



March 10, 2010 – Presented by Don Tanner

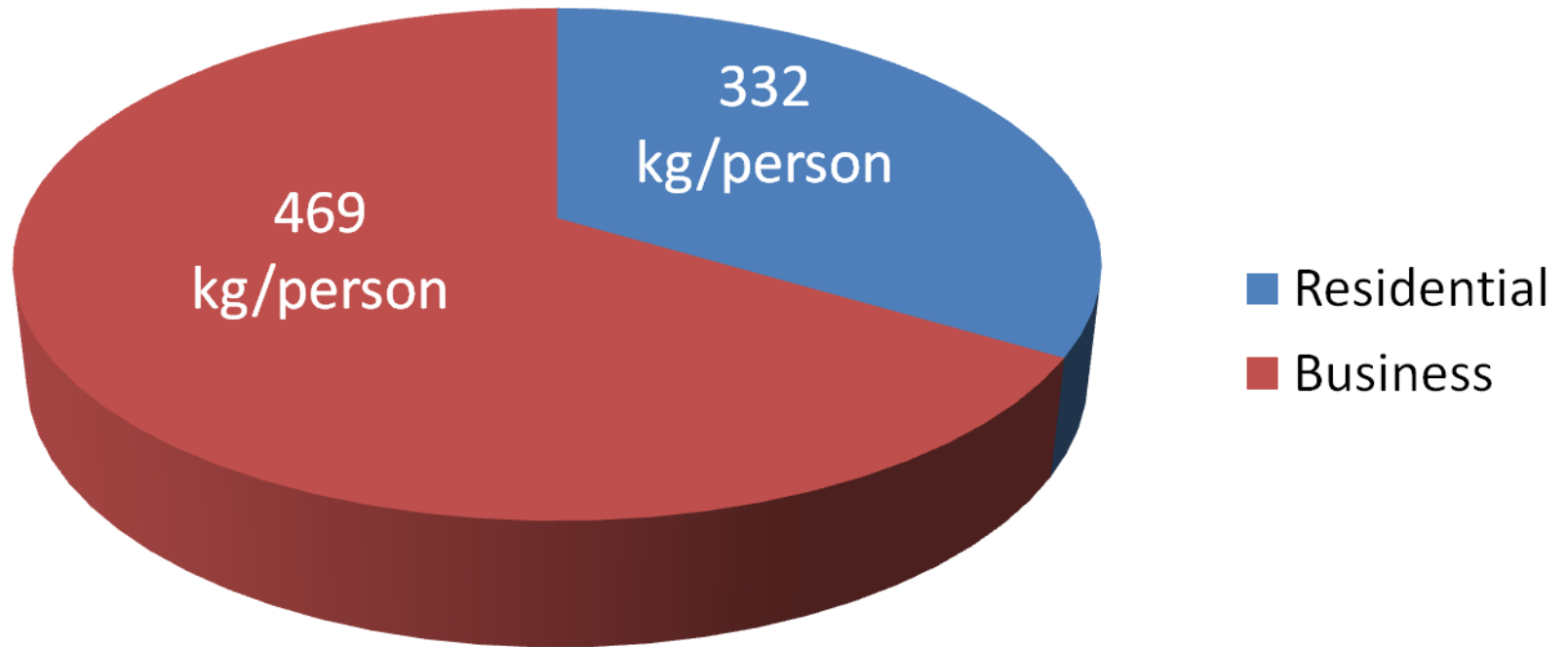
WASTE CHARACTERIZATION STUDY RESULTS

- A 'waste characterization study' estimates the type and amounts of waste generated
- This study is limited to:
 - Non-organic waste; and
 - Farm generated waste only
- Farms are as classified by Statistics Canada

- Our purpose is to confirm and quantify:
 - Wastes generated in high quantities
 - Wastes with potential disposal issues
- The outcome of these studies can be used in the future to develop a new waste recycling and safer disposal program for Ag wastes in Manitoba

- Manitoba waste - 801 kg per person disposed
 - 41% residential
 - 59% non-residential (business)
- Manitoba overall diversion rate – 15%
 - High in Nova Scotia of 45%
 - Low in Saskatchewan of 14%

WASTE GENERATED



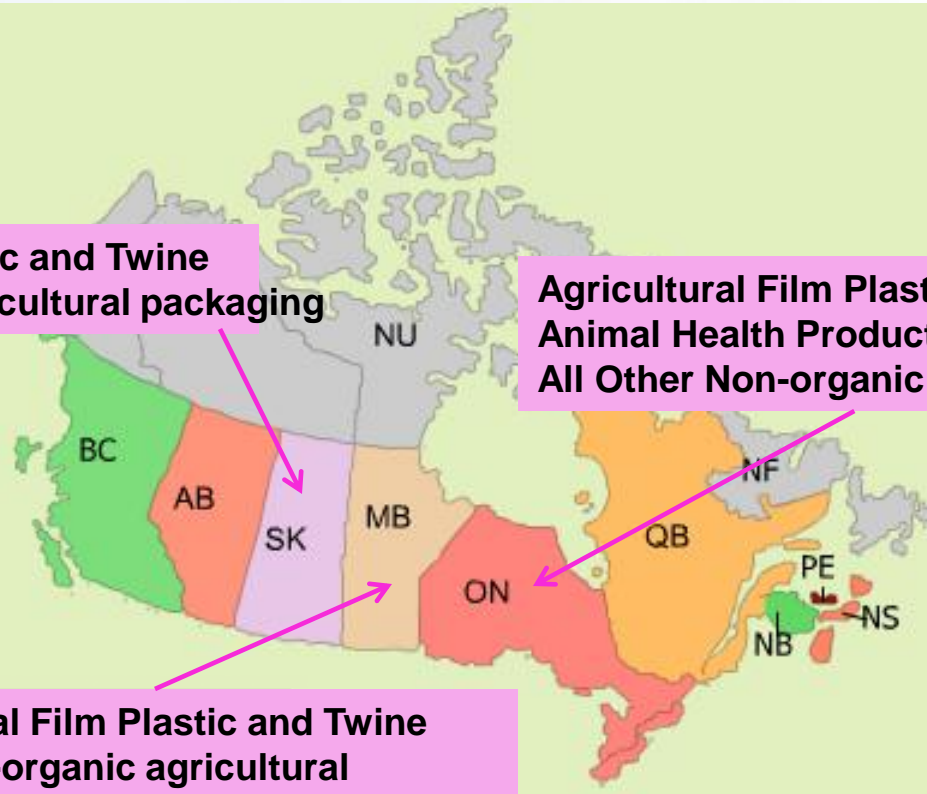
Manitoba diversion rate:

15.0%



**Agricultural Film Plastic and Twine
Other non-organic agricultural packaging**

**Agricultural Film Plastic and Twine
Animal Health Products
All Other Non-organic Agricultural Waste**



**Agricultural Film Plastic and Twine
Other non-organic agricultural
packaging**



Three Waste Characterization Categories

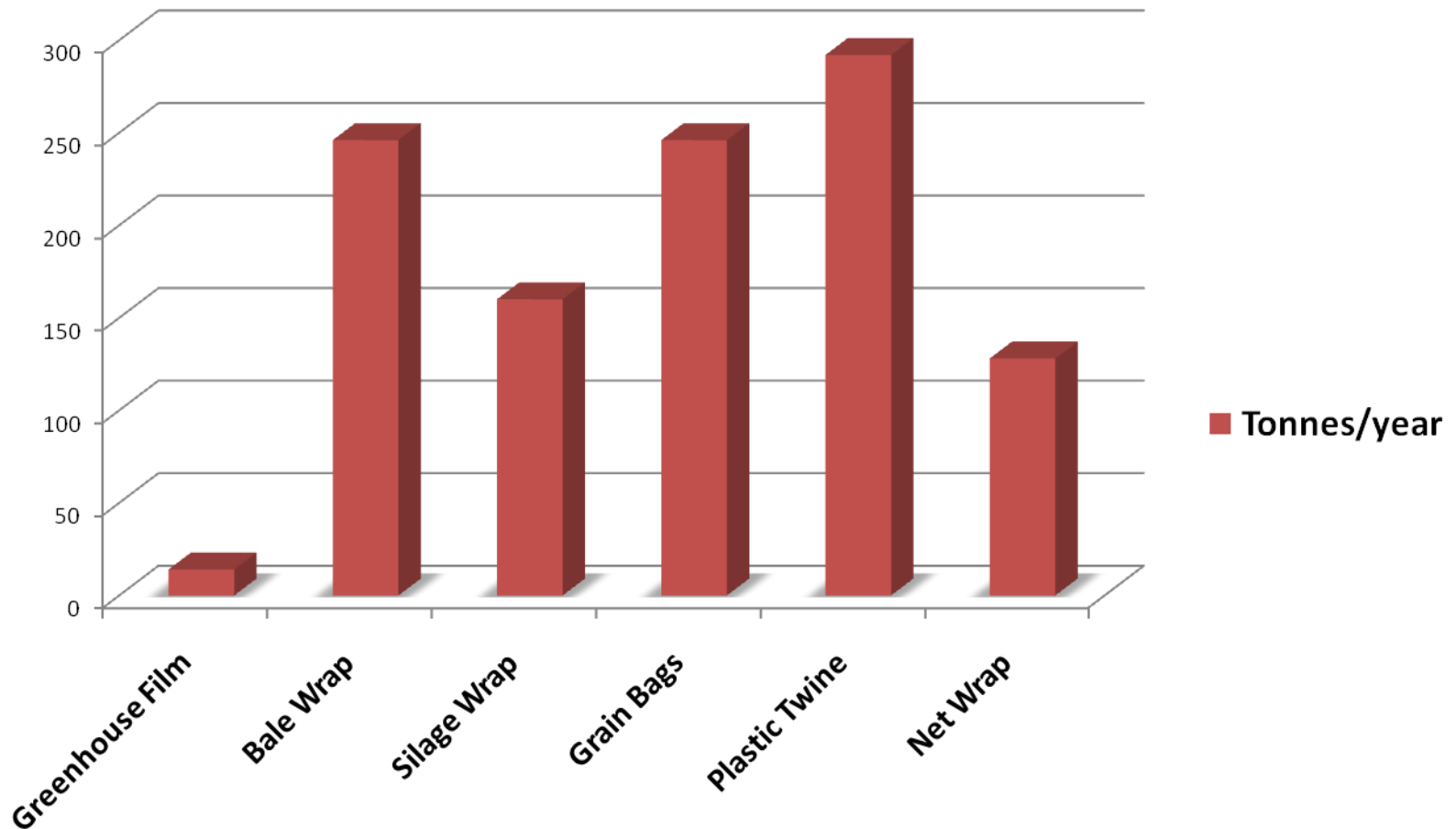
1. Agricultural film (bale/silage wrap, net wrap, mulch film, greenhouse film, grain storage bags) and baling twine
2. Other plastic and paper Ag wastes (seed/feed bags)
3. Corrugated cardboard, boxboard and laminated paper products

- Includes the following waste types:
 - Greenhouse Film
 - Bale/Silage Wrap
 - Grain Bags
 - Plastic Twine
 - Net Wrap

Agriculture Film and Twine



Approximately 1,100 tonnes of plastic film, twine and net wrap used annually





Other Plastic and Paper Ag Wastes

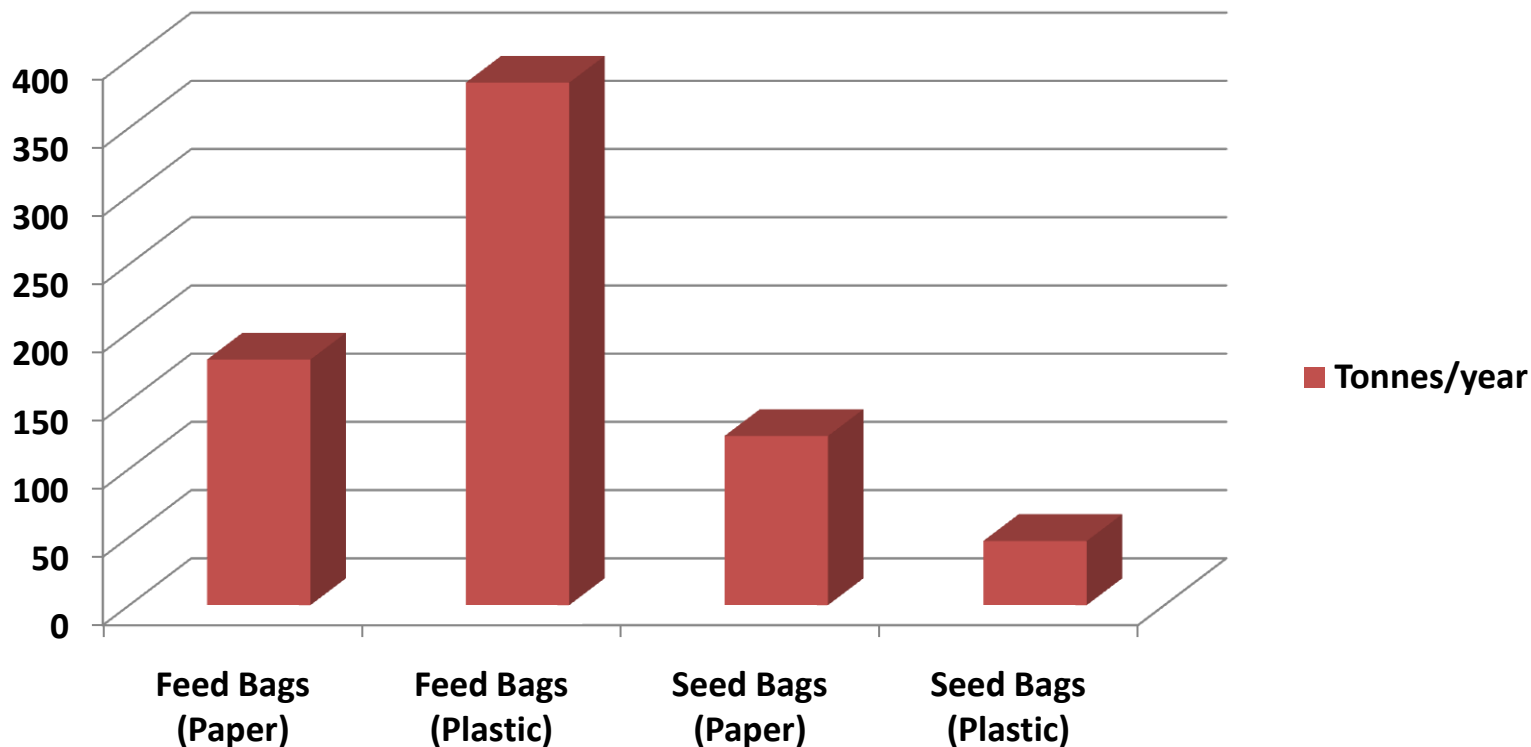
- Includes the following waste types:
 - Feed bags: paper and woven plastic
 - Seed bags: lined paper and woven plastic
 - Cardboard
 - Boxboard
 - Paper Laminates
 - Pesticide jugs

Feed and Seed Production

Woven Plastic, Paper Bags (lined and unlined)



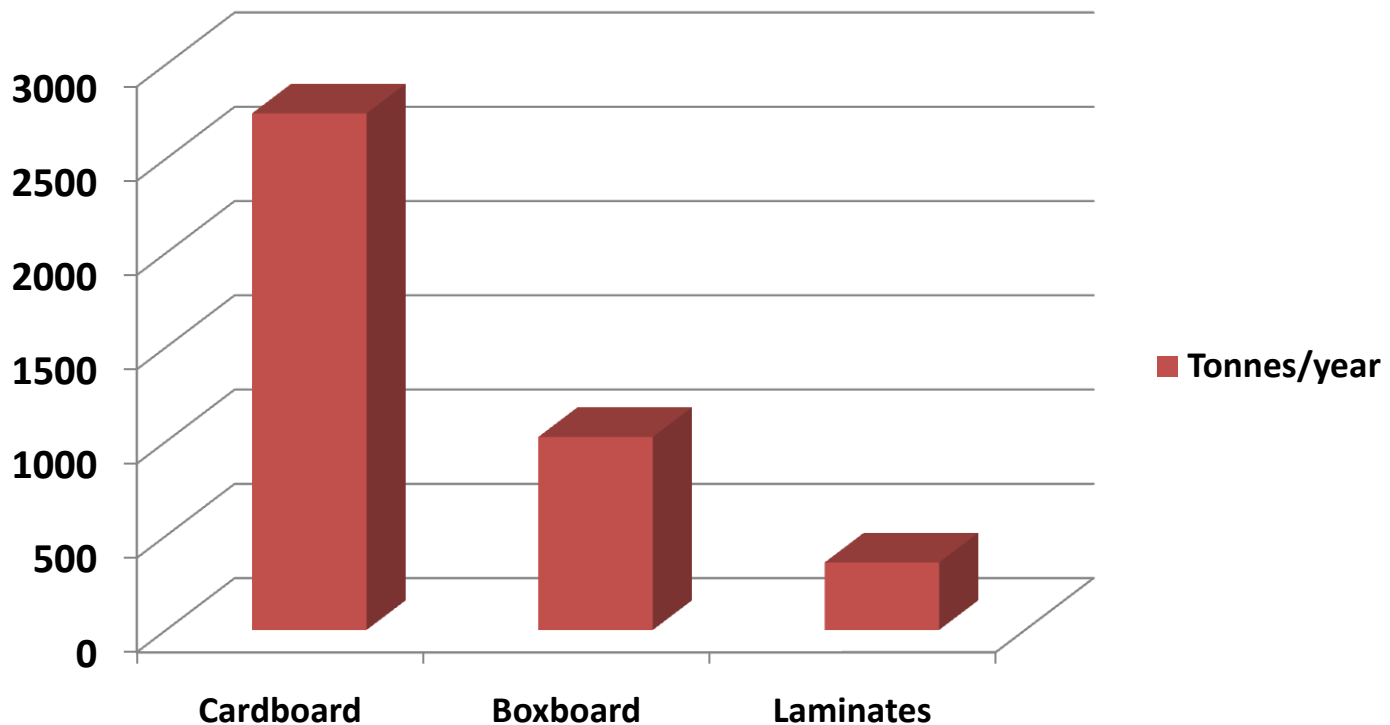
Approximately 725 tonnes of bags used annually



Corrugated cardboard, boxboard and laminates



Approximately 4,100 tonnes of cardboard, boxboard and laminates used annually



- Approximately 5800 tonnes of wastes annually have been identified
- Primarily paper and plastic in nature
- These results will be included in our final report this month