologies that are well proven. No technologies of interest for use in BC are at the research stage.
Action Item 4.2.1. Conduct feasibility studies on potential technologies that have slaughter industry support.	New in the 2010 Strategic Plan 2010 <ul style="list-style-type: none"> • Project LWTI 039 Gasification Study started 	
Action Item 4.2.2. Demonstrate and/or test potentially feasible technologies through pilot projects.	New in the 2010 Strategic Plan 2010 <ul style="list-style-type: none"> • Project LWTI 048 SRM/litter fuel analysis started & completed 	

Proposed Activities	Actual Activities	Comments
Action Item 4.3.1. Provide financial assistance to slaughter plant operators, private industry and/or governments to install infrastructure.	New in the 2010 Strategic Plan 2010 <ul style="list-style-type: none"> • Project LWTI 046 Spa Hills Farms started • Project LWTI 055 Rainer Farms started 	
Action Item 4.3.2. Expedite where possible the permit approval process.	New in the 2010 Strategic Plan 2010 <ul style="list-style-type: none"> • No specific activities 	
Strategic Plan 2008 & 2009 Action Item 5.1.1. Monitors development in the slaughter sector, obstacles the industry is facing and anticipates and identifies the business implications of legislation and funding program decisions.	2008, 2009 & 2010 <ul style="list-style-type: none"> • Coordinator continued to stay in contact with slaughter plant operators, MEIS staff, and local and provincial government staff. 	2009 & 2010 The BC SRM Management Program ended March 2010.
Strategic Plan 2008 & 2009 Action Item 5.1.2. Evaluates waste management technologies and advises the province on waste management options.	2008 <ul style="list-style-type: none"> • Coordinator worked with the Ministry of Agriculture and Lands in evaluating: <ul style="list-style-type: none"> ○ Incinerators ○ Gasifiers ○ Composting, and ○ Burial. 2009 <ul style="list-style-type: none"> • Coordinator worked with the Ministry of Agriculture and Lands in evaluating: <ul style="list-style-type: none"> ○ Rendering, ○ Incinerators, ○ Gasifiers, and ○ Composting. 2010 No specific activities	2009 & 2010 The BC SRM Management Program ended March 2010.
Strategic Plan 2008 & 2009 Action Item 5.1.3. Guides, as an ex-officio, the BC SRM Management Program regarding program implementation and ongoing program and project management.	2008 & 2009 <ul style="list-style-type: none"> • Coordinator provided guidance to the BC SRM Management Program through discussion with staff, working on components of the program, and attending 35 adjudication meeting. 2010 <ul style="list-style-type: none"> • Coordinator provided guidance on wrapping up the BC SRM Management Program through discussion with staff. 	2008 BCSRM Management Program: <ul style="list-style-type: none"> • Approved 18 projects in 2008 • Committed ~ \$1.06 million in 2008 • Total funds committed ~ \$2.50 million 2009 Attended 21 meetings. BCSRM Management Program: <ul style="list-style-type: none"> • Approved 16 projects in 2009 • Committed ~ \$1.2 million in 2009 • Total funds committed ~ \$3.7 million 2010 <ul style="list-style-type: none"> • Total funds committed ~ \$3.8 million The BC SRM Management Program ended March 2010.

Proposed Activities	Actual Activities	Comments
<p>Strategic Plan 2008 & 2009 Action Item 6.1.1. UBCM to administer a program for local governments in conjunction with local stake-holders to develop Emergency Plans for mass livestock carcass disposal for their communities.</p>	<p>2005</p> <ul style="list-style-type: none"> • Much work has occurred in developing this project with UBCM; however, no project has started at this time. This project will likely be broken into two or three smaller projects and start in 2006. <p>2006</p> <ul style="list-style-type: none"> • Coordinator working closely with UBCM to start and oversee project LWTI 018 to develop a template for local governments to use. <p>2007</p> <ul style="list-style-type: none"> • Project LWTI 018 completed. • New project LWTI 029 started enabling UBCM to fund local government emergency planning. <p>2008, 2009 & 2010</p> <ul style="list-style-type: none"> • Project LWTI 029 UBCM program proceeding well. 	<p>2008</p> <p>Project LWTI 029 to the end of 2008:</p> <ul style="list-style-type: none"> • Approved 14 projects, covering 21 local government jurisdictions, and this represents ~ 59% of the weight of all livestock in BC. • Committed \$249,655 <p>2009</p> <p>Project LWTI 029 to the end of 2009:</p> <ul style="list-style-type: none"> • Approved 21 projects, covering 32 local government jurisdictions, and this represents ~74% of the weight of all livestock in BC. • Committed \$400,065.50 <p>2010</p> <p>Project LWTI 029 to the end of 2010:</p> <ul style="list-style-type: none"> • Approved 22 projects, covering 34 local government jurisdictions, and this represents ~74% of the weight of all livestock in BC. • Committed \$412,565.50
<p>Strategic Plan 2008 & 2009 Action Item 6.2.1. Provide grants of up to \$250,000 to assist Local governments to implement disposal solutions identified in their Emergency Planning for Mass Livestock Carcass Disposal.</p>	<p>2005, 2006, 2007 & 2008</p> <ul style="list-style-type: none"> • Not started. <p>2009 & 2010</p> <ul style="list-style-type: none"> • Project LWTI 040 Peace River emergency mass carcass landfilling is ongoing 	<p>2006 & 2007</p> <p>Local governments can not apply for funding under this action item until they have completed their emergency plan funded through (new) action item 6.1.1.</p> <p>2008</p> <p>Six local governments could apply for funding under this action item as they have completed their emergency plan funded through (new) action item 6.1.1.</p> <p>2009 & 2010</p> <p>Twenty two local governments could apply for funding under this action item as they have completed their emergency plans.</p>
<p>Strategic Plan 2008 & 2009 Action Item 6.3.1. BC Salmon Farmers administer a project to develop Emergency Plans for mass farmed fish carcass disposal for their industry.</p>	<p>2006</p> <ul style="list-style-type: none"> • Project LWTI 020 started. <p>2007</p> <ul style="list-style-type: none"> • Coordinator worked with the consultant, agencies and Salmon Farmers on project LWTI 020. <p>2008</p> <ul style="list-style-type: none"> • Coordinator encouraged BC Salmon Farmers to continue with this action item. <p>2009</p> <ul style="list-style-type: none"> • Discussions with BC Salmon Farmers resulted in a LOI to continue working on their plan. <p>2010</p> <ul style="list-style-type: none"> • Project LWTI 042 mortality disposal workshop started & completed 	<p>2008 & 2009</p> <p>Considerable more work needs to be done on this action item before it can be considered completed. Waiting for BC Salmon Farmers to take lead.</p>

Proposed Activities	Actual Activities	Comments
Strategic Plan 2008 & 2009 Action Item 6.4.2. Support the annual up-date and exercise of the FADES plan.	2005 <ul style="list-style-type: none"> Project LWTI 005a FADES I started. 2006 <ul style="list-style-type: none"> Project LWTI 005a completed. Project LWTI 005b FADES II started. 2007 <ul style="list-style-type: none"> Project LWTI 005b completed. Project LWTI 030 FADES III started. 2008 <ul style="list-style-type: none"> Project LWTI 030 completed Project LWTI 034 FADES IV started. 2009 <ul style="list-style-type: none"> Project LWTI 034 completed. Project LWTI 041 FADES V started. 2010 <ul style="list-style-type: none"> Project LWTI 041 completed. Project LWTI 056 FADES VI started (RFP out) 	
Strategic Plan 2008 & 2009 Action Item 6.4.3. Identify the gaps in disposal capacity throughout the province based on the results of the planning done in 6.1.1. and improvement made through 6.2.1.	2005, 2006, 2007 2008, 2009 <ul style="list-style-type: none"> Not started. 2010 <ul style="list-style-type: none"> Review completed. 	2006 & 2007 This action item can not start until local governments have completed their emergency plan funded through (new) action item 6.1.1. 2010 Local Governments targeted for carcass disposal exercises and capacity building.
Strategic Plan 2008 Action Item 6.4.4. Determine the need for and possible locations of new carcass disposal options and suggest what those options are.	2005 <ul style="list-style-type: none"> Not started. 2006 <ul style="list-style-type: none"> Coordinator attended USDA workshop on mass carcass disposal planning and options. 2007 <ul style="list-style-type: none"> Project LWTI 023 emergency disposal of large animals in the Fraser Valley started. 2008 <ul style="list-style-type: none"> Project LWTI 035 was initiated by LWTI in response to the need to explore alternative methods of handling a FMD outbreak. 2009 <ul style="list-style-type: none"> Project LWTI 035 FMD workshop was carried out. Project LWTI 036 FMD economic Impact study was carried out. 2010 <ul style="list-style-type: none"> Project LWTI 035 FMD workshop completed. Project LWTI 036 FMD economic Impact study completed. 	2008 LWTI 023 found that during an emergency there is not currently enough capacity to dispose of most of the waste material and further work is needed on this Action Item.
Strategic Plan 2008 & 2009 Action Item 6.4.5.) Conduct preliminary design of options identified in 6.4.3. Starting with the areas with the largest shortfall in capacity.	2005, 2006, 2007 & 2008 <ul style="list-style-type: none"> Not started. 2009 <ul style="list-style-type: none"> Not started. 	2006, 2007, 2008 & 2009 This action item can not start until action item action item 6.4.3. and 6.4.4. are well under way or completed.

Proposed Activities	Actual Activities	Comments
<p>Strategic Plan 2008 & 2009 Action Item 6.5.1. Support local/regional/provincial/federal governments, producers, processors and other stakeholders to systematically test and exercise emergency response plans throughout the province and to upgrade plans to reflect lessons learned from the testing and exercising.</p>	<p>2005, 2006 & 2007</p> <ul style="list-style-type: none"> • Not started. <p>2008</p> <ul style="list-style-type: none"> • Coordinator assisted PRRD with the plan and attended three meetings/ tabletop exercises for emergency mass carcass disposal held in the Peace River. <p>2009</p> <ul style="list-style-type: none"> • Coordinator attended BC emergency conference and encouraged local governments to take advantage of funding for exercises. <p>2010</p> <ul style="list-style-type: none"> • Coordinator attended BC emergency conference and encouraged local governments to take advantage of funding for exercises. • Project LWTI 049 Coldstream exercise started • Project LWTI 050 Spallumcheen exercise started • Project LWTI 051 Nanaimo RD exercise started • Project LWTI 052 RD Central Kootenay exercise started • Project LWTI 053 Chilliwack exercise started • Project LWTI 057 RD Fraser-Fort George exercise started 	<p>2010</p> <p>It is expected that exercising plans will lead local governments to request funding through action item 6.2.1. to build disposal capacity.</p>