Agriculture and Agri-Food Canada | Agriculture et Agroalimentaire Canada

# AGRICULTURAL CLIMATE SOLUTIONS ON FARM CLIMATE ACTION FUND

## 2024-2025

# APPLICATION GUIDELINES

February 2024

# OFCAF Program Application

## Step 1 - Applicant Contact Information (Communication and disbursements will be addressed to applicant name)

| | | |
|---|---|---|
| Applicant (Farm Name or Individual Name) | **Applicant Contact Information is prepopulated with information from your registration.**<br>**All registrations must include;**<br>An answer to the following question from the Registration form is required to be eligible for an OFCAF contribution.<br>Do you identify with any of the following underrepresented groups?<br>☐ Indigenous ☐ Women ☐ Persons with Disabilities ☐ Visible Minority ☐ Youth(under 40) ☐ LGBTQ2 ☐ Not Applicable ☐ Decline to Identify | |
| Contact Name | | |
| Email | | OFCAF Client Number: |
| City/Town | | |
| Province NB | Postal Code | County: COUNTY not CANADA |
| Registered Agricultural Producer Number: | | |

## Step 2 – Project Cost and Work Plan

**Use the area below to summarize project costs and amount of contribution requested.**

**NOTE: Applications for georeferenced soil sampling with mapping completed in the Nitrogen Management Appendix must include a specific nitrogen, cover cropping or rotational grazing BMP activity on the same fields as sampled or mapped.**

**Gross Farm Income**: ☐ less than $10,000 ☐ $10,000-$49,999 ☐ $50,000-$99,999 ☐ $100,000-$249,999 ☐ greater than $250,000

| Budget Items | Estimated Cost of BMP Element | "Other Source" Contributions (name, amount | $ Requested from OFCAF | Proposed Work Plan | |
|---|---|---|---|---|---|
| | | | | Start Date | End Date |
| **A. Nitrogen Management** | | | | | |
| a) develop a multi-year N based nutrient management or annual N fertility plan | | | | | |
| b) georeferenced soil sampling with VRA mapping | | | | | |
| c) regular nitrogen fertilizer and inhibitor price difference | | | | | |
| d) certified or common seed and planting cost to increase legumes in rotation | | | | | |
| e) offsetting higher cost of synthetic fertilizer substitutes (manure, compost, digestates) | | | | | |
| f) fertilizer application equipment upgrades to allow banding, side dressing and injection | | | | | |
| g) cost of split nitrogen application | | | | | |
| **h)** transitioning to better manure management, cost associated with manure handling equipment to enable shallow incorporation | | | | | |
| i) polymer coated nitrogen fertilizer price difference | | | | | |

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Funding for this project has been provided by Agriculture and Agri-Food Canada through the Agricultural Climate Solutions – On-Farm Climate Action Fund.

| | | | | | |
|---|---|---|---|---|---|
| **NITROGEN BMP TOTAL** | | | | | |
| **B. Cover Cropping** | | | | | |
| a) develop a cover cropping rotation plan | | | | | |
| b) purchasing certified or common seed of recommended cover crop species | | | | | |
| c) Cost of planting | | | | | |
| d) Equipment to manage cover crop | | | | | |
| **COVER CROPPING BMP TOTAL** | | | | | |
| **C. Rotational Grazing** | | | | | |
| a) develop grazing management plan & engineering plans | | | | | |
| b) grazing infrastructure (fencing & equipment, installation, piping & renewable energy water systems) | | | | | |
| c) purchasing certified or common seed of recommended legume and grass pasture mixtures and cost of seeding for improved pasture composition | | | | | |
| **ROTATIONAL GRAZING BMP TOTAL** | | | | | |
| **Total OFCAF Amount Requested (Less HST)** | | | | | |

## Step 5 - Additional Information

All applications must include a georeferenced aerial photo map with farm and field identification or georeferenced field location polygons. ArcGIS shape (shp) files are available from service providers (consultants, lime and fertilizer spreaders, JD Operations Center. KML files can be digitized and exported from Google Earth Pro. Refer to program guidelines for specific additional required documentation or contact the NBSCIA OFCAF Administration (ofcaf.facf@nbscia.ca) or your local NBSCIA coordinator for assistance. Hard copy OFCAF applications are available from the NBSCIA OCAFA Program Administrator.

**NOTE:** All applications must include the appropriate OFCAF Program BMP Appendix document(s) listed below to support your request for a contribution.

A. Nitrogen Management ☐
B. Cover Cropping Management ☐
C. Rotational Grazing Management ☐

### TERMS AND CONDITIONS

1. The Applicant acknowledges that the decision of NBSCIA as to entitlement to an amount of funding by contribution, if any, is final and binding and without right of appeal or review by the Applicant.
2. The Applicant acknowledges and understands that the Applicant must disclose in this application for project funding, all proposed sources of funding, including sources and amounts from federal, provincial or municipal governments, conservation groups, and private organizations, including in-kind contributions, for the duration of this project.
3. The Applicant acknowledges and understands that failure to comply with all the program requirements may delay processing the application or render the Applicant ineligible for financial assistance under the program.
4. The Applicant will allow the NBSCIA to visit and/or photograph the project site for monitoring or promotional purposes. The NBSCIA will obtain permission from the Applicant prior to any such activities and these activities will not interfere with property operations.

## Declaration and Signature

The applicant certifies that the information and representations contained in this application are true and correct to the best of his/her/its knowledge and belief.

The applicant hereby gives his/her/its consent to the NBSCIA employees, agents, successors and assigns of NBSCIA to seek and obtain further and other information to whatever extent and from whatever sources or records as may be deemed or considered appropriate.

The applicant consents to the disclosure of applicant contact and project information to Canada for disclosure of financial, investment and qualitative information related to the funding of a project. Financial information disclosed may be funding under a priority area, activity area and recipient type. Contribution information may be disclosed for the purpose of analyzing impacts of Government of

Canada investments in the sector. Qualitative information may be disclosed to evaluate the results achieved from spending on programs under OFCAF.

The applicant consents to Canada publishing the amount of funding the applicant has received under the Agricultural Climate Solutions – On-Farm Climate Action Fund.

| .Applicant Signature | DATE |
|---|---|
| | |
| Administration Only | |
| Date Received: | |

Completed applications can be submitted as follows:

- ✓emailed to: ofcaf.facf@nbscia.ca
- ✓mailed to NBSCIA OCAFA Program Administrator,150 Woodside Lane Unit 2, Fredericton NB; E3C 2R9

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# OFCAF Application Appendix A: Nitrogen Management

## Applicant Information

| | | | |
|---|---|---|---|
| **Applicant (Farm Name or Individual Name):** | **Applicant Contact Information is prepopulated with information from your registration** | | |
| **Contact Name:** | | | |
| **Email:** | | **OFCAF Client Number:** | |
| **Phone Number:** | | **Cell Number:** | |
| **Address:** | | | |
| **City/Town:** | | | |
| **Province: NB** | **Postal Code:** | **County: COUNTY not CANADA** | |

**Number of Livestock by Type**: ☐ None ☐ Dairy ☐ Beef ☐ Sheep ☐ Other (Please specify) _____

## Step 1 SITE PLAN

Provide a georeferenced aerial photograph showing the field identification and location. Georeferenced farm and field locations emailed to ofcaf.facf@nbscia.ca ArcGIS shp file or Google Earth Pro kmz polygon format are preferred. ArcGIS shape (shp) files are available from service providers (NBSCIA, consultants, custom lime and fertilizer spreaders, JD Operations Center, etc). KMZ files can be digitized and exported from Google Earth Pro. https://www.youtube.com/watch?v=-2sRYiwqzDs

**Insert or Attach as Separate Page if Necessary**

*Field names or IDs must match with those in sections a,b,c,d,e,f,g,h,and i below*

## Step 2 – Nitrogen Management Project Plan and Cost Worksheet

***It is recommended that you discuss plan with a BMP Program Advisor prior to applying.***

**Current practices:** Describe your current nitrogen management practices used. (e.g., rotation, nitrogen sources and management practices, legume and manure credits)

*In addition to the general description of the current practice include specific application rates in lb or kg per unit of land area in relation to crop requirement.*

*If transitioning to better manure management by purchasing equipment, calculate manure production = Number of Animals x Average Weight of Animal (lb) ÷ 1000 (animal unit) x Daily Manure Prod. x Manure Collection Period (days) + Estimated Percent of Bedding in Manure. [See Table Below]*

*Volumes should align with the application rates in the attached spreadsheet to calculate agronomic balance for the nitrogen requirement.*

| Average Daily Manure Production per 1000lb Animal Unit | | | |
|---|---|---|---|
| **Animal Type** | **Daily Production** | **Animal Type** | **Daily Production** |
| **Dairy Cow** | | **Swine** | |
| Lactating (liquid) | 13 gal | Gestation | 4 gal |
| Lactating (solid) | 106 lb | Lactation | 10 gal |
| Dry | 82 lb | Nursery | 14 gal |
| Calf and heifer | 87 lb | Grow-finish | 11 gal |
| **Beef cattle** | | Farrow to feeder | 7 gal |
| Cow and calf | 60 lb | **Sheep** | 40 lb |
| Steer | 75 lb | **Horse** | 45 lb |
| Veal | 5 gal | | |
| **Add 5% for bedding to the manure value**. | | | |

**Improved nitrogen management practices: D**escribe the new practices that will be adopted, and how they are intended to improve nitrogen use efficiency and reduce nitrogen loss in terms of the following applicable nutrient management themes. ***Refer to spreadsheet to estimate nitrogen requirement or provide a reference.**

Source (e.g., controlled release, legumes, manure management):

*Brand of polymer coated nitrogen.*

*Identify specific product brands and nitrogen contents.*

*For manure, compost and digestates provide an estimate of the reduction in synthetic nitrogen applied and emission reduction with incorporation.*

*Provide estimates of Synthetic Nitrogen Fertilizer Substitutes (manure, compost, digestates) spreading costs*

*Inhibitors must include both urease and nitrification products- Dicyandiamide + N-(n-butyl) thiophosphoric triamide (NBPT). Inhibitors and PCU products can not be applied on the same field area.*

Rate (e.g., reduced rate, variable rate, enhanced calibration):

*Identify how the rate is established (soil, tissue, other). Quantify the reduced rate compared to the current practice using data from the OMAFRA NMAN2 software.*

*Quantity applied should match with purchases with the claim.*

*Refer to the Nitrogen Management Calculator included as a requirement for Appendix A application.*

Timing (e.g., split application, foliar application):

*Define split or other applications relative to the crop growth stage.*

*Include specific application rates in lb or kg per unit of land area in each slit application*

*Include general dates of time of application relative to crop growth stage.*

| a) Agronomic services to develop a multi-year N based nutrient management plan or an annual fertility plan | | Total Area (ac.) | Estimated Service Cost |
|---|---|---|---|
| Service Provider: | | | |
| Service Provider | | | |
| b) Georeferenced soil sampling and VRA mapping | | Total Area (ac.) | Estimated Service Cost |
| | Sampling Type (grid, SoilOptix etc.) & Rate | | |
| Service Provider | | | |
| Service Provider | | | |
| Applications for soil sampling and mapping must include the adoption of an additional specific nitrogen, cover crop or rotational grazing BMP. | | | |


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If the applicant reports that the soil testing and soil mapping has allowed them to reduce N application on their farm, the following additional data points are required that will be used by AAFC to quantify the GHG impact of the reduction in N use on-farm:

1. Historical application rate of N fertilizer on the acres in question.
2. New application rate of N fertilizer on the acres in question (post soil test/soil map).
3. Hectares converted (must be the same acres).

| c) Nitrogen Fertilizer Inhibitor Price Difference | | | | ***Refer to spreadsheet to calculate nitrogen requirement** | | | |
|---|---|---|---|---|---|---|---|
| Field Id(s) | Crop(s) | Total Area (acres) | Total Nitrogen Required (T) | Regular Nitrogen Cost/T | Inhibited Nitrogen Cost/T. | Total Estimated Difference Cost/ac | Total Estimated Cost |
| | | | | | | | |
| Convert cost difference per tonne to cost per acres x field area to estimate total cost per field and project | | | | | | | |
| Quantity of fertilizer purchased must approximate the total quantity recommended per unit of land area by the agrologist or CCA and applied to the crop area to validate the claim for payment.<br>Nitrogen requirement balance from spreadsheet (yield x rate) should approximate a zero agronomic balance in the spreadsheet. | | | | | | | |
| | | | | | | | |

| d) Seed and Planting Costs to Increase Legumes | | | | | | |
|---|---|---|---|---|---|---|
| Field Id(s) | Legume Species | Total Area (acres) | Total Seed Cost/ac | Tillage Cost ($/ac.) | Planting Cost ($/ac) | Total Estimated Cost |
| | | | | | | |
| Quantity of seed purchased must approximate the total quantity recommended per unit of land area by the agrologist or CCA and applied to the crop area to validate the claim for payment. | | | | | | |
| | | | | | | |

e) Offsetting Higher Cost of Synthetic Nitrogen Fertilizer Substitutes (manure, compost, digestates) ***Refer to spreadsheet to calculate nitrogen requirement**

| Field Id(s) | Crop(s) | Total Area (acres) | Total Nitrogen Required(T) | Total Substitute Nitrogen(T) | Regular Nitrogen Cost/T | Substitute Nitrogen Cost/T | Total Estimated Cost |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| Calculate the unit cost of nitrogen in the synthetic fertilizer substitute compared to the synthetic fertilizer recommended by an agrologist or CCA,<br>Nitrogen requirement balance from the spreadsheet (yield x rate) should approximate a zero agronomic balance. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | Spreading $/ac | Incorporation $/ac | |
| Application costs can be included but should be explained in **Improved nitrogen management practices** section above**.** Same fields, crops and area as above. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| f) Fertilizer Application Equipment Upgrades | | | | |
|---|---|---|---|---|
| Field Id(s) | Crop(s) | Total Area (acres) | Describe present system and equipment and the planned upgrades | Total Estimated Cost |
| | | | Make and model of existing equipment and describe the new equipment upgrade. | |
| Total area should include all crops and entire farmed acreage that the equipment will be used on**.** Applications | | | | |

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| | | | | |
|---|---|---|---|---|
| for fertilizer equipment purchase or upgrade must include a specific nitrogen BMP c,d,e,f,g,h,and i. | | | | |
| | | | | $ |

g) Split Nitrogen Application ***Refer to spreadsheet to calculate nitrogen requirement**

| Field Id(s) | Crop | Total Area (acres) | Tillage Operation ($/ac) | Spreading Operation($/ac) | Total Estimated Cost/ac | Total Estimated Cost |
|---|---|---|---|---|---|---|
| | | | | | | |

Quantity of fertilizer purchased must approximate the total quantity recommended per unit of land area by the agrologist or CCA and applied to the crop area to validate the claim for payment.
Nitrogen requirement balance from spreadsheet (yield x rate) should approximate a zero agronomic balance.

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |

h) Manure Application Equipment

| Field Id(s) | Crop | Total Area (acres) | Describe present equipment and improved method of manure incorporation | Total Estimated Cost |
|---|---|---|---|---|
| | | | Make and model of existing equipment and describe the proposed method of incorporation with the new equipment [solid and liquid spreaders, discs, hoses or equipment for shallow incorporation (to avoid volatilization)] | |
| Total area should include all crops and entire farmed acreage that the equipment will be used on. Applications for manure equipment purchase or upgrade to improve incorporation must include a specific nitrogen BMP (c,d,e,f,g,h,and i). | | | | |
| | | | | $ |

i) Polymer Coated Nitrogen Fertilizer Price Difference ***Refer to spreadsheet to calculate nitrogen requirement**

| Field Id(s) | Crop(s) | Total Area (acres) | Total Nitrogen Required (T) | Regular Nitrogen Cost/T | PCU Nitrogen Cost/T. | Total Estimated Difference Cost/ac | Total Estimated Cost |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Quantity of polymer coated nitrogen fertilizer purchased must approximate the total quantity recommended per unit of land area by the agrologist or CCA and applied to the crop area to validate the claim for payment.
Nitrogen requirement balance from spreadsheet (yield x rate) should approximate a zero agronomic balance.

Calculate cost difference in lb or kg per acre x number of acres to arrive a Total Estimated Cost.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## FUNDING REQUEST

Please complete the table below with as much detail as possible. Attach any applicable quotes, engineering plans, etc. BMPs applied to a specific farm area prior to the Program are ineligible. Note, however, that an expansion of a BMP application on a farm area where these BMPs have not been previously employed is eligible. In the case of transitioning to better manure management, only activities that improve manure incorporation in the soil are eligible.

| **Project Expenses** | **Supplier** | **Total Estimated Cost (less HST)** |
|---|---|---|
| Planning (e.g., nutrient management plan, including crop diversification plans to increase legumes and pulses in rotation; engineering or technical design work by a qualified professional); Soil testing and soil and VRA mapping; Use of nitrification and urease inhibitors; Use of soil organic amendments and synthetic fertilizer substitutes (manure, compost, digestants); Increasing legumes in rotations to account for N credit from legumes in subsequent crop; Split application of fertilizer with reduced rate as a result of increased crop use efficiency; (changing to application during crop development to better match plant needs and reduce nitrogen loss); Transitioning to better manure management with improved manure incorporation to avoid volatilization--solid manure should be incorporated as soon as possible to avoid ammonia loss. | | |

| A. Nitrogen Management | | |
|---|---|---|
| a) develop a nutrient management plan | Supplier quote required with application | $ |
| b) georeferenced soil sampling and VRA mapping | Supplier quote required with application | $ |
| c) regular nitrogen fertilizer and inhibitor price difference | Supplier quote required with application | $ |
| d) purchasing certified or common seed of recommended legume species from registered dealers listed by NBSCIA seed and planting cost to increase legumes in rotation | Supplier quote required with application | $ |
| e) offsetting higher cost of synthetic fertilizer substitutes (manure, compost, digestates) | Supplier quote required with application | $ |
| f) fertilizer application equipment upgrades to allow banding, side dressing and injection | Supplier quote required with application | $ |
| g) cost of split nitrogen application | Supplier quote required with application | $ |
| h) transitioning to better manure management, cost associated with manure handling equipment to enable shallow incorporation | Supplier quote required with application | $ |
| i) price difference between regular nitrogen fertilizer and PCUs | Supplier quote required with application | $ |
| | Nitrogen Management Total (less HST): | $ |

**I declare that the information herein is to the best of my knowledge correct.**

| PAg/CCA Signature | DATE |
|---|---|
| **OFFICE USE ONLY**<br>**Project Estimated Cost: $** | **Project Total Eligible Contribution: $** |
| **DATE Received:** | |

## OFCAF Nitrogen Management Planning Work Sheet

*Manually complete or refer to the Excel Spreadsheet to calculate Nitrogen requirement

| FIELD | Area (Ac) | BUILD $P_2O_5$ Status (lb/ac) | Build $K_2O$ (lb/ac) | PREVIOUS CROP | TARGET YIELD (cwt/ac.) Annual Crop | Yield | NUTRIENT APPLICATION (lbs/ac) Annual ManureType | T/ac | N-manure | $P_2O_5$-manure | $K_2O$-manure | N-fertilizer | $P_2O_5$-fertilizer | K20-fertilizer |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| FIELD | REMOVAL(Total Pounds) Annual N | $P_2O_5$ | $K_2O$ | Removal, N Credit + Soil Build) Total Pounds Annual N | $P_2O_5$ | $K_2O$ | BALANCE (Total Pounds) Annual N | $P_2O_5$ | $K_2O$ |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

TYPICAL N-P-K REMOVAL,MNURE VALUES and NITROGEN CREDIT for NB

| Rotation Crop Removal (lb/cwt) of Yield CROP | N | P | K | Description | Nitrogen Credit (lb/ac) |
|---|---|---|---|---|---|
| Potatoes | 0.55 | 0.05 | 0.74 | | 15 |
| Wheat | 2.9 | 1.2 | 2 | straw left | (15) |
| Oats | 2.7 | 1.09 | 2.7 | straw left | (15) |
| Barley | 2.5 | 1.2 | 2.1 | straw left | (15) |
| Soybeans | 6.7 | 1.5 | 2.3 | | 15 |
| Corn silage | 1.5 | 0.7 | 1.5 | | (10) |
| Corn grain | 1.8 | 0.8 | 1.5 | | (20) |
| Forage Legume | 3.3 | 0.8 | 3.5 | | 20 |
| Forage Grass | 2.2 | 0.7 | 2.75 | | (10) |
| Pasture | 0.9 | 0.25 | 0.9 | 50% of permanent hay | 0 |
| Grass | 1.8 | 0.45 | 1.8 | grass hay not in rotation | (20) |

| Manure Values(lb/tonne) | N | P | K | Notes |
|---|---|---|---|---|
| Poultry-no litter | 22 | 20 | 23 | OMAFRA Factsheet#13-043 |
| Poultry-with litter | 27 | 29 | 42 | OMAFRA Factsheet#13-043 |
| Dairy&Feeder | 5 | 4 | 15 | OMAFRA Factsheet#13-043 |
| Sheep | 7 | 7 | 18 | OMAFRA Factsheet#13-043 |
| Hogs | 8 | 10 | 14 | OMAFRA Factsheet#13-043 |

## OFCAF Application Appendix B: Cover Crop Management

### Applicant Information

| | | | |
|---|---|---|---|
| **Applicant (Farm Name or Individual Name):** | **Applicant Contact Information is prepopulated with information from your registration** | | |
| **Contact Name:** | | | |
| **Email:** | | **OFCAF Client Number:** | |
| **Phone Number:** | | **Cell Number:** | |
| **Address:** | | | |
| **City/Town:** | | | |
| | **NB** | **Postal Code:** | **County:** COUNTY not CANADA |

**Number of Livestock by Type**: ☐ None ☐ Dairy ☐ Beef ☐ Sheep ☐ Other (Please specify) _____

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Funding for this project has been provided by Agriculture and Agri-Food Canada through the Agricultural Climate Solutions – On-Farm Climate Action Fund.

## Step 1 SITE PLAN

Provide a georeferenced aerial photograph showing the field identification and location. Georeferenced farm and field locations emailed to ofcaf.facf@nbscia.ca in ArcGIS shp file or Google Earth Pro kmz polygon format are preferred. ArcGIS shape (shp) files are available from service providers (NBSCIA, consultants, lime and fertilizer spreaders, JD Operations Center, etc). KMZ files can be digitized and exported from Google Earth Pro. https://www.youtube.com/watch?v=-2sRYiwqzDs

**Insert or Attach as Separate Page if Necessary**

Field names or IDs must match with those in sections a, b, and c, below

## Cover Cropping Plan

Use the following table to provide the information requested. Additional information can be attached separately and submitted with your application. ***It is recommended that you discuss the plan with a BMP Program Advisor prior to applying.***

| | |
|---|---|
| **Current Standard Practice** | Explain your current cover cropping practices (if any) and how this project will improve and/or expand your current standard practice. |
| Describe your current rotation sequence and how the project will reduce GHG emissions and sequester carbon. | |
| **Rationale for Cover Crop Species** | Please describe why you have chosen the cover crop species or mix. What outcomes are you targeting? (e.g., fall erosion control, winter erosion control, nitrogen loss reduction, carbon sequestration) For assistance in choosing cover crop species, an online decision-making tool can be found at http://decision-tool.incovercrops.ca/ |
| Rationale should include timing and planting dates for species in multi-species mixes. | |
| **Rotational Fit** | Explain how this cover crop fits into the rotation and supports the cash crop you intend to plant before or following the cover crop (e.g., less tillage, more residue) |
| Explanation should include seeding dates and compatibility with other seasonal farm operations. | |
| **Machinery Implement/Method of Establishment** | Outline the equipment you will use to establish the cover crop and the number of additional operations required (e.g., a tillage and a seeder pass). Provide an estimate of the timeframe or cropping window within which you expect to establish the cover crops. Ensure it fits within the suggested establishment windows for the species selected and detail a fallback species or mix |
| The shank type and configuration should be described and estimated cover crop residue remaining over winter or after the tillage operation.<br>Requests for new equipment should clearly define the cost benefit in machine operation costs and timeliness of managing cover crops | |

## Step 2 – Cover Cropping Project Plan and Cost Worksheet

| a) **Develop a cover cropping rotation plan (agronomic services)** | | Estimated Service Cost |
|---|---|---|
| Service Provider: | | |
| Service Provider | | |

**b) Cover Crop Seeding Plan**

| Field ID | Field Area (ac.) | 2023 Harvested Crop | 2024 Main Crop | 2024 Cover Crop Species/Mix | Cover Crop Seeding Rate (lbs./ac) | Total Cover Crop Seed Required (lbs) | **Total Estimated Seed Cost** | Date of Seeding Cover Crop | Date of Cover Crop Termination |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| Quantity of seed purchased must approximate the total quantity recommended per unit of land area by the agrologist or CCA and applied to the crop area to validate the claim for payment. | | | | | | | | | |
| | | | | | | | | | |

| c) Cost of Planting | | | | | |
|---|---|---|---|---|---|
| Field Id | Total Area (ac.) | Tillage Operation ($/ac.) | Seeding Operation ($/ac.) | Total Planting Cost/ac. | Total Estimated Cost |
| | | | | | |

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| d) Equipment to Manage Cover Crop | | | |
|---|---|---|---|
| Type of Equipment | Total Farm (acres) | Describe make and model | **Estimated Cost** |
| Flail mower, no-till drill with small and large seed box, seeding/spreaders for tillage equipment, vertical tillage implements with shank type feet leaving more than 6 inches (15cm) of cover crop growth over winter | | Brand and model number | |

## FUNDING REQUEST

Please complete the summary table below with as much detail as possible. Attach any applicable supplier quotes, engineering plans, etc. BMPs applied to a specific farm area prior to the Program are ineligible. Note, however, that an expansion of a BMP application on a farm area where these BMPs have not been previously employed is eligible. Note that crops that will be harvested or grazed leaving less than 6 inches (15cm) of cover crop growth over winter and crops that can be harvested in the next growing season intended for market (e.g., winter cereals) are not eligible under this program. .

| **Project Expenses** Planning cover crops and rotations by an accredited professional, common and certified seed cost, from registered dealers as listed by NBSCIA OFCAF and cost of planting cover crops. | **Supplier** | **Total Estimated Cost (less HST)** |
|---|---|---|
| **B. Cover Cropping** | | |
| a) develop a cover cropping rotation plan | Supplier quote required with application | $ |
| b) purchasing certified or common seed of recommended cover crop species from registered dealers listed by NBSCIA | Supplier quote required with application | $ |
| c) Cost of Planting | Quote or estimate required | $ |
| d) Equipment to Manage Cover Crop | Supplier quote required with application | $ |
| | Cover Cropping BMP Total (less HST): | $ |

**I declare that the information herein is to the best of my knowledge correct.**

| **PAg/CCA Signature** | **DATE** |
|---|---|
| **OFFICE USE ONLY**<br>**Project Estimated Cost: $** | **Project Total Eligible Contribution: $** |
| **DATE Received:** | |

# OFCAF Application Appendix C: Rotational Grazing

| | | |
|---|---|---|
| **Applicant (Farm Name or Individual Name)** | **Applicant Contact Information is prepopulated with information from your registration** | |
| **Contact Name** | | |
| **Email** | | **OFCAF Client Number:** |
| **Phone Number** | | **Cell Number:** |
| **Address (Line 1)** | | |
| **City/Town** | | |
| **Province** | **Postal Code** | **County: COUNTY not CANADA** |

**NOTE:** Forage Grazing Applications must include a georeferenced aerial photo map. Georeferenced farm and field locations emailed to ofcaf.facf@nbscia.ca in ArcGIS shp file or Google Earth Pro kmz polygon format are preferred.

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ArcGIS shape (shp) files are available from service providers (consultants, NBSCIA coordinators). KMZ files can be digitized and exported from Google Earth Pro. https://www.youtube.com/watch?v=-2sRYiwqzDs

## Step 1 –Describe Current System and Proposed Grazing Plan Improvements

**DETAILS ON THE CURRENT GRAZING SYSTEM**

Using a georeferenced aerial photo map, ArcGIS shp or Google Earth Pro kmz polygons show the locations of the current grazing system.

*Field names or IDs must match with those in sections a,b,and c below*

**Insert or Attach as Separate Page if Necessary**


**Number of Livestock by Type**: ☐ None ☐ Dairy ☐ Beef ☐ Sheep ☐ Other (Please specify) _____

**Number of grazing head:** ___Cows ___Calves ___Replacements ___Bulls ___Feeders ___Sheep ___lambs ___rams
Other (Please specify) _____

**Total Pasture Acreage: Current:_____New area to be added as part of this project: Total Pasture Area: ____**

**Number of paddocks: Current:_____Additional as part of this project:____Total Number of Paddocks: ____**

Describe the current grazing system: Use the space given or attach a summary/project proposal (1-2 pages) to the end of the application form if more space is required.

Overall pasture condition (excellent/good/fair/poor). Estimate species composition in % grasses (blue grass, fescue, timothy etc.), % legumes (white clover, trefoil, alfalfa, etc and % weeds (thistles, burdock, etc.)

***It is recommended that you discuss the plan with a BMP Program Advisor prior to applying.***

**DETAILS ON THE PROPOSED ROTATIONAL GRAZING PLAN**

Using a georeferenced aerial photo map, ArcGIS shp or Google Earth Pro kmz polygons show the locations and shape of the new paddocks you wish to implement, the water sources, access points, and other management features.

*Field names or IDs must match with those in sections a,b,and c below.*

Self-guided resources are available at **https://www.farmlearninghub.ca/collections/atlantic-region**

Describe how you will be implementing the new improved rotational grazing practices. Note the size of each pasture, and any other descriptive pieces of information you know or observe. Please include any areas you wish to convert to pasture as part of this plan.

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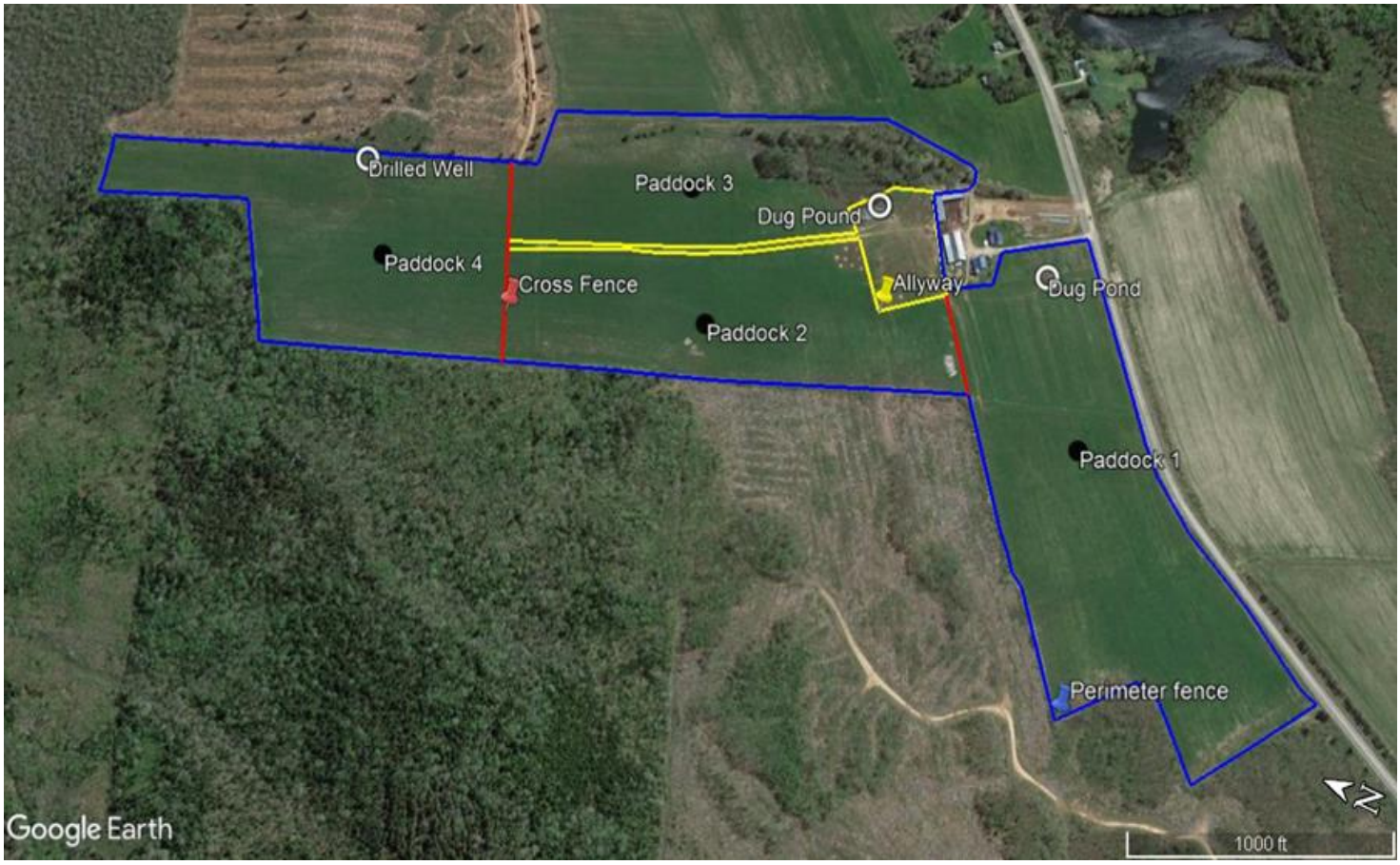
**Insert or Attach as Separate Page if Necessary**




**Improved Grazing Management Practices** Provide a summary of the intensive grazing management system you will be implementing, and the management plan actions (including stocking density, length of grazing, etc.). Use the space given or attach a summary/project proposal (1-2 pages) to the end of the application form if more space is required

| Paddock Id | Acreage | Forage Species (Identify species variety and % of mixture) | Water Source(s) | Projected Grazing Period | Projected Rest Period | # Grazing Passes |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |

| | |
|---|---|
| **Stocking Density** *Estimated target stocking density (number of animals per paddock area)* | |
| **Timing of grazing and forage recovery** *How long are animals in a paddock, and was is target forage recovery time?* | |
| **Pasture Composition and Improvement** *Any planned improvements in pasture composition, and rationale for species selection.* | |

| Seed and Planting Costs to Increase Legumes |
|---|

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| Field Id(s) | Legume Species and % legumes | Total Area (acres) | Total Seed Cost/ac | Seeding Operation ($/ac.) | Total Planting Cost/ac. | Total Estimated Cost |
|---|---|---|---|---|---|---|
| | | | | | | |
| Quantity of seed purchased must approximate the total quantity recommended per unit of land area by the agrologist or CCA and applied to the crop area to validate the claim for payment | | | | | | |
| | | | | | | |

## Step 2 –Grazing Project Plan and Cost Worksheet

**FUNDING REQUEST**

Please complete the table below with as much detail as possible. Attach any applicable quotes, engineering plans, etc. BMPs applied to a specific farm area prior to the Program are ineligible. Note, however, that an expansion of a BMP application on a farm area where these BMPs have not been previously employed is eligible

| **Project Expenses**<br>Rotational grazing plan by an accredited professional; installation, interior cross fencing, perimeter fencing of newly developed pastures, wildlife-friendly fencing, temporary fencing, water infrastructure (waters, underground piping, remote systems powered by renewable energy, etc.), certified or common seed of recommended grass and legume pasture species and seeding cost | **Supplier** | **Total Estimated Cost (less HST)** |
|---|---|---|
| **C. Rotational Grazing** | | |
| a) develop grazing management plan & engineering plans | Supplier quote required with application | $ |
| b) installation and purchase of grazing infrastructure (fencing & equipment, piping & renewable energy water systems) | Supplier quote required with application | $ |
| c) purchasing certified or common seed of recommended legume and grass pasture mixtures from registered dealers listed by NBSCIA and cost of seeding for improved pasture composition. | Supplier quote required with application | $ |
| | Rotational Grazing BMP Total (less HST): | $ |

**I declare that the information herein is to the best of my knowledge correct.**

| **PAg/CCA Signature** | **DATE** |
|---|---|
| **OFFICE USE ONLY**<br>**Project Estimated Cost: $** | **Project Total Eligible Contribution: $** |
| **DATE Received:** | **NBSCIA Signature** |

| Source: Atlantic Grains Council. AGC custom rate survey for 2022 Published January 2023 | | | | | | |
|---|---|---|---|---|---|---|
| **Operation** | Treatment | Min | Max | Average | Ontario 2021 Custom Rate $/ac | Recommended Value $/ac |
| Tillage | | | | | | |
| | Single pass | 29 | 45 | 36.3 | 24.00 | 36.30 |
| | discing | 24 | 40 | 31.3 | 24.00 | 31.30 |
| | harrowing | 9 | 40 | 24.5 | 13.00 | 16.00 |
| Fertilizer Spreading | | | | | | |
| | Broadcast | 10 | 18 | 13.5 | 11.00 | 13.50 |
| Spraying | | | | | | |
| | Generic | 13 | 20 | 16.8 | 10.00 | 16.80 |
| Grain Planting | | | | | | |
| | Tilled | 28 | 35 | 30.6 | 22.00 | 30.60 |
| | No-till | 27.5 | 33 | 29.7 | 27.00 | 29.70 |
| Soy Planting | | | | | | |
| | Tilled | 28 | 38 | 32.0 | 27.00 | 32.00 |
| | No-till | 27.5 | 40 | 32.1 | 28.00 | 32.10 |
| Corn Planting | | | | | | |
| | Tilled | 28 | 38 | 33.0 | 27.00 | 33.00 |
| | No-till | 28 | 40 | 33.3 | 33.00 | 33.30 |
| Harvesting with Combine | | | | | | |
| | Grain | 50 | 70 | 61.1 | 57.00 | 61.10 |
| | Soybean | 50 | 70 | 61.7 | 57.00 | 61.70 |
| | Corn | 50 | 70 | 63.1 | 58.00 | 63.10 |
| Corn Silage Harvesting | | 54 | 54 | 54.0 | | 54.00 |
| Manure spreading | | 38 | 38 | 38.0 | | 38.00 |

Notes: 1. Fertilizer spreading and spraying does not include cost of product.
2. Fertilizer is not included in seeding costs for various crops.
3. Grain buggies are included in cost of combining. All but 2 had grain buggies
4. Ontario rates are based on their 2021 custom rate survey - grain buggies added to price of combining

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