



Growing Forward

Beneficial Management Practices 2009/2010

The Canada – British Columbia Environmental Farm Plan Program

Canada – British Columbia Environmental Farm Plan (EFP) Program complements and enhances the current stewardship practices of producers. The EFP program applies to all types and sizes of farm operations throughout the province. As a participant in this program, producers are able to identify their farm's environmental strengths, prioritize any potential risks to the environment, and take advantage of tools and techniques available to manage those risks.

Beneficial Management Practices Program

Producers who develop and have an approved and valid EFP are eligible to apply for cost-shared incentives through the Growing Forward Agreement on-farm action Beneficial Management Practices (BMP) Program to implement actions identified in their on farm environmental action plans. The following document lists the BMP categories and practices eligible for cost-shared funding in British Columbia. For each category there are limits on the percentage of the project costs payable from the program and the maximum amount of funds that the program will provide.

Application Steps

1. **Complete an EFP for your farm and receive a 'Statement of Completion' from the BC ARDCORP recognized Planning Advisor**
2. **Fill out a BMP application form (providing all requested identification and details of your project)**
3. **Have the application form signed by both the applicant and a Planning Advisor**
4. **Submit the application form to the ARDCORP office.**

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General Policy Statements and Conditions for BMP Program.

The following lists of Beneficial Management Practices are for the Program Year April 1, 2009 to March 31, 2010 and are subject to annual revision during the life of the Growing Forward Agreement. Previous BMP Category codes established under the Agriculture Policy Framework Agreement have been maintained. They remain on the list as place holders in the event other organizations are able to fund these BMPs or there are policy changes which would allow them to be funded in at a future time.

The following BMP policy is derived from the previous BMP Program (National Farm Stewardship, Green Cover Canada) and the BC Environment Chapter Working Group (WG) Policy established over the duration of the Agriculture Policy Framework Agreement.

1. **Access to the BMP program:** Access will be based on an EFP that is less than 5 years old and reflects the current farm or ranch operation. If the EFP is more than 5 years old or there have been significant changes on the farm or ranch operation – the EFP must be renewed however this does not imply the farm operation will be able to access On-Farm Action program dollars nor does it imply the farm cap will be reset.
2. **Date:** January 1, 2004 is to be the date for all BMP's where relevant – (WG ratification June 16, 2005) Under Growing Forward this will not change – Farm operations must have been in existence on or before January 1, 2004. Funding is not designed to incent a change in enterprise type. The On-Farm Action funding is designated to make necessary changes to existing operations or practices that are impacting water quality, quantity or climate change.
3. **Farm Cap:** Overall farm Cap for BMP Program under NFSP/GC during APF was \$70K - \$50 K from NFSP and \$20K from AEI. The overall farm cap will remain at \$70K for any farm that has or is participating in the Canada-BC Environmental Farm plan Program. Those operations that participated in the BMP program under APF or the Continuity Year Agreements which have not reached the \$70K farm cap can continue to access the program until such time as their farm cap has been met.
4. **Funding of partial projects:** Funding for partial projects are eligible only when the partial projects, on their own, achieve significant environmental risk reduction - (WG ratification June 16, 2005). This will continue under Growing Forward.
5. **New equipment:** Provide funding for the environmental enhancing components of new equipment. This should be based on a technical review and cost estimates by appropriate experts. (WG ratification December 14, 04). This will continue under Growing Forward.
6. **Stacking:** Previous program policy set a percentage maximum amount of government funds which could be used towards the total project costs. For Growing Forward environmental programming this has been set at 75%. Where funding is provided by a government agency and the agency deems that the funding is not from a Canadian government (e.g. DFO use of funds originating in the United States), a letter from the agency confirming the source of funds must accompany the request for payment. (origin AAFC September, 2005) - (WG ratification October, 2005).
7. **In-kind:** One of the purposes of allowing in-kind contributions to cover a portion of the project costs is to reduce the cash costs for the applicant and the cost to the program. Wherever possible, projects should comply with this principle. - (WG ratification October, 2005). This will continue under Growing Forward.

8. **Project initiation:** Projects will be considered ineligible for funding if any portion has been initiated prior to approval.
9. **Project completion:** All projects must be completed prior to December 31st of the year they are approved. Approval of projects will be based on the assumption they will be complete by the end of the calendar year unless clearly specified in the BMP program category (i.e., a preapproved 3 year span for an approved riparian or shelterbelt planting). Work and invoices must be completed and dated December 31st unless written consent by the program administration is given to carry on with project work beyond that date. Carrying on will only be considered in extenuating circumstances (i.e., delays as a result of regulatory approval)
10. **Caps and Cost Shares for BMP Categories:** These have been set as of May 12, 2009 and are valid for the 2009/2010 BMP, however, are subject to revision.

As a result of the Beneficial Management Program Administrative Review Committee meeting April 9, 2009

11. **Materials on Hand:** The provision to pay for materials on hand for fencing (or anything else) has been dropped. Only eligible costs will be for those services and materials purchased after project approval.
12. **Evidence of payment:** The program requires a paid invoice, cancelled cheque with invoice, or credit card transaction as evidence of payment.
13. **Cancelled Projects:** Any projects cancelled by applicant or time deadline are considered cancelled. Any materials or services obtained for a cancelled project are not eligible for payment if a new application is received at a later date. By previously starting a project, it does not mean it is ineligible for further consideration under a new application. However, all costs incurred for materials or services under the previous application will be ineligible for funding under the new application.

Note:

- A. CEAA = Canadian Environmental Assessment Act – CEAA or CEAA equivalency may be required for any construction for many Categories (in most cases applicants can use construction mitigation Standard Operating Procedures)
- B. engineering design work may be an eligible cost as a standalone item if a project does not proceed for economic, technical or environmental reasons such as CEAA
- C. Engineering costs should be included as part of the BMP costs for and structures that require engineering approval (i.e., manure pits, roofs, etc.)
- D. All projects must abide by all applicable Federal, Provincial and Municipal laws and regulations, including, but not limited to, the Federal and Provincial environmental assessment and protection acts, trade agreements and legislation acts, and zoning bylaws.

Category Code / Cost Share / Funding Cap	BMP Category	Practice Code (individual Cost Share & Funding Cap)	Eligible BMPs and Costs	Ineligible BMPs and Costs	Benefits	Linkages to other plans or actions e.g., need for Nutrient Management Plan
01 30% \$30K	Improved Manure Storage and Handling Category 01 will only be offered in 2009/2010	0101	<p>Increased storage to meet winter spreading restrictions: (may include satellite storage)</p> <p>A. Engineering: Manure storage structures are to be designed by a Professional Engineer. Exemptions for low risk projects are at the discretion of the approval process. - (WG ratification June 16, 2005)</p> <p>B. Structures below barns: For structures built below barns; a portion of the cost of the roof is eligible if a roof is deemed necessary to meet the minimum storage requirement for the program. The maximum eligible cost for the roof will be the equivalent of the cost of a roof over a similar sized storage structure that is not below the barn. (WG ratification June 16, 2005)</p>		<ul style="list-style-type: none"> Reduced risk of runoff of manure nutrients from overflowing manure storage structures Reduced risk of leaks and spills of manure Reduced risk of leaching of manure nutrients to groundwater Reduced need to spread manure during high risk/rainfall periods, reducing soil compaction and risks to surface water quality from manure nutrients Facilitates manure spreading when crops can benefit from the fertilizer value of manure 	<p>Nutrient Management Plan (NMP) before access.</p> <p>Previous Working Group Policy had suggested no link to Nutrient Management Plan.</p> <p>This is a policy change.</p>
		0102	Improved features to prevent risks of water contamination (leaks, spills)			
		0104	Containment systems for solid manure (includes covers)			
		0105	Assessment and monitoring of existing manure storage infrastructure			
		0106	Engineering design work. This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)			
02 30% 30K	Manure Treatment	0201	Dewatering systems, nutrient recovery systems for manure	<ul style="list-style-type: none"> anaerobic digestors (former practice code 0203) Composting of manure can be covered elsewhere (former practice code 0202) 	<ul style="list-style-type: none"> Reduced liquid manure volume reduces the risks of water contamination by facilitating land application of appropriate rates Reduced manure volume facilitates export of excess manure nutrients off the farm Nutrient recovery improves quality of the water that is discharged into drainage systems or recycled in the barn Nutrient recovery add nutrients back into the solid phase of manure 	NMP prior to access.
		0204	Engineering design work. This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)			

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03 30% \$10K	Manure Land Application	0301	<p>Specific equipment for land application of manure i.e., low trajectory, sleighfoot, band spread</p> <p>A. Solid manure spreaders: funding may be provided for the additional costs of cyclone spreading attachments. Other types of spreaders will be reviewed, on a case by case basis, to determine components that can be funded from the program.</p>		<ul style="list-style-type: none"> Increased retention of nitrogen in soil and crop that could otherwise be lost to air or water Equipment such as a sleighfoot or low trajectory boom reduce emissions and can improve nutrient management efficiency Minimized N₂O release Reduced runoff of manure nutrients Low ammonia loss and odour Low N₂O release Low soil compaction, decreasing runoff risks 	NMP prior to access.
04	In Barn Improvements		No identified eligible items available in this category for 2009/2010			
05 50% \$20K	Farmyard Runoff Control	0501	Upstream diversion around farmyards; downstream protection (e.g., catch basins, retention ponds, constructed wetlands)	<ul style="list-style-type: none"> Gutters and downspouts for farm buildings are not eligible for funding. These are considered to be conventional building components that are the responsibility of producers. 	<ul style="list-style-type: none"> Reduced risk of contaminated runoff water moving into groundwater and surrounding surface waters; increased protection of water quality for human and animal health 	
	0502	Construction of impermeable base and roof for minimizing runoff from livestock pen areas and confinement areas (feed bunks, water infrastructure, walls and electrical costs are not eligible)				
	0503	Engineering design work. This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)				
06 50% \$15K	Relocation of Livestock Confinement and Horticultural Facilities Category - 06 will only be offered in up to 2010/2011 program year.	0601	Relocation of livestock facilities such as corrals, paddocks and wintering sites away from riparian areas	<ul style="list-style-type: none"> Groundwater protection: Proximity to sensitive groundwater is not a rationale for use of this BMP. Funding is to be used to move operations away from sensitive surface water, riparian areas, critical wildlife habitat and areas of severe erosion potential. 	<ul style="list-style-type: none"> Limit direct animal access and duration of cattle in a riparian area or near water bodies. Enhanced riparian health Reduced impacts on water quality 	
	0602	Relocation of horticultural facilities such as greenhouses and container nurseries from riparian areas				
	0603	Engineering design work This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)				

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07 50% \$15K	Wintering Site Management	0704	Field access improvements: alleyway/access lane upgrades All other practice codes deleted as they are available in other categories.		<ul style="list-style-type: none"> Reduced soil erosion 	
08 30% \$3K	Product and Waste Management	0801	Improved on-farm storage and handling of agricultural products (e.g. fertilizer, silage, petroleum products, and pesticides) A. Fertilizer storage: All types of structures are eligible for funding assistance with a limit being placed on the area of the structure based on the type(s) of crop and area being farmed. The maximum area of the structure is the lesser of 1.86 m ² (20 ft ²) per pallet or 0.93 m ² (10ft ²) per hectare of land receiving the fertilizer. B. Fuel storage: The program supports the cost of providing a roof and containment for a single walled tank or the cost of a double walled tank. The program will not provide a roof and containment of a double walled tank. The cost of a concrete slab and bollards for double walled tanks are eligible items. Spill kits and fire extinguishers are eligible items. Fuel storage structures should be designed with sufficient roof overhang and partial walls to minimize water collecting in the containment structure.	<ul style="list-style-type: none"> Worker sanitation facilities: These facilities are not eligible for funding assistance under the program. (WG ratification June 16, 2005) 	<ul style="list-style-type: none"> Protection of water, air and soil quality 	
		0802	Improved on-farm storage, handling, and disposal of agricultural waste (e.g., livestock mortalities, fruit and vegetable cull piles, wood waste) A. Poultry mortality incinerators: These are eligible as long as the incinerator uses Best Available Technology and meets appropriate air emission standards.			

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			<p>B. Mulching mowers: Heavy duty mulching mowers for dealing with orchard prunings are eligible for incremental assistance. This is based on the difference between a conventional mower and a mulching mower.</p> <p>C. Silage storage: Funding assistance can be provided to modify an existing facility or build a new facility where the existing facility (in place on or before January 1, 2004) is not adequate from an environmental protection perspective. Existing facilities include pit silos and free standing bunkers silos in addition to other types of constructed silos.</p> <p>D. On-farm processing and marketing: These are considered farm operations where the majority of the material being processed or marketed is produced on the farm or the majority of the output of the processing operation is used on the farm. Waste management from these activities is eligible for funding. Where wastes are not agricultural wastes, the farm must ensure that appropriate authorizations for disposal have been obtained.</p>			
		0803 30% \$10K	Composting of agricultural waste (e.g., livestock mortalities, manure, fruit, vegetable, wood, straw residue)			
		0804	Engineering design work This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)			
09 50% 3K	Water Well Management	0901	Sealing & capping old water wells	<ul style="list-style-type: none"> replacement wells 	<ul style="list-style-type: none"> Reduced risk of groundwater contamination by contaminants like fuel or pesticides Reduced health risk to people and animals 	
		0902	Protecting existing water wells from surface contamination			

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10	Riparian Area Management	1001 60% \$20K	<p>Alternative Watering Systems To Manage Livestock: solar, gravity-fed, wind, grid or alternative power</p> <ul style="list-style-type: none"> • Pumps • Storage • Power setup from existing power line. • Waterlines • Construction • Protective fencing or portable panels. <p>Note: Approval of projects will be contingent upon adherence to all federal, provincial, and municipal guidelines and regulations for project design and implementation.</p>	<ul style="list-style-type: none"> • Repair and maintenance of existing riparian pasture management systems and equipment • On-going maintenance costs of existing equipment. • Opportunity costs associated with payments for land taken out of production. • Installation costs of main electrical service. 	<ul style="list-style-type: none"> • Limit direct animal access and duration of cattle in a riparian area or near water bodies. • Enhance riparian health • Reduce impacts on water quality • Livestock health. • Year round reliable water source for livestock. 	Riparian Management Plans prior to access to funding.
		1002 60% \$20K	<p>Riparian Buffer Establishment: establishment / planting of adaptable, hardy, permanent native and/or non-invasive introduced species of grasses, forbes, trees and shrubs</p> <ul style="list-style-type: none"> • Pre-planting site preparation and plant purchase costs prior to the year of planting if needed. • Establishment year site preparation • Weed control • Irrigation (trickle or drip) • Temporary fencing • Purchase / planting / establishment costs for grasses from certified seed, forbes, trees and shrubs for the year of planting plus one year of maintenance after the planting year, or the termination of Growing Forward funding, whichever comes first. • Consultative service for suitable species, composition and maintenance 	<ul style="list-style-type: none"> • On-going maintenance costs beyond first year • Costs associated with acquiring/planting invasive plant species • Opportunity costs associated with payments for land taken out of production • Landscape quality or landscaping type plantings • Tree and shrub planting and establishment costs in excess of \$50 per tree/shrub, exclusive of all establishment costs, including in-kind • Commercial fruit trees, Christmas trees, ornamentals, afforestation, woodlot establishment and reforestation. • Purchase and relocation of established trees 	<ul style="list-style-type: none"> • A 'filtering' structure to capture nutrients, pesticides or sediments from a non-point pollution source • Promote infiltration, • Erosion control • Increased biodiversity associated with habitat creation. • Invasive plant management • Sequester carbon • Increases agricultural sequestration of ambient carbon dioxide (CO2) (as long as biomass in trees are kept constant) • Protects waterways and wetlands from eutrophication by retaining some of the nutrients escaping from agricultural fields and barn yards • Provides wildlife habitat and biodiversity • Could generate revenue if integrated with the concept of agro-forestry 	Riparian Management Plan with design (BMP 30) prior to access to funding.

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		1003 60% \$20K	<p>Fencing to Manage Grazing and Improve Riparian Condition and Function: To cover a portion of the costs for:</p> <ul style="list-style-type: none"> Fencing parallel to water's edge to exclude livestock in order to maintain or improve riparian conditions and function. Eligible permanent fencing inclusive of all costs including in-kind labour. Protection of newly established or enhanced riparian buffers (BMP 1002) Temporary Cross fencing to implement rotational, seasonal, rest, swath and extended grazing systems in support of riparian management. Eligible cross fencing will be inclusive of all costs including in-kind labour. <p>Note: Approval of projects will be contingent upon adherence to all federal, provincial, and municipal guidelines and regulations for project design and implementation</p> <p>A. Cross fencing: Eligibility for funding must be based on a plan (Riparian Management Plan, Grazing Management Plan or Biodiversity Enhancement Plan) that identifies the importance and value of cross fencing in dealing with identified environmental risks and achieving environmental benefits.</p> <p>B. Fencing costs: The maximum amount of eligible costs for materials, labour and equipment is \$20.00 (\$10.00 from the program) per metre or \$6.00 (\$3.00 from the program) per foot.</p>	<ul style="list-style-type: none"> Repair and maintenance of existing riparian pasture management systems and equipment (e.g. can't be used to repair existing fence) On-going maintenance costs Opportunity costs associated with payments for land taken out of production. 	<ul style="list-style-type: none"> Protection of surface water from contamination Enhancement of biodiversity Protection of stream banks from destabilization. Protection of riparian vegetation Carbon sequestration Support livestock health. 	<p>Riparian Management Plans prior to access to funding.</p> <p>Grazing Management Plans may be required based on farm activities.</p>
		1004 60% \$20K	<p>Native Range and Restoration or Establishment:</p> <ul style="list-style-type: none"> Seeding and planting of native plant material (grasses, legumes, forbes, shrubs, and trees) and on- 	<ul style="list-style-type: none"> Pasture seeding and establishment costs Pasture renovation Forage management Costs associated 	<ul style="list-style-type: none"> Riparian area may be best protected by enhancements to native vegetation in the surrounding upland Establishment of native species to enhance 	

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			<p>going maintenance of an established or restored site.</p> <p>Note: Native vegetation refers to plant species indigenous to the area. Restoration refers to improving the ecological integrity of disturbed or degraded sites. 'Establishment' refers to an area under different land use and the native species must be planted.</p>	<p>with acquiring/planting invasive plant species</p> <ul style="list-style-type: none"> Opportunity costs associated with payments for land taken out of production Establishing forages as part of the operation's normal crop rotation 	<p>biodiversity</p> <ul style="list-style-type: none"> Compliment management goals of adjoining native habitat land parcels managed by different agencies or individuals Restoration of disturbed sites with contiguous areas of healthy native riparian vegetation 	
		1005 60% \$20K	<p>Grazing Management in Surrounding Uplands:</p> <ul style="list-style-type: none"> Cross fencing to implement rotational, seasonal, rest, swath, and extended grazing systems 	<ul style="list-style-type: none"> Perimeter fencing Pasture seeding and establishment costs Pasture renovation Repair and maintenance of existing riparian erosion control or riparian pasture management systems and equipment (e.g. can't be used to repair existing fence) On-going maintenance costs Opportunity costs associated with payments for land taken out of production. 	<ul style="list-style-type: none"> Supports diverse plant communities and sensitive species Protect water and soil quality Maintenance or improvement of vegetation and animal production parameters Improved range condition Increased animal production Increased length of the grazing season Improved wildlife habitats. 	Grazing Management Plans may be required based on farm activities
		1006 60% \$20K	<p>Improved Stream Crossings: costs associated with structures that demonstrate improved riparian conditions</p> <ul style="list-style-type: none"> new structures improvements and/or repairs to existing structures removal or re-location of existing structures <p>Eligible expenses will include site assessment, engineering design, and materials, labour, and equipment rental associated with earthwork, installation of structures, and re-vegetation work in addition to the constructed works.</p> <p>Note: All projects must be properly designed by an accredited engineering consultant or a qualified professional in accordance</p>	<ul style="list-style-type: none"> On-going maintenance costs Stream crossing projects that are associated with a new or expanded agricultural activity—where no crossing has existed previously 	<ul style="list-style-type: none"> Reduced streambank erosion Improve water quality Enhance biodiversity 	Riparian Management Plans prior to access to funding.

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			with federal, provincial and local government regulations and specifications			
		1007 70% \$20K	<p>Landscape-based group farm riparian management plan project and related on-farm action BMPs (1001-1006): Approval of projects will be contingent upon:</p> <ul style="list-style-type: none"> Project design 60% or more of the linear coverage of the waterbody available to the project. Approval from federal, provincial and municipal agencies as to the merits of a joint project. Preference will be given to project areas considered critical or important habitat. 	<ul style="list-style-type: none"> On-going maintenance costs Costs associated with acquiring/planting invasive plant species Opportunity costs associated with payments for land taken out of production Landscape quality or landscaping type plantings Tree and shrub planting and establishment costs in excess of \$50 per tree/shrub, exclusive of all establishment costs, including in-kind Commercial fruit trees, Christmas trees, ornamentals, afforestation, woodlot establishment and reforestation. Purchase and relocation of established trees 	<ul style="list-style-type: none"> Reduce erosion Improve water quality Improve water infiltration Support regional riparian priorities Reduce impact of invasive plants Maintain or enhance habitat connections across the landscape Improve habitat integrity and biodiversity. Provide critical movement corridors Enhance carbon sequestration 	<p>Riparian Management Plans prior to access to funding.</p> <p>Grazing Management Plans may be required based on farm activities</p>
11	Erosion Control Structures (Riparian)	1101 60% \$20K	<p>Constructed Works:</p> <ul style="list-style-type: none"> Contour Terraces (earthwork, seedbed preparation, seed) Gully Stabilization/Grassed Waterways (earthwork, erosion control matting, silt fencing, seedbed preparation, seed, outlet structure) Bank Stabilization (bank shaping, revetment, gabions, riprap, crib walls, re-vegetation, blanketing and combinations) Drop Inlet Structures and In Channel Control (drop structures) Improved Infiltration of 	<ul style="list-style-type: none"> Systematic tile and other subsurface drainage systems that are not an integral part of erosion control structure. Activities related to constructing or repairing drainage systems, where the purpose is to remove ponded water or draining saturated soils, are not eligible for funding. Converting open channels to closed drainage systems. Construction of new 	<ul style="list-style-type: none"> reduce soil erosion by water to remove surface water at a non-erosive velocity to reduce sediment content in runoff water to reduce peak runoff rates to installations downstream to improve water quality diversify and cover for wildlife restore a natural channel form reduce velocity and the erosive force of runoff water. improved infiltration of concentrated water flow through waterways 	

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			<p>Concentrated Water Flow (filter trenches, filter wells, diffusing wells, etc.)</p> <ul style="list-style-type: none"> Retention Ponds and Erosion Control Dams. <p>Eligible expenses will include site assessment, engineering design, and materials, labour, and equipment rental associated with earthwork, installation of structures, and re-vegetation work in addition to the constructed works.</p> <p>Note: All projects must be properly designed by an accredited engineering consultant or a qualified professional in accordance with federal, provincial and local government regulations and specifications</p>	<p>drainage channels or repair of existing drainage systems (e.g. drainage ditch clean-outs)</p> <ul style="list-style-type: none"> Costs of tile and installation that exceeds 30 metres for riparian drop inlet structure projects. Installation of drop inlets for drainage of ponded surface water (e.g. not associated with an erosion control structure). Header tile systems Tile outlet structures associated with new tile drainage installations Retrieving topsoil from areas of deposition and transporting it upslope to eroded hillsides. Construction and land improvement activities not associated with soil erosion control 	<ul style="list-style-type: none"> reduce storm runoff flow rates trap sediments 	
		1102 60% \$20K	<p>Engineering design work. This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)</p>			
12	Erosion Control Structures (Non Riparian)		Category Dropped			
13	Erosion Control Land Management (soils at risk)		Category Dropped			
14	Improved Cropping Systems		Category Dropped		<ul style="list-style-type: none"> All items available in other categories mainly covered by Cat. 33 	
15	Winter Cover Crops		Category Dropped			
16 30% \$2.5K	Improved Pest Management	1601	<p>Equipment modification for improved application</p> <p>A. Tower sprayers: Funding may can be provided for the additional incremental costs of converting an existing sprayer into a tower sprayer or of purchasing a new tower</p>	<ul style="list-style-type: none"> Common pest management practices: Pest management practices common to the industry and well understood will not be funded. Non-wildlife pests: 	<ul style="list-style-type: none"> Minimize human exposure to chemical pesticides in food and the environment Reduced risk of contamination of water, soil, air, and habitat Reduced risk of increasing pest resistance 	Integrated Pest Management plan will be required

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			sprayer B. Tillage equipment: The incremental costs to modify conventional tillage equipment for the purposes for reducing pesticide are eligible for funding. C. Orchard tillage equipment: 50% of the value of a "Weed Badger" or like piece of equipment is eligible for funding to a maximum of \$1200 from the program.	Funding will not be provided to assist with the control of non-wildlife, pest species that are commonly found on farms and ranches in British Columbia. <ul style="list-style-type: none"> P. ramorum: Any projects related to control of P. Ramorum must be based on a revised or new Integrated Pest Management Plan that deals with all pest issues on the farm. Implementing practices from a revised IPM plan: One year of funding can be provided to assist producers to become familiar with new IPM practices identified in a revised IPM plan. 	to chemical pesticides <ul style="list-style-type: none"> Reduced risk of chemical pesticides harming non-target or beneficial organisms 	
		1602	Information collection and monitoring			
		1603	Biological control agents <ul style="list-style-type: none"> IPM practices: Where uses of IPM practices are new to the producer, one year of funding can be provided to assist producers to become familiar with these techniques in accordance with an IPM plan. IPM Plan must be in place. 			
		1604	Cultural control practices			
17 30% \$20K	Nutrient Recovery from Waste Water	1701	Recycling of waste water streams from milkhouses, fruit and vegetable washing facilities, and greenhouses in order to recover nutrients		<ul style="list-style-type: none"> Reduced risk of contamination of surface and groundwater from the effluent from agricultural production facilities 	NMP required for selected sectors
		1702	Engineering design work. This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)			
18	Irrigation Management Entire Category is to be capped as follows: Total of \$500,000 to be allocated – \$150,000 for Lower Mainland and Vancouver Island and \$350,000 for BC Interior	1801 30% Cap - \$5k	Irrigation equipment modification/ improvement to increase water and nutrient use efficiency. <ul style="list-style-type: none"> Drip Irrigation lateral lines, emitters and filters Controllers, electric valves and low voltage wiring to valves Injection equipment for system treatment or fertilizer injection Conversion of existing systems to high efficiency low pressure center pivot systems. Irrigation scheduling equipment such as soil moisture sensors. System must be replacing an existing irrigation system, new systems are not 	<ul style="list-style-type: none"> Mainlines and sub main piping Pumps, electrical panels and supply unless eligible under practice code 1803. Installation costs of equipment In kind services by applicant Wires and posts for hanging drip irrigation lines 	<ul style="list-style-type: none"> Increasing irrigation system efficiency and implementing irrigation scheduling and climate monitoring will support the commitment made by the province's Living Water Smart plan for the agriculture industry to become more efficient. Reducing water use will reduce impacts on streams. Fertilizer injectors improve efficiency and reduce loss of nutrients into groundwater and streams. 	Certified irrigation plan required for all applications under this category. Cost of plan is eligible under category 29

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			<p>eligible.</p> <ul style="list-style-type: none"> An efficiency increase of 15% must be identified in the certified plan. Injection and irrigation scheduling equipment are eligible only if part of a system efficiency upgrade funded by the program. 			
		1802 50% Cap - \$2k	<p>Climate stations or improved irrigation management</p> <ul style="list-style-type: none"> Weather station Data transmission unit by either cell or satellite Climate station must be connected to the Farmwest web site Funding for 50% of annual data transmission costs is eligible for farmers from the BCAC irrigation management escrow funds Preference will be given to areas not currently serviced by weather stations connected to the Farmwest website 	<ul style="list-style-type: none"> Labour is not eligible. 	<ul style="list-style-type: none"> Providing climate data for regions that currently do not have adequate climate data available will be useful to all producers in the region. Posting data on Farmwest website will allow irrigation scheduling calculator to access data. 	
		1803 30% Cap - \$5k	<p>Replacement of fossil fuel irrigation motors with electric motors</p> <ul style="list-style-type: none"> High efficiency electric motors High efficient pumping systems Electric power supply line installation to pumping site. High efficiency pumps and motors are only applicable when converting from an existing fossil fuel driven motor. Motor must be rated as high efficiency by BC Hydro. Certified designer has to sign off on pump efficiency. Higher efficiency pump is only applicable if a high efficiency electric motor is also purchased. Pump must be matched to irrigation system specifications as outlined in the certified irrigation plan. Funding of power line is only eligible as part of costs to convert to electric from a fossil fuel motor. 	<ul style="list-style-type: none"> Electric control panel, switchgear, motor support and shed not eligible Labour for pumps and motor are not eligible 	<ul style="list-style-type: none"> Reduces greenhouse gas emissions caused by fossil fuel use. High efficiency motors and pumps will reduce energy consumption. 	Certified irrigation plan required for all applications under this category. Cost of plan is eligible under category 29
19	Buffer, Hedgerow and Shelterbelt Establishment	1901 60%	<p>Establishment of shelterbelts:</p> <ul style="list-style-type: none"> The desired outcome of the shelterbelt establishment 	<ul style="list-style-type: none"> Establishment of trees or shrubs that are intended for harvesting for 	<ul style="list-style-type: none"> Improve water quality Capture run-off Protection soil from wind 	

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		\$15K	<p>must be identified in the plan and reflected in the proposed design and species mix.</p> <ul style="list-style-type: none"> Shelterbelts must be multi-row (2 rows minimum). Three consecutive years of establishment costs for multi-row planting of tree and shrub shelterbelts may be eligible for approved projects. These costs could include pre-establishment site preparation, planting and up to two years of maintenance of the plantings. Project funds would end at the end of three years or the termination of the Growing Forward funding whichever comes first. In-kind valuation for establishing shelterbelts to be 100% of materials cost to a maximum of \$5.00 per metre (\$1.50 per foot) of shelterbelt. 	<p>economic benefit within 15 years such as fruit orchards, Christmas trees, ornamental nursery stock</p> <ul style="list-style-type: none"> Block plantings Buffer, hedgerow and shelterbelt renovations costs incurred after establishment, or the purchase and relocation of established trees Buffer, hedgerow and shelterbelt rejuvenation Landscaping type plantings. Tree and shrub planting and establishment costs in excess of \$50 per tree exclusive of establishment costs, including in-kind. Consultative service for suitable species, composition and maintenance not covered in 1901 	<p>erosion</p> <ul style="list-style-type: none"> Enhance snow trapping Micro climate enhancement, Odour, noise and dust mitigation Enhance biodiversity Improve habitat diversity and connectivity Protect structures Shelter livestock and crops Improve irrigation efficiencies Carbon sequestration Increases agricultural sequestration of ambient carbon dioxide (CO₂) (as long as biomass in trees are kept constant) Reduces wind erosion Reduce dust and odour Reduce unsightliness (out-of-site-out-of-mind) Provides wildlife habitat and biodiversity Could generate revenue if integrated with the concept of agro-forestry 	
		1902 60% \$15K	<p>Tree and shrub materials required for shelterbelt establishment</p> <ul style="list-style-type: none"> Tree materials for planting around fields and buildings 			
		1903 60% \$10K	<p>Establishment of buffers, and hedgerows :</p> <ul style="list-style-type: none"> The desired outcome of the buffer or hedgerow establishment must be identified and reflected in the proposed design and species mix. Buffers and hedgerows can be single or multi-row. Three consecutive years of establishment costs for multi-row planting of tree and shrub buffer and hedgerow materials may be eligible for approved projects. These could include pre-establishment site preparation, planting and up to two years of maintenance of the plantings. Project funds would end at the end of 			

Category Code / Cost Share / Funding Cap	BMP Category	Practice Code (individual Cost Share & Funding Cap)	Eligible BMPs and Costs	Ineligible BMPs and Costs	Benefits	Linkages to other plans or actions e.g., need for Nutrient Management Plan
			<p>three years or the termination of the Growing Forward funding whichever comes first.</p> <ul style="list-style-type: none"> In-kind valuation for establishing buffers and hedgerows to be 100% of materials cost to a maximum of \$5.00 per metre (\$1.50 per foot) of buffer or hedgerow. 			
		1904 60% \$10K	Tree and shrub materials required for buffer, and hedgerow establishment			
20	Alien Invasive Species Control		Category Dropped			
21	Enhancing Wildlife Habitat and Biodiversity		Category Dropped			
22	Species at Risk		Category Dropped			
23	Preventing Wildlife Damage		Category Dropped			
24	Nutrient Management Planning (NMP)	2401 100% for first \$1K 50% to max of \$2K for remainder	<p>Consultative services to develop nutrient management plans, planning and decision support tools</p> <ul style="list-style-type: none"> maximum of \$250 can be used for one time manure, soil or compost analysis as part of the eligible costs of the nutrient management plan (on the condition that raw nutrient data – free of farm identification – will be collected for environmental health indicators reporting purposes) producers may be eligible for a second nutrient management plan at 50% of the original BMP funding in a subsequent year, subject to sign-off of adequate record keeping on the original plan and availability of funds 		<ul style="list-style-type: none"> Minimized risk of water pollution by loss of nitrogen or phosphorus via runoff or leaching Minimized risk of air pollution by loss nitrogen as ammonia or N₂O Advice to supply crops with nutrients at the appropriate rate, timing and with appropriate methods for optimal crop yield and quality 	Linked to BMPs for soil/manure
25	Integrated Pest Management Planning	2501 50% \$2K	<p>Consultative services to develop integrated pest management plans, planning and decision support tools</p>		<ul style="list-style-type: none"> Minimize human exposure to chemical pesticides in food and the environment Reduced risk of contamination of water, soil, air, and habitat Reduced risk of increasing pest resistance 	

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					<ul style="list-style-type: none"> to chemical pesticides • Reduced risk of chemical pesticides harming non-target or beneficial organisms 	
26	Grazing Management Planning	2601 100% for first \$1K 50% to max of \$2K for remainder	Consultative services to develop range and grazing management plans, planning and decision support tools		<ul style="list-style-type: none"> • Supports diverse plant communities, sensitive species, • Protect water and soil quality. • Maintenance or improvement of vegetation and animal production parameters. • Improved range condition, • Increased animal production, • Increased length of the grazing season • Improved wildlife habitats. 	
27	Soil Erosion Control Planning		Category Dropped			
28	Biodiversity Enhancement Planning		Category Dropped			
29	Irrigation Management Planning	2901 100% for first \$500 50% to max of \$1K for remainder	Consultative services for preparing certified irrigation plans. <ul style="list-style-type: none"> • Site investigation, plan and quote preparation • Site inspection upon job completion • Certified designer must sign and seal each plan for project to be eligible to program. • Certified designer must inspect project after completion and send a signed completion form to program before payment for plan preparation and project costs are made. • An invoice from Certified Irrigation Designer must be submitted to producer outlining services. 		<ul style="list-style-type: none"> • Developing a certified irrigation plan for all projects under category 18 will help to ensure that systems are efficient and designed correctly. • A system for project inspection and completion can be initiated using certified designers. 	Linked to Category 18. All projects except 1802 require certified plans.
		2902 50% \$2K	Water Management Planning <ul style="list-style-type: none"> • consultative services for water management planning to deal with issues arising from excess water (including mapping of existing subsurface drainage systems). 		<ul style="list-style-type: none"> • Guidance for this BMP can be derived from the EFP Drainage Management Guide 	

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30	Riparian Health Assessment	3001 100% for first \$1K 50% to max of \$3K for remainder	<p>Consultant fees to conduct riparian health assessment & produce report for farmer with BMP recommendations that include a design layout, species list and maintenance protocols.</p> <ul style="list-style-type: none"> • Planning and decision support tools (e.g. computer software, aerial photos). • Maps and land resource information costs. • Data collection, materials and sampling and analysis costs by consultant. • Design work by consultant for water course and wetland areas and riparian buffer strip projects • Report preparation by consultant. • Plan review with producer 	<ul style="list-style-type: none"> • Time, effort and travel by the Producer • Professional services not directly related to riparian health assessment and buffer strip planning • Field-specific agronomic practices (e.g. variable rate application of crop inputs) • Costs associated with developing engineer reports for drainage projects. 	<ul style="list-style-type: none"> • Ecological measuring stick to assess the impact of past and current riparian management practices • Baseline from which recommendations for new BMPs to improve riparian health can be developed • Evaluate the effectiveness of riparian BMPs in improving riparian health and water quality. 	Linked to BMP 10 and 11
31	Methane (CH ₄) Emission Reduction Projects must reduce methane emissions from agricultural operations by prevention, suppression or combustion of carbon dioxide.	3101-1 30% \$30K	<p>Covered manure storage</p> <ul style="list-style-type: none"> • Floating contact cover (whole sheet) • Floating contact cover (aggregated sections – rain water cannot be collected) • Water collection system and pumps • Assessment, design and construction costs are eligible 	<ul style="list-style-type: none"> • Roof structures that do not ensure a sealed headspace above the manure or direct contact between the cover and the manure • Storage structures for manure and other agricultural wastes • Rain water collection systems or pumps or parts of a larger system that are not directly associated with the manure storage cover • Open flares • Gas collection and conveyance systems or part of a system that is not directly associated with methane collection from the manure storage or anaerobic reactor tanks • Any infrastructure on a legal property which is not assessed as a farm for tax purposes • Practice code 3101-1 and 3101-2 are not stackable, meaning that 	<ul style="list-style-type: none"> • Suppresses methane production (by limiting exchange with free air and thereby moving biochemical equilibrium towards less methane generation). • Reduces ammonia emission from storage of manure (still need to follow through with improved application technique to realize full ammonia reduction). • Reduces odour from storage of manure (odour reduction is approximately equal to % surface area covered). • Increases storage capacity (if rain water is pumped off the cover). 	
		3101-2 30% \$70K The total funding available for this entire sub-category is to be capped at \$280K for 2009/2010	<p>Covered manure storage in combination with methane collection and renewable energy production from collected methane</p> <ul style="list-style-type: none"> • Sealed cover (tent-like structure or self inflated dome or lid) for anaerobic reactors • Floating contact cover (whole sheet) for liquid digester effluent storage • Infrastructure related to pasteurization of applicable imported non-agricultural feedstock 		<ul style="list-style-type: none"> • Prevents produced methane from escaping to atmosphere and moves the carbon from methane form to carbon dioxide form on a 1:1 basis through combustion (by creating a sealed headspace over the manure from which methane is collected for subsequent combustion through boilers, engines etc.. The conversion from methane to carbon dioxide represents a 23 	

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			<ul style="list-style-type: none"> Methane utilization infrastructure such as biogas boilers, co-gen/micro turbine or biogas clean-up and upgrading equipment Heat exchange system to utilize heat radiated by methane utilization equipment Assessment, design and construction costs are eligible Consultant work related to acquisition of discharge permit under EMA and carbon offset verification and validation 	applicants may only apply for one or the other.	<p>fold reduction in greenhouse gas emissions).</p> <ul style="list-style-type: none"> Reduces ammonia emission from storage of manure (still need to follow through with improved application technique to realize full ammonia emission reduction). Reduces odour from storage of manure (odour reduction is approximately equal to % surface area covered).Increases storage capacity (if water is pumped off the cover or if the cover is built to shed rain water, e.g. a dome or "tent-like" structure). 	
		3102 30% \$20K	<p>Engineering design work. This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEEA)</p>			
		3103	<p>Improved ruminant feed utilization</p> <ul style="list-style-type: none"> No identified eligible items available in this category for 2009/2010 			
32	Nitrous Oxide (N ₂ O) Emission Reduction Projects must reduce nitrous oxide emissions from agricultural operations by prevention or suppression	3201 50% \$5K	<p>Improved drainage in corn and forage fields as proposed by a water management plan</p> <ul style="list-style-type: none"> Additions to existing drainage systems Cleaning or repair of existing drainage systems 	<ul style="list-style-type: none"> Drainage work on parcels not currently in intensive forage or corn production 	<ul style="list-style-type: none"> Prevention of nitrous oxide (N₂O) emissions (by avoiding nitrification conditions through reduction of time and/or area of water logged soils) Improved crop production conditions 	Water management plan (not an irrigation plan) refer to EFP Drainage Management Guide
		3202 30% \$30K	<p>Precision farming applications that reduce input application and overlap</p> <ul style="list-style-type: none"> GPS guidance systems On-line field mapping equipment On-line input application control systems guided by high resolution electronic field maps and GPS 	<ul style="list-style-type: none"> Any precision farming applications in areas where field size and distribution, ditch layout and/or lay of land prevent significant utility form using GPS-guided equipment. 	<ul style="list-style-type: none"> Reduces nitrous oxide (N₂O) emissions as a result of reduced overlap and higher dosing precision when applying inputs such as fertilizer Reduces agricultural carbon dioxide (CO₂) emissions (by reducing the use of fossil fuel) Decreased operating costs and less dependence on highly volatile input prices 	

Category Code / Cost Share / Funding Cap	BMP Category	Practice Code (individual Cost Share & Funding Cap)	Eligible BMPs and Costs	Ineligible BMPs and Costs	Benefits	Linkages to other plans or actions e.g., need for Nutrient Management Plan
33	Carbon Dioxide (CO ₂) Emission Reduction Projects must either reduce agricultural carbon dioxide emissions or reduce the concentration of CO ₂ in the atmosphere or offset carbon dioxide emissions from other sectors	3301	Consultative services for energy efficiency <ul style="list-style-type: none"> No identified eligible items available in this category for 2009/2010 			
		3302	Replacement of fossil-fuel-driven pumps, motors with electrical pumps and motors <ul style="list-style-type: none"> No identified eligible items available in this category for 2009/2010 			
		3303	Solar and wind technology for powering previously fossil-fuel dependant stationary farm equipment and replacement of diesel generators <ul style="list-style-type: none"> No identified eligible items available in this category for 2009/2010 			
		3304 30% \$50K	Replacement of fossil-fuel dependant space heating with renewable heating <ul style="list-style-type: none"> Solarthermal infrastructure Geothermal infrastructure Heat pumps Biomass boilers Heat exchangers and heat conveyance infrastructure Warm water tanks Assessment, design and construction costs are eligible 	<ul style="list-style-type: none"> Warm water tanks, heat exchange and heat conveyance infrastructure that will not be connected to a new renewable heat source 	<ul style="list-style-type: none"> Reduces agricultural carbon dioxide (CO₂) emissions (by reducing the use of fossil fuel) Decreased operating costs and less dependence on highly volatile diesel prices 	For 2009/2010 a project justification document will be required. An energy assessment (3301) will be required after March 31, 2010
		3305 30% \$30K	Equipment for no-till/reduced tillage <ul style="list-style-type: none"> Direct seeding equipment Seed drills No-till retrofit kits Consultation for efficient no-till management Zero-till equipment: 50% of the value of a zero-till drill is eligible for funding assistance. Program policy is that 50% of the cost of a zero-till drill is eligible for assistance. Of that amount, the program can provide a maximum of 30% of the funding. 	<ul style="list-style-type: none"> Equipment for no-till/reduced tillage in regions that already have significant uptake or where significant sequestration is unlikely Larger tractors to pull high draught implements Replacing or renewing already existing direct seeding equipment chaff collectors and chaff spreaders installed on combines 	<ul style="list-style-type: none"> Reduces agricultural carbon dioxide (CO₂) emissions (by conserving soil organic matter) Increases agricultural sequestration of ambient carbon dioxide (CO₂) (if maintained under no-till regime) 	
		3307 30%	Thermal energy efficiency improvements that increase insulation <ul style="list-style-type: none"> Thermal curtains and 	<ul style="list-style-type: none"> Thermal dividers and insulation for structures that are not directly related to agricultural 	<ul style="list-style-type: none"> Reduces agricultural carbon dioxide (CO₂) emissions (by reducing the use of fossil energy for heating) 	For 2009/2010 a project justification document will

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		\$30K	<p>other dividers</p> <ul style="list-style-type: none"> Improved insulation Management optimization systems High priority items as specified in an energy conservation plan developed under BMP 3301 	production	<ul style="list-style-type: none"> Decreased operating costs 	<p>be required.</p> <p>An energy assessment (3301) will be required after March 31, 2010</p>
		3308 30% \$10K	<p>Lighting efficiency improvements</p> <ul style="list-style-type: none"> Low energy lighting equipment High priority items as specified in an energy conservation plan developed under BMP 3301 	<ul style="list-style-type: none"> Low energy lighting equipment for structures that are not directly related to agricultural production 	<ul style="list-style-type: none"> Reduces agricultural carbon dioxide (CO₂) emissions by reducing the use of electricity (BC electricity is about 90% carbon neutral but with the increased need for more electricity in the future it is possible that the proportion of CO₂-emitting electricity production will go up) Decreased operating costs 	<p>For 2009/2010 a worksheet document will be required.</p> <p>An energy assessment (3301) will be required after March 31, 2010</p>
		3309 30% \$30K	<p>Engineering design work.</p> <p>This practice code will stand alone if project does not proceed for economic, technical or environmental reasons (e.g., CEAA)</p>			