

FERTILIZER USE IN CANADA

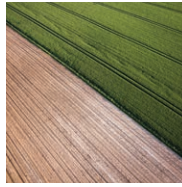


4R NUTRIENT STEWARDSHIP GROWER ADOPTION

The Fertilizer Use Survey assists in understanding the current state of fertilizer management in Canadian crop production and how growers use and make decisions about fertilizer applications.

Conducted between the 2014 and 2017 growing seasons, in cooperation with the Canadian Field Print Initiative, the survey gathers data on fertilizer management practices and current knowledge of 4R Nutrient Stewardship (Right Source @ Right Rate, Right Time, Right Place®) from growers across the country. The survey also captures baseline data about major grain, oilseed and pulse crops in Canada. This information is essential for developing sustainability metrics and sound 4R Nutrient Stewardship strategies.

The 3-year survey has collectively captured data on fertilizer use from **3,292 Canadian growers** who have completed an online survey detailing fertilizer use practices on **8.3 million acres** of cropland.



GROWERS ARE MORE FAMILIAR WITH 4R AND RELY ON TRUSTED ADVISORS FOR 4R ADVICE



57%

OF 2017 GROWERS SAID THEY GET THEIR 4R ADVICE FROM THEIR AGRI-RETAILER



66%

OF 2017 GROWERS ARE FAMILIAR WITH 4R NUTRIENT STEWARDSHIP.



43%

SAID THEY ARE LOOKING FOR ADVICE FROM A CCA OR PAG WITH 4R KNOWLEDGE



x2

THE NUMBER OF FARMERS VERY FAMILIAR WITH 4R NUTRIENT STEWARDSHIP HAS ALMOST DOUBLED SINCE 2014.

FARMERS ACROSS CANADA ARE CURRENTLY IMPLEMENTING 4R NUTRIENT STEWARDSHIP



ON AVERAGE

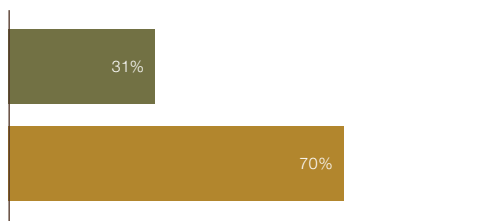
70%

OF CANADIAN CROP ACRES ARE OPERATING UNDER THE PRINCIPLES OF 4R NUTRIENT STEWARDSHIP

BASIC CRITERIA UNDER 4R NUTRIENT STEWARDSHIP

■ Aware they are practicing 4R BMPs

■ Practicing 4R BMPs



Only 31% of growers who practice 4R are aware they are operating under the program. **The next challenge is to verify these acres under 4R Designation or 4R Certification, so we can share the story of sustainable agriculture in Canada.**

ADOPTION OF 4R BMPs ON CANADIAN FARMS

THE STANDARD FOR SUSTAINABLE NUTRIENT MANAGEMENT

The Fertilizer Use Survey demonstrates that Canadian growers are implementing 4R Nutrient Stewardship best management practices (BMPs) on their farms.

As the nation-wide adoption of 4R Nutrient Stewardship continues, these BMPs are becoming the standard for sustainable nutrient management.



RIGHT SOURCE

In canola production in Western Canada, the number of growers tailoring their fertilizer application field by field is increasing.



24% OF CANADIAN GROWERS IN 2017 USE AN ENHANCED EFFICIENCY FERTILIZER (EEF) SOURCE, WHICH HAS INCREASED FROM 2015.



RIGHT RATE

In 2017, 64 per cent of growers said they test for phosphorus every three years – that's good news for the protection of lakes and other key water bodies.

21 per cent of 2017 growers indicated they test for nitrogen every year. An annual soil test is a recommended 4R BMP to determine Right Rate.



64% OF GROWERS TEST FOR P EVERY YEAR

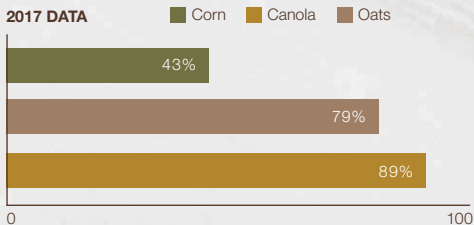


21% OF GROWERS TEST FOR N EVERY YEAR



RIGHT TIME

The majority of Canadian growers apply fertilizer at spring planting - which is a recommended 4R BMP.



RIGHT PLACE

In Western canola production, the vast majority of N,P,K,S fertilizer by nutrient volume is applied by banding or seed-placement.



In Eastern corn production, almost half of N, P, S fertilizer and a third of K fertilizer by nutrient volume is banded or seed placed.



4R BMPs SPANNING THE CANADIAN LANDSCAPE



ALBERTA



82% of Alberta growers apply primary nitrogen fertilizer at seeding which is shown to increase profitability and reduce GHG emissions.



MANITOBA



37% of spring wheat growers in Manitoba applied an enhanced efficiency fertilizer (EEF) or urea in the spring at or before planting and 14% of Manitoba wheat growers used an EEF. These BMPs have been shown to reduce GHG emissions by up to 20% and 55%, respectively.



ONTARIO



70% of Ontario corn growers apply phosphorus by banding or seed-placement, which has been demonstrated to reduce phosphorus run-off by as much as 60% (in comparison to broadcast application).



SASKATCHEWAN



Over 78% of canola acres and 97% of spring wheat acres receive in-soil placement of phosphorus at planting which can reduce phosphorus run-off by up to 75%.

**THIS IS JUST A SNAPSHOT -
VISIT THE FULL SURVEY
RESULTS AT
WWW.FIELDPRINT.CA**

Thanks to the sponsors for making this work possible: Fertilizer Canada, Canadian Canola Growers Association, CropLife Canada, Grain Farmers of Ontario, Manitoba Pulse and Soybean Growers and Pulse Canada.

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Growing Forward 2 

 Canada