State of Agriculture Plastics in Canada

Presented by Barry Friesen

Overview

1. Who is CleanFARMS?
2. Canadian Stewardship and EPR Programs
3. Current programs and packaging in Canada
4. Current research
5. Summary

Who is CleanFARMS™?

- Industry Stewardship Organization
- Federally incorporated not-for-profit
- Private sector Board
- Current members: manufacturers/distributors of crop protection products
- Operate voluntary (except where mandated)

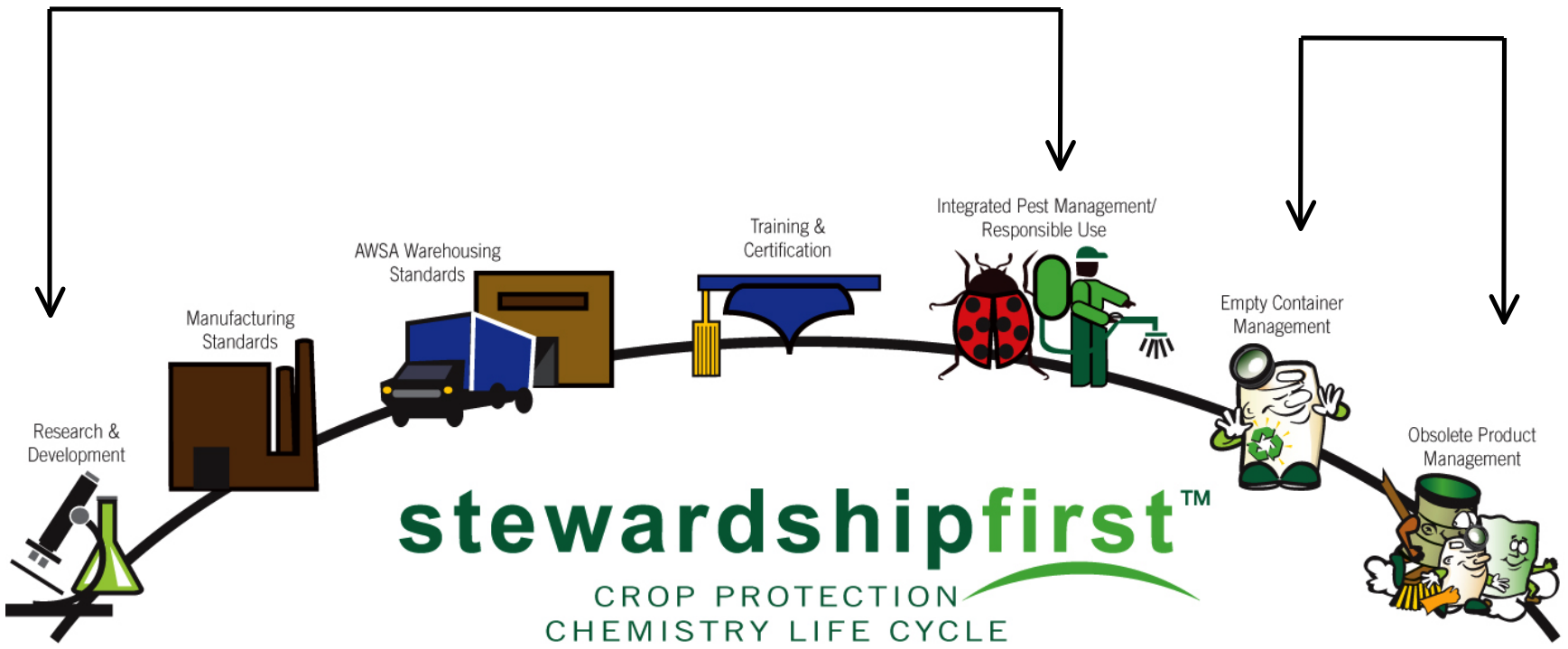
CleanFARMS Inc.

Our mission: *Enable environmental sustainability through effective stewardship of waste agricultural* plastics and packaging*

Our vision: *To be the leading Canadian stewardship organization for recycling agricultural plastics and packaging.*

*Note: We will include mutually beneficial products – if it makes good business sense to do so

Crop Protection Stewardship Responsibilities – 22 years of programming



CleanFARMS™

CleanFARMS Inc.

Three current permanent programs:

Empty container management
- 1000 collection locations in Canada
- 64% recovery rate

Obsolete pesticide collection
- every 3 years in each province
- currently planning BC

Empty paper bag collection
- offered in PEI, NS, NB
- will expand across Canada

Other Ag Waste Types

Chemical & Disinfectant Containers

Ag. Film

Twine/Netting

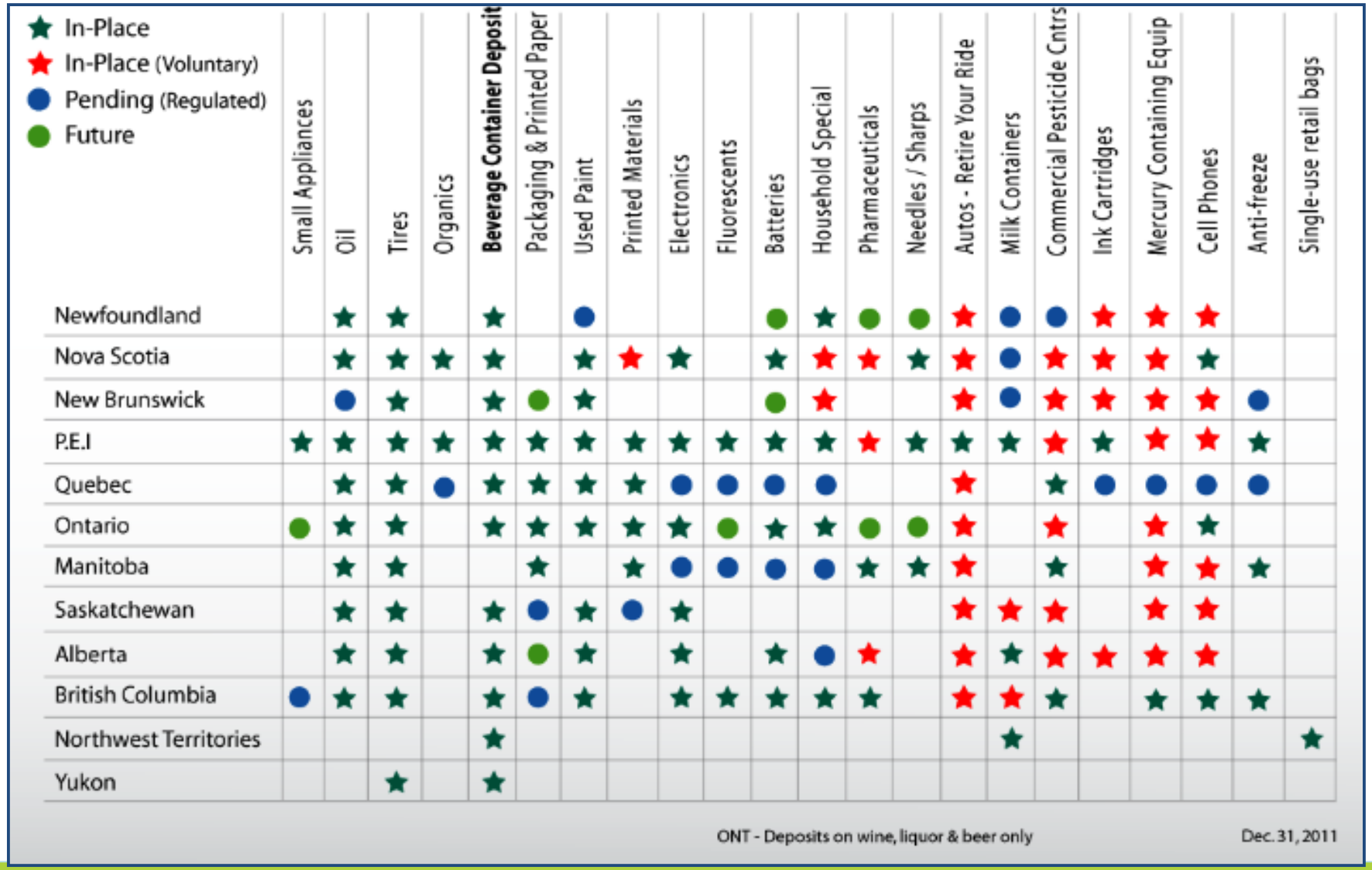
Other Ag Waste Types

Bagged Product

Animal Health Products and Packaging

Other Non-Organic Waste

Canadian Stewardship and EPR Programs



Province	Packaging Stewardship Regulation	Stewards' Responsibility
BC	All packaging and printed paper	• 100% of municipal costs by 2014
AB	Only specific containers	• Varies
SK	Only specific containers	• New all packaging program coming!
MB	All packaging and printed paper	• 80% of municipal cost for household
ON	Household packaging	• 50% of municipal cost
QC	All packaging	• 100% of municipal cost by 2013
Atlantic	Specific packaging	• Varies

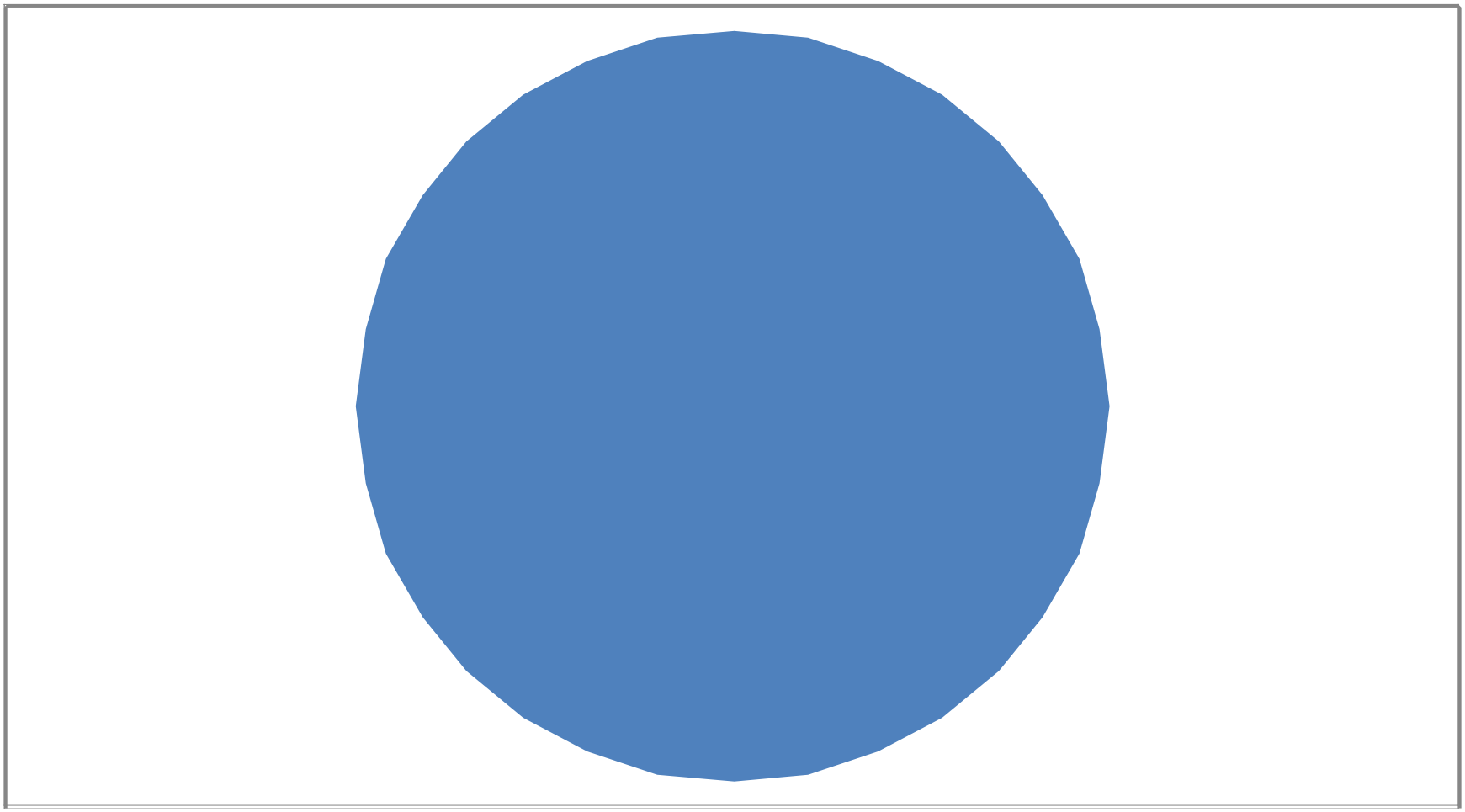
Will include commercial pesticide containers yet

Includes commercial pesticide containers

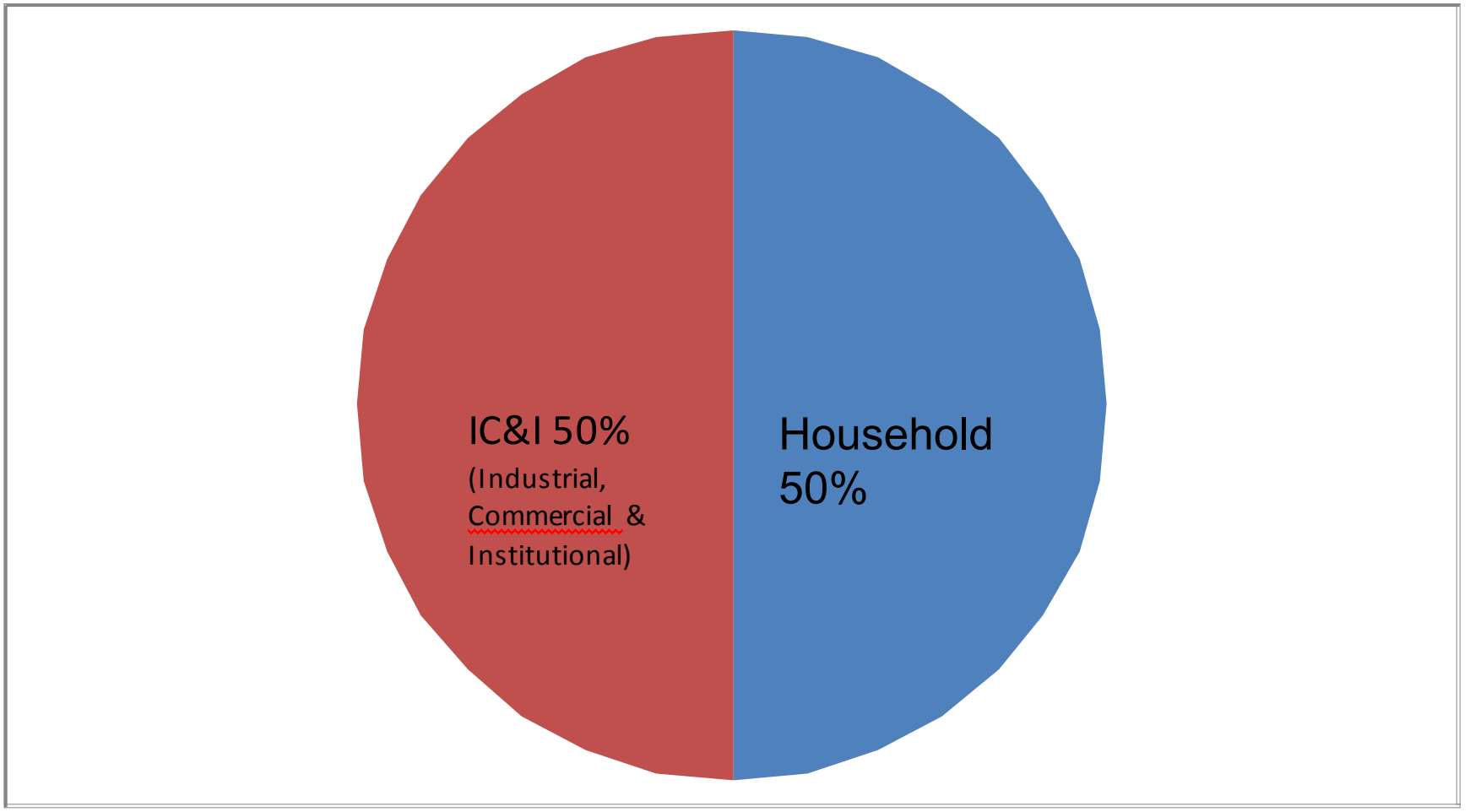
Almost included commercial pesticide containers

May include commercial pesticide containers

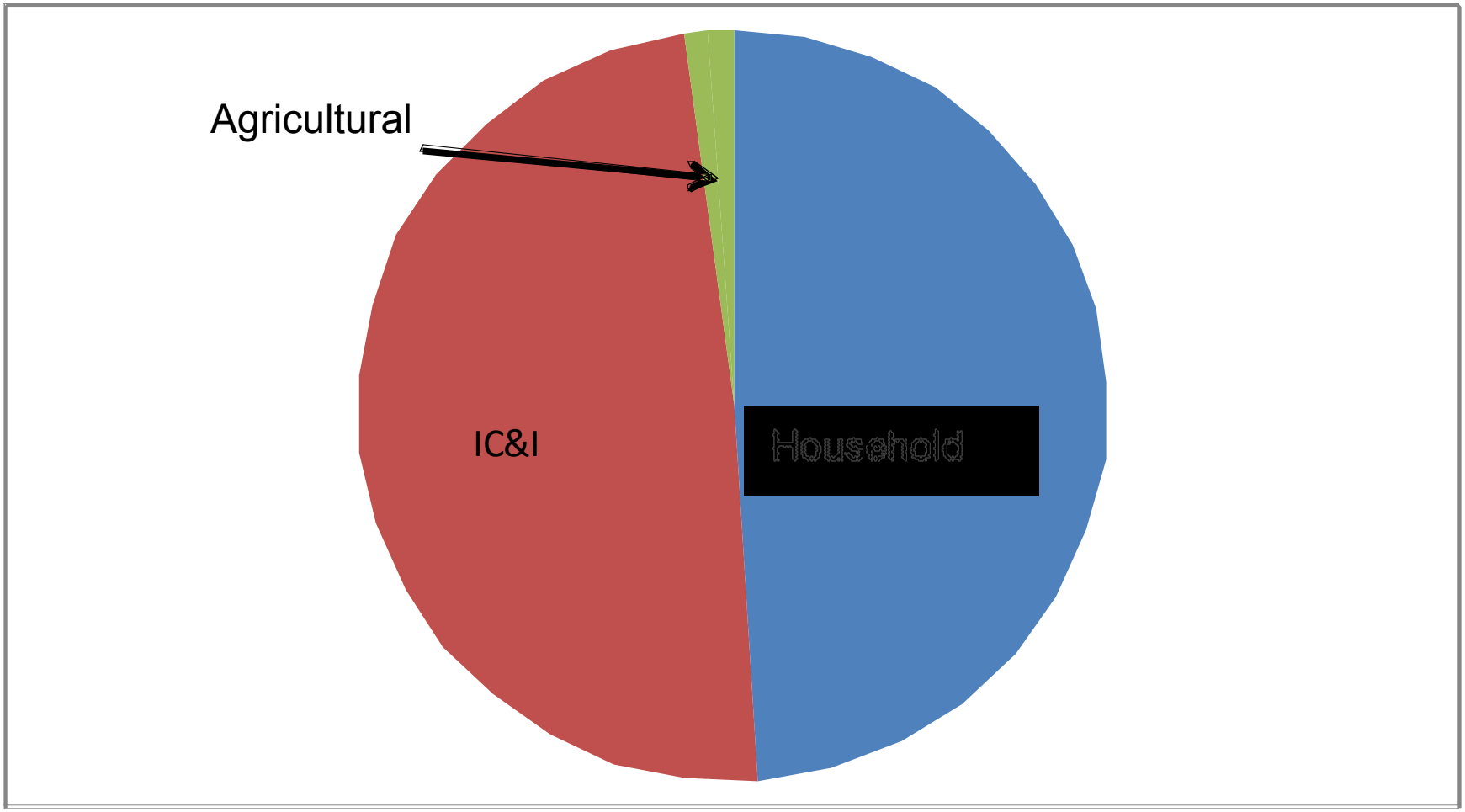
Packaging in Canada



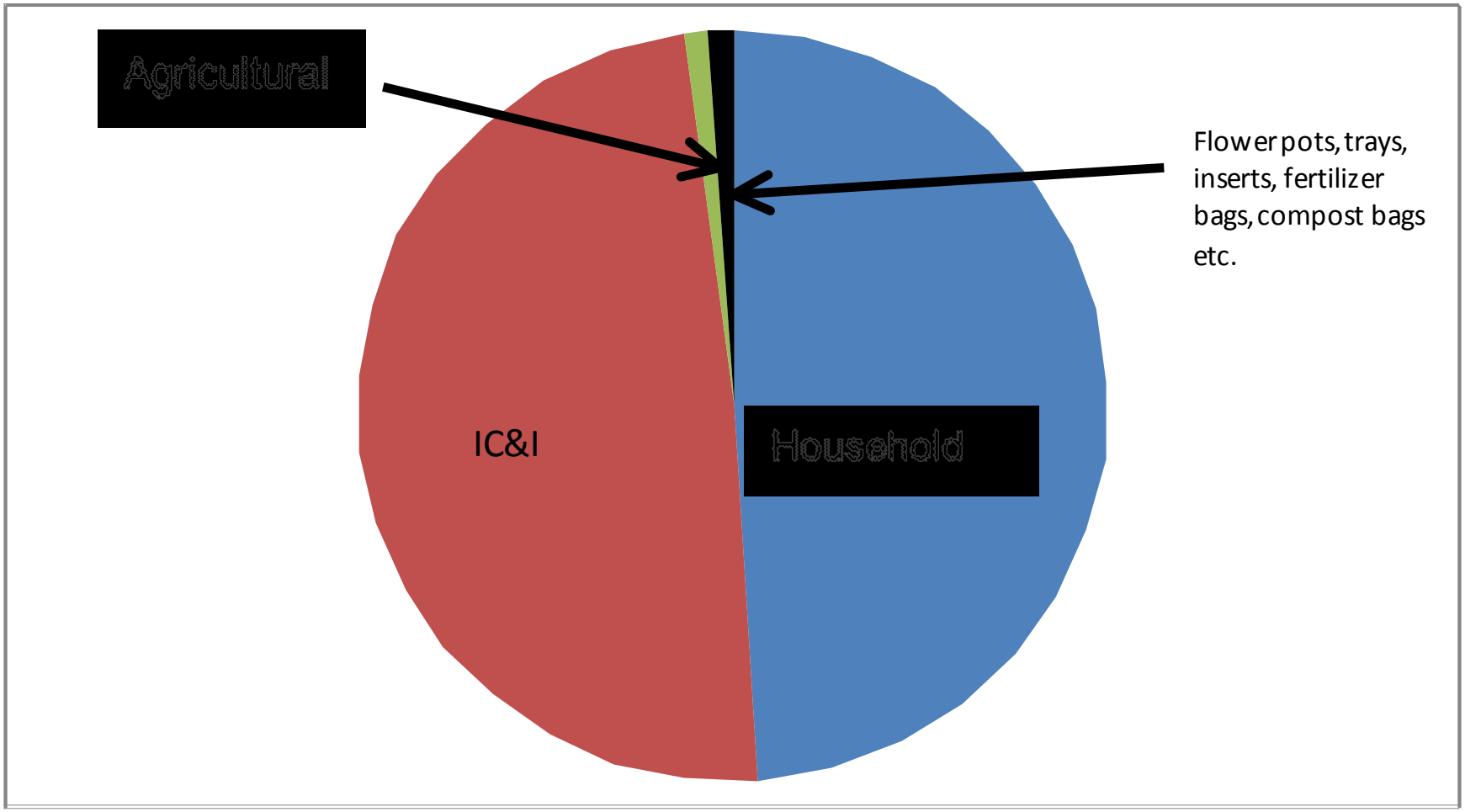
Packaging in Canada



Packaging in Canada

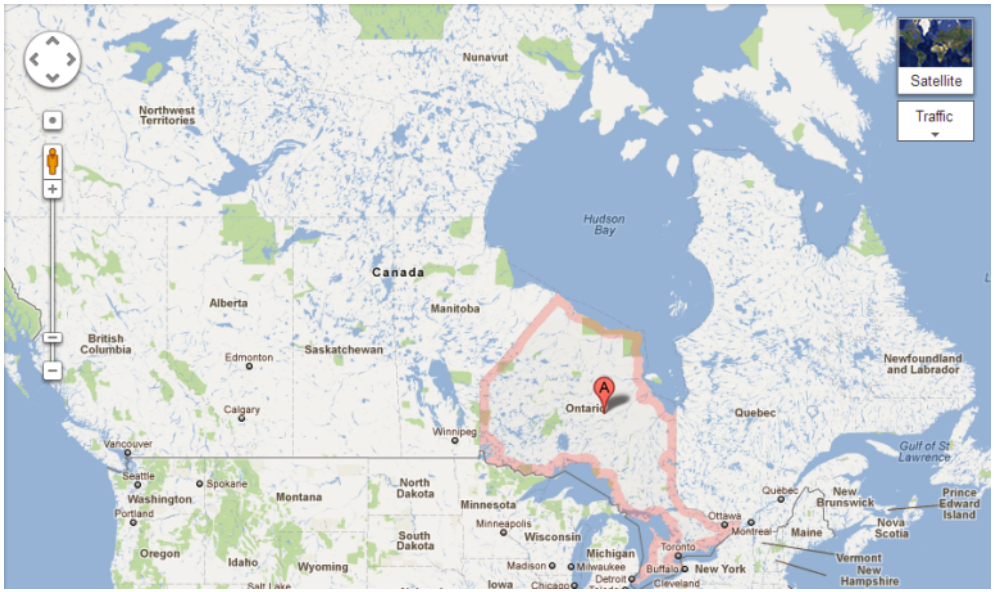


Packaging in Canada



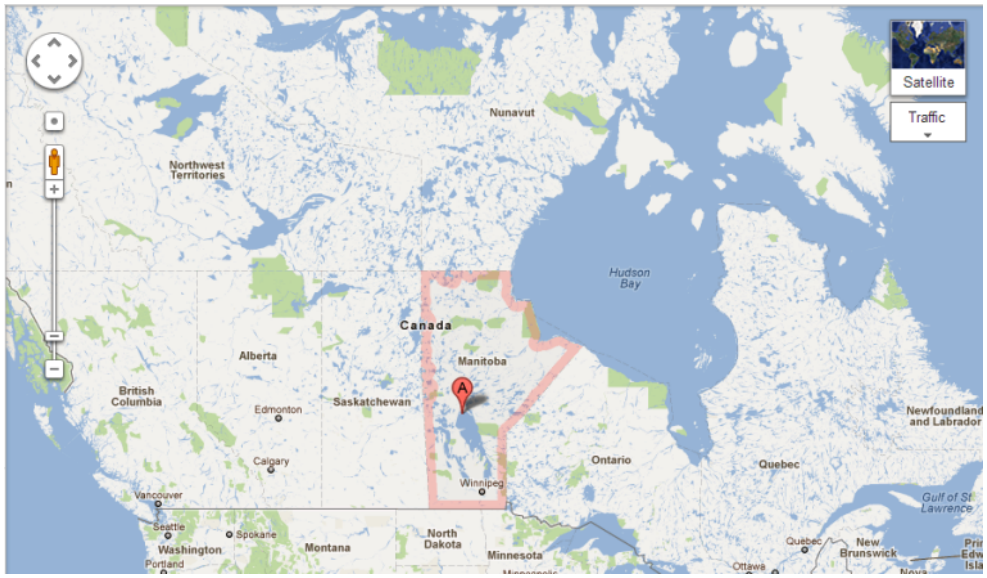
Study- Ontario

Product	Estimated volume available for recycling in 2011
Greenhouse Film	265 tonnes
Silage Film	2,400 tonnes
Grains Bags	0 tonnes
Plastic Twine	480 tonnes
Net Wrap	700 tonnes
Mulch Film	460 tonnes



Study- Manitoba

Product	Estimated volume available for recycling in 2011
Greenhouse Film	13 tonnes
Silage Film	250 tonnes
Grains Bags	270 tonnes
Plastic Twine	320tonnes
Net Wrap	120 tonnes
Mulch Film	0.4 tonnes

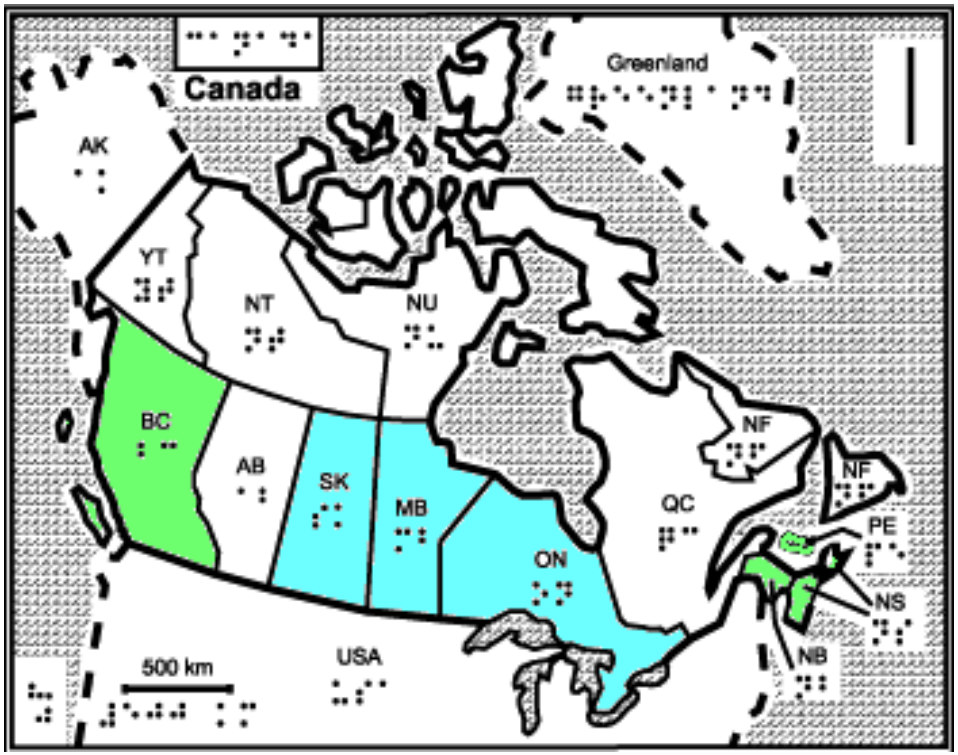


Study- Saskatchewan

Product	Estimated volume available for recycling in 2011
Greenhouse Film	11 tonnes
Silage Film	850 tonnes
Grains Bags	1,130 tonnes
Plastic Twine	1,150 tonnes
Net Wrap	210 tonnes
Mulch Film	8 tonnes

Future Studies

- Current Studies
  - Ontario
  - Manitoba
  - Saskatchewan
- Future Studies
  - British Columbia
  - Nova Scotia
  - New Brunswick
  - Prince Edward Island



What's occurred to date in Canada

- BC – 3 pilot programs for twine and bale wrap
- AB, SK, MB – pilot programs for grain bags and twine
- ON – last 5 years – bale wrap collection – faltering due to processor
- QC – a few bale wrap pilots
- PEI, NB – full scale collection program just announced

Bale and Silage Wrap – key to success is MARKETS

- Looking to implement a nation wide collection program
- Currently running pilot programs in Ontario and Manitoba

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PEI- Silage Wrap return

SILAGE AND SHRINK BOAT WRAP
Recycling Pilot Program

EFFECTIVE FEBRUARY 1

APPROVED SILAGE & SHRINK BOAT WRAP

will be accepted

FREE OF CHARGE

at Waste Watch Drop-Off Centers

See reverse for instructions

ACCEPTABLE SILAGE WRAP:

- Wrap and netwrap that is relatively clean and dry
- White wrap
- Coloured wrap (e.g. black, green, blue, etc.)

UNACCEPTABLE MATERIALS:

- Wrap with significant contamination (dirt, clay & other materials mixed in)
- Twine, plastic containers/pails, plastic bags, feedbags, waste material, etc.

PREPARATION OF MATERIAL:

- Unwrap in a dry area
- Shake the plastic to remove soil, silage, ice, moisture, etc.
- Store the wrap on dry ground to keep it as clean and dry as possible.
- Washing is not necessary, however, material with excessive mud or dirt cannot be recycled.
- Roll up the plastic as much as possible before storing.
- Wrap may be placed in clear plastic bags, if desired.

DROP-OFF INSTRUCTIONS:

- Half ton loads may be taken to any WWDC. **There is no disposal fee for *clean* material.**
- Customers are responsible for unloading wrap material and placing it into the specified collection area.
- Farmers with large quantities and/or stockpiles of wrap must contact **1-888-280-8111** to make arrangements.
- Material that is excessively dirty or mixed with other materials cannot be recycled and must be landfilled. ***Regular waste disposal fees will apply.***

IWMC
Island Waste Management Corporation

1-888-280-8111
www.iwmc.pe.ca
info@iwmc.pe.ca

Grain Bags

Grain Bags

Our key competition

Our key competition

CleanFARMS questions in 2011/12 focused on:

- Support for provincial regulation for recycling and collection programs
- Preference for how recycling costs are charged
- Use and disposal of twine, bale/silage wrap and grain bags

Question 1:

Would you support provincial regulation that would make it mandatory for manufacturers of the products (grain bags, twine, bale/silage wrap) to fund programs for the collection and recycling of the waste from these products? (N=600)

Support for provincial regulation for collection and recycling programs

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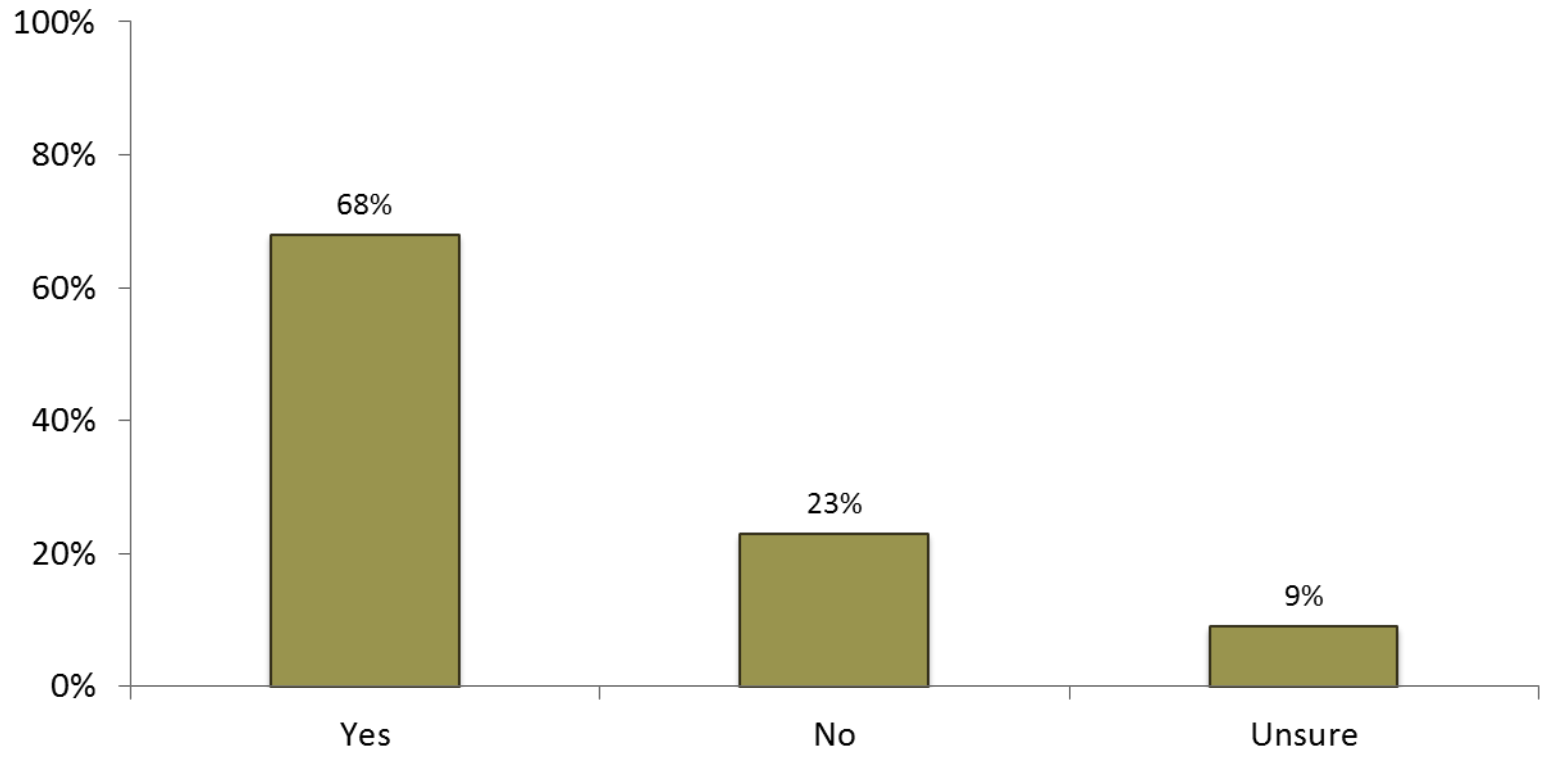
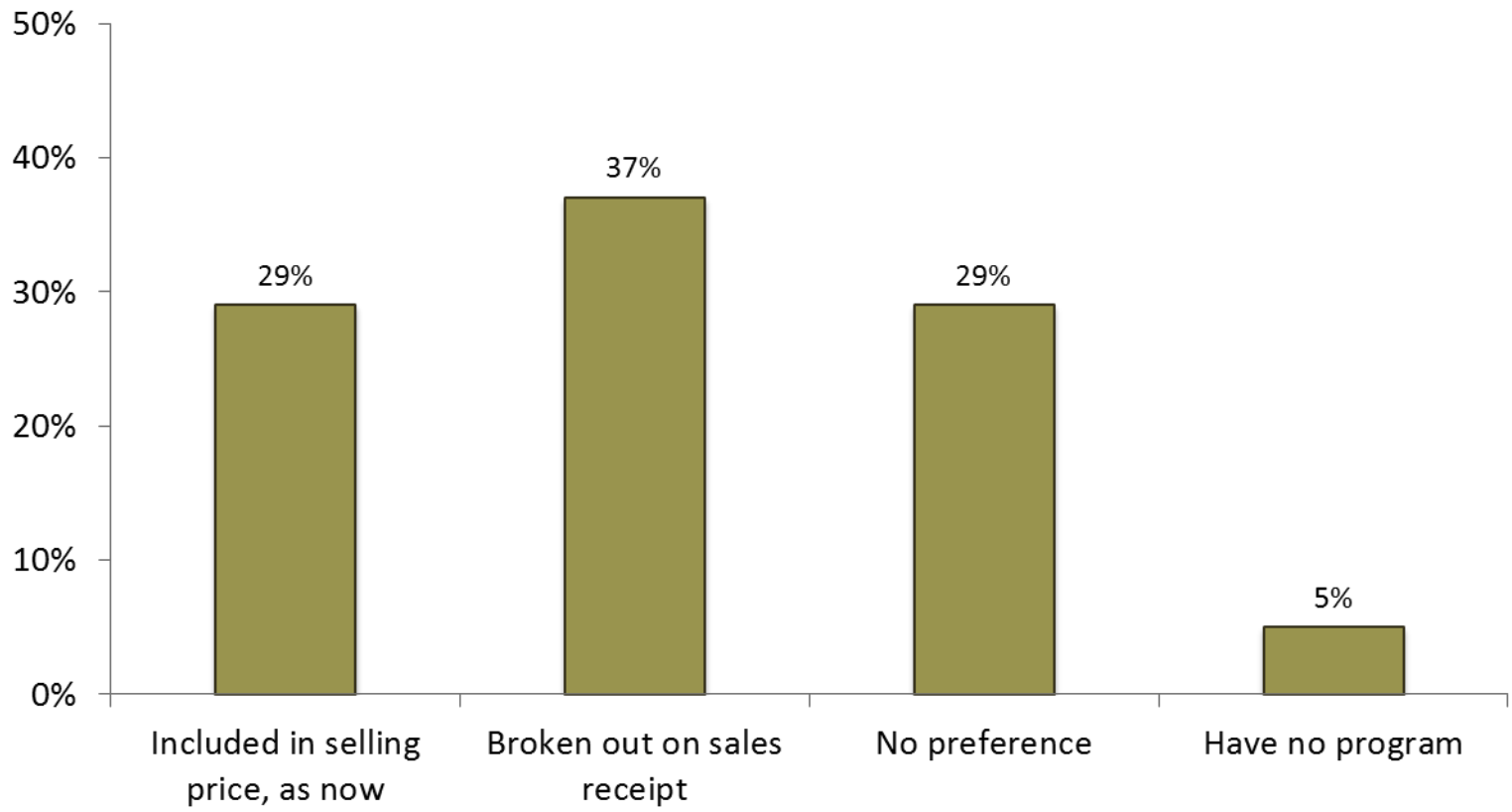


Question 2:

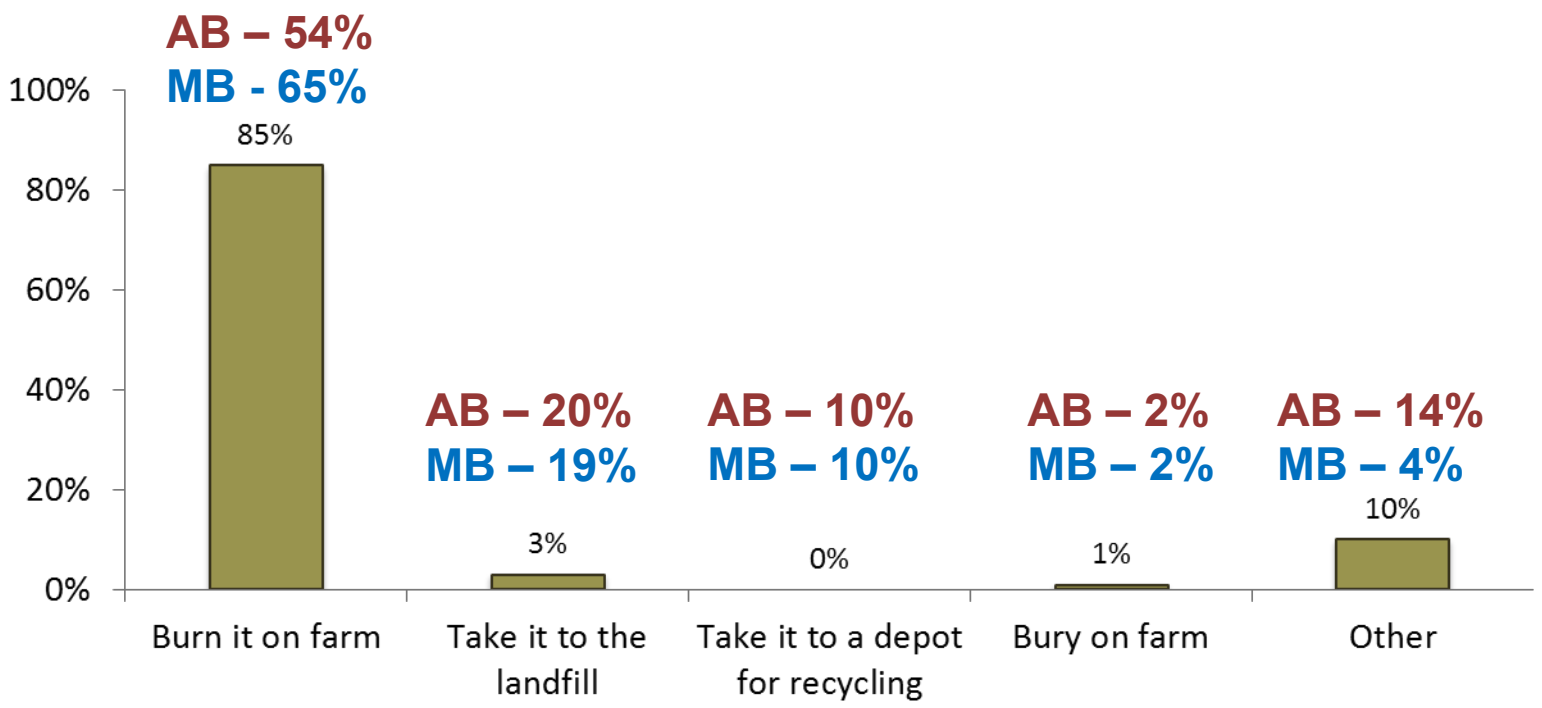
Which option is preferred for how recycling costs are charged? (N=600)

Preference for how recycling costs are charged

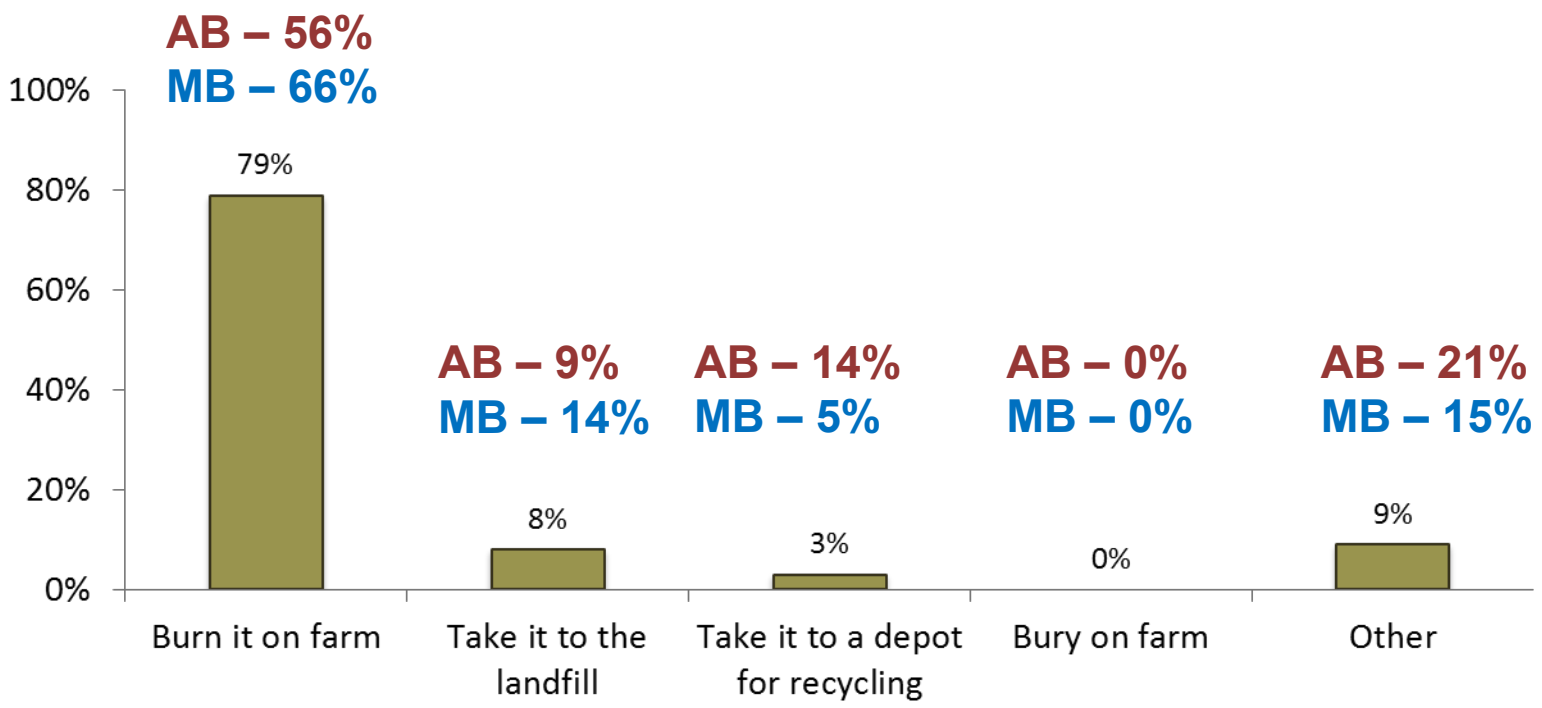
Which option is preferred for how recycling costs are charged



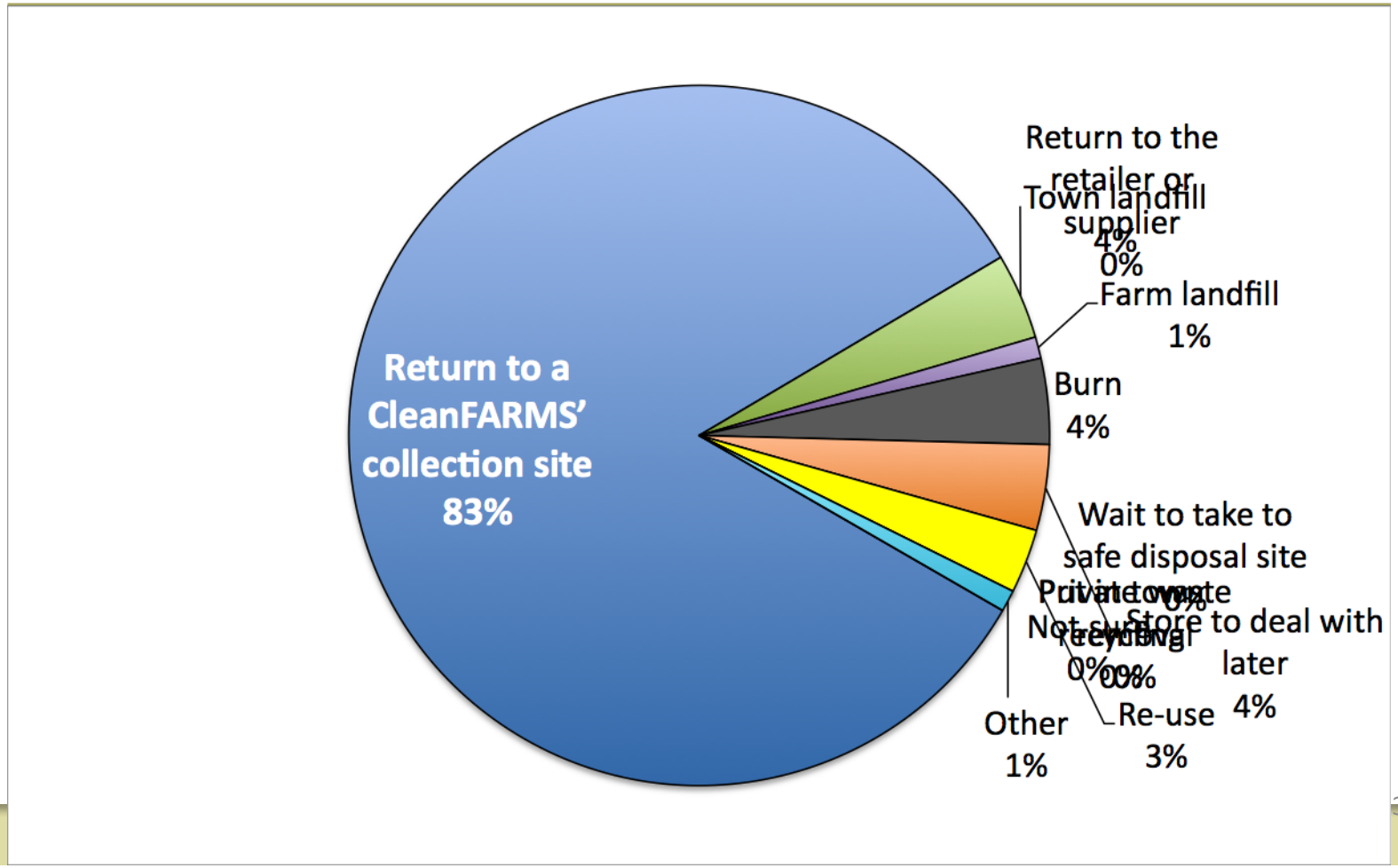
How twine is disposed of - Saskatchewan



How bale or silage wrap is disposed of - Saskatchewan



What is done with empty 10L size-range containers?



Summary

- There are no consistent programs for the collection of ag waste except pesticide containers
- Farmers show (83%) they will participate – if given the right tools
- EPR (Extended producer responsibility) is here – ag packaging will be targeted – we need to plan now!
- Industry that doesn't participate now, may be dictated to later
- CleanFARMS is actively working in Canada to assist industry and farmers with their responsibilities to manage waste

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