



 **CANADIAN
AGRICULTURAL
PARTNERSHIP**
Innovate. Grow. Prosper.

AGRICULTURE STEWARDSHIP PROGRAM

PROGRAM GUIDELINES



Agriculture
and Land



PROGRAM GUIDELINES

AGRICULTURE STEWARDSHIP PROGRAM

Program Policy: Supporting clean growth in the Sector and progress towards environmental sustainability, climate change mitigation and adaptation which will increase overall environmental sustainability.

CAP Outcome: Increase environmental sustainability.

CAP Priority Area: Environmental sustainability and climate change.

PROGRAM DESCRIPTION

The *Agriculture Stewardship Program* is a suite of initiatives designed to increase environmental sustainability, climate change mitigation and adaptation by providing technical and financial support to encourage producers to voluntarily implement Beneficial Management Practices (BMPs). Activities include soil conservation, soil health, nutrient management, integrated pest management, riparian management, water quality, water efficiency, energy efficiency and on-farm storage. The program will support environmental protection activities and promote the sustainable use of natural resources.

- I. The **Beneficial Management Practices Sub-Program** will support the implementation of BMPs (for eligible BMPs see Appendix A of this document) on a cost-shared and/or per acre funding basis.
- II. The **PEI Clean Technology Innovation Sub-Program**¹ will support the adoption of clean technology, which has demonstrable effects on the reduction of the environmental impact of the agriculture sector. The Sub-Program will prioritize projects that invest in and/or promote two key areas of clean technology for the Sector: precision agriculture and/or agri-based bioproducts.

¹Note: PEI Clean Technology Innovation Sub-Program was developed in order to access Agriculture and Agri-Food Canada's (AAFC) Agriculture Clean Technology Program. As such, final determination of project approval and funding resides with AAFC.

I. BENEFICIAL MANAGEMENT PRACTICES SUB-PROGRAM

Eligible Applicants

- Agriculture Producers with valid EFPs; and
- Mi'kmaq and other Indigenous groups with valid EFPs.

Eligible Activities

- Education and awareness building activities for producers related to BMPs;
- Promotion, development, and implementation of BMP practices;
- Cost-shared financial support for the implementation of Beneficial Management Practices (BMPs) targeted at specific outcomes, BMP categories will include but are not limited to:
 - Soil;
 - Water;
 - Energy; and
 - Integrated Pest Management.

Note: For detailed information regarding BMP Category-specific eligible activities please see Appendix A of this document.

Ineligible Activities

- Items which are considered normal farm operating expenses;
- Large capital items (i.e. land and buildings), except where BMPs involve cost-shared construction of environmentally beneficial structures (i.e. manure storage); and
- Normal and on-going operating and maintenance costs incurred by recipients

Funding

- For detailed information regarding BMP Category-specific funding amounts please see Appendix A of this document.
- A maximum of \$75,000 per farming operation over the life of the CAP Framework Agreement (2018-2023) is permitted.

II. PEI CLEAN TECHNOLOGY INNOVATION SUB-PROGRAM

Eligible Applicants

- Mi'kmaq First Nations and other Indigenous Organizations with valid EFPs;
- Agricultural Producers with valid EFPs;
- Agri-processors with valid EFPs;
- Provincial/Territorial Governments; and
- Others may be considered upon special request.

Eligible Activities

Activities pertaining to clean technology projects that invest in and/or promote *precision* agriculture and *agri-based bioproducts*, which benefit the Sector. These activities are of the following nature and type:

- Basic and applied research, which could include public-private collaboration;
- Developing clean technologies;
- Piloting and evaluating clean technologies;
- Demonstration and knowledge and technology translation/transfer activities;
- Commercializing clean technologies;
- Accelerating adoption of on-farm clean technologies; and
- Sectoral awareness and communications-building activities that promote clean technologies.

Examples of the above mentioned activities may include, but are not limited to:

- Developing and improving harvesting/production systems that enhance the quality of crops harvested by farmers for use in the production of bioproducts;
- Developing technologies in support of bioproducts;
- Developing and integrating bioproduct value chains;
- Developing, commercializing and/or demonstrating precision agriculture technologies, such as variable rate equipment, sensors, environmentally beneficial precision agriculture applications of aerial drones, and farm management software;
- Assistance to help individual producers, groups and organizations promote or to undertake education/training, audit/assessments, planning, that support the adoption of clean technologies;
- Incentives to adopt clean technologies in priority areas in support of bioproducts and precision agriculture;

- Implementing activities to help small and medium-sized enterprises (SME) demonstrate commercial potential of technologies required to produce bioproducts that are themselves used in the manufacture of end-product materials;
- Commercializing technology developed by AAFC and other researchers for SME; and
- Commercializing technologies that can be used in the production of biofuels/biochemical.

Ineligible Activities

Ineligible activities include, but may not be limited to:

- Activities that do not provide a direct benefit to the Sector;
- Activities related to aquaponics food production, and to aquaculture, seaweed, fish and seafood production and processing;
- Development and enforcement of regulations; and
- Automated applications that do not result in GHG efficiencies or other direct environmental benefits (i.e., automated steering systems, robotic milking systems, etc).

Expected Results

The expected results of this program are:

- Increased investment in clean technology in the agriculture and agri-food sector;
- Increased development, demonstration, commercialization and adoption of clean technologies in agriculture; and
- Improved environmental performance of Canada's agriculture and agri-food sector in the long term.

Eligible Expenses

Eligible expenses are categorized under standard cost categories and must be presented in the Budget submitted for the project, using the standard cost categories.

- **Administration** costs¹ necessary to complete the project, such as:
 - Office supplies and materials;
 - Telecommunications/audiovisual;
 - Postage and freight.
- **Salaries/Benefits** directly related to completing the activities of the project, including:
 - Labour, including wages/salaries and benefits;
 - Specific per diem fees of personnel working directly on eligible project activities.
- **Travel** costs directly related to the project, as permitted by provincial/territorial governments directives and policies, such as:
 - Meals;
 - Incidentals;
 - Accommodations;
 - Transportation.
- **Contracted Services** constitutes professional or specialized services needed to undertake eligible project activities and for which contracts are entered into, such as:
 - Inspection;
 - Consultant/expert services;

- Financial auditing (required for project);
- Environmental assessment;
- Project management;
- Research.
- **Capital Expenditures** are tangible assets that are purchased, developed or otherwise acquired and are required for the execution of the project, including:
 - Machinery, equipment, and software purchase and installation costs up to a maximum of \$200,000 of DAL contribution per capital item.
- **Other Direct Project Costs** for project-related deliverables, such as:
 - Intellectual property registration and intellectual property licensing fees related to commercialization;
 - Rental of facilities, equipment or machinery;
 - Translation and production of materials in the second official language, except where the Government of Canada is responsible for the costs associated with translation;
 - Other reasonable costs directly related to the project, at the discretion of the DAL.

Note¹: Administration costs may not exceed 8% of total eligible project costs.

Note: Expenses incurred prior to the effective date and after the project completion date established by the Program will not be eligible for funding. Any costs incurred prior to the signing of a Funding Agreement will be incurred solely at the Applicant's risk without any obligation of payment by the Program.

Ineligible Expenses

Ineligible expenses include, but may not be limited to:

- Normal and on-going operations and maintenance costs incurred by the Applicant or ultimate recipients;
- Salaries and benefits of government staff;
- Tax credits or rebates;
- In-kind contributions and cash from future operations;
- Travel to conferences;
- Hospitality;
- Infrastructure costs, such as;
 - Renovations
 - Site improvements
 - Leasehold improvements
 - Building purchase
 - Construction
- Capital expenditures that are as follows:
 - Capital items not specifically required for the execution of the project;
 - Capital items over \$200,000 of the DAL's contribution;
 - Capital items that do not appreciably reduce negative environmental impacts (i.e., automated steering systems, robotic milking systems, etc.);
 - Capital items that are multi-purpose/commonly-used equipment, including smartphones, computer hardware and software, digital cameras and global positioning systems (GPS).

Funding

Eligible project costs will normally be shared between the DAL and the Applicant as follows:

- A maximum of 50% contribution from the DAL and a minimum of 50% contribution from the applicant.

As per federal government guidelines, projects benefiting Indigenous peoples or other underrepresented groups, may receive up to 75% in Program funding toward total eligible project costs. For such projects, the cost-share between the DAL and the applicant could be as follows:

- A maximum of 75% contribution from the DAL and a minimum of 25% contribution from the Applicant.

The Applicant must clearly indicate all sources of funding for the project, including their contribution and other sources of funding, including:

- Federal government departments and agencies;
- Provincial/Territorial Governments;
- Non-Government partners (i.e., industry stakeholders), such as:
 - Industry associations and networks;
 - Businesses;
 - Academic and research institutions, such as universities and colleges.

The Applicant must demonstrate that the funding will be sufficient to support overall project costs.

Application Requirements

Applicants must submit a full application to be considered for funding. The application package consists of a completed PEI Clean Technology Innovation Sub-Program Application Form, a Project Work Plan and Budget, and any additional supporting documentation as requested by the DAL to fully assess the project.

Assessment Criteria

Applications to the Program will be assessed on the following criteria. DAL officials will consider whether the project:

- Supports the Program's objective and priorities;
- Initiates change to reduce GHG emissions through the development and adoption of clean technologies;
- Reduces environmental impacts and lowers GHG emissions;
- Benefits PEI and Canadian agricultural producer and other stakeholders.

Other considerations include:

- If the Applicant has previously received funding through the Program;
- State of adoption by the Sector of the clean technology to which the project pertains;
- Experimentation/testing of new, innovative clean technologies for the Sector to learn what works and what does not work; and
- Benefits to underrepresented groups (i.e., Indigenous Peoples, women, and youth, etc.).

Note: Technical and financial aspects of the projects will also be assessed by DAL subject matter experts.

Additional Information

- The DAL may consult with the Applicant to obtain clarification on details of the project and/or for additional information, where deemed necessary for the assessment.
- The DAL may modify the service standard to reflect any delays in the Applicant providing supplementary information.
- Information provided in the completed application will be used to assess the project, along with any additional information that might be requested by the DAL.
- Once the assessment process is complete, the Applicant will be sent an approval or rejection notification letter. If the project is approved for funding, the letter will specify the level of funding awarded and outline any other conditions that may apply. On approved projects, a DAL official will work with the Applicant to complete a Funding Agreement.
- Applications under this Program will be assessed by an adjudication committee, Chaired by the Deputy Minister of Agriculture and Land.
- The Program reserves the discretion to give precedence to projects that fall within the Program's priorities, listed in the Program Description section of this document.

CAP INELIGIBLE ACTIVITIES

- Business Risk Management-type activities (e.g. activities which are covered by AgriStability, AgriInvest, AgriInsurance, AgriRecovery and AgriRisk);
- Purchase and/or implementation of items which are considered normal or on-going farm operating expenses, except as otherwise specified;
- Purchase of common items that can be used for multiple purposes (e.g. digital cameras, GPS, smartphones, etc.), except as otherwise specified;
- Activities which do not provide a direct benefit to the Sector (e.g. demonstration of new technologies which are unrelated to agriculture and/or agribusiness);
- Activities related to aquaponics food production, and to aquaculture, seaweed, fish and seafood production and processing (exception: international marketing and traceability activities for fish and seafood);
- Tax credits or rebates; and
- Development and/or enforcement of regulations;

REGIONAL COLLABORATION

Projects that are assessed to demonstrate benefits and impacts to more than one Atlantic province may be eligible for funding on a regional basis.

PUBLIC TRUST

Projects approved for funding under the Canadian Agricultural Partnership which have demonstrable links to increasing public trust may be eligible for additional project funding.

EVALUATION AND CONTROL

A complete evaluation of this program is planned to ensure that the objectives and results are achieved and to assess the relevance of its renewal.

GUIDING PRINCIPLE

CAP programs are available to all Canadians who are eligible to participate in those programs. Wherever possible, the needs of under-represented groups, including Indigenous Peoples, women, youth, and persons with disabilities were considered during program development.

HOW TO APPLY

Completed applications may be submitted to the attention of the Agri-Environmental Program Officer via regular mail or email.

E-Mail Applications:

Applications may be submitted via email at agstewardship@gov.pe.ca
Please include the program name in the subject line.

Regular Mail Applications:

Applications may be submitted via regular mail at:
PEI Department of Agriculture and Land
11 Kent Street
PO Box 2000
Charlottetown, PE
C1A 7N8
(902) 368-4880 (telephone)
(902) 368-4857 (facsimile)

DEFINITIONS

Agri-Based Bioproducts

For the purposes of the PEI Clean Technology Innovation Sub-Program, agri-based bioproducts shall be understood to be renewable products, other than food and feed, which are derived from agricultural resources or wastes, such as manure and crop residues (AAFC).

Environmental Farm Plan (EFP)

A plan developed to help farmers operate their farm in a way that is environmentally sustainable, socially acceptable and economically viable.

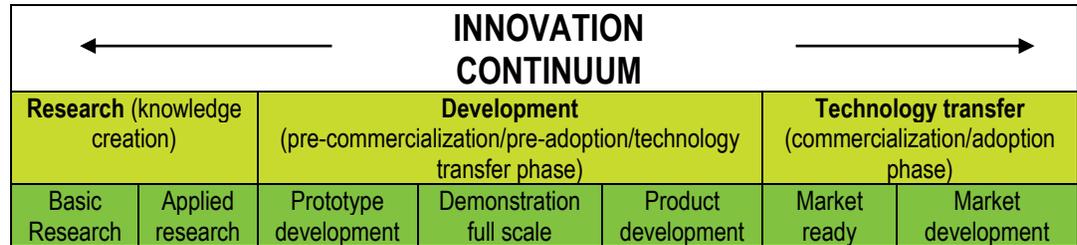
Innovation

For the purposes of the PEI Clean Technology Innovation Sub-Program, innovation shall be defined by one of the following:

- An invention, new technology, new process, or new service that is not currently available in the marketplace;
- Significant modifications to the applications of existing technologies, processes or services that are applied in a setting or condition for which current applications are not possible or feasible; and/or
- An improvement to an existing technology, process or service that represents a significant (generally patentable) improvement in functionality, cost or performance of goods and services that are

considered state of the art or new to the industry/sector (AAFC).

Below is a visual chart outlining the innovation continuum:



Precision Agriculture

For the purposes of the PEI Clean Technology Innovation Sub-Program, precision agriculture shall be understood to be an approach that uses a wide range of technologies to gather and process data for the purpose of guiding targeted actions that improve the sustainability, efficiency and productivity of agricultural operation.

Priority Areas

The six broad agriculture and agri-food priority areas set out in the Canadian Agricultural Partnership Multilateral Framework Agreement.

APPENDIX A: Eligible Best Management Practices (BMPs)

Soil Management: Erosion Control Structures BMP

Purpose	The installation of erosion control structures reduces topsoil loss due to erosion and helps to prevent the contamination of surface and/or groundwater from materials bound to the eroded soil particles.
Eligible Activities	<ul style="list-style-type: none"> • Construction of diversion terraces, grassed waterways and farmable berms.

Eligible Expenses	<ul style="list-style-type: none"> • Soil excavation costs; • Field consolidation work; • Erosion control matting, silt fencing, rock, straw and energy dissipaters; • Seedbed preparation, fertilizer, lime, and grass seed; • Surface inlets and culverts; and • Silt retention ponds.
Ineligible Expenses	<ul style="list-style-type: none"> • Water control structures solely for subsurface drainage
Project Requirements	<ul style="list-style-type: none"> • All construction work must be completed by September 15 and should only be performed <i>after</i> discussing the work plan with a DAL Project Advisor; • Erosion control structures are to be seeded immediately after construction with a recommended grass/cereal mix and then immediately stabilized with erosion control matting as prescribed by the Project Advisor; • Project construction work must be completed as per a standard approved by the DAL. The DAL will provide technical support for the project's design, layout of the project in the field, guidance to the contractor, and an inspection when the project is completed; and • In order to mitigate the potential for environmental risks, successful applicants must adhere to the Construction Guidelines provided by the Project Advisor for their erosion control structures project.
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none"> • verify the BMP project location and requirements with the project's contractor prior to construction; • have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation; • perform recommended farm management practices, particularly with respect to the timing and application rates of manure, commercial fertilizers and pesticides in order to avoid surface and groundwater contamination; • receive permission from adjoining landowner(s) prior to discharging surface or subsurface drainage across property boundaries; and • agree to maintain and properly manage, including repairing of damage, all works constructed through their approved project for a minimum 15 years.
Funding	<ul style="list-style-type: none"> • 60% of assistance up to \$75,000 is available for eligible erosion control structures' eligible expenses over the life of the CAP Framework Agreement (2018-2023).

Soil Management: Nutrient Management Planning BMP

Purpose	<p>Properly managed nutrients can reduce negative impacts on water and air quality. A Nutrient Management Plan (NMP) will ensure that crop requirements are achieved through responsible management practices that will meet target yields and quality without applying nutrients in excess. NMPs are important to both environmental sustainability and agronomy on a farm and should only be completed by a qualified Nutrient Management Planner.</p>
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Eligible Activities	<ul style="list-style-type: none"> Development of a Nutrient Management Plan, by a qualified Nutrient Management Planner, which covers a minimum of three years, or the length of one complete crop rotation.
Eligible Expenses	<ul style="list-style-type: none"> Consultant's fees; and Soil and amendment sample collection fees, analysis and recommendations taken prior to application date.
Project Requirements	<ul style="list-style-type: none"> Nutrient Management Planning project work should only be performed after discussing the work plan with a DAL Project Advisor; A detailed invoice must be included with the project's final claim report; and A copy of the NMP must be submitted with the project's final claim report.
Successful Applicant Requirements	<p>Successful Applicants must:</p> <ul style="list-style-type: none"> Agree to implement the Nutrient Management Plan that is developed.
Funding	<ul style="list-style-type: none"> 50% of assistance up to a maximum of \$2,500 per year is available for eligible Nutrient Management Planning expenses to a maximum of \$5,000 over the life of the CAP Framework Agreement (2018-2023).

Soil Management: Winter Cover Crop BMP

Purpose	<p>Catch crop establishment prior to winter can help reduce nutrient loss events by retaining residual soil nutrients within the crop during the fall and winter months. Catch crops can also act as soil cover by holding the topsoil in place outside of the growing season when soil erosion due to wind and water movement can be significant. A well-established catch crop, maintained until the following spring, will also help reduce nutrient loss throughout the offseason by tying up residual soil nutrients within the catch crop.</p>
Eligible Expenses	<ul style="list-style-type: none"> Acreage in establishment of a winter cover following an annual or perennial crop; Inter-seeding or broadcasting of a winter cover crop during the growing season of a commercial crop (i.e. corn, edible beans, soybeans, etc.); and No-till, minimum till, or broadcast establishment of winter cover of early harvested or mulched crops (potatoes, peas, carrots, cole crops, brown mustard, buckwheat, cereals, etc.).
Ineligible Expenses	<ul style="list-style-type: none"> Winter cover of a forage established by underseeding following cereals; Two of the same commercial cereal crops within one year; and Volunteer cover of seed ground loss from the preceding harvest (peas, cereals, etc.) or regrowth of existing crops.
Project Requirements	<ul style="list-style-type: none"> All fields approved for projects through this BMP are subject to site visitations which may occur in the summer, late fall and/or early spring in order to ensure that a commercial crop was grown and that a winter cover crop was well established and maintained until the following spring; A brief summary must be included with the project application explaining the

- planned crop, its benefits and rationale;
- All Property IDs to be used for winter cover cropping must be included on the program application prior to approval
- Winter cover must be established after the preceding crop has been harvested or incorporated within that growing season;
- Winter cover crop payments for this program are based on acceptable establishment, and/or crop growth above 4". Seeding rates should be determined to ensure adequate plant density and winter cover is achieved, and should be determined based on planting date, year-to-year variation in seed size (thousand-kernel weight) and % germination;
- Planting of winter cereals (fall rye and winter wheat) should occur by mid to late September for a prepared/tilled seedbed at a seeding rate recommended by the seed supplier. After that date, and up to mid-October the only options are broadcasting at 200 lbs. per acre with no tillage (rolling is allowed) or no-till at a seeding rate recommended by the seed supplier;
- Planting of spring cereals (barley, oats, wheat) should occur by early September for a prepared/tilled seedbed at a seeding rate recommended by the seed supplier. After that date the only options are broadcasting at >200 lbs. per acre with no tillage (rolling is allowed) or no-till at a seeding rate recommended by the seed supplier;
- Other cover crops should be planted at the seeding rates and cut-off dates as recommended by the seed supplier. Soil temperature and frost sensitive crops such as oilseed radish, tillage radish, buckwheat, peas, sorghum sudan grass, and pearl millet should be planted mid-August to early September as recommended by the seed supplier for each crop. These crops are generally planted in a prepared/tilled seedbed by a seeder or broadcaster; or by no-till.
- Fields that had extremely poor establishment below the minimum criteria, due to low seeding rates or late planting dates, will not be covered within this program, as determined by the project advisor. For recommended seeding rates and establishment criteria, contact program advisors.

Successful Applicant Requirements

- Successful applicants must:
- Agree to establish a winter cover crop following the growing season of a preceding crop;
 - Agree to establish the winter cover crop to acceptable plant density and/or crop height;
 - Agree not to till or plow the catch crop following its establishment prior to the spring tillage; and
 - Agree that field acreage will be determined based on the Provincial Field Identification Numbers (FIDs) and that FIDs will be used to determine payment.

Funding

- \$35 of assistance per acre up to a maximum of \$1,000 per field (\$3,000 per year) is available for eligible Winter Cover Crop expenses up to a maximum of \$6,000 over the life of the CAP Framework Agreement (2018-2023).

Soil Management: Nutrient Management Demonstration Trial BMP

Purpose	<p>Properly managed nutrients applied at correct timing for plant uptake, in-plant available sources and at sufficient but not excess levels, are all primary strategies of Nutrient Management Planning. PEI derives all of its drinking water from groundwater sources and therefore, efficient application and usage of nutrients applied to the land is crucial. To properly assess different nutrient management strategies on farm, novel practices and strategies need to be correctly and thoroughly evaluated so that future on-farm decisions are agronomically and environmentally sound.</p>
Eligible Expenses	<ul style="list-style-type: none"> • Acreage undergoing nutrient management trial demonstrations.
Project Requirements	<ul style="list-style-type: none"> • Project trials must fit into one or more of the following topics: <ul style="list-style-type: none"> ○ Novel fertilizer products; ○ Novel use of manure or soil amendment application strategies for crop production; ○ Timing of fertilizer, manure or soil amendment applications; ○ Investigation into crop nutrient requirements for new crops; ○ Novel approaches to crop production to reduce nutrient loss or build soil health; and ○ Other subjects approved as discussed with the Program Advisor. • All trials must be conducted or overseen by a Certified Nutrient Management Planner, Professional Agrologist, CCA, or other affiliated certification. This person must be identified at the time of application, and may only oversee two research trials per year; • A research proposal is required with the application outlining the trial objectives, summary of anticipated work, field location and sampling procedures, as explained on application form; • A research summary demonstrating the results of the trial will be required at the end of the project; • All trial work must be completed by March 31st of the year following application submission (i.e., trial work must occur over one field season); and • All trials must include a check treatment of the grower's current soil fertility methods as a comparison to research treatments.
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none"> • Agree that trial results may be included in a public nutrient management research summary for use by growers, agronomists and governments; • Provide a brief proposal of trial work which has been approved and signed by the overseeing Certified Nutrient Management Planner, Professional Agrologist, and/or CCA, at the time of application; and • Agree to ensure that all project work (including project proposal, list of work completed, and research information) is approved by the Professional Agrologist or CCA overseeing the project.
Funding	<ul style="list-style-type: none"> • \$500 of assistance per acre up to a maximum of \$4,000 per trial (\$4,000 per year) is available for Nutrient Management Demonstration trial expenses up to a maximum of \$8,000 over the life of the CAP Framework Agreement (2018-2023).

Soil Management: Spring Tillage of Forages BMP

Purpose	The timing of tillage events can be pivotal in reducing nutrient loss to leaching and soil loss to erosion. Early fall plowing events increase the likelihood of soil erosion or nitrogen leaching throughout the late fall and winter months. Although spring tillage of forage fields can be difficult with time management on farm, spring tillage is optimal for reducing nutrient loss and erosion throughout the winter months, and is optimal for fields that are prone to erosion or have undulating topography.
Eligible Expenses	<ul style="list-style-type: none"> • Acreage in forage production that is plowed or conservation tilled the subsequent spring. <p>Note: Eligible crops include crops that are perennial in nature, including grasses, forage legumes, and diverse legume and grass mixtures are eligible within this program.</p>
Project Requirements	<ul style="list-style-type: none"> • All fields approved for projects through this BMP are subject to site visitations in order to ensure that all project criteria has been met. • Forage must have been actively growing a minimum of one full year prior to spring tillage (i.e. planted the spring prior) to be eligible.
Funding	<ul style="list-style-type: none"> • \$25 of assistance per acre up to a maximum of \$1,000 per field and \$2,000 per year is available for eligible Spring Tillage Forages expenses up to a maximum of \$5,000 over the life of the CAP Framework Agreement (2018-2023).

Water Management: Silage Storage BMP

Purpose	<p>Improper storage and handling of agricultural products such as livestock manure and silage leachate can pose a risk to human and environmental health by contamination of surface and ground water.</p> <p>Silage leachate can have deleterious impacts to aquatic environments if allowed to reach surface and ground water sources. Projects under this BMP will support livestock producers to improve silage storage and handling of silage leachate.</p>
Eligible Activities	<ul style="list-style-type: none"> • Project site preparation; and • Construction of bunker or upright silos.
Eligible Expenses	<ul style="list-style-type: none"> • Engineering design and associated fees; • Material for concrete/paving for base and walls of silos/bunkers; • Effluent containment facility materials; and • Approved applicant contribution.
Ineligible Activities	<ul style="list-style-type: none"> • Activities that aim to improve trafficability at a silage storage site.
Project Requirements	<ul style="list-style-type: none"> • A DAL Project Advisor must complete a site visit prior to the project's initiation in order to review options and discuss project details; • Silage storages must be used exclusively for storing silage; • If silage is being stored at a moisture content that creates excessive effluent,

- adequate containment provisions must be provided for the effluent;
- Bunker silos that have either a roof, poured-in-place concrete walls, or walls constructed with wood will require an engineered plan that has been prepared by a Professional Engineer;
 - Silage must be shielded from either pressure treated or creosoted wood to eliminate the risk of chemical contamination;
 - The impermeable base in a bunker silo should be constructed from either asphalt or concrete.
 - Asphalt should be applied in two layers: a basecoat that is a minimum 3 inches thick and uses an “A” mix followed by a topcoat that is a minimum of 2 inches thick and uses a “B” mix, has a 3/8 inch aggregate and a 6% asphalt content. A heavy roller should be used with both layers.
 - Concrete bases should be a minimum of 5 inches thick, use 4000 PSI concrete and use 10 mm rebar both ways at 24 inch centres.
 - All up-slope runoff must be diverted away from the new silage storage.
- Note: Pre-engineered, prefabricated concrete panels do not require plans from a Professional Engineers.

Successful Applicant Requirements

- Successful applicants must:
- Be addressing an environmental issue with their current silage storage system;
 - Must have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation and must submit the building permit number with the project application;
 - Must agree to maintain and properly manage all works constructed through their approved project for a **minimum of 15 years**;
 - Agree to adhere to the Construction Guidelines for Improved On-Farm Storage and Handling of Fertilizers, Pesticides, Silage, and Petroleum Products* to mitigate potential environmental risks during construction for silage storage projects; and
 - Have the completed silage storage facility inspected by the Professional Engineer responsible for the design and provide the Certificate of Inspection with the project’s final claim.
- Provided by the DAL.

Funding

- 30% of assistance up to \$25,000 is available for eligible silage storage expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management : Manure Storage BMP

Purpose

Improper storage and handling of agricultural products such as livestock manure and silage leachate can pose a risk to human and environmental health by contamination of surface and ground water.

Manure can have detrimental impacts to water quality and aquatic environments due to nutrient contamination causing eutrophication and oxygen depletion. Having proper manure storage facilities and management techniques can significantly reduce these environmental risks. Projects under this BMP will support livestock producers to improve their solid and

	liquid manure storage systems.
Eligible Activities	<ul style="list-style-type: none"> • Project site preparation; • Construction of manure storage system.
Eligible Expenses	<ul style="list-style-type: none"> • Engineering design and fees; • Material for solid manure storage pads with either a roof or separate liquid containment; • Material for in-ground or above-ground liquid manure concrete tanks; • Material for concrete storage below slotted floors; • Transfer systems from barn to manure storages or between storages; and • Approved applicant contribution.
Ineligible Expense	<ul style="list-style-type: none"> • Floor slats.
Project Requirements	<ul style="list-style-type: none"> • A DAL Project Advisor must complete a site visit prior to the project's initiation in order to review options and discuss project details; • Manure storages must be used exclusively for storing manure; • An engineering plan that has been prepared by a Professional Engineer and includes his/her seal and building permit number is required for projects under this BMP; • Project activities must be consistent with Chapter 4 of the <i>Guidelines for Manure Management for PEI</i> (1999); • Liquid/slurry manure storage facilities must be sized to contain a minimum of 210 days of manure production and accumulated precipitation; • Solid manure storage facilities must be constructed with either a roof or have a separate liquid containment facility. • Manure storage covers can include either a truss roof, a reinforced concrete slab, or floating covers. <p>Note: Manure storage covers must have a proven performance and reliability.</p>
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none"> • Be addressing an environmental issue with their current system; • Must have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation; • Must agree to maintain and properly manage all works constructed through their approved project for a minimum 15 years; • Adhere to the <i>Construction Guidelines for Improved Manure Storage and Handling</i> to mitigate potential environmental risks during construction during manure storage projects; • Have the completed manure storage facility inspected by the Professional Engineer responsible for the design and provide the Certificate of Inspection with the project's final claim. <p>Note: <i>Construction Guidelines for Improved Manure Storage and Handling</i> will be provided by the DAL to successful applicants.</p>

Funding	<ul style="list-style-type: none"> 50% of assistance up to \$35,000 is available for eligible manure storage expenses over the life of the CAP Framework Agreement (2018-2023).
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Water Management: Covered Feedlot BMP

Purpose	<p>Improper storage and handling of agricultural products such as livestock manure and silage leachate can pose a risk to human and environmental health by contamination of surface and ground water.</p> <p>Ground and surface water contamination from infiltration or deep percolation and run off of nutrients from manure can be a concern in livestock feedlot systems. Total confinement of livestock in a covered feedlot during wetter/winter months can prevent these environmental impacts. Projects under this BMP will support producers to maintain their livestock in covered feedlots.</p>
Eligible Activities	<ul style="list-style-type: none"> Project site preparation; Construction of covered feedlot base and roof.
Eligible Expenses	<ul style="list-style-type: none"> Engineering design and associated fees (if applicable); Site preparation costs; Material for concrete floor required to house the livestock; Material for roofing for the portion directly above the area required to house the livestock; and Approved applicant contribution.
Ineligible Expense	<ul style="list-style-type: none"> Material for concrete floors for alleys for areas under feed bunks; and Material for roofing for area over feed bunks or alleys.
Project Requirements	<ul style="list-style-type: none"> A DAL Project Advisor must complete a site visit prior to the project's initiation in order to review options and discuss project details; Covered feedlots must be capable of storing the manure within the facility for a minimum two-month period; All upslope runoff must be diverted away from the covered feedlot; Covered feedlot concrete floors must be a minimum of 5 inches thick and use 4000 PSI concrete with 10 metre rebar both ways at 24 inch centres; The covered feedlot roof and its support system must be designed in order to adequately support local snow and wind loads; and Manure removed from the facility must be properly stockpiled in a field as prescribed in the <i>Guidelines for Manure Management for PEI</i> (1999).
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none"> Be addressing an environmental issue with their current system; Must have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation and must submit the building permit number with the project application; Must agree to maintain and properly manage all works constructed through their

approved project for a **minimum 15 years**;

- Adhere to the *Guidelines for Manure Management for PEI* with respect to storage, handling and spreading of manure;
- Obtain a building permit prior to submitting an application;
- Agree to ensure that all livestock are confined in the covered feedlot facility during the duration of the year that they are in a feedlot environment (unless the livestock have access to a confined exercise yard with an impermeable base); and
- Agree that manure removed from the facility will not be stockpiled adjacent to the covered feedlot.

Note: If the applicant is only applying for funding for an impermeable base within an existing barn, a building permit is not required.

Funding

- 30% of assistance up to \$25,000 is available for eligible covered feedlot expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Impermeable Base for Exercise Yards Adjacent to Covered Feedlots BMP

Purpose

Improper storage and handling of agricultural products such as livestock manure and silage leachate can pose a risk to human and environmental health by contamination of surface and ground water.

Ground and surface water contamination from infiltration or deep percolation and run off of nutrients from manure can be a concern in livestock feedlot systems. This is especially true in exercise yard areas with no impermeable base beneath the manure accumulation, resulting in an environment unfavorable to adequate manure management and clean-up. Creating a solid base for livestock exercise yard areas and managing runoff can significantly reduce the risk of surface and ground water contamination. Projects under this BMP will support livestock producers to establish exercise yards adjacent to covered feedlots that reduce environmental impacts.

Eligible Activities

- Project site preparation;
- Construction of impermeable base and perimeter curb/wall.

Eligible Expenses

- Site/ground preparation costs;
- Material for concrete/paving for base and concrete curb/walls;
- Material for perimeter concrete curb/walls;
- Material for effluent containment facility; and
- Approved applicant contribution.

Ineligible Expenses

- Fencing around perimeter of exercise yard;
- Feeding and watering infrastructure

Project Requirements

- A DAL Project Advisor must complete a site visit prior to the project's initiation in order to review options and discuss project details;
- Uncontaminated surface water should be diverted away from exercise yards;
- Contaminated run off or effluent generated in exercise yards should be contained

- and handled as liquid manure or treated in an approved treatment system;
- The exercise yard concrete floor must be a minimum of 5 inches thick, using 4000 PSI concrete with 10 metre rebar both ways at 24 inch centres;
- The exercise yard must have a perimeter curb which is at least 12 inches high in order to contain the liquid runoff;
- If the exercise yard is to have a perimeter wall constructed using precast concrete blocks proper sealing must be completed in order to prevent leaking of liquid runoff;
- The exercise yard base must have a slight slope to the center of the space, or towards a proper runoff catchment system;
- The exercise yard must be located at least 90 metres from a watercourse or domestic well and 30 meters from a highway ditch or right-of-way; and
- Manure removed from the facility must be properly stockpiled as prescribed in the *Guidelines for Manure Management for PEI* (1999).

Successful Applicant Requirements

- Successful applicants must:
- Be addressing an environmental issue with their current system;
 - Must have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;
 - Must agree to maintain and properly manage all works constructed through their approved project for a **minimum 15 years**;
 - Adhere to the *Guidelines for Manure Management for Prince Edward Island* with respect to storage, handling and spreading of manure generated in the exercise yard; and
 - Agree that manure removed from the facility will not be stockpiled adjacent to the exercise yard.

Funding

- 30% of assistance up to \$8,000 is available for eligible exercise yards adjacent to covered feedlot expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Alternate Watering Systems BMP

Purpose

Projects under this BMP will provide a reliable alternate source of water for livestock from traditional sources of water such as streams and wetlands.

Eligible Expenses

- Site preparation;
- Watering systems;
- Pumps and devices;
- Electrical costs including the service entrance/panel; and
- Approved applicant contribution.

Successful Applicant Requirements

- Successful applicants must:
- have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;
 - adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction;

- agree to maintain and properly manage all works constructed through their approved project for a **minimum 15 years**; and
- adhere to the Water Well Regulation Section of the PEI *Environmental Protection Act*.

Funding

- 50% of assistance up to \$8,000 is available for eligible alternate watering systems expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Stream Crossings for Farm Machinery BMP

Purpose

Projects under this BMP will improve stream crossings for farm machinery in order to prevent stream crossing washouts during runoff events and to allow for proper fish passage.

Eligible Expenses

- Engineering design costs;
- Removal of existing faulty crossing;
- Repair to existing crossing;
- Construction of new crossings, including all material, labour and excavation costs associated with the installation of a culvert or bridge-type structure; and
- Seeding and site stabilization costs.

Project Requirements

- Stream crossings are only eligible for funding if there is an on-going agriculture activity across the stream;
- A replacement stream crossing may be relocated if the existing location is deemed unsuitable from an environmental or fisheries perspective; and
- The project site must be stabilized with proper seeding immediately after construction and recommended erosion control mitigation measures must be followed throughout the construction period.

Successful Applicant Requirements

Successful applicants must:

- have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;
- adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction;
- agree to maintain and properly manage all works constructed through their approved project for a **minimum 15 years**;
- obtain a Stream Alteration Permit from the department of Communities, Land and Environment for all stream crossing improvements; and
- consult with the Navigable Waters Division of Transport Canada to determine if the stream is navigable prior to proceeding with any project work. If the stream is considered navigable, a formal application must be made under the Federal *Navigable Waters Protection Act* and no work may proceed until approval is granted.

Funding

- 50% of assistance up to \$25,000 is available for eligible stream crossing for farm machinery expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Power to Remote Sites for Watering Systems BMP

Purpose	Projects under this BMP will provide required power from an electrical grid to watering systems in remote areas.
Eligible Expenses	<ul style="list-style-type: none">• Power line extension up to 500 metres from the closest electrical grid (installation of single phase lines and poles);• Service pole or acceptable alternative; and• Approved applicant contribution.
Successful Applicant Requirements	Successful applicants must: <ul style="list-style-type: none">• have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;• adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction;• agree to maintain and properly manage all works constructed through their approved project for a minimum 15 years; and• adhere to the Water Well Regulation Section of the PEI <i>Environmental Protection Act</i>.
Funding	<ul style="list-style-type: none">• 50% of assistance up to \$8,000 is available for eligible alternate watering systems expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Fencing and Livestock Stream Crossings BMP

Purpose	Projects under this BMP will provide protection and integrity for stream banks and ensure water quality by preventing livestock from entering the stream.
Eligible Expenses	<ul style="list-style-type: none">• Fencing materials (e.g., posts, stakes, wire, electric fencers, etc) in order to keep livestock out of streams;• Labour and equipment;• Watering site preparation;• Stream crossings (culverts, bridges, etc.);• Seeding and site stabilization costs; and• Approved applicant contributions.
Ineligible Expenses	<ul style="list-style-type: none">• Fencing not related to stream enclosures.
Project Requirements	<ul style="list-style-type: none">• If the stream bank, stream bed, and/or stream will be excavated or disturbed in the process of installing the livestock watering system/device or stream crossing a Stream Alteration Permit is required; and• The project site must be stabilized with proper seeding immediately after construction and recommended erosion control mitigation measures must be followed throughout the construction period.
Successful Applicant Requirements	Successful applicants must: <ul style="list-style-type: none">• have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;

- adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction;
- agree to maintain and properly manage all works constructed through their approved project for a **minimum 15 years**; and
- agree to obtain a Stream Alteration Permit (if applicable) from the PEI Department of Communities, Land and Environment.

Funding

- 66% of assistance up to \$15,000 is available for eligible fencing and livestock stream crossings expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Agriculture Water Quality BMP

Purpose

Projects under this BMP will improve water quality for on-farm wash lines which generate large volumes of wastewater that can be high in suspended solids and organic wastes resulting in high Biological Oxygen Demand (BOD) levels if this effluent is discharged to a surface water body.

Eligible Expenses

Water quality treatment

- Improvements to current systems or installation of a water treatment system to alleviate a water quality issue;
- Wastewater treatment systems; and
- Costs associated with the design and construction of a wastewater treatment system to treat agricultural wastewaters.

Project Requirements

- Wastewater systems must be designed and approved by the Project Advisor or a qualified consultant. Plans for the design must accompany the application; and
- Wastewater systems require an Environmental Impact Assessment through the Department of Communities, Land and Environment.

Successful Applicant Requirements

Successful applicants must:

- have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;
- adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction;
- agree to maintain and properly manage all works constructed through their approved project for a **minimum 15 years**; and
- adhere to the Water Well Regulation Section of the PEI *Environmental Protection Act*; and
- install a backflow device if fertigation is planned.

Funding

- 50% of assistance up to \$15,000 is available for eligible agriculture water quality expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: On-Farm Water Use Efficiency BMP

Purpose

Projects under this BMP will improve the efficiency of water use within the farm system.

Eligible Expenses	<ul style="list-style-type: none"> • Installation of new devices approved by the Project Advisor.
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none"> • have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation; • adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction; • agree to maintain and properly manage all works constructed through their approved project for a minimum 15 years; and • adhere to the Water Well Regulation Section of the PEI <i>Environmental Protection Act</i>; and • install a backflow device if fertigation is planned.
Funding	<ul style="list-style-type: none"> • 50% of assistance up to \$15,000 is available for eligible on-farm water use efficiency expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Irrigation Efficiency BMP

Purpose	<p>Using irrigation water more efficiently will ensure a more secure water supply for other users while maintaining adequate base flow rates for aquatic organisms. By decreasing the rate of evaporation losses, concentrations of salts and minerals can be lowered, resulting in better quality water reaching the crops. Additionally, fertigation technology provides for more efficient utilization of nutrients by applying dissolved nutrients through irrigation water. Projects under this BMP will support improved on-farm irrigation efficiency.</p>
Eligible Expenses	<ul style="list-style-type: none"> • Irrigation equipment modification/improvement to increase water use efficiency; • Low pressure/low clearance sprinklers; • Emitters for trickle or drip irrigation systems (above or below ground, including installation costs); • Low pressure booms; • Monitoring equipment, such as related sensors, soil moisture sensors or evapotranspiration monitoring equipment that increase water use efficiency; • Fertigation equipment, including containment tanks, mixing/blending/metering systems and backflow valves; and • Backflow prevention systems of irrigation water for existing irrigation systems.
Ineligible Expenses	<ul style="list-style-type: none"> • New irrigation systems that involve increased irrigated acres; • Pumps, pipe infrastructure (e.g., wheel move structures, traveling reels, mainline pipe) and water source development costs; and • Repair or maintenance of an existing backflow prevention systems.
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none"> • have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;

- adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction;
- agree to maintain and properly manage all works constructed through their approved project for a **minimum 15 years**; and
- adhere to the Water Well Regulation Section of the *Environmental Protection Act*;
- install a backflow device if fertigation is planned.

Funding

- 30% of assistance up to \$15,000 is available for eligible irrigation efficiency expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Sustainable Agricultural Water Supply BMP

Purpose

Projects under this BMP will ensure a consistent and reliable water source supply with acceptable environmental impacts.

Eligible Expenses

- Installation of pipelines to convey water from a property or parcel of land that has an existing water supply to one that does not have an existing water supply;
- New dugout/pond construction, pond enlargement/rehabilitation;
- Drilling and electric pump installation (maximum capacity of 4 l/s) of a new well for irrigation or as a result of a contamination issue on an existing well;
- Establishing a well and tank for spray water instead of using a surface water source; and
- Electric motor and pump upgrades for in-field irrigation operations (variable speed drives, electrical motor, water pumps).

Ineligible Expenses

- Electrical power transmission, service meter and connection to electrical grids.

Successful Applicant Requirements

Successful applicants must:

- have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation;
- adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction;
- agree to maintain and properly manage all works constructed through their approved project for a **minimum 15 years**; and
- adhere to the Water Well Regulation Section of the PEI *Environmental Protection Act*; and
- install a backflow device if fertigation is planned.

Funding

- 30% of assistance up to \$15,000 is available for eligible sustainable agricultural water supply expenses over the life of the CAP Framework Agreement (2018-2023).

Water Management: Well Water Management BMP

Purpose

Projects under this BMP will ensure that wells are properly sealed to avoid surface water and point source contamination.

Eligible Expenses	<ul style="list-style-type: none"> Well abandonment; Proper decommissioning of unused wells by a licensed Well Driller; Well protection; Earthwork at wellhead to divert runoff; Fencing and/or establishing grass at a wellhead; Installation of a pitless adaptor; Upgrading or maintenance to a wellhead, well casings, fittings, seals and connections to prevent seepage; Flow control for artesian wells and backflow prevention; and Casing extensions to elevate a wellhead.
Ineligible Expenses	<ul style="list-style-type: none"> Establishing new wells.
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none"> have obtained all required licenses, permits, approvals and/or authorizations and must comply with all applicable municipal, provincial and federal legislation; adhere to the Construction and Management Guidelines provided by the PEI Department of Agriculture and Land during construction; agree to maintain and properly manage all works constructed through their approved project for a minimum 15 years; and adhere to the Water Well Regulation Section of the PEI <i>Environmental Protection Act</i>; install a backflow device if fertigation is planned.
Funding	<ul style="list-style-type: none"> 75% of assistance up to \$6,000 is available for eligible well water management expenses over the life of the CAP Framework Agreement (2018-2023).

Energy Management: Efficiency Upgrades BMP

Purpose	<p>Improving energy efficiency is one way the agriculture industry can contribute to mitigating its environmental impact and contribution to climate change by reducing green house gas (GHG) emissions from fossil fuel and non-renewable resource consumption. Economic benefits also highlight the importance of energy efficiency to agricultural producers, as energy and input costs are minimized while producer competitiveness within the agro-food sector is developed.</p> <p>Projects under this BMP will support Island producers with improving their operation's energy efficiency and energy management.</p>
Eligible Expenses	<ul style="list-style-type: none"> Costs associated with the implementation of recommendations¹ from an energy audit²; and Metering systems that track energy usage. <p>¹Projects must fit within the objectives of the Agriculture Stewardship Program. ² Funding for Energy Audits may be available through EfficiencyPEI's Commercial Energy Program.</p>

Ineligible Expenses

- Recommendations from the audit that are eligible for funding through EfficiencyPEI's Business Energy Rebates Program are ineligible;
- On-farm energy audit recommendations associated with regular farm and equipment maintenance or management, such as
 - Maintenance or cleaning of heaters, motors or pumps;
 - Cleaning of ventilation systems;
 - Disposable assets or ongoing costs;
- On-farm energy audit recommendations for residential or non-agricultural areas of the operation;
- Equipment or systems for new building or expansion of operations
- Ongoing software licensing costs or fees;
- Direct supply chain and logistics costs (for example, freight and storage or trucking fees);
- Ongoing advisory service costs or expenses;
- Renewable energy systems (for example, solar photovoltaic cells, wind turbines, etc.); and
- Cost of an on-farm energy audit or related cost to the completion of the audit.

Successful Applicant Requirements

- Successful applicants must:
- Have completed an energy audit or assessment, within the last five years, that identifies the items in the proposed project; and
 - Provide a copy of the energy audit report with their application, or during the project period.

Funding

- 50% of assistance up to \$15,000 is available for eligible efficiency upgrades expenses over the life of the CAP Framework Agreement (2018-2023).

Integrated Pest Management: Data Based Decisions BMP

Purpose

Integrated pest management (IPM) is the combination of cultural, mechanical, biological, and chemical tools to control pests on crops. Pests can be weeds, insects and other invertebrates, bacteria and other microorganisms, viruses, and in some cases vertebrates. IPM plans provide crop protection while reducing human and environmental health risks associated with the use of pest control products. The central components of all IPM plans are both prevention and monitoring, with constant record keeping throughout.

Projects under this BMP will provide funding for the development and implementation of an Integrated Pest Management Monitoring Plan and implementation of decisions using the IPM data and targeting of a pest(s)/host system covering the length of one cropping system.

Eligible Expenses

- Third party or in-house fees associated with preparing and implementing an IPM monitoring/forecasting plan; and
- Costs associated with any resources and materials required as part of the plan.

Project Requirements

- The BMP project must be identified in the successful applicant's EFP Action Plan;
- A DAL Project Advisor must complete a site visit prior to the project's initiation in

- order to review options and discuss project details; and
- Project-related expenses incurred prior to the date of written project approval are at the applicant's risk.

Successful Applicant Requirements

- Successful applicants must:
- agree to implement pest management decisions directly related to the data obtained through a validated monitoring method;
 - agree to site visitations in the summer, fall and early spring to ensure that the monitoring tools and implemented decisions are in place and maintained throughout the season;
 - submit copies of the approved strategy, including the number of samples/traps/data collection events needed per acre per period of time as well as the traps/lure manufacturer's instructions or a reputable source of information such as university, government, or Grower's Association literature in order to allow for cross-referencing;
 - submit copies of the pesticide log record related to the approved fields;
 - submit copies of the monitoring data sheets which identify the field(s), pest data, and protocol used to monitor, and which demonstrate that the approved monitoring strategy has been followed;
 - submit a proposed cultural pest management decision if the pest management decision is cultural and to be implemented in the following season as well as agree to a field site visit following the monitoring season;
 - submit copies of the receipts issued by the monitoring/forecasting company, if present; and
 - if monitoring/forecasting done in house, submit in-kind calculation of the costs as well as the receipts for the materials or equipment purchased.

Funding

- \$15 per acre of assistance up to \$800 per field (\$2,500 per year) is available to a maximum of \$5,000 over the life of the CAP Framework Agreement (2018-2023).
- If application identifies <10 acres of monitoring/forecasting, the funding level will be 50% of the cost of implementing the monitoring/forecasting, up to a maximum of \$2,500 per year a maximum of \$5,000 over the life of the CAP Framework Agreement (2018- 2023).
- Minimum payment is \$250, independent of acreage or cost.

Integrated Pest Management: Beneficial Crop at the time of Commercial Crop BMP

Purpose

Integrated pest management (IPM) is the combination of cultural, mechanical, biological, and chemical tools to control pests on crops. Pests can be weeds, insects and other invertebrates, bacteria and other microorganisms, viruses, and in some cases vertebrates. IPM plans provide crop protection while reducing human and environmental health risks associated with the use of pest control products. The central components of all IPM plans are both prevention and monitoring, with constant record keeping throughout.

Pest suppressant crops and beneficial organisms can provide suppression of pest populations, mitigating reductions in quality and yield of crops. The use of these strategies can result in a reduced need of pest control product applications, reducing human and

environmental health risks.

Eligible Expenses

- Costs associated with the use of agricultural land to deter or mitigate the effects of pest damage or enhance the presence of beneficial organisms.

Note: Alternative crops proposed as a beneficial organism habitat are subject to review by the Department of Agriculture and Land. Organisms with a reasonable probability of becoming a nuisance or pest will not be covered.

Ineligible Expenses

- Land which is currently in receipt of funding through the DAL's ALUS Program.
- Buffer zones;
- Invasive species identified in either local legislation or through the Invasive Species Council; and
- Removal of provincially regulated weeds.

Project Requirements

- In the case of an annual crop, submit and fulfill the requirements of the Winter Cover program;
- For perennial crops or small fields with mixed production (<10 acres with cole crops, leafy veggies, etc., or greenhouse) the project acreage must be in crop production and developed to maintain habitat for beneficial organisms or suppress pests; and
- Field visits throughout the season to ensure implementation of strategy.

Successful Applicant Requirements

Successful applicants must:

- provide a proposed IPM strategy (including references to reputable sources of information such as, but not limited to, university publications, government or Grower's Association literature);
- agree to site visitation in the summer, fall, and early spring to ensure that the alternative crop decisions are in place and maintained throughout the season; and
- submit copies of the approved strategy, identifying the common and scientific name of the species to be used, as well as the rate of seeding and the total area that will benefit from the habitat (i.e., one row of predator habitat every ten rows of cash crop).

Funding

- \$10 per acre of assistance up to \$500 per field (\$1,500 per year) is available to a maximum of \$3,000 over the life of the CAP Framework Agreement (2018-2023).
- Minimum payment is \$250, independent of acreage or cost

Note: Determination of payment through this BMP is calculated using either total acreage for each field, based on Provincial Field Identification Numbers (FIDs), or calculated based on the information provided in the approved IPM strategy, whichever is smaller.

Integrated Pest Management: Trials BMP

Purpose

Integrated Pest Management (IPM) is the combination of cultural, mechanical, biological, and chemical tools to control pests on crops. Pests can be weeds, insects and other

invertebrates, bacteria and other microorganisms, viruses, and in some cases vertebrates. IPM plans provide crop protection while reducing human and environmental health risks associated with the use of pest control products. The central components of all IPM plans are both prevention and monitoring, with constant record keeping throughout.

Projects under this BMP will encourage the assimilation of novel IPM strategies as well as to assess different pest management strategies.

Eligible Expenses

- Acreage undergoing pest management trial demonstrations;
- Trials must address at least one of the following:
 - Novel pest control strategies previously not implemented in PEI, excluding the use of pest control products already registered in Canada; and/or
 - Other subjects as approved by the Program Advisor.

Ineligible Expenses

- Land that is currently in receipt of funding through the DAL's ALUS Program.
- Buffer zones;
- Trials designed solely to test efficacy of already registered pest control products;
- Invasive species identified in either Provincial legislation or through the Invasive Species Council; and
- Removal of provincially regulated weeds.

Project Requirements

- All trials must be conducted or overseen by a Professional Agrologist, CCA, or other affiliated certification;
- All trial work must be completed by March 31st of the following year (i.e., trial work must occur over one field season); and
- All trials must include a check treatment of the grower's current pest management methods as a comparison to research treatments.

Note: All trials must be conducted or overseen by a, Professional Agrologist, CCA, or other affiliated certification. This person must be identified at the time of application, approve the application and final report and may only oversee two research trials per year.

Successful Applicant Requirements

Successful applicants must:

- Agree to provide the name of the Professional Agrologist or CCA who will oversee their project at the time of application; and
- Agree to ensure that all project work (including project proposal, list of work completed, and research information) is approved by the Professional Agrologist or CCA overseeing the project.

Funding

- \$500 per acre of assistance up to \$4,000 per year is available to a maximum of \$6,000 over the life of the CAP Framework Agreement (2018-2023).

Note: Determination of payment through this BMP is calculated using either total acreage for each field, based on Provincial Field Identification Numbers (FIDs), or calculated based on the information provided in the approved IPM strategy, whichever is smaller.

Integrated Pest Management: Invertebrate Biological Agents BMP

Purpose	<p>Integrated Pest Management (IPM) is the combination of cultural, mechanical, biological, and chemical tools to control pests on crops. Pests can be weeds, insects and other invertebrates, bacteria and other microorganisms, viruses, and in some cases vertebrates. IPM plans provide crop protection while reducing human and environmental health risks associated with the use of pest control products. The central components of all IPM plans are both prevention and monitoring, with constant record keeping throughout.</p>
Eligible Expenses	<ul style="list-style-type: none">• Costs associated with the use of invertebrate biological control agents• Only invertebrate biological control agents that require no further authorization by the Canadian Food Inspection Agency (CFIA), under the <i>Plant Protection Act</i> and CFIA's directives D-12-02 and D-12-03.
Ineligible Expenses	<ul style="list-style-type: none">• The use of bio-pesticides, including but not limited to pest control products containing unicellular organisms, or parts derived from, regulated by the Pest Control Products Act; and• Non-conventional pest control products such as insect pheromones or botanical oil extracts regulated by the Pest Control Products Act.
Project Requirements	<ul style="list-style-type: none">• All trial work must be completed by March 31st of the following year (i.e., trial work must occur over one field season).
Successful Applicant Requirements	<p>Successful applicants must:</p> <ul style="list-style-type: none">• Agree to site visitation through the season.• Submit copies of the protocol used to monitor, if present. If not present, submit rationale of why the pest is not monitored• Submit copies of the release dates• Submit copies of the receipts from the companies supplying the IBCA
Funding	<ul style="list-style-type: none">• 50% of the cost of the IBCA up to \$2,000 per year is available to a maximum of \$5,000 over the life of the CAP Framework Agreement (2018-2023) and minimum payment of \$250