NITROGEN MANAGEMENT APPLICATION FORM

On-Farm Climate Action Fund

Mailing Information

First name:	Middle name:	Last name:	
Farm/Business Name:			
Street address:			
Nearest town/community:		Province:	Postal code:
Telephone #:	Email:		

Type of Business

Please provide your **type of business** (individual proprietorship, incorporated company, or partnership) and **associated business number** (Social Insurance Number or Revenue Canada Business Number).

Type of Business:	Business Number or SIN:

Partnerships

If you indicated "Partnership" as your type of business in above, please list the partner name(s) and their percent of ownership in the table below.

Name of all partners	Percent of ownership
Total (must equal 100%):	

Applicant Information (please choose only one)

- ○ Primary producer
- ○ Indigenous government/Indigenous community/Indigenous group

PLEASE NOTE ANY UNANSWERED QUESTIONS WILL DELAY YOUR APPLICATION

Type of Industry (please choose only one)

◯ Oilseed and grain farming	◯ Dairy cattle and milk production	◯ Beef cattle, including feedlots	◯ Other crop farming Please specify:
◯ Vegetable farming	◯ Hog and pig farming	◯ Fruit and tree nut farming	◯ Other animal production Please specify:
◯ Sheep and goat farming	◯ Poultry and egg production	◯ Support activities for crop production	◯ Support activities for animal production
◯ Multiple industries Please specify:			◯ Not applicable

Farm Income

◯ Sales under $10,000	◯ Sales from $250,000 - $499,000
◯ Sales from $10,000 - $99,999	◯ Sales over $500,000
◯ Sales from $100,000 - $249,999	◯ Unknown or decline to identify

Project Advisor

Please have your agronomist, Certified Crop Advisor, or Professional Agrologist (P.Ag.) that is providing support with your project review and sign off on this application.

Advisor Name:		
Advisor Contact	Phone:	Email:
Advisor Signature:		

Project Funding

Have you, or will you, secure any other Provincial and/or Federal Government funding for this project?

Yes or No:

If yes, provide detailed information as indicated below

Source:	Dollar Amount:

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Improved Nitrogen Management

Please complete the table below. If more space is needed, applicants can provide this section on a separate page attached to the end of the application.

Property ID's	Acreage	Crop	OFFICE USE ONLY

Complete the table below for purchases of equipment for improved nitrogen management, enhanced efficiency fertilizers, soil sampling and mapping services, and nutrient management planning.

Project Expenses (i.e. materials, services, labour, equipment, etc.)	**Supplier**	**Estimated cost** (less HST)
		$
		$
		$
		$
		$
		$
		$
		$
		$
		$
		$
		$
	Total:	$

OFFICE USE ONLY

Project total value: $ **Project total eligible costs: $**

PLEASE NOTE ANY UNANSWERED QUESTIONS WILL DELAY YOUR APPLICATION

PRINCE EDWARD ISLAND FEDERATION OF AGRICULTURE

Canada

Improved Nitrogen Management Plan

Please complete the following questions and provide the information requested. If more space if require, use the space given on the next page or attach a summary/project proposal (1-2 pages).

Your application must be discussed with your Project Advisor prior to applying.

Eligibility Questions: Please answer all questions related to your project activities.	**Yes**	**No**
1. Will the proposed activity occur on land that has previously been used for agricultural production?	○	○
2. Have you done this activity on these acres in the past?	○	○
3. Are there any improvements using these activities compared to your current standard practice?	○	○

If you answered yes to question 3, please describe current standard practice on these acres and how the proposed activities will improve it.

Nitrogen Reduction Rate

Please provide your current nitrogen application rate and the expected reduced nitrogen application rate for each project activity.

Current Nitrogen Application Rate:	Reduced Nitrogen Application Rate:

Nitrogen Management Activities

Complete each of the following sections that relate to your proposed project activities.

A. Increasing Legumes in Rotation

What legume species are you establishing? _____

What is the planting date? _____

What is the seeding rate? _____

What equipment are you using to establish the legume crop? _____

What method are you using to establish the legumes? _____

What is the goal of the legume crop? _____

B. Split Application of Nitrogen Fertilizer

What kind of fertilizer are you using? _____

What is the rate of application? _____

What equipment will be used to apply fertilizer? _____

What date will the split application/s be done? _____

Nitrogen Management Activities (Continued)

C. Enhanced Efficiency Nitrogen Fertilizers

Are you using registered Enhanced Efficiency Fertilizer products? (Yes or No) _____

Are you using a dual inhibitor or a polymer coated urea product? _____

What type of fertilizer is being used? (Liquid or Solid) _____

What is the name of the product being applied? _____

What time/date will the fertilizer be applied? _____

What is the rate of application? _____

What equipment will be used to apply the fertilizer? _____

D. Improving Placement of Organic Amendments

What amendment are you using? _____

How are you improving placement of the amendment? _____

What is the rate of application? _____

How is it being applied? _____

How soon after application is it incorporated? _____

Additional Information

Use the space below to provide additional information or attach it at the end of the application.

PLEASE NOTE ANY UNANSWERED QUESTIONS WILL DELAY YOUR APPLICATION

3. Declarations and Consent to Use Personal Information

Please review each paragraph closely and sign below.

By submitting this form for project funding, I/We:

- understand that personal information on this form is collected under Section 31c of the Freedom of Information and Protection of Privacy Act R.S.P.E.I. 1988 c. F-15.01 as it relates directly to and is necessary for the Agricultural Climate Solutions On Farm Climate Action Fund. It will be used for determining eligible for program assistance and will be shared with the Canada Revenue agency regarding the taxable benefit and Agriculture and AgriFood Canada, regarding program management, claims, audits, and evaluation of this program.
- agree that information provided for purposes of the On Farm Climate Action Fund may be shared with the Canada Revenue Agency as it pertains to any potential taxable benefits, as well as with Agriculture and Agri-Food Canada or its agent regarding claims, audits and evaluations as it relates directly to and is necessary.
- understand that successful applicants will be required to enter into a written agreement with the PEI Federation of Agriculture that provides for cash and/or in-kind contributions at Fair Market Value in accordance with the cost-share ratios identified in the program guidelines as well as additional requirements that are consistent with and reflect the terms, conditions, and objectives of the On Farm Climate Action Fund.
- understand that, if approved, this project will not be eligible for funding from any other On Farm Climate Action Fund providers.
- agree not to use any GHG emissions reductions, avoidances or removals arising from this project to apply for any existing or future federal, provincial, or voluntary offset credit programs if the GHG emission reductions are generated between March 1, 2025 and March 31, 2028.
- agree to participate in an evaluation and/or audit of the program.
- understand that projects funded may be communicated through the PEI Federation of Agriculture's public and social media channels.
- understand that failing to comply with all application requirements may delay the processing of the application, or may render me ineligible for receiving assistance under the program.
- understand that the Social Insurance Number, Business Number and/or Charity Registration Number is collected under the authority of the Income Tax Act for the purposes of reporting income.
- acknowledge that my/our completing this application form and by receiving advice from the PEI Federation of Agriculture or other program delivery agent does not oblige the PEI Federation of Agriculture or other delivery agents to provide funding.

I, _____ certify that the information given on this application is to the best of my knowledge complete, true and accurate.

Name of Applicant/Signing Officer (please print)	Signature of Applicant/Signing Officer	Date

4. Demographic Information

Your **Mandatory** response to the following questions will assist in understanding the demographic profile of On Farm Climate Action Fund clients.

Do you identify as	☐ Man	☐ Woman	☐ Gender not listed	☐ Prefer not to say
Are you a senior (age 65 or older)?	☐ Yes	☐ No	☐ Prefer not to say	
Are you a youth (age 29 or younger)?	☐ Yes	☐ No	☐ Prefer not to say	
Do you identify as a person with a disability?	☐ Yes	☐ No	☐ Prefer not to say	
What is your first language?	☐ English	☐ French	☐ Other	☐ Prefer not to say
Are you proficient in languages other than English or French?	☐ Yes	☐ No	☐ Prefer not to say	
Do you identify as a member of the Island's Acadian community?	☐ Yes	☐ No	☐ Prefer not to say	
Do you identify as a member of an Indigenous group?	☐ Yes	☐ No	☐ Prefer not to say	
Do you identify as a newcomer to Canada?	☐ Yes	☐ No	☐ Prefer not to say	
Do you identify as part of another under-represented group?	☐ Yes	☐ No	☐ Prefer not to say	

Demographic information questions must be answered.

SUBMITTING YOUR APPLICATION

To submit your application, e-mail a signed PDF copy of your completed application to:

ofcaf@peifa.ca

Please refer to our website and our OFCAF Program Guidelines for more details on the program and application process at ofcafpei.ca.

Applications may also be submitted via mail to:

PEI Federation of Agriculture
159 Sherwood Road
Suite 100
Charlottetown, PE, C1E 0E5

OFCAF Program Officer Contacts

If you have questions about the program or application, please reach out to one of our program officers.

Meagan Moynagh

Email: mmoynagh@peifa.ca
Phone: 902-368-7289 Ext 225

Riley Chappell

Email: rchappell@peifa.ca
Phone: 902-368-7289 Ext 230

PRINCE EDWARD ISLAND FEDERATION OF AGRICULTURE

Canada

Nitrogen Management Worksheet

Through this worksheet you will be able to more accurately determine the ideal rate of nitrogen that needs to be applied to fields as part of the nitrogen management BMP. This worksheet accounts for nitrogen that will be removed through crop harvesting and nitrogen that will be added from other inputs like manure and legume crop rotations. It also allows you to consider the 4R concepts to account for savings in fertilizer based on right source, right place, right time, right rate.

To start complete the field plan and target yield tables on this page to determine estimated nitrogen loss.

Field Plan

Step 1: Enter all field names being used in your nitrogen management project.

Step 2: Enter the PID's that will be included in your nitrogen management project.

Step 3: Enter the total # of crop acres for each field.

Step 4: Select the crop that is being grown from the drop down menu.

(if establishing legumes select the crop that will be grown after the legumes)

Field Name	PID #	Area (a)	Crops Grown

Total Area 0

Nitrogen Removed per Crop Yield

Enter target yields for the all crops being planted in the fields listed in the field plan. This will generate an estimate of Nitrogen removal (lb/a) for that yield.

*For crops not listed download the AgPHD Fertilizer Removal App

Crop	Yield Goal	Unit	N Removed (lb/ac)
Potato		cwt	0
Barley		MT	0
Red Clover		MT	0.0
Alfalfa		MT	0
Legumes		MT	0
Wheat		MT	0
Oats		MT	0
Soybeans		MT	0
Peas		MT	0
Grain Corn		MT	0
Silage Corn		MT	0

Manure Credit Calculator

Nitrogen can be input through the application of manure to a field. Accounting for manure credits can reduce the rate of nitrogen fertilizer that needs to be applied.

Instructions

Only fill out the manure types you plan on using on the fields in this project.

Step 1: Enter the application rate and other values from your manure analysis report for the types of manure being spread.

Note: If you do not have a manure analysis report use example Averages as referenced.

Step 2: Use The drop down menu to select the Incorporation value.

Step 3: Use The drop down menu to select the appropriate coefficient value based on your C:N ratio and time of application.

The estimated total nutrients available to the crop that year are indicated in the orange boxes.

	Solid	Liquid	Poultry	Animal Averages for Estimation
Application Rate (tons/acre):				
C:N Ratio				Beef: 20, Dairy: 15, Poultry: 8, Swine: 11
Nitrogen %				Beef:0.35, Dairy:0.40, Poultry:0.25, Swine:0.51
Ammonium %				Beef:0.09, Dairy:0.16, Poultry:0.64, Swine:0.24
Incorporation Value				
Nitrogen Coefficient Value				
Total Amount of Nitrogen (lbs N/acre)	0.0	0.0	0.0	

Reference values courtesy of the government of Prince Edward Island Department of Agriculture and Land:

Nitrogen Balance Worksheet

The Nitrogen Balance table considers nitrogen removals, sources (manure, legumes), and 4R considerations to give you and estimated optimal nitrogen application rate. The legume, manure, and 4R tables are intended to provided a reference point only.

Instructions

Please fill in the Biological Supply, Crop Removal (from the table on the first page), Manure Credit and Legume Credit values.

BiologicalSupply: If Soil Health testing shows high BNS, or Organic Matter is high (>3%), Otherwise leave blank

CropRemoval: Value based on the yield goals entered in 'Crop Removal' table.

Legume Credit: Using the legume reference table on Page 4 enter the Legume Credit value in the green row.

ManureCredit: Enter the value calculated from the manure credit calculator on page 2.

NitrogenRequired: This is the amount of Nitrogen that is expected to be removed from the field at harvest.

NitrogenRateApplied: Enter the actual Nitrogen fertilizer rate you intend to apply/ have applied on the field.

Crop										
Biological Supply (lb/a)										
Crop Removal (lb/a)										
Legume Credit (lb/a)										
Manure Credit (lb/a)										
Nitrogen Required (lb/a)	0	0	0	0	0	0	0	0	0	0
Nitrogen Rate Applied (lb/a)										

4R Recommended Rate (optional)

Considering the 4R principles and applying them to nitrogen management can significantly reduce the rate of fertilizer that is applied to fields. This table gives you a rough estimate of the ideal rate when considering rate, source, timing, and placement.

Instructions

Step1: Using the drop down menus select the option being used for source, time, and placement. SR = Slow Release (e.g. Urease and/or Nitrification inhibitor). Commas indicate multiple sources for split applications. Blend assumes an NPK blend.

Step2: Enter your standard nitrogen rate OR leave default values populated from 'N Balance' worksheet

EfficiencyFactor: A combined factor for source, time, and placement, based on research. Higher values indicate higher Nitrogen Use Efficiency (NUE)

4R Adjusted Rate: A calculated application rate based on source, timing, and placement of Nitrogen.

N Source										
N Timing										
N Placement										
Standard Rate (lbs/a)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4R Efficiency Factor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
4R Adjusted Rate										

Reference Table

Use these reference table to enter the applicable value for the Legume credit portion of the nitrogen balance table on page 3.

Legume Credit Reference Table

Table 3 - Estimates of Nitrogen Credits for Various Legume Scenarios

			N Credit (lbs/a)			
Forage Type	**Minimum % Legume**	**Yrs Established**	**Stand Fair (PEI)**	**Stand Good (PEI) 1**	**OMAFRA [2]**	**Gov Manitoba [3]**
Legumes	50%	1			40	
Legumes	20%	>1			20	
Legumes	30%	>1			50	
Legumes	50%	>1			100	
Alfalfa	50%	2	36	71		
Alfalfa	50%	3	36	71		
Alfalfa	50%	4	36	71		70
Red Clover	50%	2	18	36		20
Red Clover	50%	3	18	36		
Rye Grass		1	0	-13		