





A QUICK REVIEW



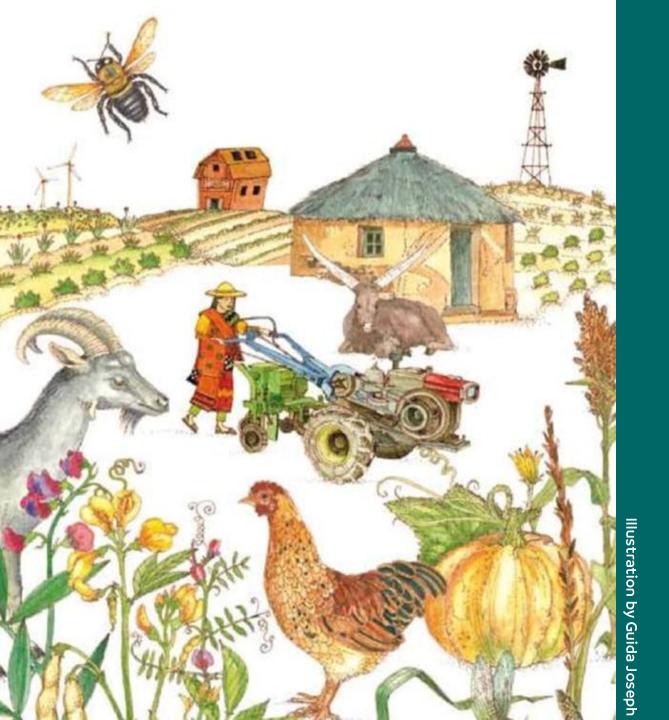
We have looked at how the landscape across Canada has changed over time and how that has impacted these ecosystems.



RESTORING NATURE

How can agriculture continue to evolve to help restore nature and our grassland ecosystems?



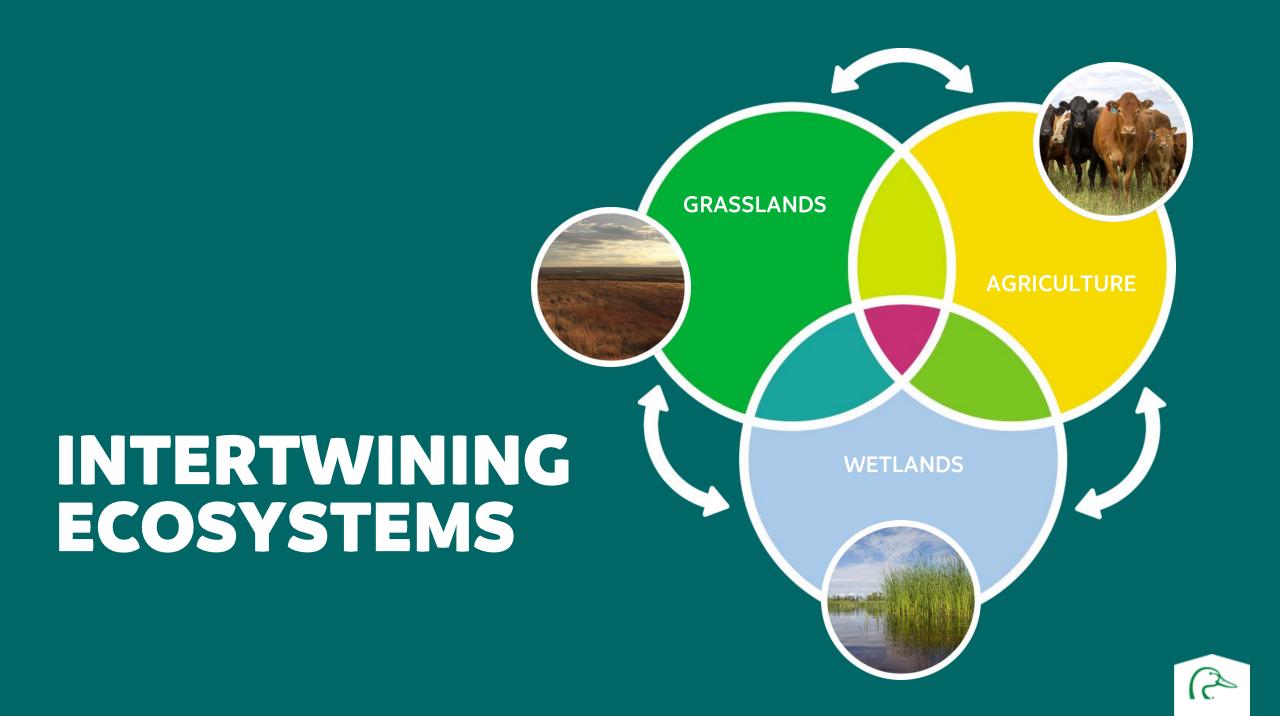


SUSTAINABLE & REGENERATIVE AGRICULTURE

Sustainable Agriculture:
Methods that do not deplete
our current resources or
compromise the needs of
future generations

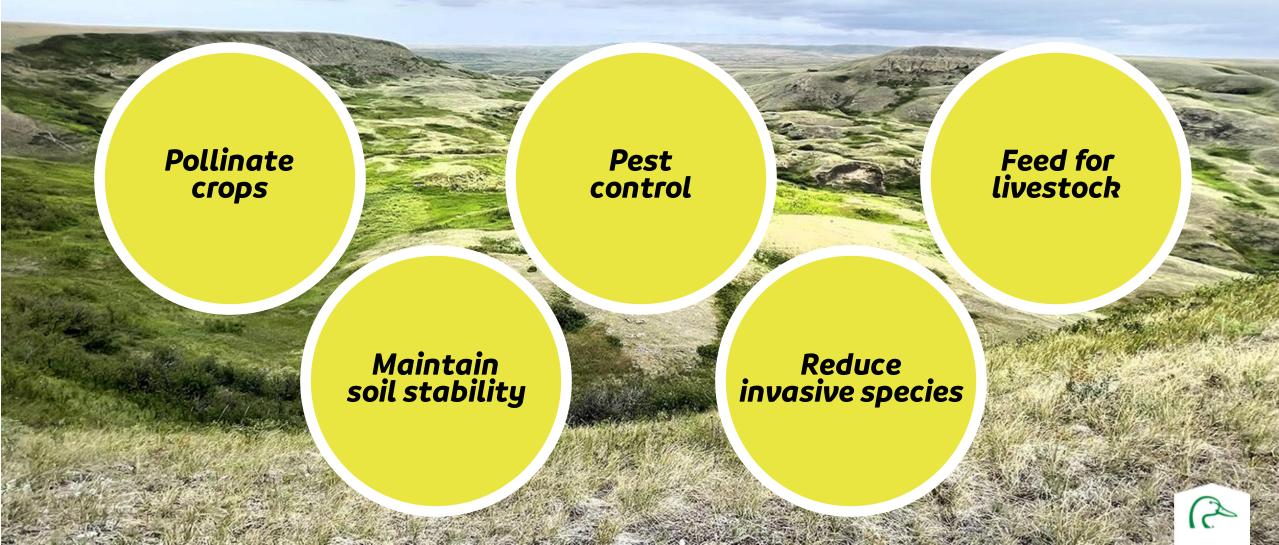
Regenerative Agriculture: Methods which *improve* our resources





GRASSLANDS TO THE RESCUE!

How our grasslands support agriculture







GRASSLAND HEROES TO THE RESCUE!

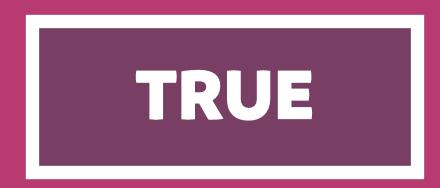
Explore the people and practices that can help to improve our ecosystems





TRUE OR FALSE?

Lands managed by Indigenous communities hold more biodiversity than national parks.





RESTORING INDIGENOUS-MANAGED LANDS

20%

of the Earth's territory is Indigenous-managed lands, which contain

80%

of the world's remaining biodiversity.





HOW INDIGENOUS-LED MANAGEMENT IS HELPING

1. Restoring Grasslands

- Restoring cultivated lands
- Fire management
- Saving and preserving seeds



1. RESTORING GRASSLANDS

RESTORATION & FIRE MANAGEMENT



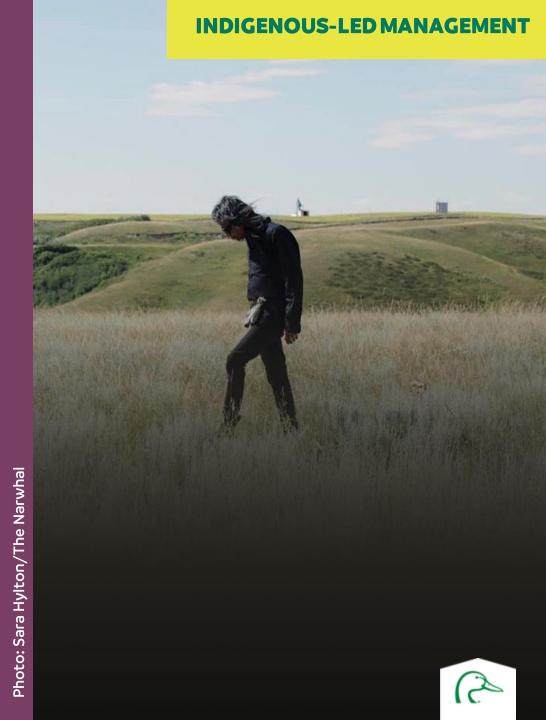
REDUCES THE NEED OF PESTICIDES



CONTROLS
INVASIVE SPECIES



IMPROVES BIODIVERSITY

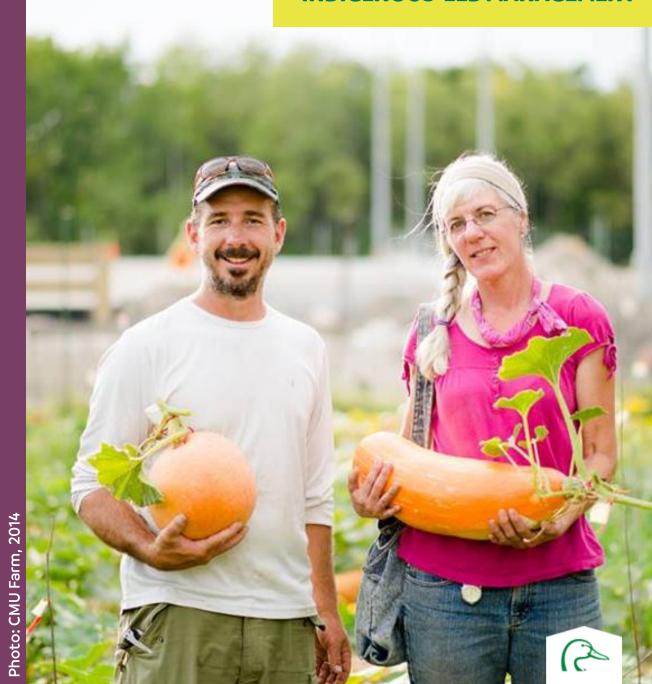


1. RESTORING GRASSLANDS

SAVING SEEDS

In Canada, three-quarters of all the crop varieties we used to grow before the 20th century are extinct.

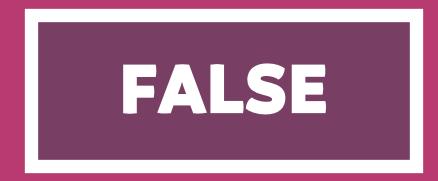
Of the one-quarter that remains, only 10% of that is available from Canadian seed companies.





TRUE OR FALSE?

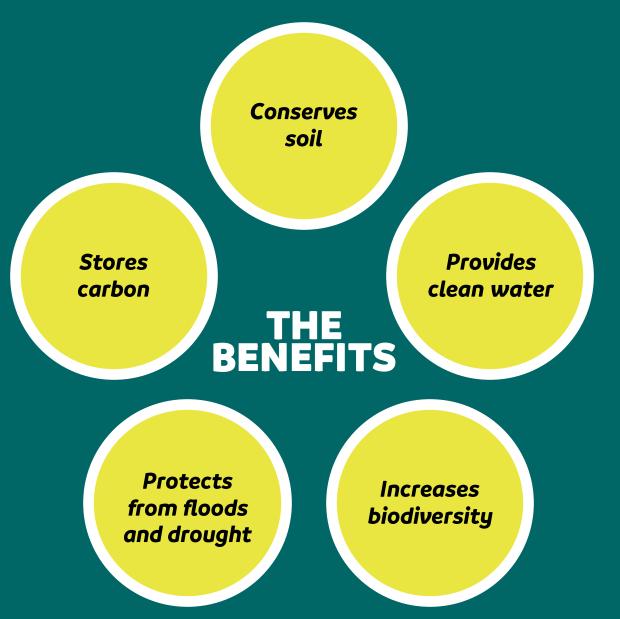
Cattle and cattle ranchers damage grasslands.





HOW CATTLE FARMERS ARE HELPING

- 1. Protecting existing habitat
 - Support for grass-based agriculture
 - Manage riparian areas
- 2. Managing grasslands with cattle





1. PROTECT EXISTING HABITAT

SUPPORT FOR GRASS-BASED AGRICULTURE

Having a beef industry in Canada is one way to protect our temperate grassland ecosystem!







IMPROVES BIODIVERSITY



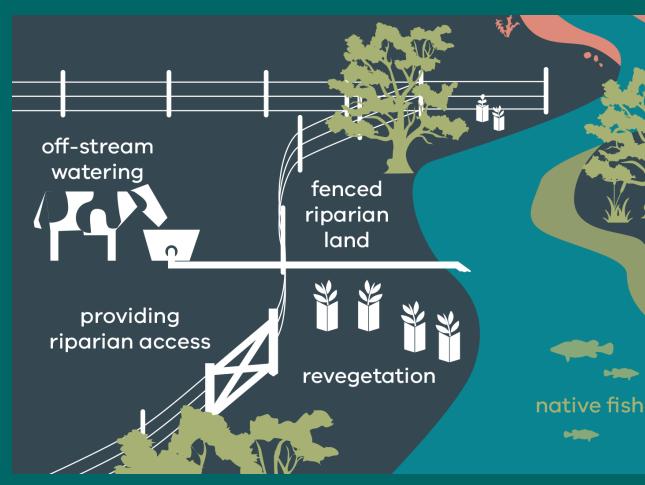
1. PROTECT EXISTING HABITAT

RIPARIAN AREA MANAGEMENT

Riparian areas are areas that are beside lakes, rivers, streams, and wetlands







State Government of Victoria, Energy, Environment & Climate Action, 2023



CATTLE FARMERS

2. MANAGING GRASSLANDS WITH CATTLE

GRAZING

Grasslands, tame pastures and native ecosystems evolved with grazers. Remember the bison?







STORES CARBON



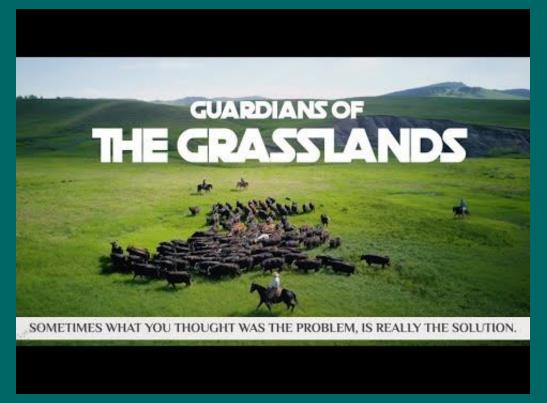
IMPROVES BIODIVERSITY

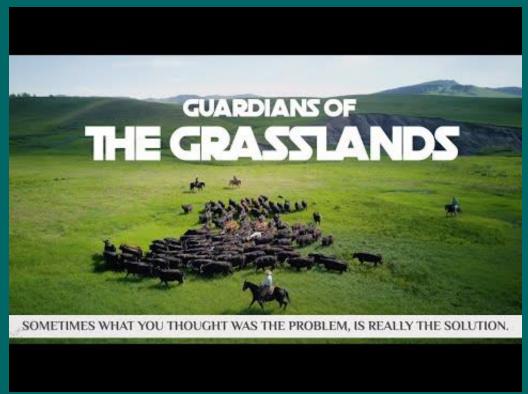


Photo: Sara Hylton/The Narw



MYTH BUSTING



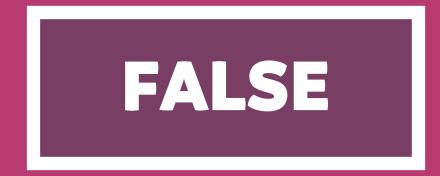






TRUE OR FALSE?

Crop farmers ruin soil over time.





HOW CROP FARMERS ARE HELPING

- 1. Protecting existing habitat
- 2. Practicing sustainable and regenerative agriculture methods
 - No-tillage
 - Crop rotation and intercropping
 - Integrated Pest Management
 - Cover Crops
 - Planting winter wheat





NO-TILLAGE

No-tillage keeps the remains of the previous crops in place and doesn't turn up the soil.



PREVENTS EROSION



INCREASE STORED CARBON



IMPROVES BIODIVERSITY



Photo: Sara Hylton/The Narwhal

CROP ROTATION AND INTERCROPPING

Crop Rotation: Planting different crops on the land from year-to-year

Intercropping: different crops are combined in a single plot







Photo: Mary-Jane Orr

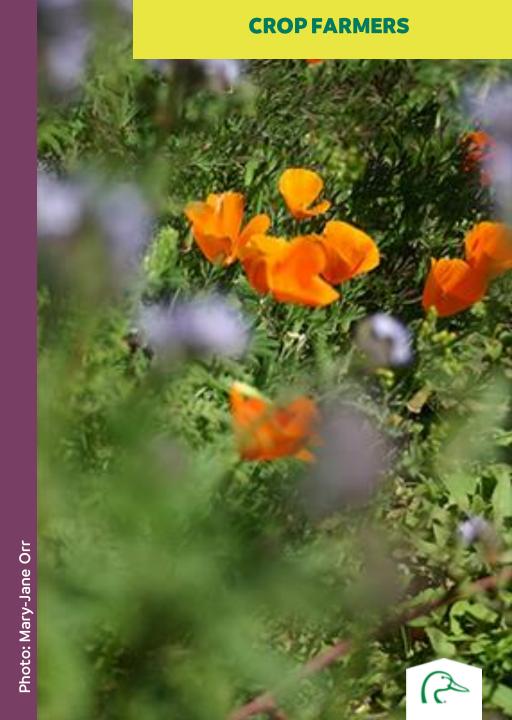
INTEGRATED PEST MANAGEMENT

Integrated Pest Management: uses an ecosystem-based strategy to prevent pests through biological control, use of crop rotations, and habitat manipulation.



CONTROLS PESTS





WINTER WHEAT

Winter wheat is a cover crop that provides soil cover as well as habitat for waterfowl and birds.



PROVIDES SOIL COVER



MANAGES WEEDS AND PESTS



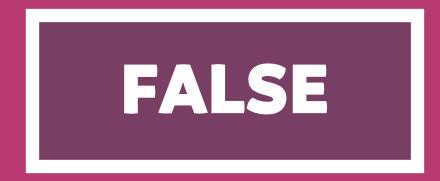
PROVIDES HABITAT





TRUE OR FALSE?

Ducks Unlimited Canada only cares about ducks.











HOW DUCKS UNLIMITED CANADA IS HELPING

2. SCIENCE AND RESEARCH



HOW DUCKS UNLIMITED CANADA IS HELPING

3. EDUCATION



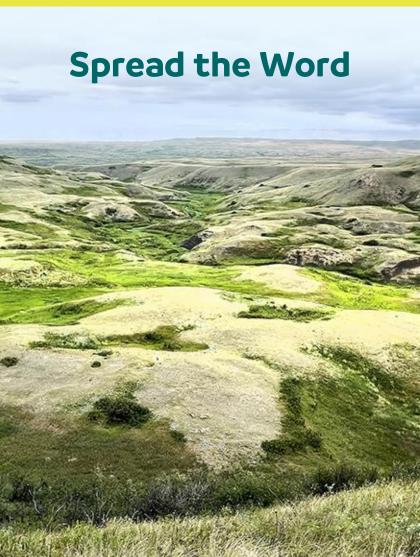


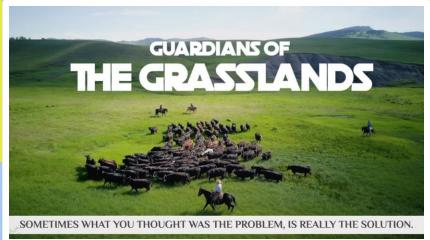
WHAT CAN YOU DO?

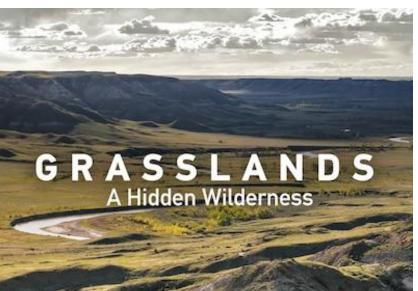


PERSONALLY





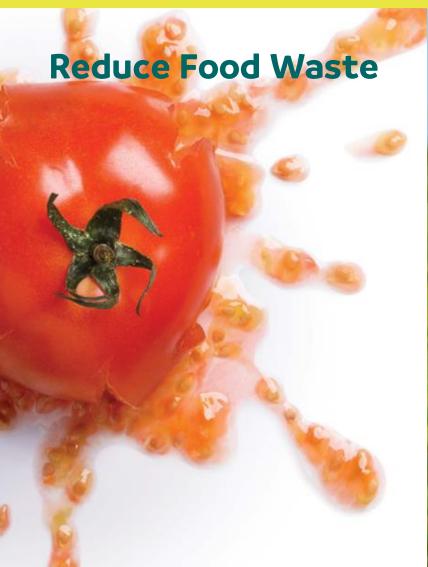




Continue to Learn



AT HOME







No Mow May!



IN YOUR COMMUNITY



PROJECT BEEWISE





REMEMBER YOU CAN MAKE A DIFFERENCE...

...BUT YOU'RE NOT ALONE!



DUC EDUCATION WANTS TO HELP TOO!

Have an idea? We want to hear about it!

Send us a message at education@ducks.ca

Follow us on Instagram: @duc_youth

Share your story with us! Let us amplify your voice for conservation and share your projects!

