

Cropping Infographics

Submitted by Paul Jungnitsch, Alberta Agriculture and Forestry

Introduction

An [infographic](#) is a collection of imagery and charts aimed at giving an easy to understand overview of a topic. Communicating information quickly and clearly with minimal text is the goal. A great way to illustrate data, simplify complex information, show comparisons, and raise awareness, infographics are now used by many agricultural sectors and are especially useful at connecting with consumers. Following up on an article last issue that highlighted livestock, here is a sampling that showcases the cropping industry.

Canola

Canola overview

<https://albertacanola.com/wp-content/uploads/2019/09/Canola-Alberta-Infographic-2019-Sept.pdf>

“What is Canola Oil?” on Vimeo

<https://vimeo.com/38371166>

Canola by the Numbers

<http://www.ccg.ca/policy/Pages/Canola-by-the-Numbers.aspx>

Canola, a Canadian Crop with a Big Impact

<http://www.ccg.ca/policy/Documents/Canola%20Information%20Booklet%20-%20Web.pdf>

Canola: Growing Opportunity for Canada

https://www.canolacouncil.org/media/584359/canola_economic_impact_fact_sheet.pdf

Canola’s Sustainable Future

<http://www.ccg.ca/policy/Documents/Sustainability-201909.pdf>

Facts on Canola Farming and the Environment

https://cdn1.canolainfo.org/media/files/downloads/pdfs/Canola_Sustainability.pdf

Market Access

<https://www.canolacouncil.org/markets-stats/market-access/>

Health Benefits of Canola Oil

<https://www.canolacouncil.org/oil-and-meal/canola-oil/health-benefits-of-canola-oil/>

The World’s Healthiest Cooking Oil

https://www.canolacouncil.org/media/501782/canola_oil.pdf

Canola Meal, the Protein for Today’s Livestock

<https://www.canolacouncil.org/media/561212/Canola%20Meal%20Brochure.pdf>

Canola-Based Biofuels

http://www.ccg.ca/policy/Documents/canola_biofuels_factsheet.pdf

Canola: The Perfect Candidate for Biodiesel and Renewable Diesel

<https://www.canolacouncil.org/canola-biofuels/canola-biofuels/canola-the-perfect-candidate-for-biodiesel-and-renewable-diesel/>

Canola Biodiesel: Making a Difference in Canada

<https://www.canolacouncil.org/canola-biofuels/canola-biofuels/canola-biodiesel-making-a-difference-in-canada/>

The Truth About Biotech Canola

<https://biotech.canolacouncil.org/>

Fast facts on grain transportation

<http://www.ccg.ca/policy/Pages/Transportation.aspx>

Wheat and Barley

Fungicide Resistance

[http://www.agpartners.ca/aeapa/Portals/0/2019-GROWING_POINT_FUNGI_INFOGRAPH%20\(1\).jpg](http://www.agpartners.ca/aeapa/Portals/0/2019-GROWING_POINT_FUNGI_INFOGRAPH%20(1).jpg)

Contribution to Yield

http://www.agpartners.ca/aeapa/Portals/0/Percent%20contribution%20to%20yield_infographic.pdf

Spray Timing

<http://www.agpartners.ca/aeapa/Portals/0/Optimal%20Spray%20timing%20.pdf>

How Sprouting Affects Falling Number

<https://albertawheat.com/media/the-growing-point/the-growing-point-october-2019/how-sprouting-affects-falling-number>

21 Facts About Pasta that Will Leave You Drooling

<https://www.dailyinfographic.com/pasta-facts>

How the CFIA tests for GM wheat

<http://www.inspection.gc.ca/plants/plants-with-novel-traits/general-public/wheat-detection-2018/infographic/eng/1528485846718/1528485966303>

Make sense of the data fueling the barley industry

<http://growbarley.com/overview/statistics>

Where does Canada's barley go and what is it worth?

<http://growbarley.com/overview/markets>

Pulses

Secret Life of Pulses. from Pulses.org

<https://pulses.org/pulse-hub/infographics/download?path=the-secret-life-of-pulses.pdf>

Pulse Fact: Affordability and Food Security from Pulses.org

https://pulses.org/pulse-hub/infographics/download?path=infographic_affordability_and_food_security.pdf

Everything you need to know about lentils. From Pulses.org

<https://pulses.org/pulse-hub/infographics/download?path=lots-of-lentils-embed-large.jpg>

How do we feed more people sustainably? From Pulses.org

https://pulses.org/pulse-hub/infographics/download?path=infographic_sustainability.pdf

Mankind's ancient love affair with pulses. From Pulses.org

<https://pulses.org/pulse-hub/infographics/download?path=mankinds-acient-love-affair-with-pulses.pdf>

Pulses A Healthy Food Choice. From Pulses.org

https://pulses.org/pulse-hub/infographics/download?path=infographic_a_healthy_food_choice.pdf

Pulses and Climate Change. From Pulses.org

<https://pulses.org/pulse-hub/infographics/download?path=pulses-and-climate-change.pdf>

Surprising facts about pulses that you might not know. From Pulses.org

https://pulses.org/pulse-hub/infographics/download?path=infographic_surprising_facts.pdf

Sustainability of Pulse Crops. From Pulses.org

https://pulses.org/pulse-hub/infographics/download?path=infographic_crop_sustainability.pdf

Pulses and Nutrition. From Pulses.org

https://pulses.org/pulse-hub/fact-sheets/download?path=iyp_factsheet_nutritionpanels.pdf

Alberta Crop Growing Zones from Albertapulse.com

<https://albertapulse.com/growing-pulses/growing-zones/>

What are Pulses? from Albertapulse.com

<https://albertapulse.com/eating-pulses/>

Batch cooking and health food swaps with lentils. From Lentils.org

<https://www.lentils.org/wp-content/uploads/2018/01/FINAL-4660-SPG-Retail-Fact-Sheet-TD-WEB.pdf>

Getting started with lentils. From Lentils.org

<https://www.lentils.org/wp-content/uploads/2015/06/Get-Started-with-Lentils-General-Info-Sheet-ENG.pdf>

Lentils health and nutrition. From Lentils.org

https://www.lentils.org/wp-content/uploads/2015/06/Lentils_HN_Infographic.pdf

Sugar Beets

See here for all

<http://www.albertasugarbeets.ca/content.php?p=7>

Potatoes

Fun Facts

<https://www.albertapotatoes.ca/fun-facts>

Potato Nutrition

<https://www.albertapotatoes.ca/uploads/files/Images/consumers/Potato%20Nutrition.png>

Potato Types in Alberta

<https://www.albertapotatoes.ca/uploads/files/Documents/PGA%20Top%20Varieties.png>

The Potato Unpeeled: Nutritional Facts and Information

<https://www.dailyinfographic.com/the-potato-unpeeled-nutritional-facts-information-infographic>

Pinpointing Innovations

Submitted by Declan Riley, Alberta Agriculture and Forestry

In the past 10 years, the combination of advancements in technology and the developments agricultural sciences have combined for what we now call precision agriculture. Precision agriculture has multiple different streams that farmers can use to optimize their production and understanding of their crops. Utilizing satellite imagery, infield moisture measurements and maximizing scientific involvement, farmers know more about their crops and yields than ever before.

Precision farming is making life easier for farmers and others in the agriculture industry, but some may argue the biggest pay off is the cost savings.

Farmers now have the technology to pin point weeds in the field down to the centimeter, eliminating waste of water and chemical. Farmers are utilizing satellite imagery that can show yield of crops by square meter, showing which spots in the field have different needs. Farmers have machines to process their milk yields and contents in real time, while the cow is attached to the machine.

Kings Lake Hutterite Colony, located just outside the small hamlet of Foremost, Alberta, has started to utilize the technology of the 21st century in a major way. As a successful recipient of the Innovation category under the Environmental Stewardship and Climate Change program for producers under the Canadian Agricultural Partnership, Kings Lake Colony was provided with the opportunity to upgrade their spraying technology on their farm to something few people in Canada have had the chance to use.

WeedIt, a precision spraying system using advanced infrared technology, can determine the difference between crops and weed while in action, and then proceeds to only spray the specific weed with accuracy of a couple centimeters. This technology is not only limiting the amount of time spent spraying, but also limiting the amount of chemical being put into the ground. With these efficiencies of the machine operating, the return on investment for the technology is in the tens of thousands in dollars, and water inputs are being cut in half.



“Once we had saw what the machine could do and what it would change around the farm, there wasn’t much debate on whether or not we should get it,” says Mike Waldner, Farm Boss for the Kings Lake Hutterite Colony.

“It’s more than just the amount of chemicals that are being saved from going in the ground during spraying. We are using a fraction of the water that we used to be, which means that we are using much less fuel on our machines. It’s not a question of whether or not we should implement these practices, we have to be doing this.”

Under the Environmental Stewardship and Climate Change program for Producers, the Canadian Agricultural Partnership has a section devoted to supporting agricultural innovation. The Innovation theme supports three main areas of innovation: 1) the introduction of a proven technology, process or service that is new to the agricultural sector in Alberta, 2) significant modifications to the application of existing technologies, processes or services that are applied in a setting or condition for which current applications are not generally accepted and/or practiced and 3) improvements to an existing technology, process or service that represents a significant improvement in functionality, cost or performance of goods and services that are considered state of the art or new to the agricultural sector in Alberta.

Dale Chrapko, Manager of Environmental Programming in the Ministry of Agriculture and Forestry witnesses firsthand which technologies are being supported through these grants and how the different technologies are changing things on the farm.



“Producers in our province are always researching new ways of becoming more efficient, being better managers of their natural resources. Sometimes that research leads them to technologies developed and proven in other industries or countries. The program provides an option to bring in some new technologies that would otherwise be cost prohibitive.” – Dale Chrapko

The Innovation theme within the Environmental Stewardship and Climate Change Program is just one step taken by the Government of Alberta to not only advance agricultural technologies in



Alberta, but also to ensure that our farmlands preserved.

To find out more about Alberta's Public Agriculture Literacy program offered by the Canadian Agricultural Partnership or any of the other programs offered by Canadian Agricultural Partnership contributing to the agricultural education of Alberta, visit their website cap.alberta.ca or call 310-FARM.



Partner Profile - Alberta Milk

Submitted by Karlee Conway

Who is Alberta Milk?

Alberta Milk is a non-profit organization that represents the province's dairy farmers. We are driven by grassroots representation and our board of directors and delegates are all licenced dairy farmers. We support dairy farmers in their work to produce safe, nutritious food in an economically, socially and environmentally sustainable way.

What Do We Do?

We undertake a variety of activities that represent the interests of Alberta's dairy producers.

Marketing

From Calgary Stampede to Aggie Days, Alberta Milk is dedicated to telling the good stories of Alberta's dairy farmers and the nutritious benefits of dairy. We also work within Alberta's education system to help teach students about dairy nutrition and dairy farming practices.

Research

Our support of research and development is driven by the overarching purpose of ensuring the sustainability of milk production. Our dairy farmers value the importance of research and annually invest approximately \$400,000 into projects and initiatives focusing on animal care to reproduction to nutrition.

Transportation

Alberta Milk directs the sale and delivery of all raw milk, within the province of Alberta, which is sold to licenced dairy processors. Milk is picked up from each farm at least every second day and every load of milk is tested to ensure its high quality.

Extension

We believe the adoption of new information and technology is vital to continued improvements. Through workshops, articles, and conferences, we help share information to improve day-to-day operations on the farm.

Policy

Direction and policy for our dairy farmers is executed on a grassroots approach. Our board of directors and delegates, all whom are dairy farmers, establish policies to better support our producer body.

Government relations

We represent the interest Alberta's dairy farmers on municipal, provincial and federal jurisdictions. We do this by connecting with elected officials and sharing our concerns related to a specific issue.

What's New?*New General Manager*

We are pleased to welcome Freda Molenkamp-Oudman as our new general manager.

Freda brings over 20 years of progressive experience and agriculture knowledge. She comes to Alberta Milk from Alberta Agriculture and Forestry where she was the assistant deputy minister of the strategy, planning and governance division. She replaced Mike Southwood who retired after 19 years.

High-Tech Dairy Facility to be Built in Alberta

Dairy Innovation West (DIW) is a state-of-the-art facility which is the first of its kind in Canada. The technology will remove water from raw milk that will create concentrated components required by dairy processors to be used in a variety of dairy products. The facility will have the capacity to accommodate up to 300 million litres of milk per year.

A priority of this facility is to reduce the environmental impacts of transporting milk across the four western provinces. DIW will reduce trucking emissions by 50 per cent by reducing the volume.

Biosecurity Module of proAction®

Through proAction, Canadian dairy farmers collectively demonstrate responsible stewardship of their animals and the environment, sustainably producing high-quality, safe, and nutritious food for consumers. On September 1, 2019, the latest farmer module to come into effect was biosecurity whereby farmers across the country implement best management practices to minimize or prevent the introduction of infectious disease agents.

This is the fifth out of six modules that provide proof to customers that our farmers work to ensure Canadian milk is high quality and safe and they work to continually improve animal health and welfare.

Contact

Please go to albertamilk.com for more information about Alberta's dairy industry.

1303 91 St SW Edmonton, Alberta T6H 1H1

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AlbertaLandInstitute.ca/LandUse



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FOR IMMEDIATE RELEASE

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WHEAT INITIATIVE'S – AGRONOMY EXPERT WORKING GROUP SEEKS FARMER INPUT ON EXTENSION

Grower survey will help shape the future of wheat extension tools

Berlin, Germany, October 15, 2019. The Wheat Initiative's - Agronomy Expert Working Group is trying to better understand how knowledge mobilization and technology transfer tools can be adapted to meet regional needs in a digital world. A first step in this endeavor is to conduct a GROWER survey of what knowledge transfer tools are working in different jurisdictions.

Under the leadership of wheat agronomists from the USA, Canada and Australia, the team has prepared a survey to determine the most trusted sources of agronomic information and how growers like to receive extension information. We are trying to help growers determine credible vs. non-credible agronomic information sources.

We encourage survey responses from all wheat growing areas of the world. The survey takes only 5-10 minutes to complete and it will stay open until December 31, 2019. The survey can be found at:

https://docs.google.com/forms/d/e/1FAIpQLScgdSilugpPzK-S_qFrVxtHgM0xn2N8csY_y6wMSlwy6Tvvww/viewform?usp=sf_link.

Results from this survey will be used to structure the development of credible wheat agronomic extension information tools.

Created in 2011 following endorsement from the G20 Agriculture Ministries, the Wheat Initiative provides a framework to establish strategic research and organisation priorities for wheat research at the international level in both developed and developing countries. The Wheat Initiative actions will lead to the creation of improved wheat varieties and to the dissemination of better agronomic practices worldwide. The combination of new varieties and agronomic practices will in turn allow farmers to improve and stabilise wheat yields in diverse production environments.

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If you would like more information about this topic, please call Whitney Buchanan, Communications Manager Wheat Initiative, at +49 (0)30 83042601 or email wheat.initiative@julius-kuehn.de.