PULSE CANADA

Canadian Pulse Farmers: Regenerative Agriculture in Practice

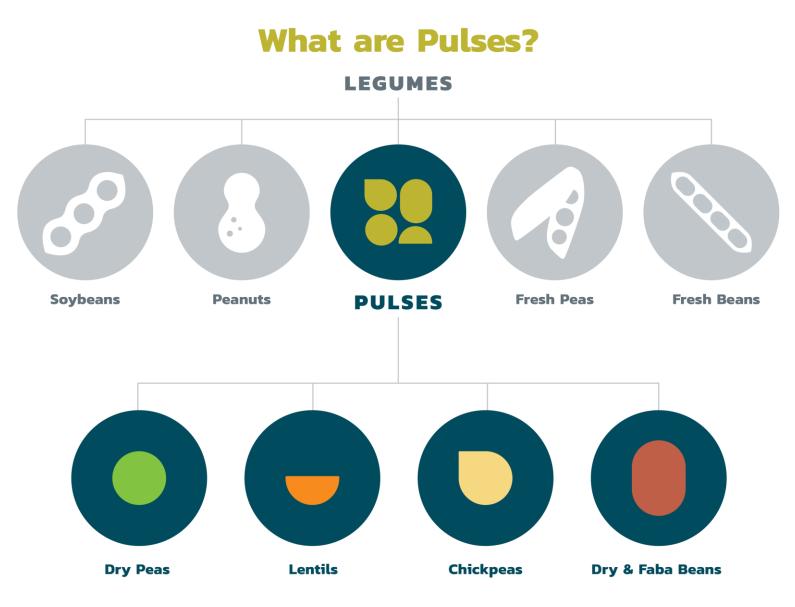
Denis Trémorin Director of Sustainability, Pulse Canada

PULSE CANADA

The national association representing growers, traders and processors of Canadian pulses.

We help companies capitalize on the nutrition, health, sustainability and functionality benefits of Canadian Pulses through knowledge creation and translation.





CANADA'S PULSE INDUSTRY

Regenerative Agriculture

6 Main Principles:

- Reduced tillage
- Keep the soil covered
- Maximize crop diversity
- Understand the context of the system
- Living roots
- Livestock integration into cropping systems



Two Risks in Canadian Prairies: Short Season and Dry



Courtesy: Agriculture and Agri-Food Canada



.

Old Methods: Tillage and Fallow



BREAKING THE PRAIRIE WITH STRAM FLOW













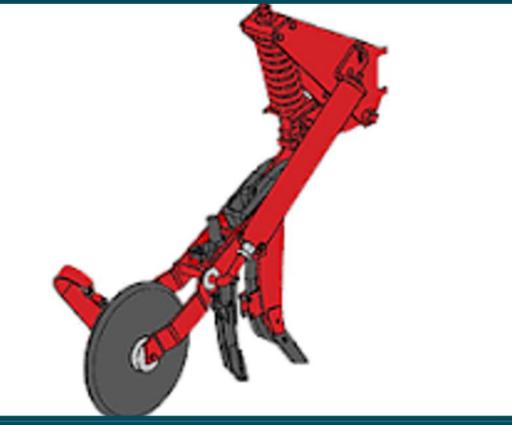
Rescue Operation: Trees and Pasture









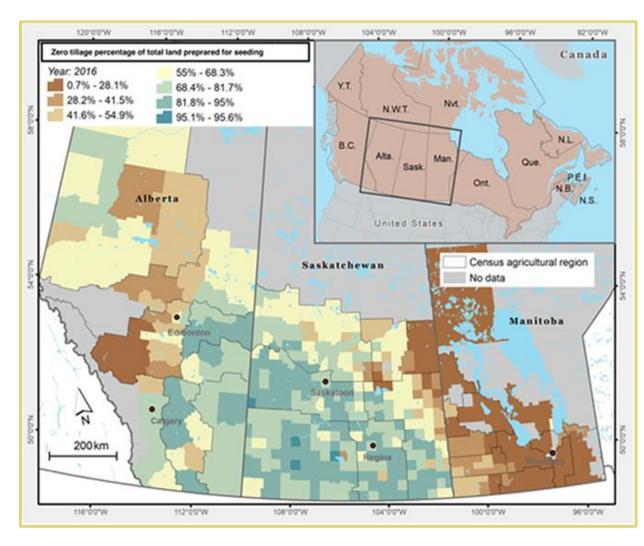






Adoption of Zero-Tillage

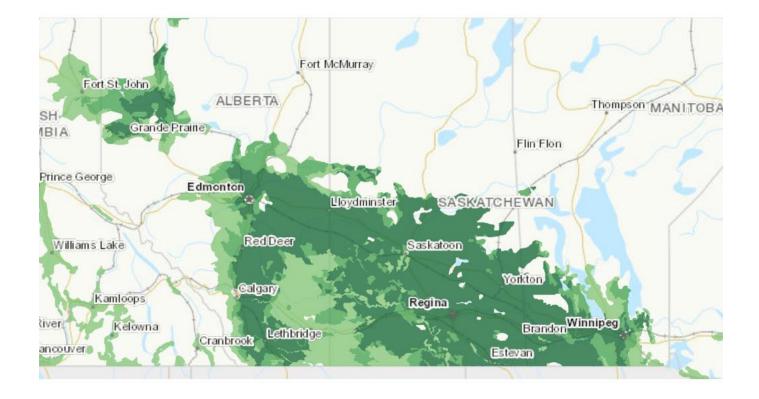
 Massive adoption of zero-tillage and reduced tillage on the Prairies



Carbon Sequestration: Prairies

- Results across
 Prairies
 - Massive increase in soil organic carbon
 - Near elimination of soil erosion
 - Increased soil fertility,
 soil moisture retention

bon change (in kilograms per hectare) from 1981 to 2016 due to chan





Canadian Pulses and Regenerative Agriculture

Alignment with 6 Main Principles

- Reduced tillage
- Keep the soil covered \checkmark
- Maximize crop diversity
- Understand the context of the system
- Living roots
- Livestock integration into cropping systems

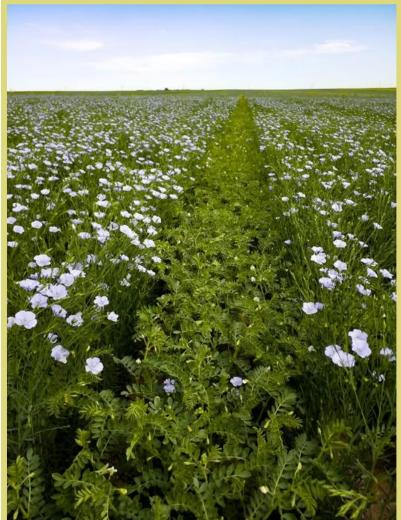




Canadian Pulses and Regenerative Agriculture

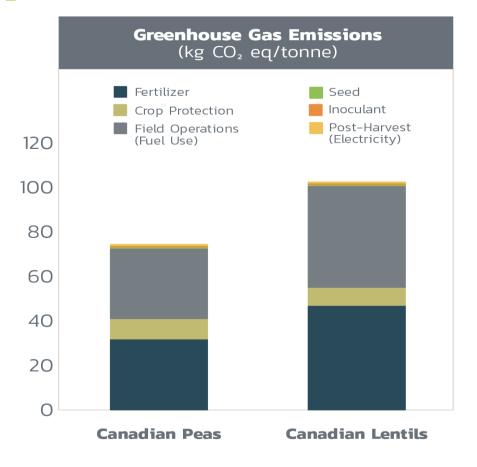
What's next?

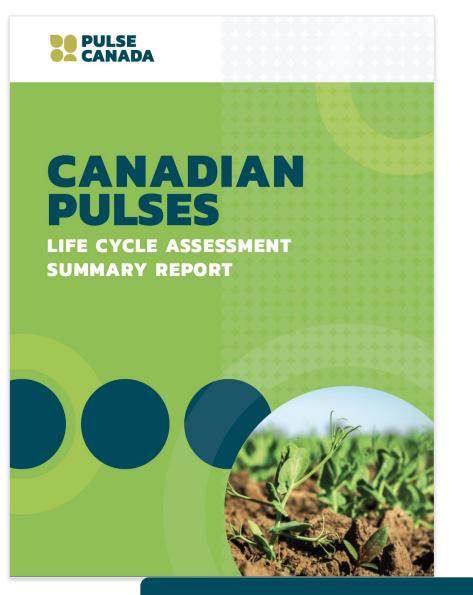
- Cover crops very farm and site specific
- Intercropping
 - Pea/canola, chickpea/flax
- Strip tillage
- Crop diversification
 - Faba beans, chickpeas





Life Cycle Assessment: A Comprehensive View of Impact





pulsecanada.com/sustainability



- Regenerative Agriculture may be a new term, but Canadian pulse farmers have been adopting the principles for decades
- No-till agriculture and diversification of rotations have driven massive economic and environmental benefits
- When sourcing Canadian pulses, they come with a great story that compliments the current focus on regenerative agriculture



Questions?

Denis Trémorin, Pulse Canada dtremorin@pulsecanada.com

