



#230-32160 South Fraser Way  
 Abbotsford, BC V2T 1W5  
 Tel: 604-854-4454 Fax: 604-854-4485

**AGRICULTURE ENVIRONMENT  
 STEWARDSHIP INITIATIVE**

**COMPLETED PROJECTS**

For more information about Agriculture Environment Stewardship Initiatives (AESI) Completed Projects please contact Brian Baehr, AEI Coordinator, tel: 250-860-2967.

**RESEARCH**

<b>Pasteurization of Discard Milk</b>					
Strategic Priority	Research	Project Number		Status	
		01-039		completed	03
<p>An amount of \$12,750 was approved for the South Coastal Dairy Education Association to conduct a research project to evaluate the effectiveness of pasteurization in eliminating transfer of trace amounts of antibiotics found in milk of treated cows to their calves. The work was done in collaboration with the University of British Columbia.</p>					
<b>Source Tracking of <i>E. coli</i> and Other Water Quality Parameters</b>					
Strategic Priority	Research	Project Number		Status	
		02-006A		completed	08
<p>A contribution of up to \$49,000 from AESI and \$1,650 from AEPI was approved for this project, which focused on the identification, movement and survivability of <i>E. coli</i> bacteria in streams. The work took place in the North Okanagan, but is of interest and benefit throughout the grazing and livestock producing areas of the province. The results have enabled better informed decisions related to grazing in riparian areas and more objectivity in determining the source of an <i>E. coli</i> outbreak.</p>					
<b>Assessment of Pheromone for Control of Obliquebanded Leafroller</b>					
Strategic Priority	Research	Project Number		Status	
		03-013		completed	07
<p>\$45,000 was approved for this project which demonstrated the effectiveness of pheromone mating disruption for obliquebanded leafroller control in tree fruits. Funding partners in this project included the manufacturers, growers, Growing With Care, and the Okanagan Kootenay Sterile Insect Release Program.</p>					
<b>Alternate Fuel Economic Evaluation</b>					
Strategic Priority	Research	Project Number		Status	
		04-014		completed	05
<p>This project determined the economic and environmental feasibility of biofuels as an alternate fuel source for the greenhouse industry. The comparative costs of energy options and the capital investment required will be evaluated; regulatory considerations will also be assessed. \$44,550 was approved for this project.</p>					

<b>Poultry Litter and Compost Practices on the Fraser Delta</b>					
Strategic Priority	Research	Project Number	05-006A	Status	completed 08
<p>This project investigated BMPs for use of poultry litter, manure storage and poultry litter/compost to increase utilization of composted and non-composted poultry manure in a cost effective and environmentally sound manner. Producers, Ministry of Agriculture and Lands, Sustainable Poultry Farming Group and the Manufacturer evaluated the prototype cylcone disk spreader and cost of spreading. \$50,000 from AESI funds was approved for this project.</p>					
<b>Bumble Bee Population Enhancement</b>					
Strategic Priority	Research	Project Number	05-013	Status	completed 08
<p>This project was to enhance bumblebee populations for the benefit of blueberry pollination. The effectiveness of providing nesting habitats for bumblebees in riparian zones, different types of nesting habitats and their cost effectiveness were evaluated. \$8,226 was allocated to this project.</p>					
<b>Managing Cherry Insect Pests under Changing Insecticide Use Patterns</b>					
Strategic Priority	Research	Project Number	06-009A	Status	completed 08
<p>This project developed an Integrated Pest Management Program for sweet cherries using alternative pest management tools on primary and secondary insect pest populations and their natural enemies. Pests and pesticide use patterns were monitored on representative cherry orchards. Results were communicated to cherry growers. \$48,000 was approved from AESI funds for the research component of this project.</p>					
<b>Anaerobic Digestion Feasibility Study for the Fraser Valley</b>					
Strategic Priority	Research	Project Number	06-020	Status	completed 08
<p>This project researched the feasibility of anaerobic digestion facility for the Fraser Valley. The project identified suitable geographical areas, environmental and social issues, and options to address these issues. The project also identified potential barriers to the use of produced electricity and heat and potential barriers for external marketing and delivery of heat, electrical and renewable natural gas. The project also analyzed available feedstock and market readiness for "green" heat. \$50,000 was allocated to this project.</p>					

**Nutrients and Energy Recovery from Manure**

Strategic Research Project 07-005 Status completed 08  
Priority Number

This 2-phase project was conducted as follows: Phase I -- adapt technology used for the removal of nutrients from municipal sewage waste water to animal manure; and Phase II -- demonstrate energy recovery by methane generation from the manure processing and digestion system as a farm scale system. \$50,000 was approved for this project.

**Best Management Practices for Wood Waste Disposal**

Strategic Priority	Research	Project Number	07-022A	Status	Completed 08
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This project assisted BC agriculturalists with environmental regulation compliance. The current orchard removal program results in excess waste generation. This project separated orchard removal byproducts and determined the best methods for using these byproducts. \$74,000 was approved for this project; \$10,000 from AEPI and \$64,000 from AESI.

**Road Map For Invasive Plant Research In BC**

Strategic Priority	Research	Project Number	08-021	Status	Completed 09
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This project developed a collaborative and comprehensive research strategy for invasive plant research in BC. A 2-day forum brought together expert speakers, researchers, and other stakeholders from a variety of perspectives and countries; participants interacted with one another; a poster session was also featured at the forum. \$45,000 from AESI funds was approved for this initiative.

**STEWARDSHIP**

**Integrated Pest Management for Nursery Producers in British Columbia**

Strategic Priority	Stewardship	Project Number	01-042	Status	completed 03
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The objective of this project was to take the first steps towards establishing an IPM program for the nursery industry aimed at significantly reducing the use of pesticides. The BC Landscape & Nursery Association received \$34,000 to gather information on current practises in BC and research programs in other jurisdictions.



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<b>Grape Pruning to Improve Quality and Reduce Pests</b>					
Strategic Priority	Stewardship	Project Number	01-056	Status	completed 05
<p>The purpose of this research project was to evaluate the effectiveness of pruning techniques on pest incidence, vine vigour and grape quality. An amount of \$49,363 over three years was approved to assist the BC Wine Institute in completing this project. Partners include Lowery Entomological Research, Summerhill Estate Winery, and the Pacific Agri-Food Research Centre.</p>					
<b>Irrigation Water Conservation Presentation</b>					
Strategic Priority	Stewardship	Project Number	02-001	Status	completed 02
<p>An amount of \$3,750 was provided to support the involvement of an Australian speaker, an expert in the area of water conservation as it effects wine grape quality, at the 2002 Viticulture and Oenology Conference in BC.</p>					
<b>Sustainable Manure Management Research, Demonstration &amp; Education</b>					
Strategic Priority	Stewardship	Project Number	02-003	Status	completed 06
<p>The purpose of this project was to further develop and evaluate new technologies aimed at improved nutrient management on farms. Initial projects will investigate relay cropping, separation of liquids and solids in manure and reduced tillage of corn. Partners included the Pacific Field Corn Association, and Agriculture and Agri-Food Canada. \$117,414 was approved over 3 years.</p>					
<b>Evaluation of Options for Fraser Valley Poultry Manure</b>					
Strategic Priority	Stewardship	Project Number	02-004	Status	completed 03
<p>An amount of \$22,500 was granted to facilitate the investigation of new technically feasible and economically viable options for the handling, utilization and disposal of poultry manure. The Poultry Environmental Steering Committee in cooperation with the Sustainable Poultry Farming Group led this project.</p>					
<b>SHaRP Agricultural Stewardship Initiative</b>					
Strategic Priority	Stewardship	Project Number	02-005	Status	completed 04
<p>An amount of \$70,000 over 3 years (including Project # 04-009) was approved to support and enhance the agricultural component of the City of Surrey led Salmon Habitat Restoration Program (SHaRP). The project included on-farm stewardship demonstration projects and education and awareness materials and events. The project, led by the City of Surrey, was supported by the Surrey Agricultural Advisory Committee.</p>					

<b>Lower Sand Creek Restoration and Education Project</b>					
Strategic Priority	Stewardship	Project Number	02-012	Status	completed 03
<p>The restoration of Sand Creek in the East Kootenay is part of a cooperative effort between the Columbia Kootenay Fisheries Renewal Partnership and local ranchers. An amount of \$14,886 was approved for works in 2002 related to stream bank protection and restoration.</p>					
<b>Biological Control Program for Cereal Leaf Beetle</b>					
Strategic Priority	Stewardship	Project Number	02-014	Status	completed 06
<p>\$4,066 was approved to assist Creston Valley area farmers to develop and implement a biological control for cereal leaf beetle. Successful establishment will reduce pesticide use and potentially reduce production costs for cereal crops.</p>					
<b>Hamilton Commonage Grassland Monitoring Project</b>					
Strategic Priority	Stewardship	Project Number	03-003	Status	completed 06
<p>The purpose of this initiative was to develop and test a method for monitoring grassland conditions by determining the effects of different management practices on grassland ecosystems. A specific outcome was the preparation of a handbook for ranchers for self-assessment of grassland condition. \$48,000 was approved for this initiative, which was led by the BC Grassland Conservation Council of BC and its member organizations.</p>					
<b>SHaRP Agriculture Stewardship Initiative</b>					
Strategic Priority	Stewardship	Project Number	05-011	Status	completed 05
<p>This project continued with on-farm projects (6 proposed) demonstrating good agricultural practices. The farmer contact program was expanded and an Agricultural Stewardship Kit was distributed to members of the agricultural community. The project partnered with the BC Ministry of Agriculture and Lands in education and awareness related to noxious weeds. \$30,000 was approved for this project.</p>					
<b>Okanagan Similkameen Recycling of Agricultural Plastics</b>					
Strategic Priority	Stewardship	Project Number	06-014	Status	completed 07
<p>This project developed an agricultural plastics collection and recycling program. The objectives were to eliminate burning of agricultural plastics and reduce landfill volumes. Methods of transporting, stockpiling and separating plastics were evaluated. The project developed partners in the processing sector to support market viability. A final report was shared with BC Regional Districts. \$38,500 was approved for this initiative.</p>					



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**Environmental Farm Planning Initiative**

Strategic Priority	Stewardship	Project Number	-efp	Status	completed 04
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The purpose of this funding of \$79,583 was to facilitate the early stages of development for an environmental farm planning initiative for BC. The BC Environmental Farm Plan Program is now in place with funding under the Canada-BC Agriculture Policy Framework Environment Chapter in conjunction with the Investment Agriculture Foundation of BC. The initiative is being lead by the BC Agriculture Council in partnership with agricultural organizations around the province as well as supporting funding and regulatory agencies.

