

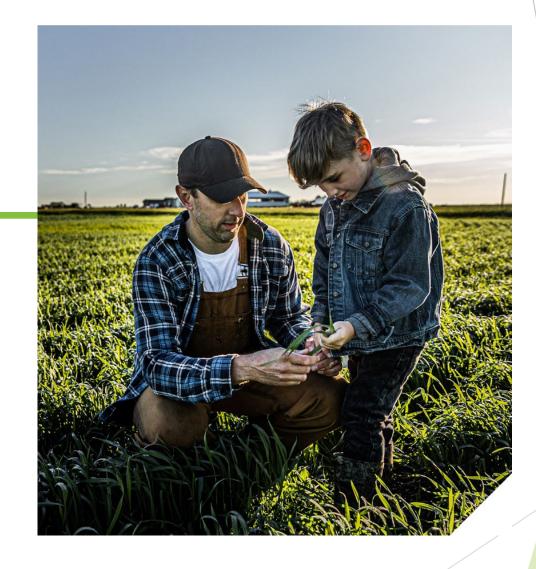
GROWN WITH PURPOSE

GROWING FOR TODAY AND TOMORROW



Agenda

- Sustainability
- Farmers and Sustainable Ag
- Grown With Purpose
- Farm to Fork
- Wrap up





Canadian Agriculture

Big Business Big Opportunity Big Responsibility

- 1. Canada is the 5th largest agricultural exporter in the world.
- Canada is the largest exporter of Flax, Canola, Peas, Lentils and Mustard.
- 3. Agriculture employs over 2.3 million people in Canada.
- 4. 1 in 8 Canadian jobs are in Ag and Agri-Food.
- 5. There are approximately 158 million acres of total farm area.



Canadian Agriculture

Big Business Big Opportunity Big Responsibility

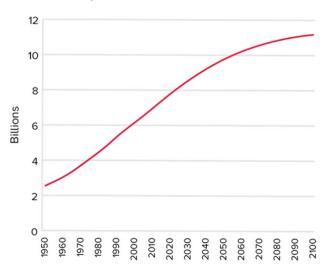
- 6. Field crop area is 78.5 million acres.
- 7. 97% of farms are family farms.
- 8. The amount of energy consumed per dollar of agricultural output fell 17% from 1990 to 2016.
- 9. Canada is third leading countries capable of producing enough food to feed itself and help feed a global population currently growing.
- 10. Farming generates about 8% of Canada's greenhouse gas emissions.

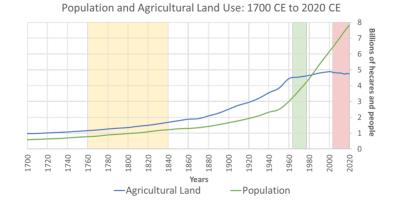


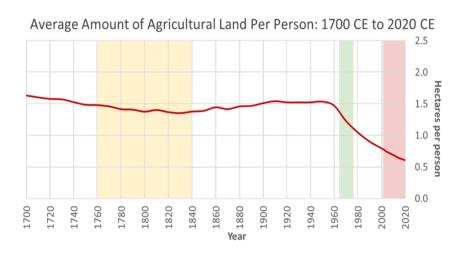
Sustainability



Predicted Population Curve, 1950-2100







Why is sustainability such a HOT topic



Defining Sustainability

SUSTAINABLE AGRICULTURE IS DEFINED BY THREE INTERACTIVE COMPONENTS.

"SUSTAINABILITY" IN AGRICULTURE DESCRIBES LONG-TERM APPROACH TO BUSINESS ON-FARM.

Economic Profitability



Environmental Stewardship



Social Responsibility





Economic Profitability

- Economic Sustainability means that a farm is managed in a way that ensures its long-term profitability.
- First pillar of Sustainability. Does it make economic sense?
- ROI is another key aspect.
- Sustainable Agriculture allows farmers to dig into their operations and dig into the economics of them.
- Diversifying crops, developing local markets, and reducing dependency on external inputs are strategies employed to achieve this goal.



Environmental Stewardship

- Sustainable agriculture seeks to enhance and maintain the quality of the natural resources it uses.
- Key pillars of Environmental Stewardship are
 - ► Soil health Management
 - ► Water Management
 - ▶ Pest and Disease Management
 - ► Waste Management



Social Responsibility

- Different impacts in different geographies
- ► Mental Health
- ► Public Trust, Education and resources
- ► Ethical Business Practices





HOLISTIC

To be Sustainable



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CONNECTING WITH CONSUMERS

Here is what Canadians know about modern farming practices:

Know a lot about farming practices



Know little to nothing about farming practices

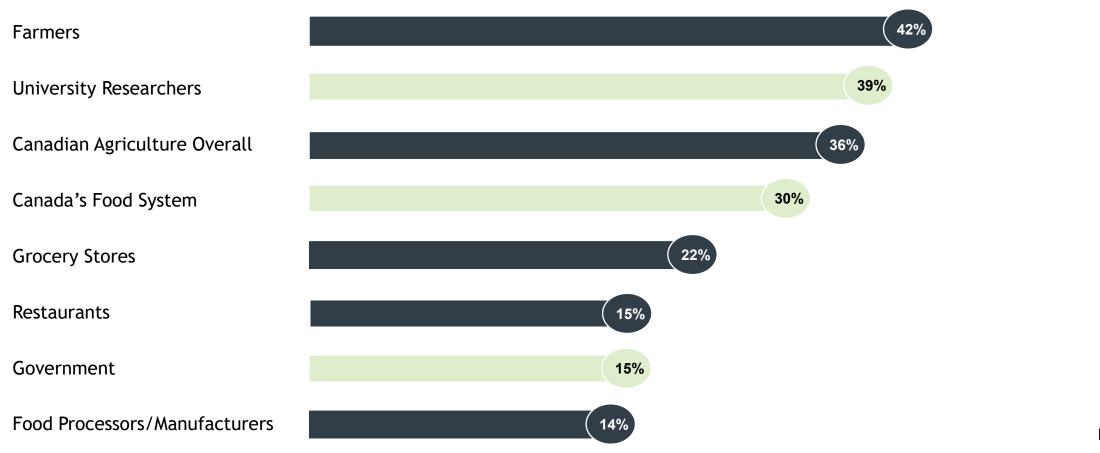




3 in 5 Canadians want to learn more about agriculture.

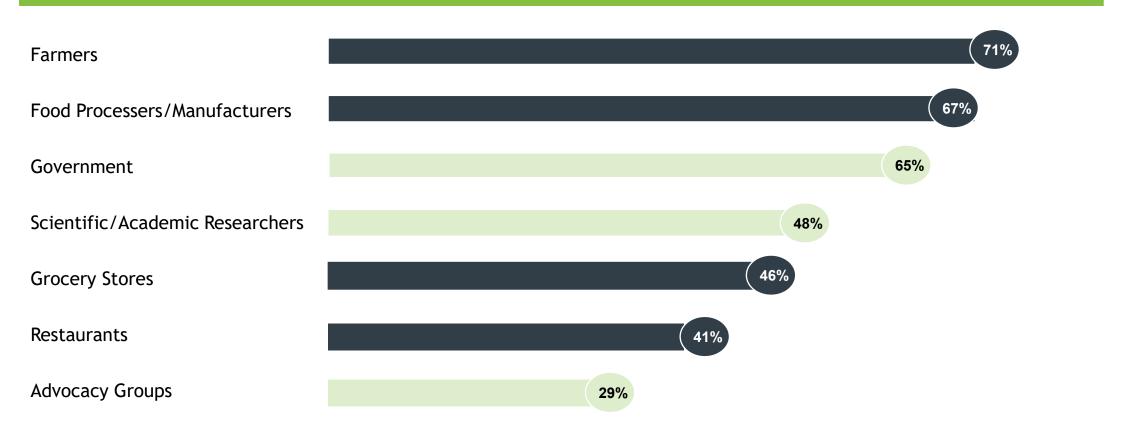


WHO DO CONSUMERS TRUST?

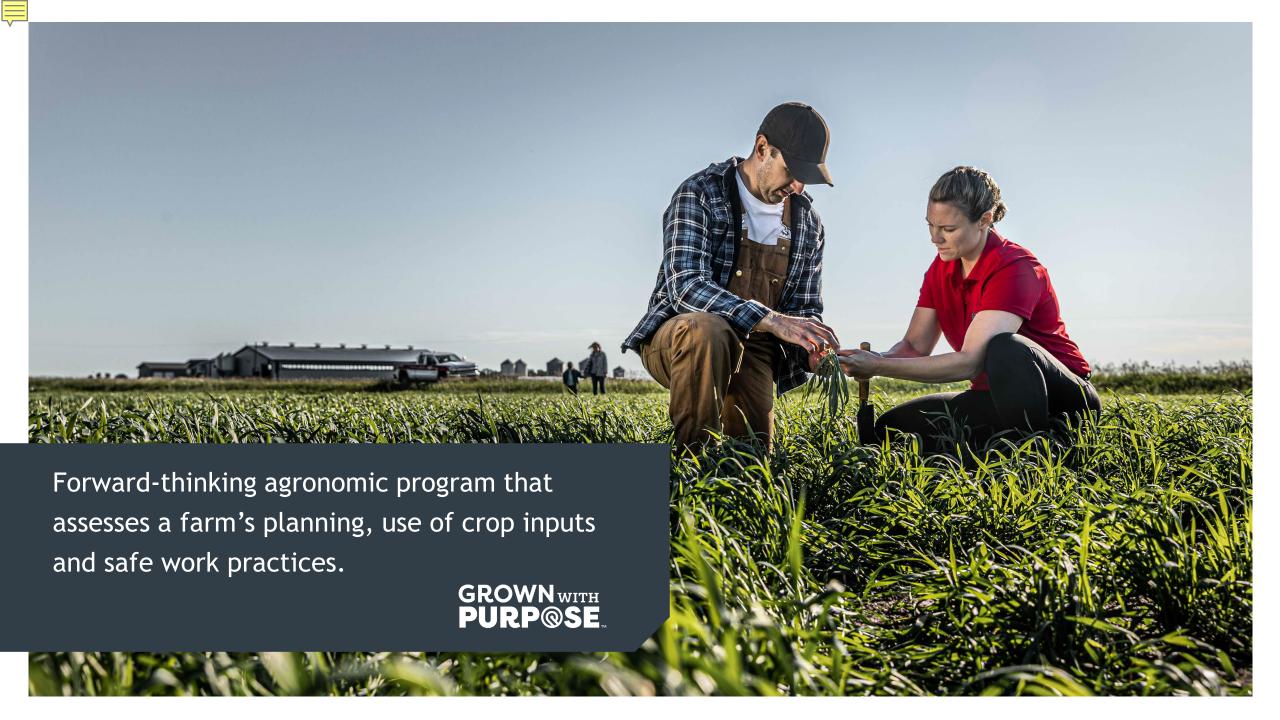




WHO DO CANADIANS HOLD RESPONSIBLE FOR PROVIDING THE INFORMATION?







Through sustainable actions we can protect our soil, water and air for society.

CLIMATE



DRINKING WATER

WATERSHED









Economically, Environmentally, and Socially Sustainable Crop Production. nutrient stewardship

RIGHT



SOURCE

Matches fertilizer type to crop needs.

RIGHT



RATE

Matches amount of fertilizer to crop needs. RIGHT



TIME

Makes nutrients available when crops need them.

RIGHT



PLACE

Keeps nutrients where crops can use them.

Learn more about 4R Nutrient Stewardship. 4r.fertilizercanada.ca





Crop yield

Did you rev

Crop rotation

Pest resistar

Agronomic Co

Soil health

Health and Safety

PPE used when mixing protection products or fertilizer?

Proper storage of crop p products and fertilizers?

Understands what to do i exporesure to fertilizers al protection products?

Has a procedure in the evel chemical spill and/or produ

Saskatchewan Province:

Postal Code: S1S 1S1 Mr Test Name: Farm Name: Test Farm Grow Team: Test

Sep 11 2018 Saskatoon Date: Retail:

RM/County: Co	orman Park			INITERMEDIA	ADVANCED 4R ACRES
CROP	TOTAL ACRES	TOTAL 4R ACRES	BASIC 4R ACRES	4R ACRES	200
Lentils	400	200	0	0	~ the

Based on your responses, you may consider implementing the

Mapping geo-referenced field boundaries is an important step in variable rate technology, soil testing, field scouting following practices.

Herbicide layering, used to mitigate herbicide resistance, is the sequential application of herbicides with different

Follow proper container disposal methods. All containers should be triple- or pressure-rinsed, punctured to render the container non-reusable and delivered to designated disposal sites. Please refer to Cleanfarms.ca for specific

An economic threshold is the insect's population level or extent of crop damage at which the value of the crop destroyed exceeds the cost of controlling the pest. Economic thresholds can be expressed in a variety of ways, container disposal procedures. including the number of insects per plant or per square metre or the amount of leaf surface damage. For economic thresholds of insects, please refer to Grow Team's Agronomy Quick Guide.

Take note of buffer zones as identified on product labels or in the provincial crop protection guides. Don't spray when the wind is blowing towards a nearby senstive crop, shelterbelt, garden or water body. Newer labels may indicate the distances required from the downwind edge of the boom, but older labels may not.

Equipment calibration (seeding, spraying, combining) is an important agronomic consideration to optimize yield.

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CO-OP AGRO IT'S HERE.





Sustainable GWP

Economical

- •Increase ROI
- •Increase Yield
- Decrease overheads
- •Soil Sample
- •Nutrient and pest management

Social

- •Health and Safety practices on farm
- Mental health
- •A way to tell you farm Story
- •Farm to Fork

Environmental

- Buffer Zones
- Proper rates
- •Beneficial insect discussions
- •Soil Sampling
- Water management

Farmers can generate reports that can show and prove their sustainability practices through Grown with Purpose! They can also have their acres reported directly to Fertilizer Canada to report their 4R acres.

FARM TO FORK AND GROWN WITH PURPOSE

Co-op Creates a Unique Farm-to-Fork Experience











Co-op Agro Centre

The team at each local Co-op Agro Centre works with Western Canadian producers to advise them on the best production practices and supply them with the products needed to grow, fuel, equip, feed and build their farms and ranches.

Western Canadian Producers

Crops are grown and livestock is raised on locally owned and operated farms and ranches.



Designation given to products grown with verified sustainable farming practices.

Processing Collaboration

Fresh fruits and vegetables, quality meats and innovative food products are made right here in Western Canada from locally produced ingredients.

Co-op Food Store

Food store shelves are stocked with highquality products that are made, manufactured, grown, processed, raised or roasted in Western Canada.

Western Canadians

Members enjoy a broad selection of delicious, local food products and benefit from cashback and equity.









CREATING CONNECTIONS WITH CO-OP GOLD LAGER

Gordon Moellenbeck on his mixed farm operation near Englefeld Saskatchewan.

- Works with the Grow Team at Humboldt Coop
- Collaboration with grower, distiller & brewer
- Gordon has been a Co-op member "forever"
- Focus on environmental stewardship and safe practices
- Keeping small, local communities viable
- Tasting Event at Saskatoon Co-op







Let's Raise a Glass to Co-op Gold Lager!









Sold in Co-op liquor stores all over Saskatchewan!

Co-op Gold Lager is a well-balanced refreshing crisp, clean lager, lightly hopped with minimal after taste and 5% alcohol/volume.

Available in 6 pack cans.

- Gordon relies on Coop for everything from groceries to crop inputs.
- Co-op provides
 agronomic expertise
 to local growers to
 produce safe,
 nutritional food in a
 sustainable manner
 that is sold on grocery
 shelves at local Coops across Western
 Canada.





WHAT'S NEXT FOR GWP AND FARM TO FORK?

Grown With Purpose

- Carbon, and Nitrous oxide in field real time data collection
- Moving GWP into our digital agronomy suite AgZone Field
- Market opportunities*
- Carbon Credits*
- Looking at moving Grown With Purpose Grain into different Business units
 - GWP grain in feed mills that can be fed to livestock creating a closed loop on farm to fork GWP products.

