



Canola 4R Advantage

More efficient. More precise. More sustainable.

Presented To: IHARF

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Program Overview

Purpose

- Canola 4R Advantage encourages farmers to initiate or advance 4R Nutrient Stewardship practices when growing canola. Growers can apply for funding to help pay for best management practices (BMPs) in four areas: soil testing, enhanced efficiency fertilizer (EEF), preferred application and field zone mapping consulting services.
- Funding has been provided by Agriculture and Agri-Food Canada through the [Agricultural Climate Solutions – On-Farm Climate Action Fund \(OFCAF\)](#). The CCC is one of 12 partners selected across Canada to deliver OFCAF, which is designed to support farmers in adopting BMPs that store carbon and reduce greenhouse gases (GHGs).
- The focus of the CCC program is nitrogen management that supports increased productivity and profitability while reducing nitrous oxide emissions. In addition to providing financial incentives, the program will collect data that will help show the progress Western Canadian farmers are making in GHG reductions as part of the annual National Inventory Report (an inventory of GHG sources and sinks in Canada).

BMPs funded

Growers can apply for funding to help pay for best management practices (BMPs) focused on nitrogen management. Up to 85 per cent of eligible costs can be reimbursed – up to \$12,000 per farm each year (\$6,000 per BMP).

① SOIL TESTING

Soil sampling and lab analysis to help growers optimize nutrient applications based on soil needs and yield potential

② ENHANCED EFFICIENCY FERTILIZER (EEF)

Products designed to release nitrogen over a longer period of time so more nutrients can be taken up by plants, and less nitrogen is lost to the atmosphere

③ PREFERRED APPLICATION

Methods that band nitrogen into soil near seeding time or apply nutrients while canola crops are growing

④ FIELD ZONE MAPPING

Consulting services to help growers pinpoint areas where applying more or less nitrogen can provide the best returns, based on past management practices, yield potential, terrain and a host of other factors



Program Guidelines and Eligibility Criteria

Growers can receive up to...

85%

cost-share

2

BMPs per year

\$6,000

per BMP

up to a maximum **\$12,000** per farm each program year

If the grower will receive any other funding for the BMP(s), the source(s) and amount(s) must be disclosed. All funding from government sources, including Canola 4R Advantage funding, cannot exceed 85 per cent of total eligible project costs.

A farm business can receive a maximum combined amount of \$75,000 in OFCAF funding across all programs delivered by OFCAF recipient organizations for activities completed between February 7, 2022 and March 31, 2024.

All incentive payments must be reported to the Canada Revenue Agency as taxable income for the farm business. Every grower receiving a payment will be issued an AGR-1 Statement of Farm Support Payments form for that calendar year.

Eligible Participants

The program is open to canola growers, including sole proprietorships, corporations, cooperatives, or registered partnerships, located in Alberta, Saskatchewan or Manitoba.

Applicants must:

- Have current operational control over the field(s) included in the application
- Plan to seed those fields to canola to complete the BMP
- Be authorized to legally bind the farm business to the terms and conditions of the program
- Work with a 4R designated agronomist (CCA or P.Ag.) to complete a verified 4R plan for the BMP(s) and field(s) included in the application
- Be implementing new BMP(s) that have not been part of a 4R plan for the field(s) in the past

Please note that:

- All Canola 4R Advantage incentive payments are deemed taxable income for the farm business.
- Only one grower can apply on behalf of the farm business.

The first step: a verified 4R plan

- To participate in Canola 4R Advantage, growers are required to have a 4R Nutrient Stewardship Plan that has been verified by a 4R designated agronomist.
- Growers who don't yet have a 4R Nutrient Stewardship Plan can apply for this program.
- However, the plan must be completed and verified within six weeks of applying, and the application must identify the 4R designated agronomist that they will work with to complete the 4R plan.



Additional BMP requirements

BMPs must be new for the selected field(s)

- To qualify for funding, the grower can't have used the same BMP on a selected field as part of a 4R Nutrient Stewardship Plan in the past. The overall intent is to encourage growers to *initiate or advance* their use of 4R Nutrient Stewardship practices.

Funding can't be sought from another OFCAF program for the same BMP/field combination

- A grower may submit applications to more than one OFCAF program, but not for the same BMP on the same field(s). Growers need to attest that they will not participate in or receive funds from any other OFCAF program for the same BMP and the same field(s).
- A farm business can receive a maximum combined amount of \$75,000 in OFCAF funding across all programs delivered by OFCAF recipient organizations for activities completed between February 7, 2022 and March 31, 2024.
- If the grower will receive any other funding for the BMP(s), the source(s) and amount(s) must be disclosed. All funding from government sources, including Canola 4R Advantage funding, cannot exceed 85 per cent of total eligible project costs.

Eligible BMPs may relate to either the 2022 or 2023 planting seasons

For the current application intake, BMPs are eligible if:

- Eligible expenses are fully paid by the grower between February 7, 2022 and March 31, 2023, and
- BMP activities are completed and canola is planted on the identified fields no later than June 30, 2023.

Eligible Costs

Eligible costs will be reimbursed at up to 85 per cent of costs, to a maximum of \$6,000 per BMP, upon submission of receipts and proof of payment, and completion of all program requirements. Receipts/invoices and proof of payment must be issued in the name of the applicant/farm business. All eligible costs are pre-tax amounts.

For the current application intake, eligible expenses must be fully paid by the grower between Feb. 7, 2022, and Mar. 31, 2023.

- **For soil testing**

- Cost of a basic soil testing package for macronutrients from approved labs
- Costs for third-party soil sampling
- NOTE: Costs for soil lab analysis and third-party sampling may be billed within a single line item on invoices/receipts.
- NOTE: If enhanced lab analysis (beyond a basic soil testing package for macronutrients) is included in the cost item on invoices/receipts, a quote for the price difference between the basic and enhanced lab analysis must be provided, to determine eligible amounts.

- **For enhanced efficiency fertilizer**

- Costs of approved nitrogen and urease inhibitors
- The price difference between standard nitrogen fertilizer and fertilizer with approved urease and nitrification inhibitor products
- The price difference between standard nitrogen fertilizer and polymer-coated urea (ESN)
- NOTE: To be an eligible practice for this program, nitrification and urease inhibitors must be used together, either as a pre-blended product or blended on-farm
- NOTE: The price difference must be supported by the invoice/receipt for the purchased eligible product, and a price quote for the same-day price of standard nitrogen fertilizer (on the same date as purchasing the eligible product)

- **For preferred application:**

- Higher costs (3 cents per pound) of nitrogen fertilizer switched from fall application to either spring banding or a split of spring banding and in-crop application

- **For field zone mapping for variable rate nitrogen**

- Costs of soil mapping to support variable rate application to enhance nitrogen fertilizer efficiency

Ineligible Costs

- Management of nutrients other than nitrogen
- Regular nitrogen fertilizer
- Fertilizer application equipment
- Nitrogen management activities that are not recommended as part of a 4R plan verified by a 4R designated agronomist (CCA or P.Ag.)
- Taxes
- In-kind contributions
- Any portion of costs exceeding fair market value
- Any cost not specifically listed as an eligible cost
- Costs incurred before February 7, 2022
- Costs for BMPs applied to a specific farm area prior to the program
- Any costs not specifically required for the execution of the project
- Invoices/receipts not issued in the name of the applicant/farm business

Attestations

- Growers and their 4R designated agronomists are required to make several attestations when applying for program participation and when making claims for payment.
 - That the BMP activities are new
 - That a 4R Nutrient Stewardship Plan has been verified by a 4R designated agronomist
 - That canola will be planted to the fields to complete the BMP
 - That they aren't applying to other programs for the same BMP-field combination, or exceeding the \$75,000 funding limit across all OFCAF programs
 - Upon completion, that BMP activities have been completed, and canola planted to the fields, in accordance with program guidelines and 4R best practices

Carbon offset programs

The grower has entitlement to all GHG emissions reductions arising from their Canola 4R Advantage project.

- Growers *can use* those GHG emissions reductions to participate in **voluntary** offset credit programs that are not regulatory or government-led, subject to the eligibility requirements set up by the voluntary offset programs.
- Growers *can't* use those GHG emissions reductions to participate in any **regulatory** (government-led) carbon offset program. This restriction only applies to the GHG emission reductions generated by the selected nitrogen management BMP(s) on the farm area supported under Canola 4R Advantage, and generated between the earliest date at which costs are eligible for reimbursement and the completion date of the grower's Canola 4R Advantage project.

Growers should also be aware that it is currently unclear whether participation in this CCC program could affect their eligibility for enrolment in future voluntary or regulated offset markets. Eligibility for participation in these markets will be determined by those developing them.

Please note that the grower is responsible for ensuring compliance with the rules and regulations of any carbon offset market, whether voluntary or regulated.

Audits

- A select proportion of applications will be audited to help ensure that everyone follows the rules and the program is equitable across all canola growers.
- These audits of grower claims would be done by the Canola Council of Canada.
- This may include verification that a 4R plan is in place, that canola was planted on the designated field (via satellite imagery or crop insurance) or other requests to support audit requirements. Please be sure to keep good records in case your claim is among those audited.
- If the audit finds that there has been misrepresentation – either by the grower or agronomist – the application will be invalidated, and the funds must be returned.

Use of grower data

The CCC will collect only the operational data, business and personal information needed to deliver the program and make payments, in compliance with Canadian data privacy requirements. The information we collect may be shared in the following ways:

- With the grower's 4R designated agronomist (CCA/P. Ag.) to facilitate program delivery
- With AAFC only as necessary to administer and report on the program, or to evaluate the scope, direction and effectiveness of agricultural programming
- With the Canada Revenue Agency (CRA) as it pertains to taxable income/benefits. All payments are considered "farm support payments" as per subsection 234(2) of the Income Tax Act R.S.C. 1985, and will be considered income and be subject to income tax. The CCC will issue AGR-1 Statement of Farm Support Payments for each recipient of funding in a given calendar year and report the same to the CRA.

Any program data for public consumption will be reported on an aggregate basis only. For performance reporting, AAFC or CCC may publish statistics such as total acres and number of participants funded by the program incentives. This data could be aggregated on a national basis, or by reconciliation units or Soil Landscapes of Canada ID number across Western Canada.

Key dates for current intake

Applications	Application portal is currently open
When 4R plan must be completed and verified	Within six weeks of submitting an application
Approval decision	<p>Grower will be notified within six weeks of submitting an application and completing their verified 4R plan</p> <p>Upon approval, grower and CCC will enter into a written agreement for the approved funding</p>
When approved growers will start receiving claims form to submit receipts and proof of payment	January 2023
Timeframe for growers to pay eligible costs for current intake	February 7, 2022, to March 31, 2023
Deadline to submit applications for the current application intake	February 17, 2023
Deadline to submit receipts and proof of payment	<p>No later than:</p> <ul style="list-style-type: none"> · February 28, 2023 if the BMP was used for 2022 planting season · April 15, 2023, for soil testing, field zone mapping and fall-applied enhanced efficiency fertilizer (EEF) BMPs, if the BMP was used for 2023 planting seasons · June 30, 2023, for preferred application and spring-applied EEF BMPs, if the BMP was used for 2023 planting seasons <p>We recommend documents be submitted as soon as possible after expenses are paid (once the claims form has been received by the grower).</p>
Deadline to complete activities and submit final attestations (grower and agronomist)	<p>No later than:</p> <ul style="list-style-type: none"> • February 28, 2023 if BMP was used for 2022 growing season • June 30, 2023 if BMP was used for 2023 growing season <p>We recommend final attestations be submitted as soon as possible after activities are completed.</p>
Incentive payments issued by CCC	After BMP activities are completed, canola is planted to the field(s) and final attestations are submitted by both the grower and agronomist

Information for 4R designated agronomists

4R designated agronomists (CCA or P.Ag.) working with a grower to seek funding from Canola 4R Advantage will be required to:

- Work with the grower to complete a verified 4R plan covering the BMP(s) and field(s) specified in the application
- Ensure that the BMP(s) recommended meet the [eligibility criteria](#) of Canola 4R Advantage
- Complete the agronomist portion of the grower's application, including attestations about the grower's 4R plan and BMP(s)
- Review incentive claims submitted by the grower for approved projects, and confirm that:
 - The claimed BMP(s)/expenses meet the standards for 4R practices and eligible BMP(s), and
 - The grower has completed the BMP(s) and planted canola to the field(s).

An agronomist may also initiate an application on a grower's behalf (with their consent), and/or assist with the grower's claim preparation once approved for funding.



BMP requirements

Soil testing

Canola 4R Advantage can reimburse up to 85 per cent of the cost of a basic soil testing package for macronutrients, plus 85 per cent of any third-party soil sampling costs (if applicable).

To be eligible for incentives from this program:

- Total sample depth must be a minimum of 12 inches.
- Soil analysis for nitrogen content must be conducted using analytical protocols recognized by the Soil Science Society of America.
- Soil testing must be done by one of these approved laboratories:
 - Agvise Laboratories
 - A&L Canada
 - AGAT Laboratories
 - Down to Earth
 - Farmers Edge
 - Western Ag
 - Elements
 - Midwest Laboratories
- Soil sampling methods and criteria must be prepared and signed off by a 4R designated agronomist.

Please note that the program covers the cost of **basic** macronutrient lab analysis. If the grower opts for an enhanced analysis service, the additional cost must be indicated on the receipt or invoice so that eligible costs can be determined for this program.

Enhanced efficiency fertilizer (EEF)

- The following products are eligible for this program. For all products on this list, the active ingredients and formulations have been scientifically tested and documented for effectiveness.
- More products may be added to the list in future program years if efficacy can be demonstrated by independent testing.
- Nitrification and urease inhibitors must be used together (either as a pre-blended product, or purchased separately to be blended on-farm) to be an eligible practice.

	Active ingredient	Brand name
Nitrification inhibitors	Pronitridine	Centuro
	DCD	Eclipse-D 66
	Nitrapyrin	eNtrench NXTGEN
	Nitrapyrin	N-Serve
Urease inhibitors	NBPT	Agrotain Dry Maxx
	NBPT	Agrotain Ultra
	NBPT	ARMU
	NBPT	ContaiN
	NBPT	ContaiN MAX
	NBPT	ContaiN Duo
	NBPT	Eclipse-N
	NBPT	Nitrain 2.0
	NBPT	Nitrolizer
	NBPT	N-Yield CX
Dual inhibitors	NBPT/Duromide	Anvol
	NBPT/DCD	Neon Air
	NBPT/DCD	Neon Surface
	NBPT/DMPP	ArmU Advanced
	NBPT/DCD	Agrotain Plus SC
Controlled-release nitrogen	NBPT/DCD	SuperU
	NBPT/Pronitridine	Tribune
		Polymer-coated urea (ESN)

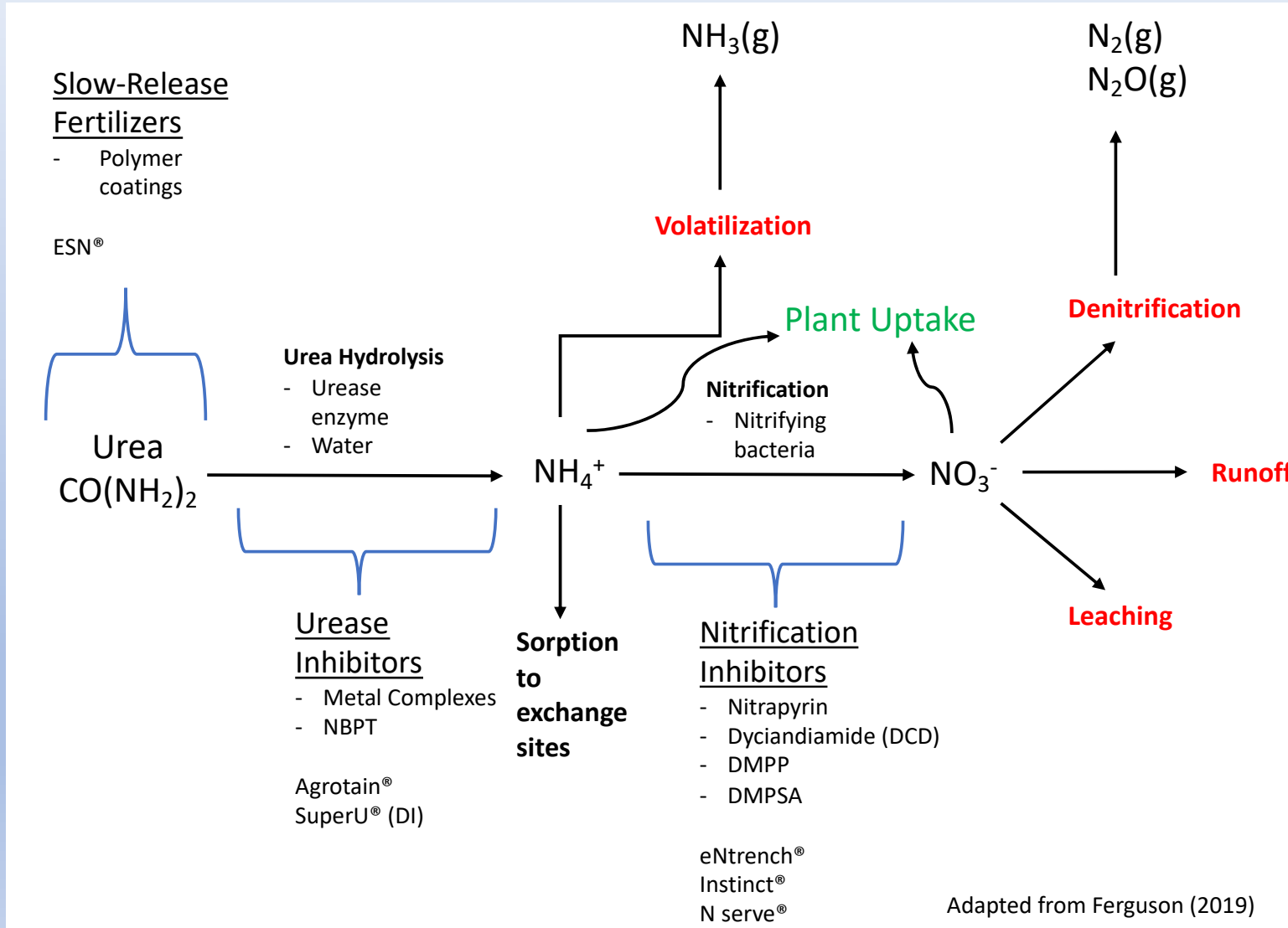
EEFs in the N Cycle

4 Main Types

Urease Inhibitors (UI)
- slows urease enzyme

Nitrification Inhibitors (NI)
- slows nitrifiers

Slow-Release Fertilizers (SRF)
- slows nutrient release



Dual Inhibitors (DI)
- UI+NI

Preferred application

The CCC program can reimburse up to 85 per cent of the higher cost (3 cents per pound) of nitrogen fertilizer switched from fall nitrogen application to either of these two preferred options:

- **Spring banding of fertilizer directly into soil**, where nutrients can be readily captured and converted into a non-gaseous form that will be less likely to escape as greenhouse gases
- **Split application**, with a portion of fertilizer applied at planting through banding, and the remainder applied in-crop

To be eligible, the grower's fertilizer plan and fertilizer application(s) must be approved and verified by a 4R designated agronomist.

Field zone mapping for variable rate nitrogen

Canola 4R Advantage can provide incentives to use consulting services that help identify optimal nitrogen rates for different field zones, considering management practices, soil properties, yield potential, terrain, cropping history and more.

To be eligible:

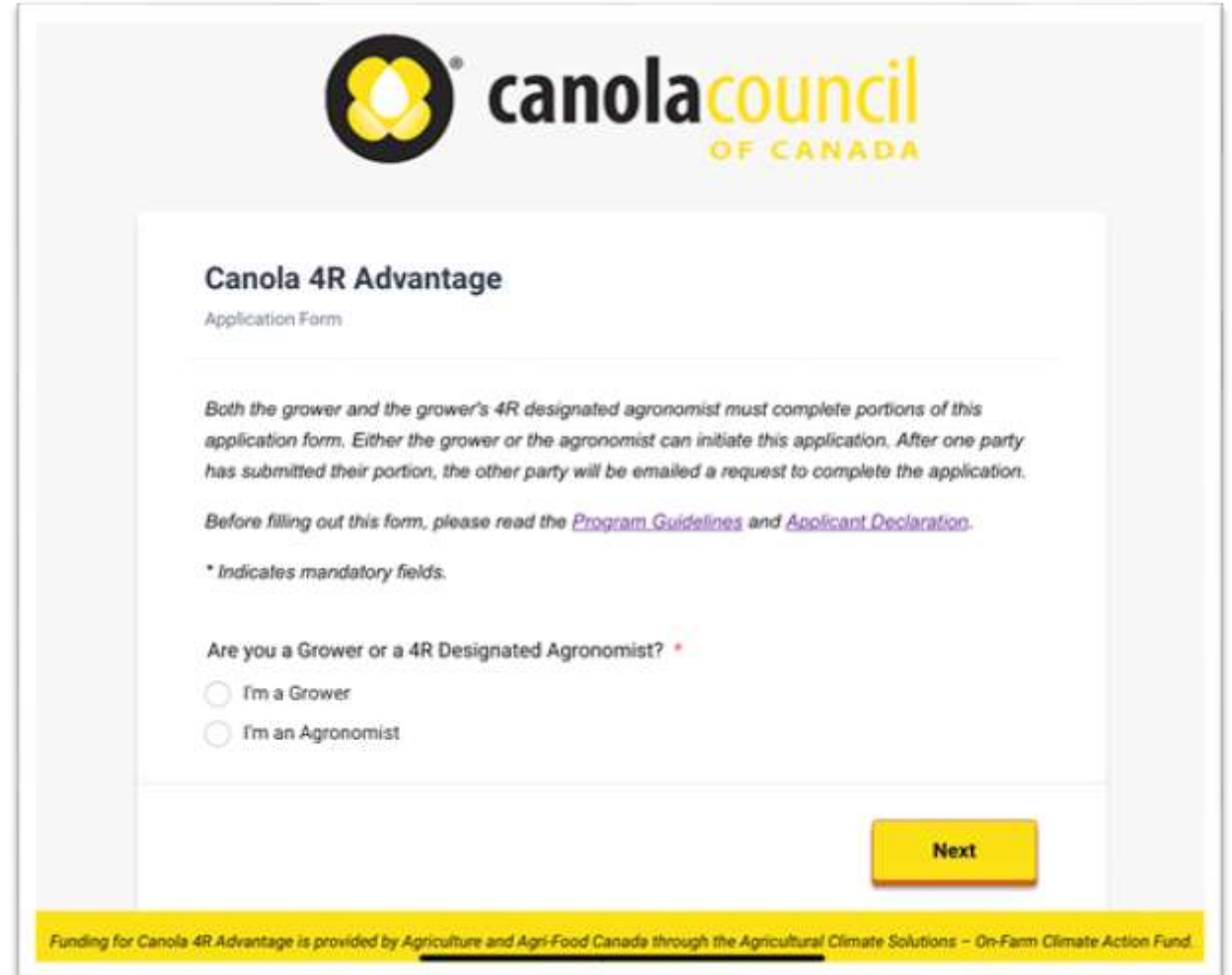
- Field zone mapping must include at least two zones for nitrogen application.
- A 4R designated agronomist must prepare and sign off on the soil zone mapping criteria and methodology.
- The 4R designated agronomist must also verify that the appropriate nitrogen rates were applied to each zone.



Applications

Applications

- Digital platform for online applications
- The deadline to submit applications for the current application intake is February 17, 2023.
 - The dates for the next application intake will be announced in spring 2023.
- Complete and eligible applications reviewed on a first-come, first-serve basis
- To ensure funds are fairly distributed, there will be caps on the amount of funding available for each BMP category, and regionally across the nine Reconciliation Units (RU) in Western Canada. If categories become oversubscribed, waiting lists will be created.



The screenshot shows the Canola 4R Advantage Application Form interface. At the top right is the Canola Council of Canada logo. The main heading is "Canola 4R Advantage" with the subtitle "Application Form". Below this, there is a paragraph explaining that both the grower and the grower's 4R designated agronomist must complete portions of the form. It states that either the grower or the agronomist can initiate the application, and after one party has submitted their portion, the other party will be emailed a request to complete the application. Below this paragraph, there is a link to "Program Guidelines and Applicant Declaration". A note indicates that an asterisk (*) denotes mandatory fields. The form asks, "Are you a Grower or a 4R Designated Agronomist?" with two radio button options: "I'm a Grower" and "I'm an Agronomist". A yellow "Next" button is located at the bottom right of the form. At the very bottom of the page, a yellow banner contains the text: "Funding for Canola 4R Advantage is provided by Agriculture and Agri-Food Canada through the Agricultural Climate Solutions – On-Farm Climate Action Fund."

Program inquiries

Contact information:

- 4RAdvantage@canolacouncil.org
- Direct: (204) 982-2121
- Toll-free: (888) 492-0007
- Visit www.canolacouncil.org/4r-advantage for more information.



QR code to CCC website

A close-up photograph of a field of bright yellow flowers, likely rapeseed or mustard. The flowers are in various stages of bloom, with some showing their four-petaled structure. The background is a soft, out-of-focus field of similar flowers, creating a warm and vibrant atmosphere. The text 'THANK YOU!' is overlaid in a clean, white, sans-serif font, centered horizontally and slightly above the middle of the frame.

THANK YOU!

Questions?