

# Sustainable Canadian Agricultural Partnership

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## Sustainable Agriculture Manitoba: Manure and Livestock Management Program Guide

Version 1.0



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# Section 1 - Program Description

Sustainable Agriculture Manitoba (SAM) provides funding to primary producers and land managers to implement cost-shared beneficial management practices (BMPs). The objective of SAM is to increase the environmental and economic sustainability of agriculture operations in Manitoba. Priority areas include climate change adaptation and mitigation, air quality, water quality and quantity, soil health and biodiversity.

## Section 2 - Program Eligibility

Eligible applicants include:

### Primary Producers

- Must have a valid Statement of Completion for an [Environmental Farm Plan](#)
- Must manage agricultural land used to produce agricultural products
- Must own land where the project will be executed or have permission from the land owner to execute the project
- Must have a [Manitoba Premises Identification](#) Number (livestock producers only)
- Can be located outside of Manitoba if the project activities have a positive outcome for Manitoba and if they have a valid EFP from their province of residence

### Commercial Manure Applicators

- Must have a valid [Commercial Manure Applicators License](#)

For businesses operating under a registered business name, regardless of business structure, all program documentation must be in the registered business name. This includes the project application forms as well as all project invoices. Businesses operating under an unregistered business name or trade name must use their official business name on all program documentation. For example, a sole proprietor operating under a trade name without a registered business name must complete all documentation in their personal name.

For individuals that are involved in more than one farming business, each sole proprietorship, partnership or corporation must each have a unique business number in order to qualify for separate funding caps. All invoices must be issued in the name of the applicant or else funding caps may be combined. It is up to the applicant to show evidence of independent operations.

Government employees who are the majority shareholder (50 per cent or higher) in a business or operation are not eligible to participate or receive funding as the ultimate recipient. A farm business or operation, which includes a provincial government employee as a minority shareholder, will be eligible to receive funding for project implementation.

Additional factors may be considered in determining the eligibility of the applicant, including:

- the provision of false or misleading information by the applicant under other Sustainable Canadian Agricultural Partnership programs
- amounts due and owing by the applicant under other Sustainable Canadian Agricultural Partnership and Manitoba programs

## Section 3 - Cost Share Funding

### Eligible Expenses

Eligible expenses are directly related to the execution of an approved project and include:

- Incremental Personal Labour
  - Labour hours incurred by the applicant for eligible activities, capped at \$30/hour.
- Incremental Personal Equipment Use
  - Equipment owned by the applicant can be used for the successful completion of the approved project. Reimbursement will be determined using the appropriate rental rate guide ([Manitoba's Farm Machinery Custom and Rental Rate Guide](#) or [MHCA Equipment Rental Rate Guide](#))
  - Where rental rates are not identified in published guides (e.g. survey equipment, tree planter, etc.), applicants can specify the type of equipment and proposed hourly or daily rental rate in their Application Worksheet budget for review.
- Subcontracted Services
  - Third-party services related to custom labour and equipment use
- Professional Fees
  - Third-party service provided by an organization, business or individual, who holds a valid designation, examples may include consultant wages, engineering fees, etc.
- Capital Assets and Equipment
  - Purchase of specialized equipment or attachments related to composting, nutrient recovery, manure application, etc.
  - Purchase of new technology, examples include sensors, monitors, alarms, feed systems, feed processing equipment, etc.
- Equipment Rental
  - Equipment that is rented for the successful completion of the approved project.

- Materials and Supplies
  - Construction and building materials necessary for the completion of the approved project, examples include lumber, seed, plumbing components, etc.
- Provincial Sales Tax (PST)

The applicant is solely responsible for all expenses of the project, including all ineligible expenses and any project deficits or cost over-runs.

Where a project is approved, no eligible expenses will be reimbursed unless a funding agreement is signed.

If work is started on a project before formal written approval of program funding is received, the applicant does so at their own risk.


All expenses must be supported by an invoice and a valid proof of payment. All invoices must be dated on or after April 1, 2023.

Additional eligible cost information, by BMP, can be found below.

## **Ineligible Expenses**

The following expenses are ineligible for funding:

- Any expense, including a tax, which is eligible for a rebate, credit or refund such as Goods and Services Tax (GST)
- In-kind
- Any expenses not required for the execution of the project
- Normal operating expenses associated with carrying out business operations
- Extended warranties
- Spare parts not used as part of the project
- Expenses associated with lobbying
- Financing charges, loan interest payments, bank fees and charges
- Any compensation to any government employee for organizing or delivering parts of the project
- Purchase of land, buildings and facilities, associated taxes and fees (e.g., land transfer tax)
- Any additions to new or existing buildings and facilities, associated taxes and fees
- Purchase of typical farm equipment (e.g., tractors, skid steers, combines, etc.) and related accessories and attachments
- Normal, current or ongoing maintenance expenses
- Cost of establishing a commercial operation or new farm yards
- Cost of office renovations
- Cost of sponsorship of seminars, conferences, workshops, events or initiatives

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- Multi-use items (e.g., items that are not directly related to the project activities, such as computers, printers, phones, cameras, pressure washers, general farm equipment, batteries, ATV, trucks, clothing and footwear, tools, fuel, etc.)
  - Any project-related activity that generates revenue during the implementation of the project
  - Expenses incurred for other projects
  - Any other expense deemed ineligible by the program administrator
  - Inventory items purchased prior to April 1, 2023.

## **Funding from Government**

The applicant must adhere to the stacking limit. The stacking limit refers to the maximum level of total Canadian government funding (federal, provincial/territorial, and municipal) a successful Applicant can receive towards total approved eligible expenses of a project.

The maximum level of total government funding must not exceed:

- 100 percent of total approved eligible expenses; or
- If the Applicant is a for-profit business or organization 75 per cent for capital items that are approved eligible expenses

## Section 4 - Funding Streams

Activities will focus on the implementation of on-farm beneficial management practices that increase the environmental and economic sustainability of agriculture operations in Manitoba. Priority areas include climate change adaptation and mitigation, air quality, water quality and quantity, soil health and biodiversity.

Under the Manure and Livestock funding stream, the following BMPs are eligible:

Funding Stream	BMP Number	BMP Name
Manure and Livestock Management	2100	Enhanced Feed Efficiency
	2200	Improved Manure Application
	2300	Solid Liquid Separation
	2400	Improved Manure Transport
	2500	In-barn Air Quality Treatment
	2600	Limiting Thermal Stress on Livestock
	2700	Composting

Additional funding information, for each BMP listed above, can be found below

# BMP 2100: Enhanced Feed Efficiency

Feed efficiency depends on maximizing feed utilization and minimizing feed wastage. For ruminants, the implementation and specialized preparation of Total Mixed Rations (TMR) can ensure rations are fed with targeted grain:forage ratios to restrict sorting by ruminants and help optimize rumen conditions. TMR feeding systems also allow inclusion of feed ingredients that reduce enteric methane emissions (e.g. NOP, PUFA) into the ration at a constant rate for maximum benefit.

Improvements to feed handling equipment, feed distribution technology and on-farm feed processing capacity reduce spoilage and feed wastage.

## Eligible Applicants

- Primary Producers

## Cost Share Ratio and Funding Cap

BMP 2100 has a cost share ratio of 50 per cent government, 50 per cent applicant, and an overall funding cap of \$160,000. A single Application Worksheet can include any or all of the Practices within BMP 2100.

Code	Practice Description	Cap
2101	Technologies that increase livestock feed efficiency, including: <ul style="list-style-type: none"><li>• Feed systems and equipment which prepare and deliver targeted TMR (e.g., mixer wagons, automated TMR preparation and delivery equipment, feed kitchens, etc.)</li><li>• Feed handling systems to reduce wastage, feed distribution technology such as RFIDs</li><li>• On farm feed processing equipment to improve feed efficiency (e.g. bale choppers, Pelletizers, on-farm oilseed presses, etc.)</li></ul>	\$150,000
2102	Professional fees associated with design and installation of automated feed preparation and delivery systems	\$10,000

## Eligible Expenses

- Incremental Personal Labour
- Subcontracted Services
- Professional Fees
- Capital Assets and Equipment
- Materials and Supplies

## Ineligible Expenses

- Incremental Personal Equipment Use
- Equipment Rental





## Specific Ineligible Items

- Purchase of feed or feed additives

## Notes

- The approval of NOP as a feed ingredient is anticipated to occur during the timelines of SCAP. This feed additive has the greatest scope of reducing future GHG emissions from the ruminant sector by reducing enteric methane emissions by 50%. The effectiveness of NOP is dependant on its constant delivery into the rumen which is best suited to a TMR feed delivery system.

## Reference Materials

For more guidance in developing your application, visit:

- [Automatic and Frequency-Programmable Systems for Feeding TMR](#), Canadian Society for Bioengineering
- [How the Feed Kitchen Works](#), Video, Lely
- [Oilseed Pressing Systems](#) Website, Energrow Inc
- [Pellet Making Systems for Farms](#) Website, ELF Pellet Mills
- [Bunker Shaver in Action](#) Website, Midwest Sidewall

# BMP 2200: Improved Manure Application

Liquid manure can be applied using technologies and practices that reduce greenhouse gases and odours. The goal is to conserve nitrogen and create a more balanced, homogenous fertilizer of known nutrient concentration for crop production. By covering the manure with soil using direct injection, the risk of manure being lost to surface water in runoff is also reduced.

## Eligible Applicants

- Primary Producers
- Licensed Commercial Manure Applicators

## Cost Share Ratio and Funding Cap

BMP 2200 has a cost share ratio of 50 per cent government, 50 per cent applicant, and an overall funding cap of \$855,000 across all Eligible Practices. A single Application Worksheet can include any or all of the Eligible Practices within BMP 2200.

Code	Practice Description	Cap
2201	Equipment for direct injection of liquid manure including components that enhance the direct injection system (e.g., injection toolbar and furrow closure wheels)	\$150,000
2202	Manure agitation boat that facilitates full agitation of the manure in the storage in order to suspend and remove manure solids	\$175,000
2203	In-stream nutrient analysis for liquid manure (e.g., NIR) including associated controllers, specialized mapping software, consultation fees for the commissioning of enhanced manure application technologies	\$30,000
2204	Specialized equipment that is specifically designed for in-season application of liquid manure to land (after emergence of an annual crop)	\$500,000

## Eligible Expenses

- Incremental Personal Labour
- Subcontracted Services
- Professional Fees
- Capital Assets and Equipment
- Materials and Supplies

## Ineligible Expenses

- Incremental Personal Equipment Use
- Equipment Rental



### **Specific Ineligible Items**

- Any system that does not deliver manure directly below the soil surface (Aerway, dribble bars or splash plates, etc.) or does not improve nutrient delivery when combined with the injection system

# BMP 2300: Solid-Liquid Separation of Manure

The removal of solids from manure results in less GHG emissions during storage. The separation of the solids from the liquids also improves nutrient management options. The solids contain most of the phosphorus and can be hauled longer distances more economically to lands with that require more phosphorus.

## Eligible Applicants

- Primary Producers

## Cost Share Ratio and Funding Cap

BMP 2300 has a cost share ratio of 50 per cent government, 50 per cent applicant, and a funding cap of \$415,000 across all Eligible Practices. A single Application Worksheet can include any or all of the Eligible Practices within BMP 2300.

Code	Practice Description	Cap
2301	Nutrient recovery and dewatering systems for manure (e.g. solid-liquid separation systems, bedding recovery units, etc.) including the cost to construct a building to house the separation equipment and/or separated solids	\$400,000
2302	Engineering, design, permitting <b>Eligible as a stand alone if project does not proceed for economic, technical or environmental reasons</b>	\$15,000

## Eligible Expenses

- Incremental Personal Labour
- Subcontracted Services
- Professional Fees
- Capital Assets and Equipment
- Materials and Supplies

## Ineligible Expenses

- Incremental Personal Equipment Use
- Equipment Rental

## Specific Ineligible Items

- Anaerobic digestion systems

## Notes

- Building must be reasonable and intended to accommodate nutrient recover systems only

- Permit to construct, modify or expand a manure storage must be obtained prior to beginning this project.

## Reference Materials

For more guidance in developing your application, visit:

- [Obtaining a Permit for the Construction/Modification/Expansion of a Manure Storage Facility](#) Government of Manitoba

# BMP 2400: Improved Manure Transport

Manure dragline systems reduce soil compaction, increase speed of application, reduce fossil fuel consumption used in tanker-based manure application and reduce wear and tear on public infrastructure.

## Eligible Applicants

- Primary Producers
- Licensed Commercial Manure Applicators

## Cost Share Ratio and Funding Cap

BMP 2400 has a cost share ratio of 50 per cent government, 50 per cent applicant, and an overall funding cap of \$500,000.

Code	Practice Description	Cap
2401	Components associated with manure dragline systems including draglines, hoses/reels, booster pumps, etc. When building a complete manure dragline system direct (under surface of the soil) or partial injection toolbars (e.g. Aerway) are eligible as part of this BMP.	\$500,000

## Eligible Expenses

- Incremental Personal Labour
- Subcontracted Services
- Capital Assets and Equipment
- Materials and Supplies

## Ineligible Expenses

- Incremental Personal Equipment Use
- Professional Fees
- Equipment Rental

## Specific Ineligible Items

- Cost of power unit
- Replacement of existing draglines

# BMP 2500: In-Barn Air Quality Treatment

Odours are one of the main causes of conflict between livestock producers and their neighbours. Scrubbers and biofilters that treat the air being exhausted from a livestock barn are promising technologies for reducing odours from the barn.

## Eligible Applicants

- Primary Producers

## Cost Share Ratio and Funding Cap

BMP 2500 has a cost share ratio of 75 per cent government, 25 per cent applicant. This BMP has a funding cap of \$525,000 across all Eligible Practices. A single Application Worksheet can include any or all of the Practices within a BMP 2500.

Code	Practice Description	Cap
2501	Upgrades to existing facilities or portions of new construction: In-barn air quality treatment technologies such as air scrubber infrastructure, in-barn ventilation modifications, and biofilters	\$500,000
2502	Engineering, design, permitting <b>Eligible as a stand alone if project does not proceed for economic, technical or environmental reasons.</b>	\$25,000

## Eligible Expenses

- Incremental Personal Labour
- Subcontracted Services
- Professional Fees
- Capital Assets and Equipment
- Materials and Supplies

## Ineligible Expenses

- Incremental Personal Equipment Use
- Equipment Rental

# BMP 2600: Limiting Thermal Stress on Livestock

The maintenance of a thermoneutral environment for livestock improves feed efficiency, reduces waste, reduces water consumption, lowers disease risk and improves welfare. Technologies such as smart control fan systems, misting systems, improved ventilation, water cooled mats, and alarm systems all work to dissipate heat from livestock and allow a degree of heat recovery to be used elsewhere on farm.

## Eligible Applicants

- Primary Producer

## Cost Share Ratio and Funding Cap

BMP 2600 has a cost share ratio of 50 per cent government, 50 per cent applicant, and an overall funding cap of \$85,000 across all Eligible Practices. A single Application Worksheet can include any or all of the Practices within BMP 2600.

Code	Practice Description	Cap
2601	Building modifications intended to adapt livestock housing to limit thermal stress and technologies to manage and maintain an environment within the animals thermoneutral range such as sensors/monitors/alarms, etc.	\$75,000
2602	Engineering, design, permitting <b>Eligible as a stand alone if project does not proceed for economic, technical or environmental reasons</b>	\$10,000

## Eligible Expenses

- Incremental Personal Labour
- Subcontracted Services
- Professional Fees
- Capital Assets and Equipment
- Materials and Supplies

## Ineligible Expenses

- Incremental Personal Equipment Use
- Equipment Rental

## Specific Ineligible Items

- Any cooling systems for new barn or livestock housing construction
- Plumbing and water supply infrastructure not specifically for the cooling equipment (e.g., drilling a new well, etc.).

## Notes

- This BMP is intended for retrofits to existing infrastructure only. Any components associated with new construction are not eligible.



# BMP 2700: Composting

Manure composting can reduce odour, pathogens, reduce greenhouse gas emissions, and increases efficiency of nutrient management. After composting solid manure there is a reduction in the nutrient variability and makes for a uniform product that can be used to increase soil fertility, help to build soil structure and soil organic matter. Composting manure reduces the overall volume of manure that needs to be hauled making compost an easier product to handle at time of application.

## Eligible Applicants

- Primary Producers

## Cost Share Ratio and Funding Cap

BMP 2700 has a cost share ratio of 50 per cent government, 50 per cent applicant, and an overall funding cap of \$260,000 across all Eligible Practices. A single Application Worksheet can include any or all of the Practices within BMP 2700.

Code	Practice Description	Cap
2701	Permanent composting structures for deadstock and manure, such as compost pads, compost bin systems, compost sheds, etc.	\$150,000
2702	Self-propelled or PTO-driven compost turner, forced aeration equipment, etc.	\$100,000
2703	Engineering, design, permitting <b>Eligible as a stand alone if project does not proceed for economic, technical or environmental reasons.</b>	\$10,000

## Eligible Expenses

- Incremental Personal Labour
- Incremental Personal Equipment Use
- Subcontracted Services
- Professional Fees
- Capital Assets and Equipment
- Materials and Supplies

## Ineligible Expenses

- Equipment Rental

## Specific Ineligible Items

- Separate tractor or power unit for compost turner
- Expenses for compost bagging equipment (if producers are wanting to sell compost)



**Notes**

- Permit to construct, modify or expand a manure storage must be obtained prior to beginning this project.



# Section 5 - Application Worksheet Assessment

The primary objective of Sustainable Agriculture Manitoba is to make environmental improvements on agriculture operations in Manitoba. To maximize positive environmental outcomes, project proposals will be assessed using three main criteria:

**Environmental Benefit Assessment Index (EBAI):** A system used to determine the level to which a project addresses environment risk. The EBAI generates a rating of the environmental benefits that a specific activity would provide and takes into account water, air, soil nutrients and biodiversity.

**Provincial Program Priorities:** Agriculture sustainability should promote a profitable and competitive agricultural sector, while reducing the impact of agricultural activities on the environment. Adoption of on-farm strategies that improve environmental stewardship can reduce the risk of nutrient loss to water, mitigate and adapt to climate change, increase the level of carbon stored in the soil, assist in mitigating potential nuisance complaints and enhance public trust of farming operations.

**Project Planning:** Projects must be adequately designed and applications must clearly identify locations, steps, process and intent, especially with respect to environmental benefit. Project applications are scored on their ability to clearly show that the project design will result in the intended outcome.

A final inspection or other proof of completion may be required to confirm that the project was implemented in accordance with the project proposal.

Successful applicants are responsible for:

- identifying, obtaining and complying with any necessary licenses, permits and approvals (municipal, provincial, federal, etc.), before starting the project
- incorporating any relevant and required mitigation measures for the project
- ensuring that insurance requirements have been met regarding the changes implemented.

## Additional Information

Please contact Manitoba Agriculture for further information by email at [agriculture@gov.mb.ca](mailto:agriculture@gov.mb.ca) or by phone at 1-844-769-6224.

## Section 6 - How to Apply for Funding

Applicant Information Forms and Application Worksheets, upcoming intakes and deadline dates are available on the Manitoba Agriculture website. Go to [www.manitoba.ca/agriculture](http://www.manitoba.ca/agriculture) and click on Sustainable Canadian Agricultural Partnership.

Manitoba Agriculture will publish deadline dates through the newsletter, website and social media channels.

Complete Applicant Information Forms and Application Worksheets can be emailed to Manitoba Agriculture at [agriculture@gov.mb.ca](mailto:agriculture@gov.mb.ca) must be submitted to the program administrator no later than the deadline.

Applicant Information Forms and Application Worksheets and required documentation can be emailed to Manitoba Agriculture at [agriculture@gov.mb.ca](mailto:agriculture@gov.mb.ca).

Applicants must acknowledge and agree to any terms and conditions contained in the Applicant Information Form and Worksheet.

Applicants must comply with all provincial and federal government laws and regulations applicable to their project and to their business or organization's operations. Applicants must also accept and agree to all of the terms and conditions of the program.

Only the applicant may sign the program application or other program documents. In the case of corporations, partnerships and other business organizations, a designated person with legal authorization must sign the application and other program documents. The program administrator may require proof of authorization.

The project duration for program activities may be single or multi-year. Multi-year projects can be up to two consecutive years.

Project activities must be completed and all reports submitted on or before December 31, 2027, unless otherwise stated in the funding agreement.

Funding for projects will be subject to the appropriation of funds by the Government of Canada and the Manitoba government.

# Definitions

**Agricultural Land:** private land, leased agriculture Crown land, First Nation land or Association of Manitoba Community Pastures land and is used for agricultural crop production or pasture and which is located in Manitoba.

**Applicant:** a person or entity who satisfies all the eligibility requirements set out in the terms and conditions and who submits an application under this program.

**Beneficial Management Practice (BMP):** a recognized agricultural management practice that mitigates or minimizes negative impacts and risk to the environment, by maintaining or improving soil, water and air quality and biodiversity; or improves adaptability and ensures the long-term health and sustainability of land-related resources used for agricultural production.

**Funding Agreement:** an agreement issued to applicants indicating an application decision and the next steps required for project implementation

**Government Funding:** any financial assistance in the form of provincial or federal grants, loans or other assistance.

**Incremental Personal Equipment Use:** equipment use hours incurred by the applicant for approved activities. Reimbursement is capped by the rates outlined in the [Farm Machinery Custom and Rental Rate Guide](#) and [MHCA Equipment Rental Rate Guide](#).

**Incremental Personal Labour:** labour hours incurred by the applicant for approved activities, such as construction, installation, manual labour, etc. Reimbursement is capped at \$30 per hour and does not include time operating equipment.

**Person:** includes an individual, partnership, association or corporate body (entity).

**Primary Producer:** an individual grower, producer or rancher, partnership, corporation, co-operative or any other association of people who is actively engaged in farming.

**Program:** refers to the Sustainable Canadian Agricultural Partnership program.

**Program Administrator:** Manitoba Agriculture, or where applicable, any authorized person engaged by the Manitoba government, to carry out administrative activities in connection with the program.

**Provincial Government Employee:** any full-time, regular, part-time or term individual employed by the provincial government, including any special operating agency or Crown corporation.

**Sustainable Canadian Agricultural Partnership:** a five-year agricultural policy framework by Canada's federal, provincial and territorial governments to encourage market development, innovation and research, environmental sustainability, value added

processing, improved public trust and risk management across Canada's agriculture, agri-food and agri-product sectors.

**Terms and Conditions:** the Sustainable Canadian Agricultural Partnership program rules that applicants must follow as conditions for receiving funding; may be occasionally revised, altered or amended from time to time.