

What's new & notable in Saskatchewan's Grain Bag Recycling Program

Cleanfarms presentation for ARWMAS

October 30, 2020


cleanfarms

About Cleanfarms

Our Vision:

Cleanfarms contributes to a healthier environment and a sustainable future by recovering and recycling agricultural and related industry plastics, packaging and products.

Approach:



Cleanfarms: industry-led, funded



Cleanfarms Programs



pesticide containers



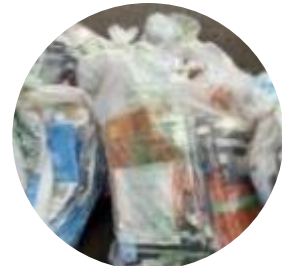
pesticide bags



bulk pesticide containers



bulk fertilizer containers



seed & pesticide bag pilots (SK)

1989

1998

2006

2009

2013

2015

2016

2018

2020

obsolete pesticides

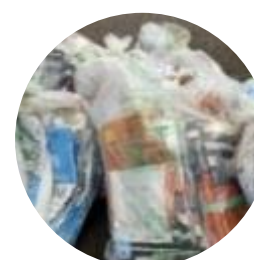
obsolete animal health meds.

fertilizer containers

seed bags (East)

grain bags (SK)

fertilizer super sacks (QC)



Grain bag recycling in Saskatchewan

2018

- 1,257 metric tonnes of grain bags
 - ~6,300 grain bags
 - 26 sites across SK
 - 8 sites have roller/baling services

2019

- 2,256 metric tonnes of grain bags
 - ~11,000 grain bags
 - 35 sites across SK
 - 15 sites have roller/baling services
 - ~50% recycling rate
 - 44% increase over previous year

Stats: 2020

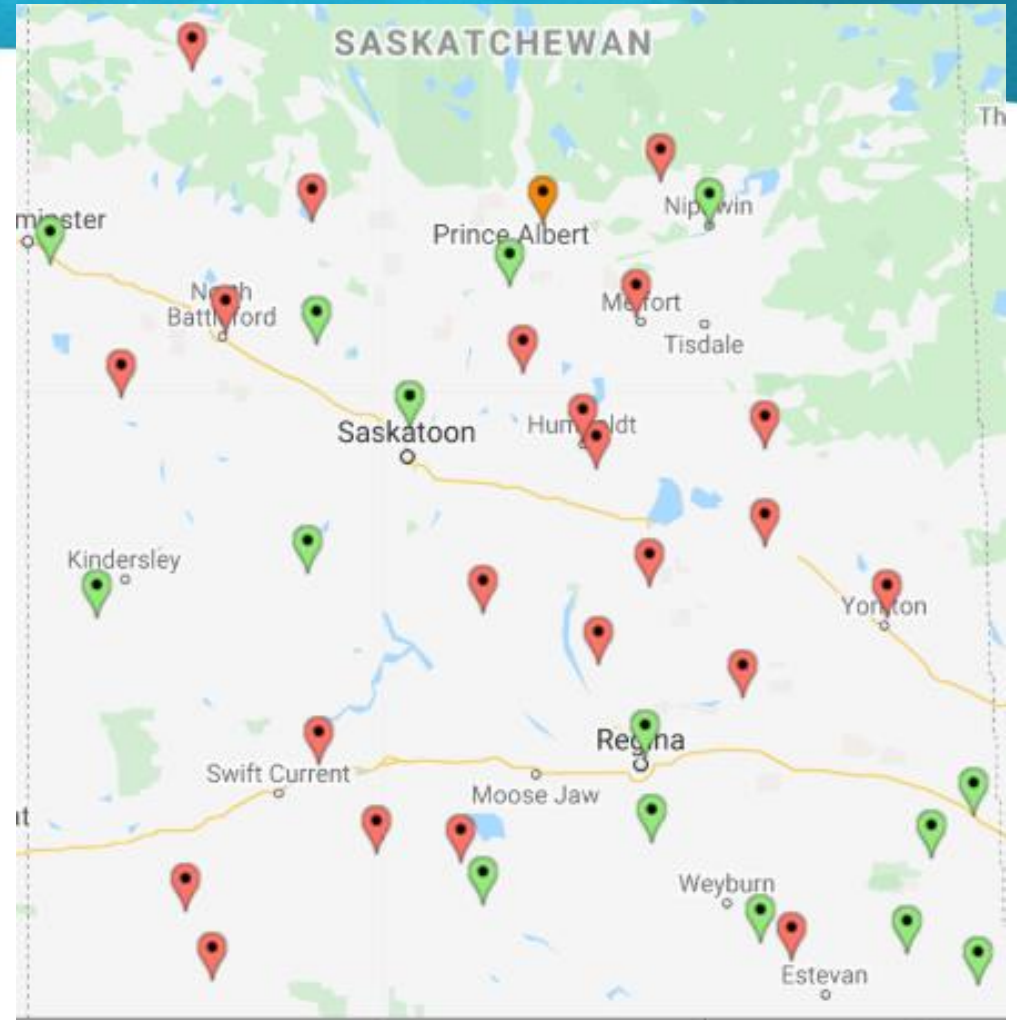
- First year of sales versus recycling rate 51%
- 2400+ Metric tonne recycled so far this year (103 semi loads)
 - Over 15,000 grain bags
 - About 15% contamination
- 3 additional sites in SK = 38
- 3 recyclers:
 - 2 Alberta
 - 1 United States

Sites that have grain bag roller/baling services

Grain bags are to be dropped off in a rolled and secured manner. Any other way may be subject to landfill and/or baling service charges

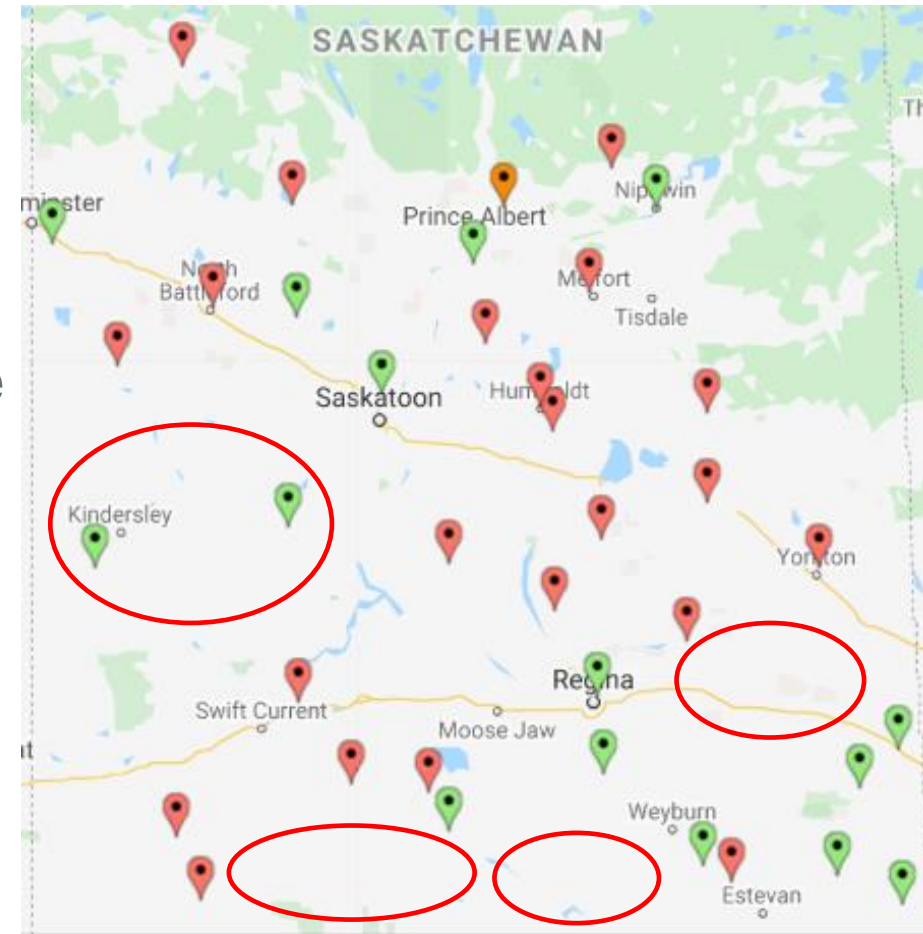
Incentives for collection sites as of January 1, 2019

- \$55/tonne
- +\$25/tonne for roller/baling
- +\$15/tonne for loading



Good to Great!

- Continue to fill in areas so producers have convenient drop off locations
- Grain bag online request system
- Contact Tammy Shields to find out more on what is required to host a collection site
 - Checklist
 - Agreement



Collection site partnership with Cleanfarms

- Free drop off for producers
- Liability Insurance
- Agreements with each site - MOU
- Adequate space for unloading at drop off and loading semis
- Administration and communication with producers
- Compensation based on tonnage (i.e. equitable compensation for how busy each site is)
- Site assistance for producers to unload is ideal but not required especially if they don't call ahead

Investment in Saskatchewan

- 3 Saskatchewan contractors
- 2 Saskatchewan baling facilities
- 1 resident full-time employee

Where can I recycle my...

Building a Zero-Plastic Waste Strategy for Ag



Grower Research



Consensus building



Pilot projects

New Pilot Programing

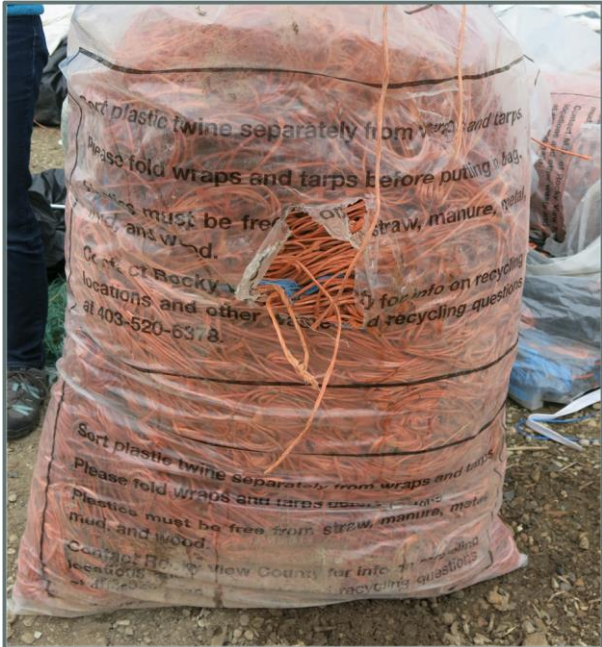


Twine Collection Pilot



- Start Collection Fall 2020
- 3-year pilot
- Open to grain bag collection sites
- Additional sites in strategic locations

Twine Preparation:



YES



YES



NO



NO



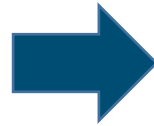
**NO
netwrap**



NO
netwrap



Seed, pesticide & inoculant bag collection (2021 ag retail)



Energy Recovery



Energy Recovery not burning

- This is the minimum type of facility environment requires for incineration
- Energy is recovered and fuels kiln
- Zero oxygen burn at 700 degrees to eliminate a lot of toxins/carcinogens
- Cost: millions for a proper facility to manage particulates, ash, fumes to name a few



Discussion

Questions?

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Thank you!

