

**Blacksheep Strategy Inc.**

**CleanFARMS**  
**Manitoba Farmer Survey**

Webinar Presentation  
March 10, 2011

## Presentation outline

---

Introduction

Generation of agricultural waste

Disposal of agricultural waste

Container recycling

Attitudes towards the responsible disposal of agricultural waste

## Methodology

---

Quantitative telephone survey

Random sample of 300 farmers across Manitoba

Overall level of accuracy of +/- 5.6% at the 95% confidence level

The survey was conducted in November 2010

## Regional distribution

---

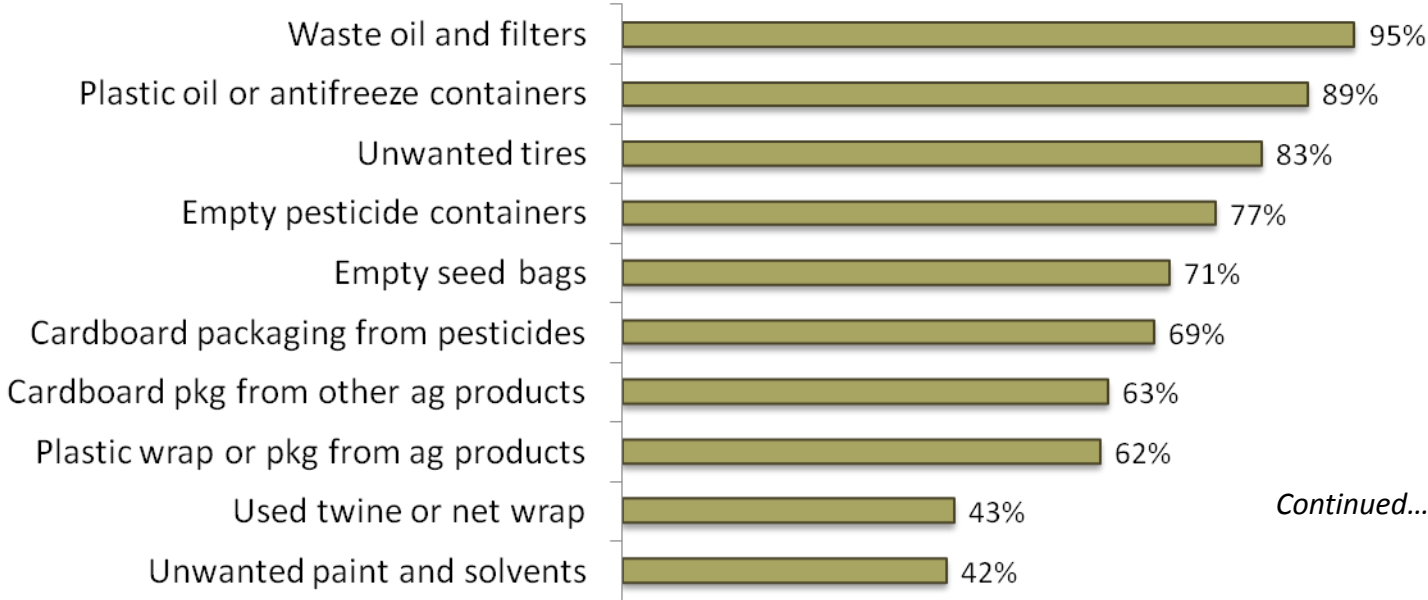
N=300	Percent by region
Southwest (CAR 1, 2)	17%
Northwest (CAR 3 – 6)	26%
South Central (CAR 7, 8)	26%
Southeast (CAR 9, 10)	16%
Winnipeg north and Interlake (CAR 11, 12)	16%

# Respondent Profile

---

Farm type	
Crops only	49%
Mixed crops and livestock	39%
Primarily livestock	12%
Farm size	
<1000 acres	51%
1000 – 2499	34%
2500 – 4999	12%
5000+	3%

## Types of farm waste generated

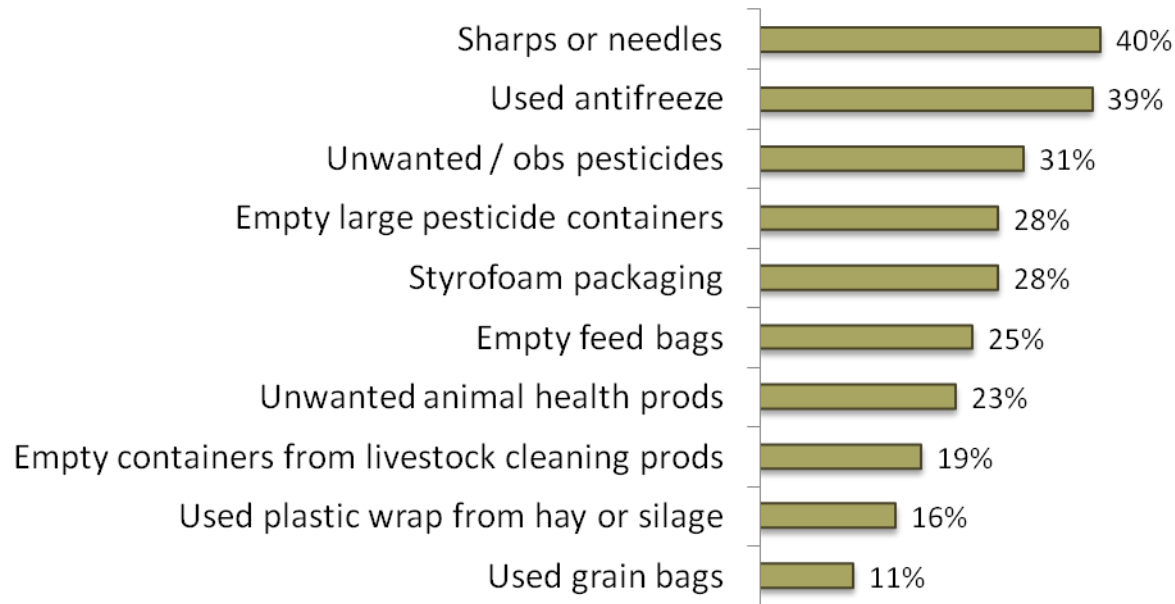


*Continued...*

N=300, entire sample

## Types of farm waste generated (cont.)

---



**For most common types of waste:  
Segments more likely to generate each type of waste**

N=300	Who is more likely to generate or have on farm?
Waste oil and filters	5000+ acres
Plastic oil or antifreeze containers	No significant differences
Unwanted tires	5000+ acres
10 litre size range containers	1000+ acres and especially those with 2500+ acres
Empty seed bags	2500+ acres
Cardboard packaging from pesticides	South-Central MB, 2500+ acres, primarily crops

## What is done with these agricultural waste materials?

---

For each type of material that they generate or have on farm, respondents were asked:

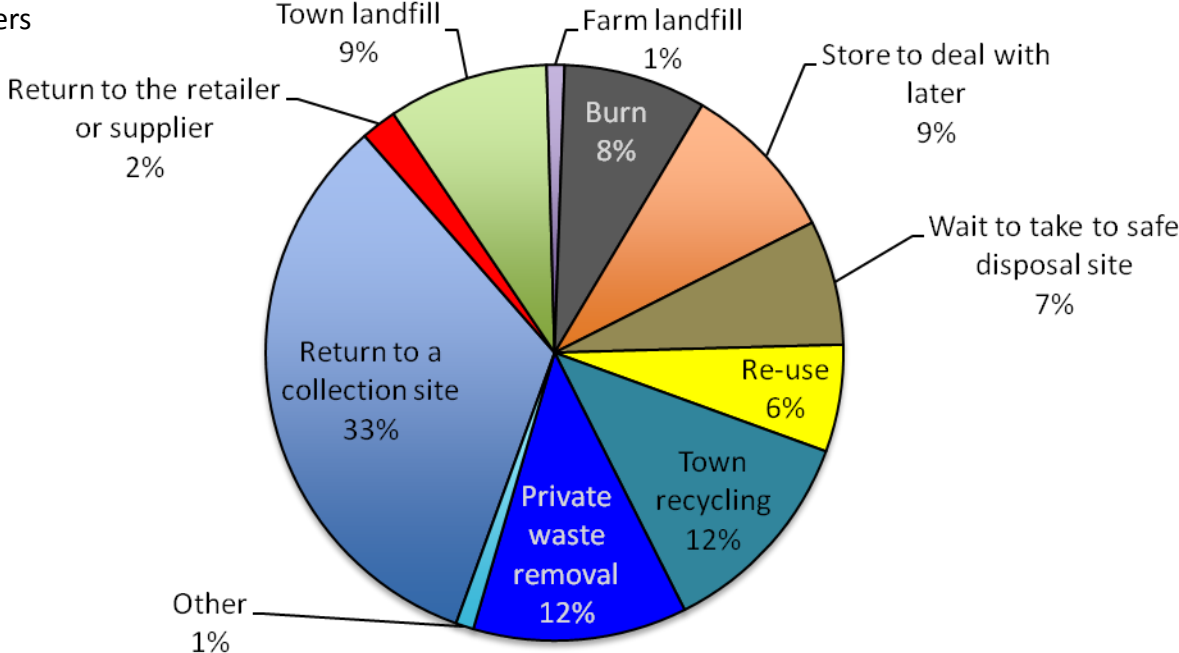
I would like to ask you what you do with each of these waste materials that you have on your farm.

For example, this could include: (read in random order):

- Return to a collection site for recycling or safe disposal
- Return to the retailer or supplier
- Take to the municipal or town landfill
- Bury on farm
- Burn on farm
- Store or save to deal with later
- Wait to take to a safe disposal site when one comes into your region
- Re-use
- Put into municipal or town recycling
- (or other, specify)

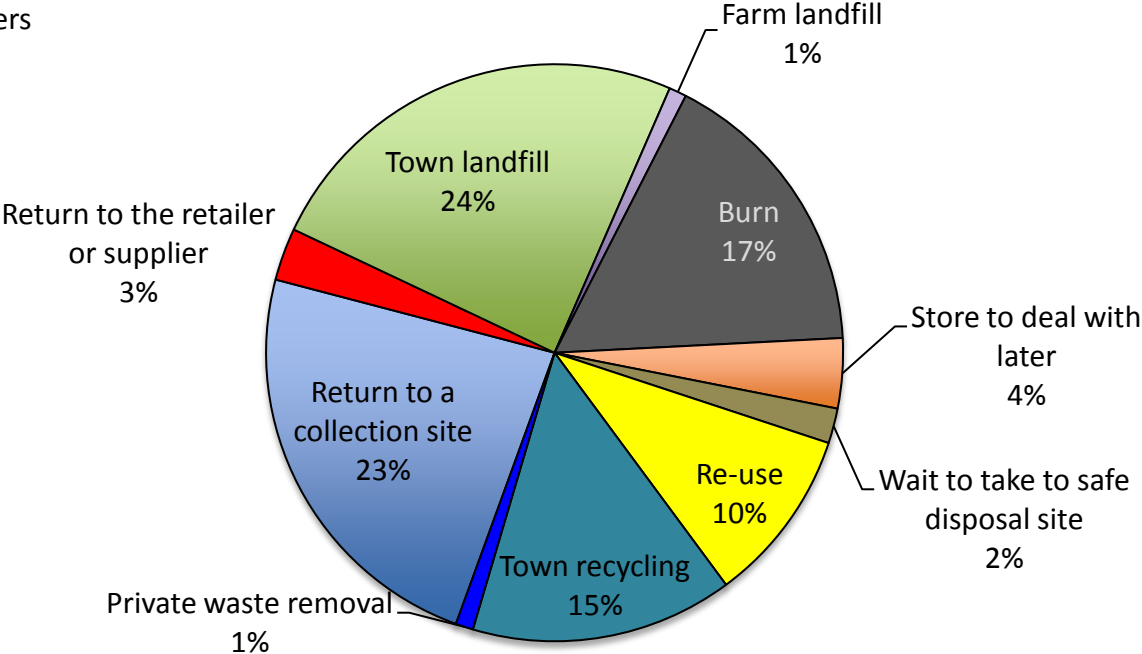
# What is done with waste oil and filters?

Portion of farmers who have: 95%  
N=285



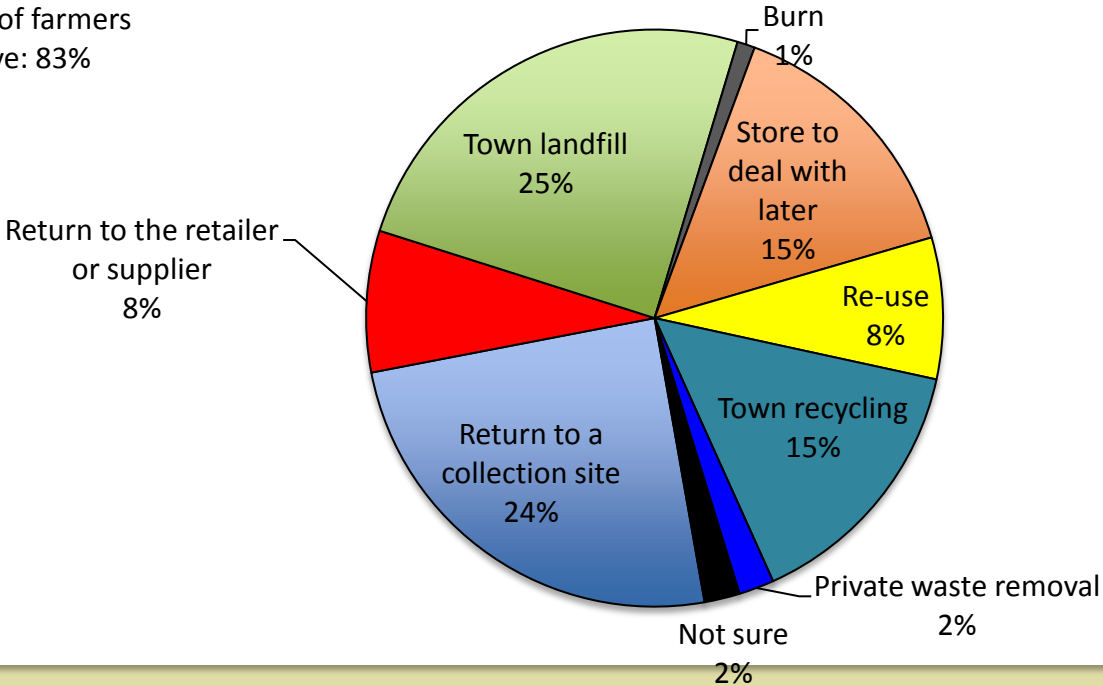
# What is done with plastic oil or antifreeze containers?

Portion of farmers who have: 89%  
N=267



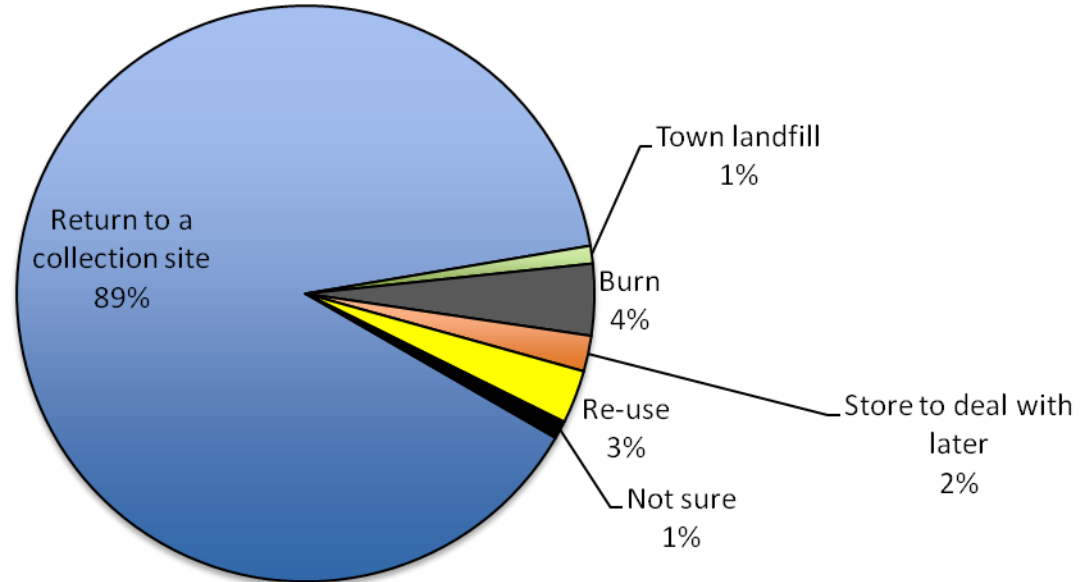
# What is done with unwanted tires?

Portion of farmers who have: 83%  
N=249



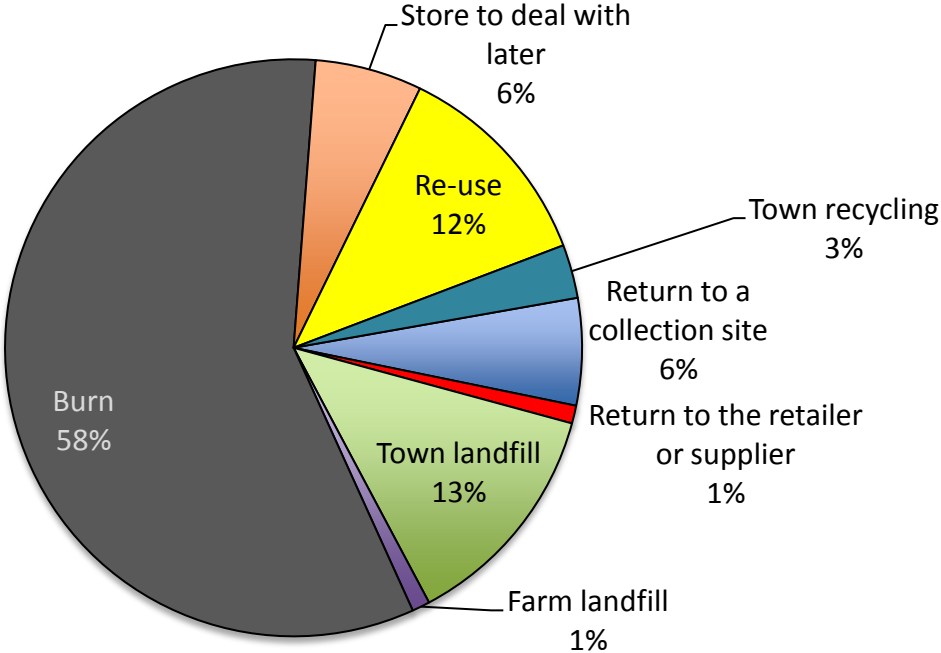
## What is done with empty 10L size-range containers?

Portion of farmers  
who have: 77%  
N=231



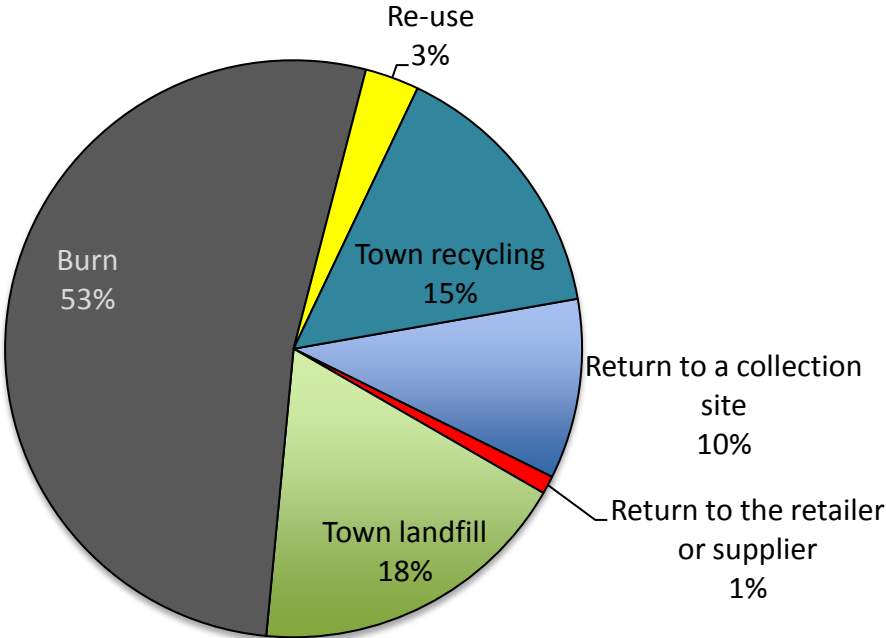
# What is done with empty seed bags?

Portion of farmers who have: 71%  
N=213



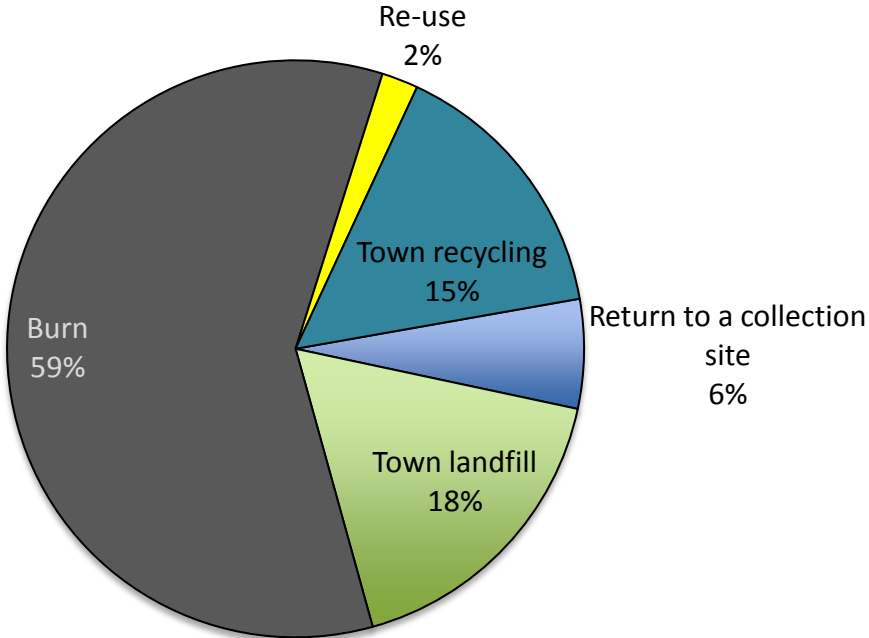
# What is done with cardboard packaging from pesticides?

Portion of farmers  
who have: 69%  
N=207



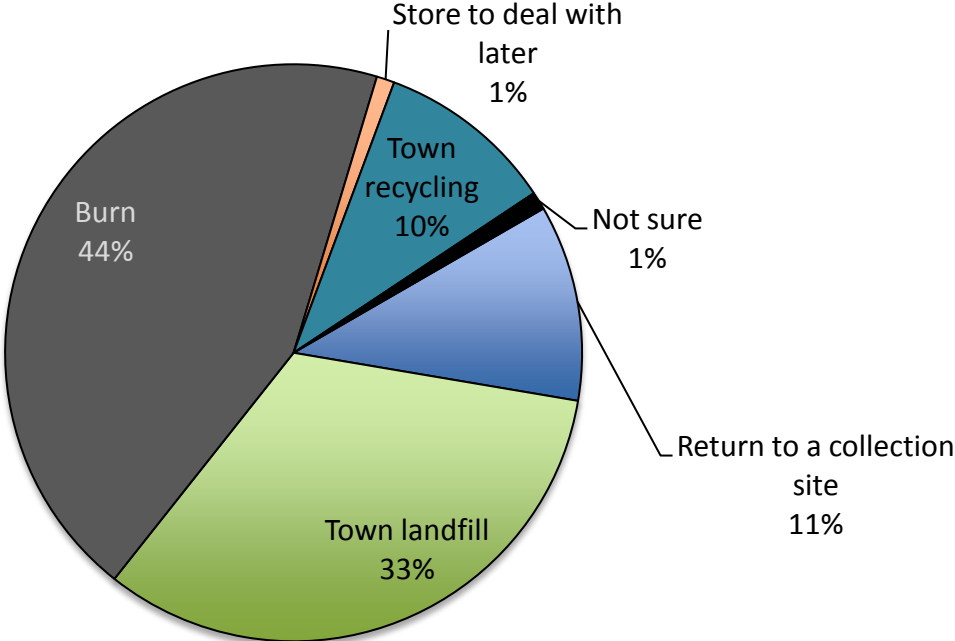
# What is done with cardboard packaging from other ag products (not pesticides)?

Portion of farmers who have: 63%  
N=189



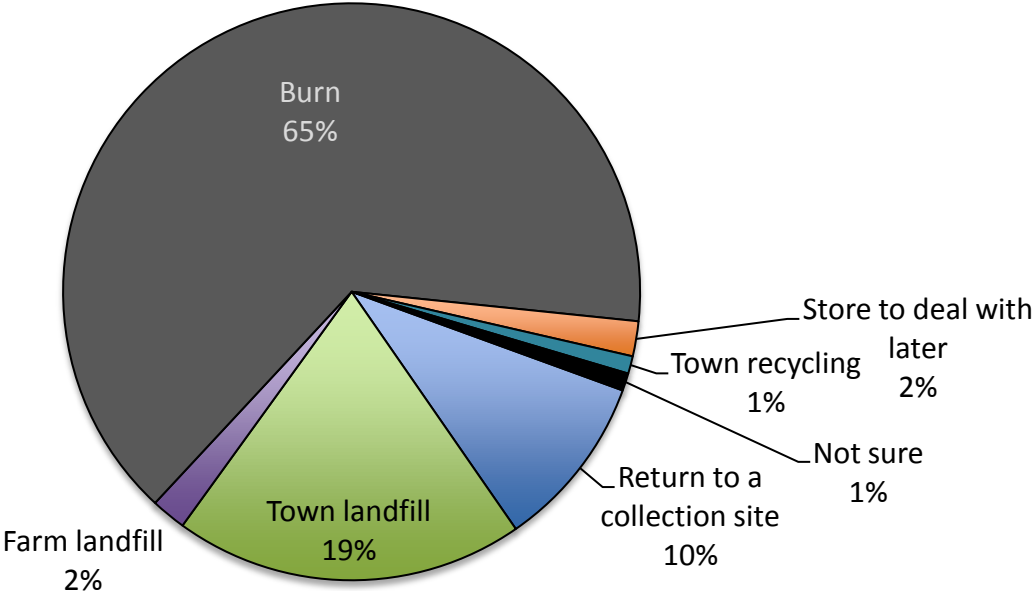
# What is done with plastic wrap or packaging from ag products?

Portion of farmers who have: 62%  
N=186



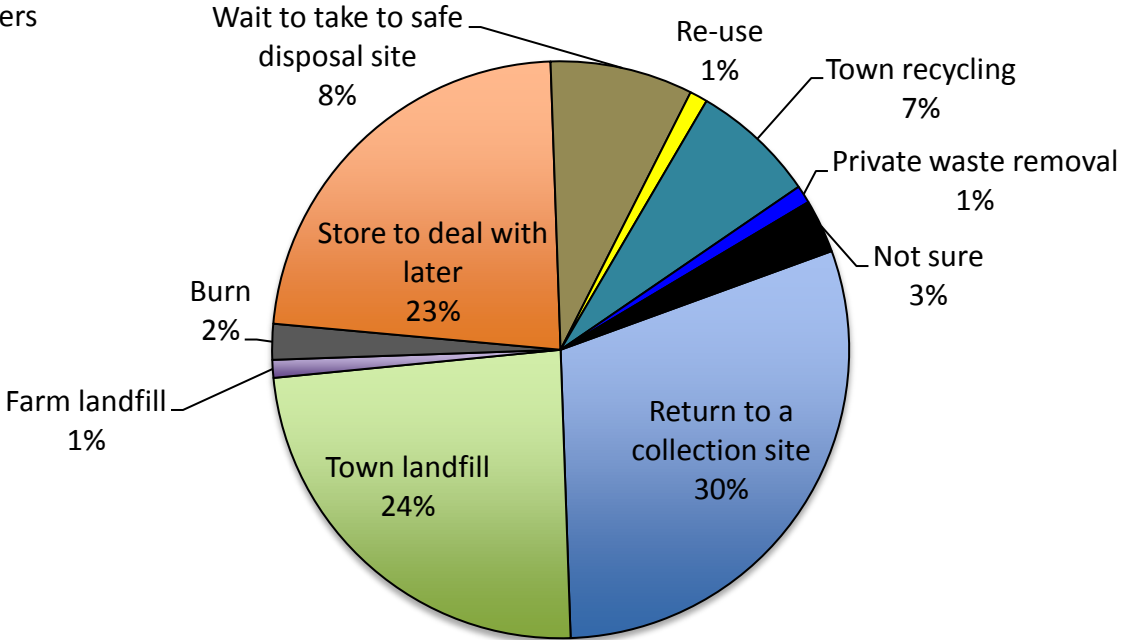
# What is done with used twine or net wrap?

Portion of farmers  
who have: 43%  
N=129



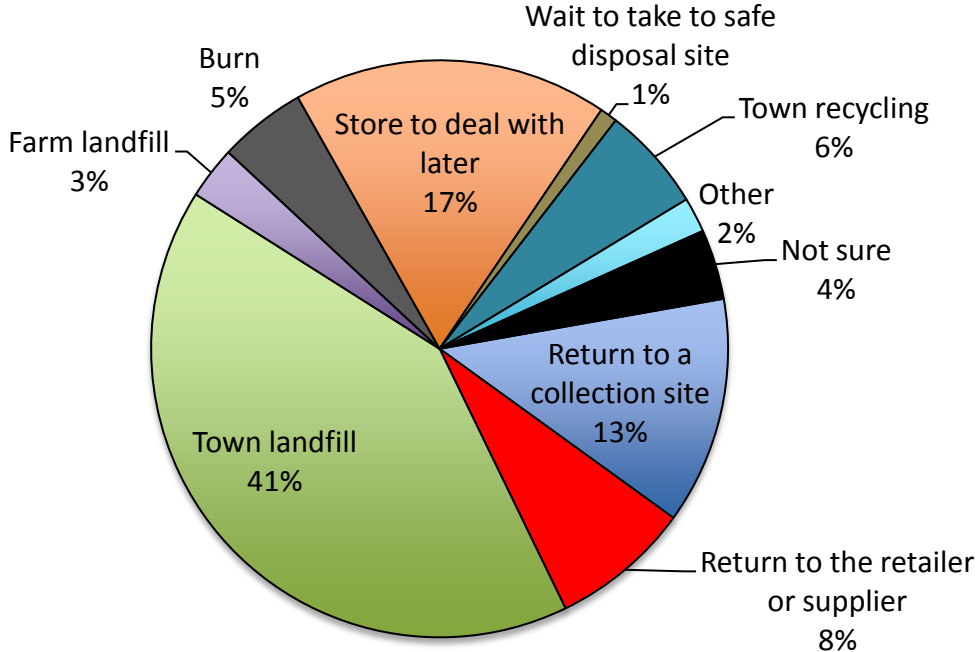
# What is done with unwanted paint and solvents?

Portion of farmers who have: 42%  
N=126



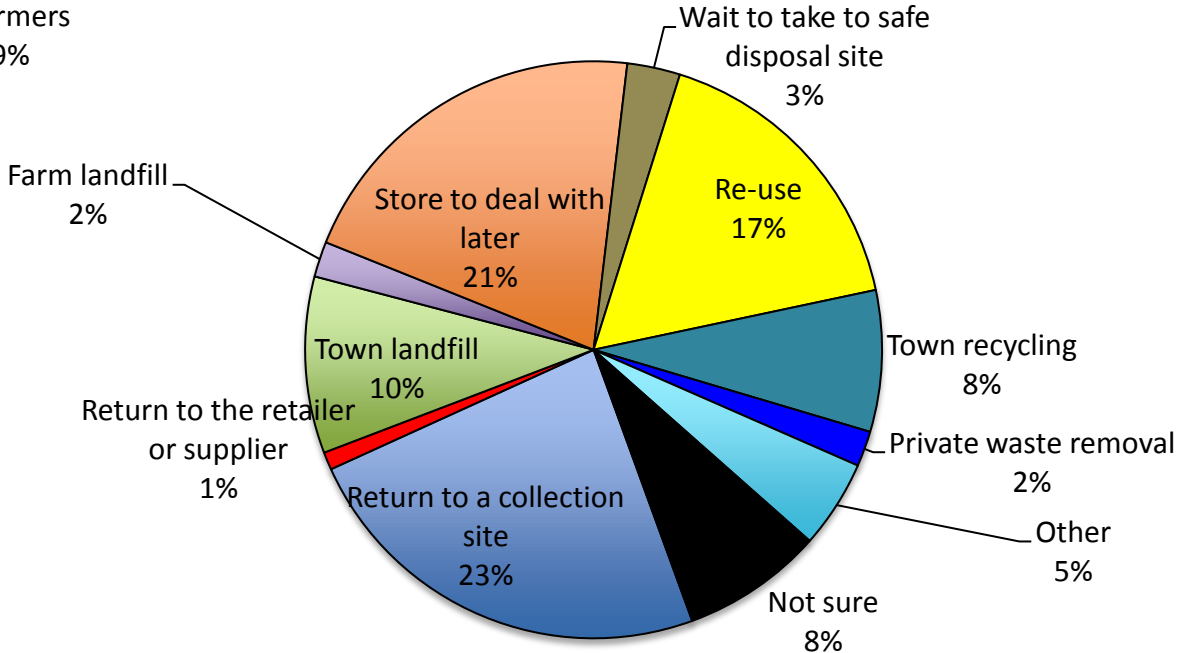
# What is done with sharps or needles from livestock?

Portion of farmers who have: 40%  
N=120



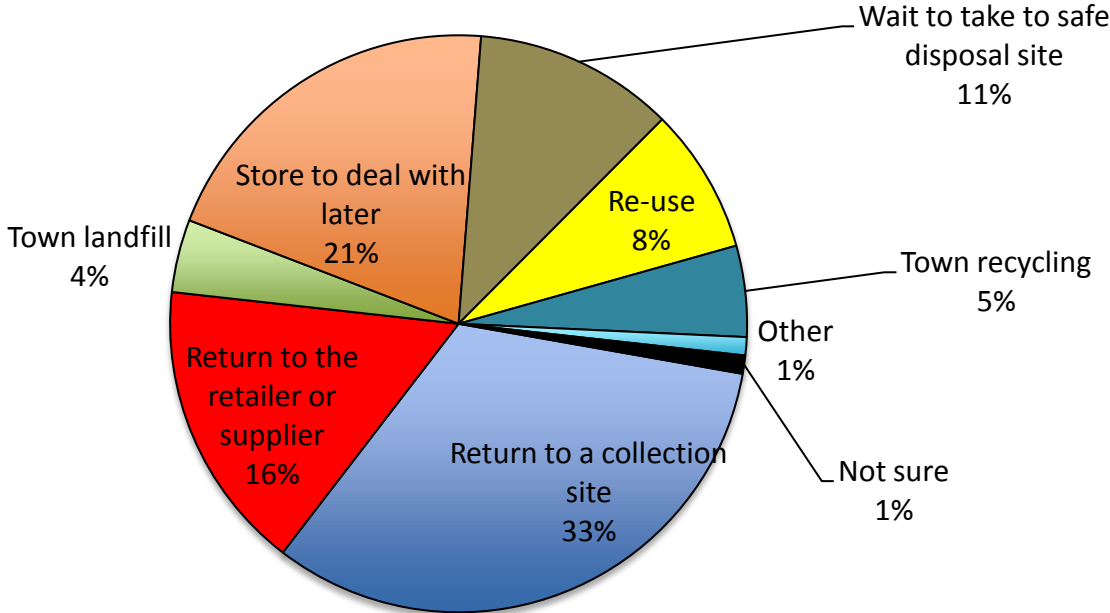
# What is done with used antifreeze?

Portion of farmers who have: 39%  
N=117



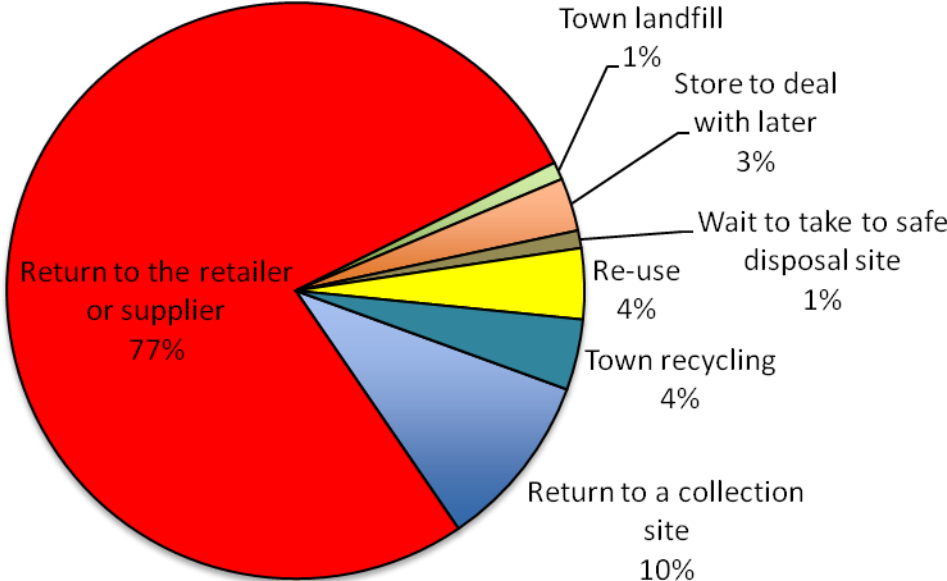
# What is done with unwanted, old or obsolete pesticides?

Portion of farmers who have: 31%  
N=93



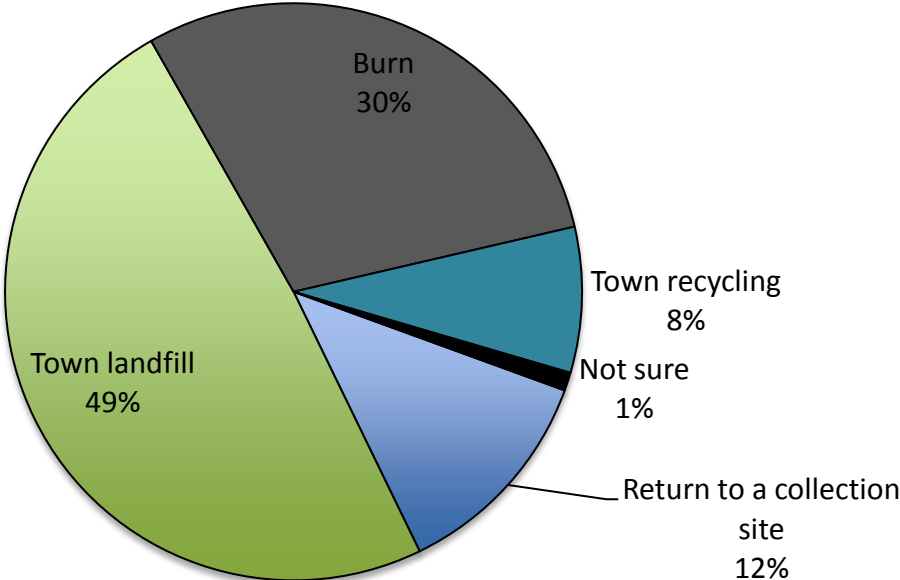
# What is done with empty large containers (totes, drums)?

Portion of farmers  
who have: 28%  
N=84



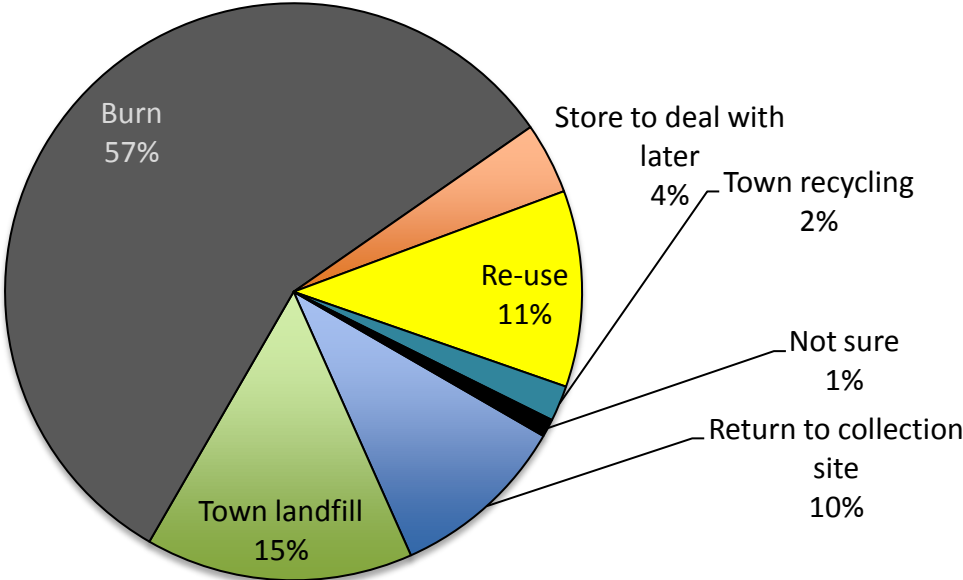
# What is done with Styrofoam packaging from ag products?

Portion of farmers  
who have: 28%  
N=84



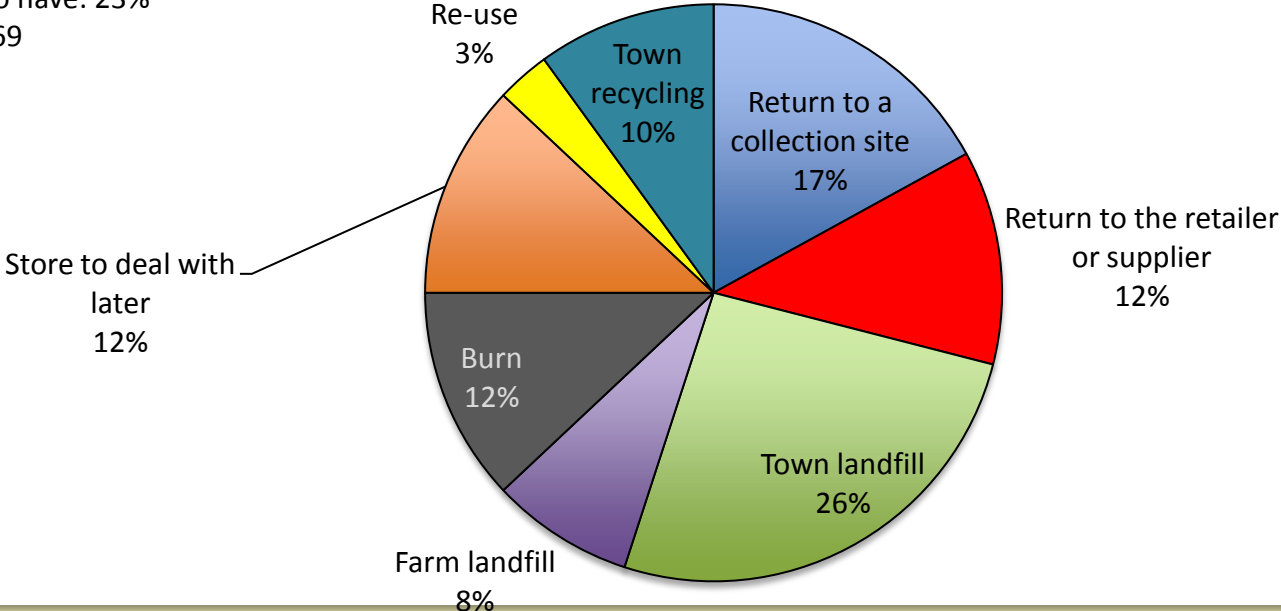
# What is done with empty feed bags?

Portion of farmers who have: 25%  
N=75



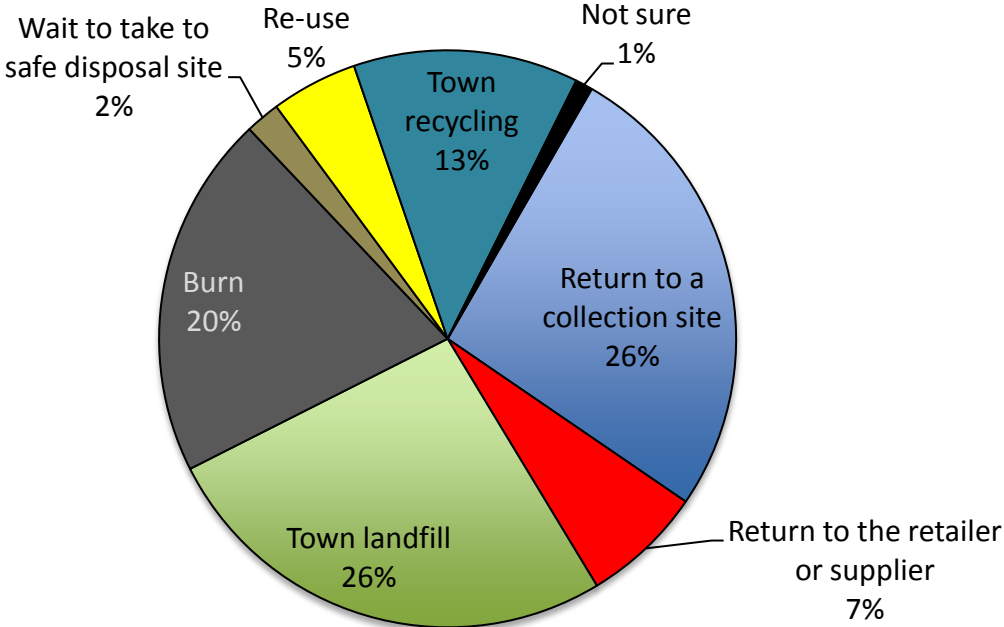
# What is done with unwanted animal health products or pharmaceuticals?

Portion of farmers who have: 23%  
N=69



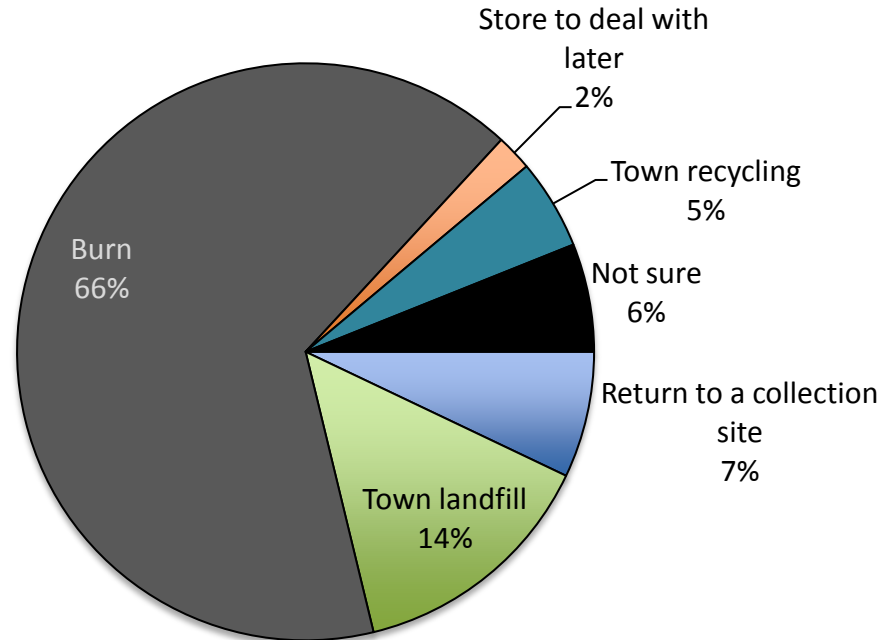
# What is done with empty plastic livestock disinfectant product containers?

Portion of farmers who have: 19%  
N=57



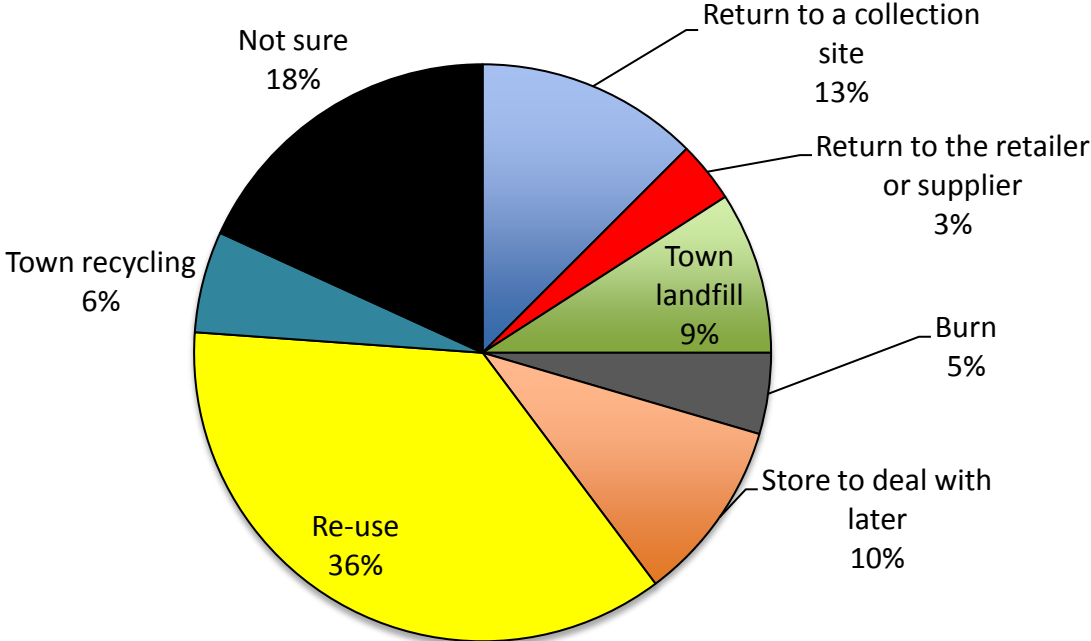
## What is done with plastic wrap from silage or hay bales?

Portion of farmers  
who have: 16%  
N=48



# What is done with used grain bags?

Portion of farmers who have: 11%  
N=33



## Summary of more prevalent materials and / or those that are being burned or put in landfill

---

- Plastic oil, antifreeze containers - a high portion has them, and over 40% get burned or put in landfill
- Empty seed bags - a high portion has, and over 70% gets burned or put in landfill
- Cardboard packaging - a high portion has, and a high portion gets burned
- Plastic wrap or packaging - a high portion has, and most gets put in landfill or burned
- Twine or net wrap – two-thirds is burned, and another 20% goes into landfill
- Sharps or needles – a lower portion has, but over 40% gets put in the landfill
- Styrofoam packaging – almost a third have, and 80% ends up in landfill or being burned
- Empty feedbags – a quarter have, and a high portion gets burned or put in the landfill
- Animal health products – a quarter have, and much of it gets burned, put in landfill or is being stored
- Empty plastic livestock disinfectant containers and unwanted animal pharmaceuticals – almost half is burned or put in landfill
- Plastic wrap from hay or silage bags – a lower portion has, and most of it is burned or put in landfill

## Do farmers have materials they don't know how to dispose of?

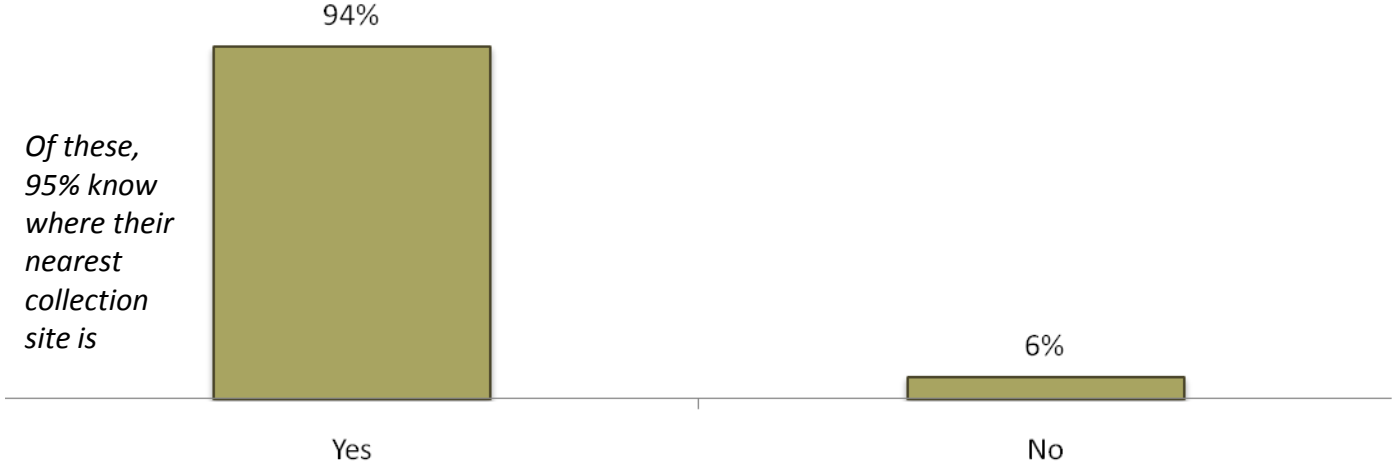
Do you have any material on your farm that you are concerned about recycling or safely disposing of, or that you are unsure of how to dispose of? (N=300) \*

Plastic wrap and film, silage wrap, bale wrap	4%
Twine	4%
Canola seed, fertilizer, treated seed	4%
Chemicals, pesticides	3%
Antifreeze	3%
Paint and solvents	3%
Oil	2%
Tires	2%
Containers	2%
Animal health items	1%
Oil filters	1%
Other	2%
Nothing, no concerns, don't know	76%

\* Percentages add to more than 100, as respondents could give more than one response

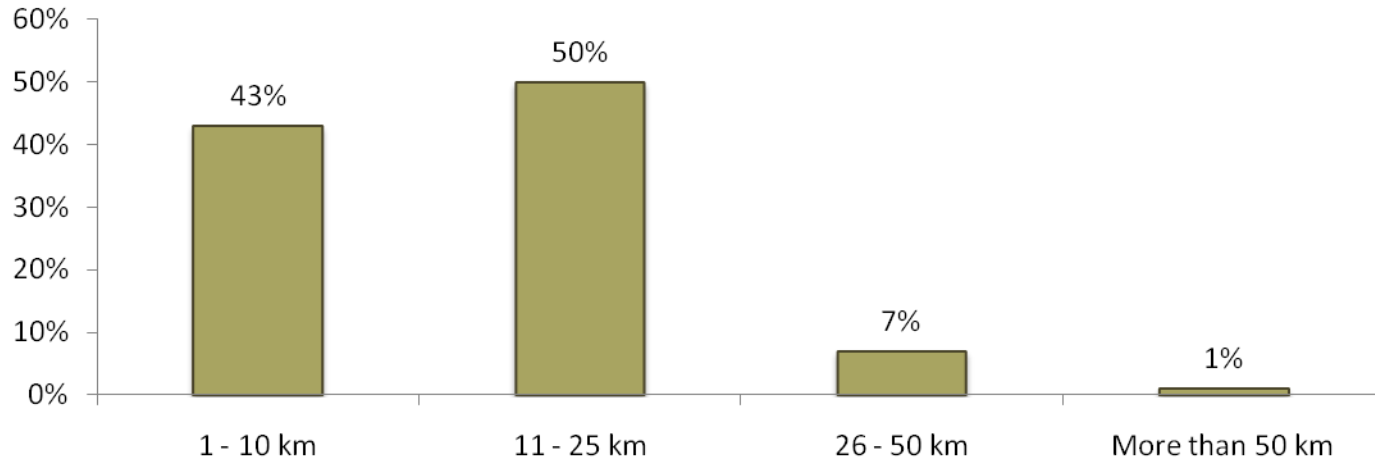
## Awareness of container recycling program

*Before now, were you aware that there is a collection and recycling program for these containers? (N=230, those who generate containers)*

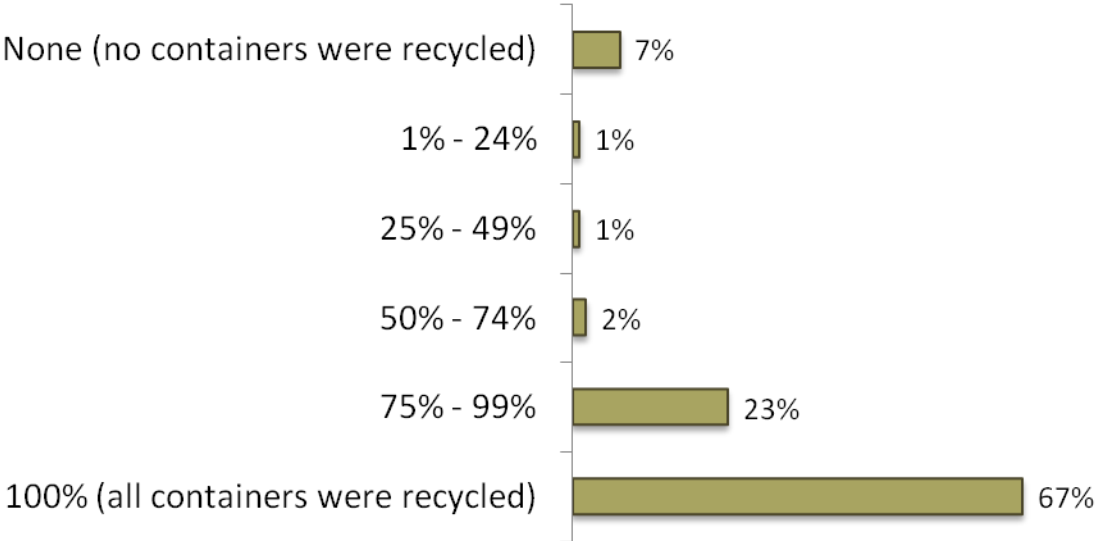


## Distance to drive to return containers

*About how far would you have to drive to return containers? (N=202, those who have containers and know where their collection site is)*

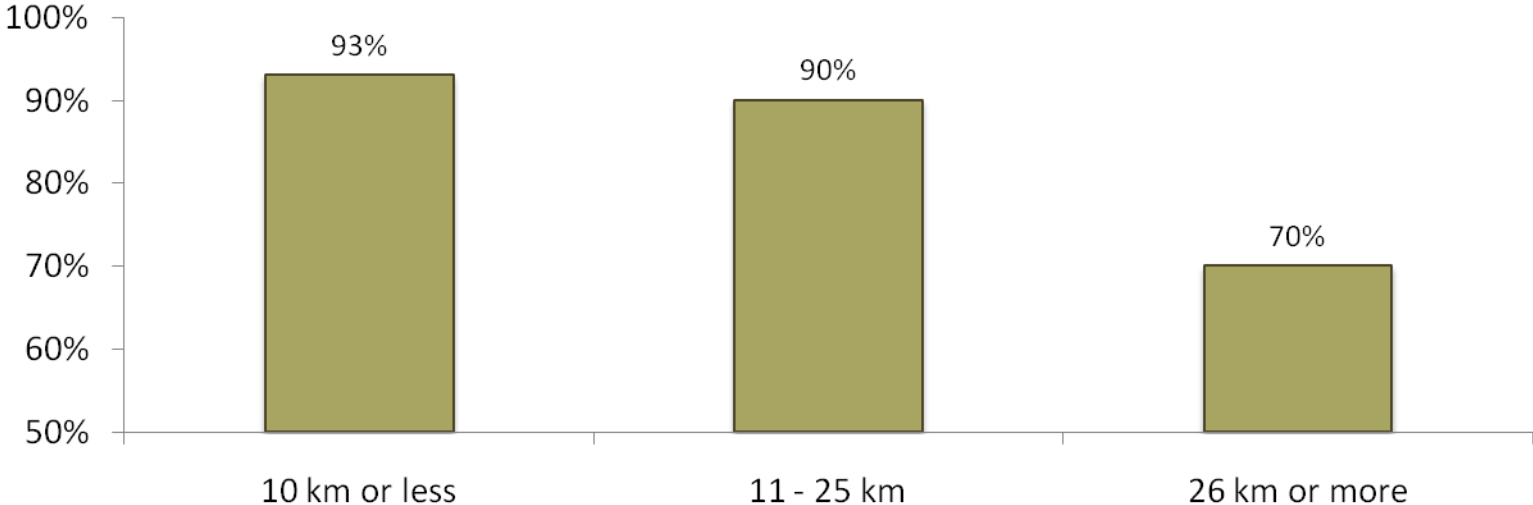


### Portion of containers recycled



N=228, those who generate 10L size-range containers

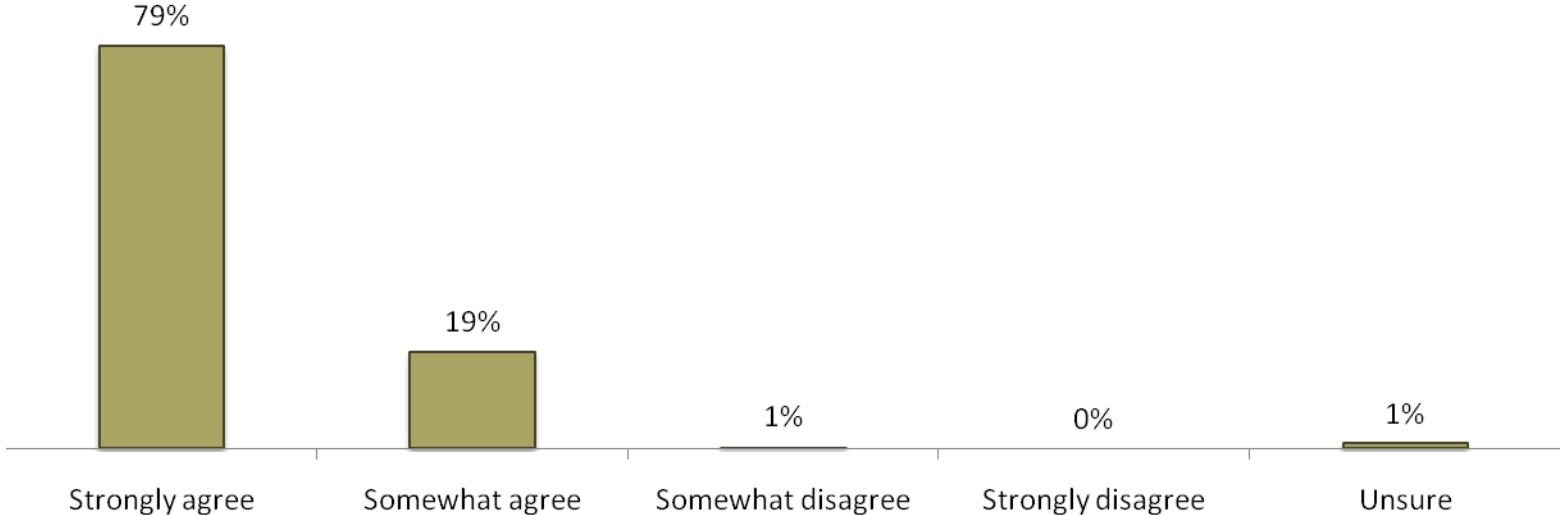
### Portion of containers returned by distance to collection point



N=202, those farmers who are aware of program and know where their recycling point is

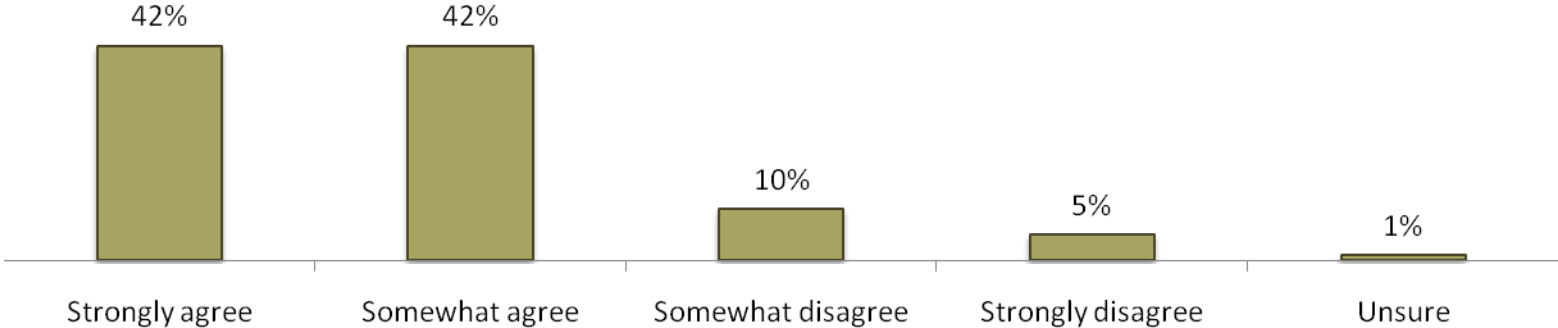
## Attitudes towards responsible disposal of agricultural waste

*Responsible disposal of agricultural waste is very important to me (N=300)*



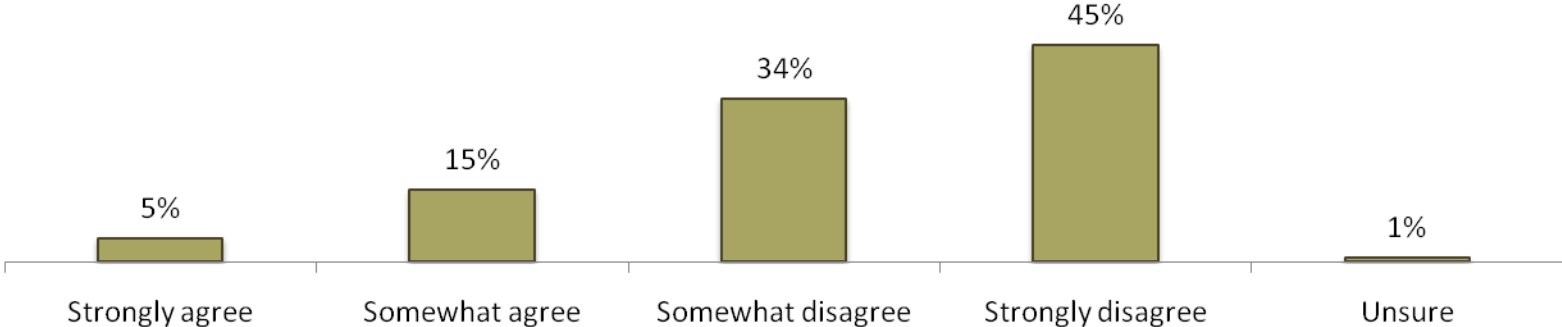
## Do farmers think industry is doing enough?

*The agricultural industry is doing enough to ensure there are responsible ways to dispose of the waste from their products (N=300)*



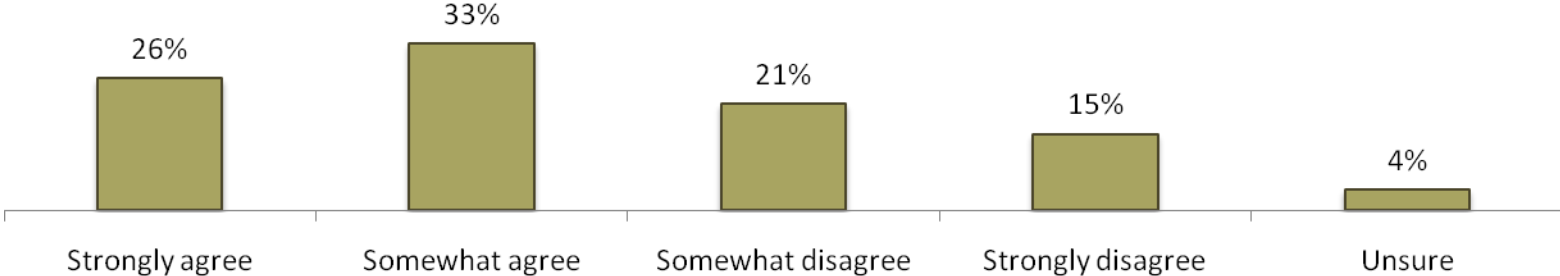
## Do farmers have waste that they don't know how to dispose of safely?

*I have a lot of waste materials around my farm that I am unsure of how or where to safely dispose of (N=300)*



## Do farmers see alternatives to landfill or burning?

*I am uncomfortable burning or putting certain products in my own or other landfills, but don't see any alternative (N=300)*



## Key Messages

---

1. CleanFARMS is actively pursuing solutions for management of agricultural waste
2. In Manitoba, many agricultural waste materials are being buried or burned
3. Farmers believe that proper management and stewardship of agricultural waste is important

**Thank you.  
Any questions?**

