



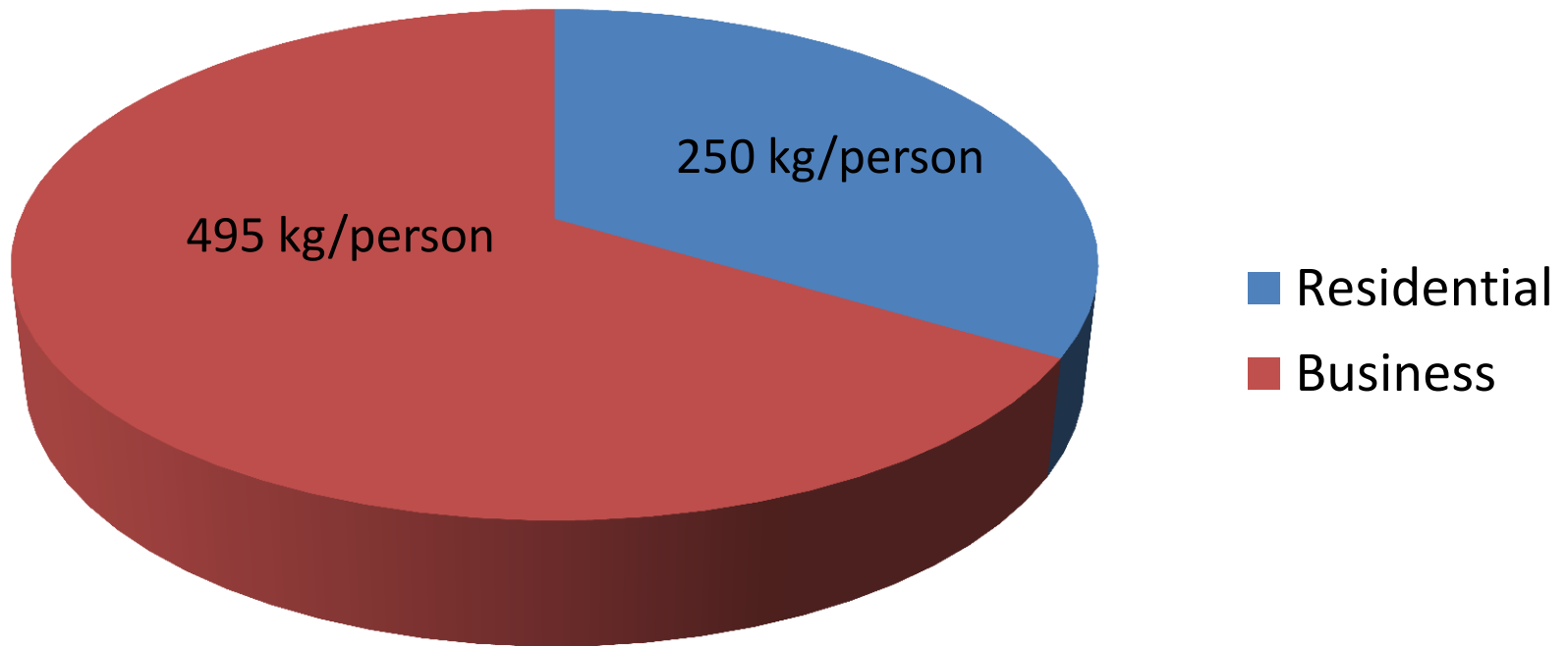
January 19, 2011 – 2CG Inc.

WASTE CHARACTERIZATION STUDY PRELIMINARY RESULTS

- A 'waste characterization study' estimates the type and amounts of waste generated
- This study is limited to:
 - Non-organic waste
 - 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 (e.g. animal health)
- The outcome of these studies will be used to develop new waste recycling and safer disposal programs

- Ontario waste - 745 kg per person disposed
 - 34% residential
 - 66% non-residential (business)
- Ontario overall Diversion rate – 22.6%
 - High in Nova Scotia of 45%
 - Low in Saskatchewan of 14.2%

WASTE DISPOSED

Ontario overall diversion rate - 22.6%

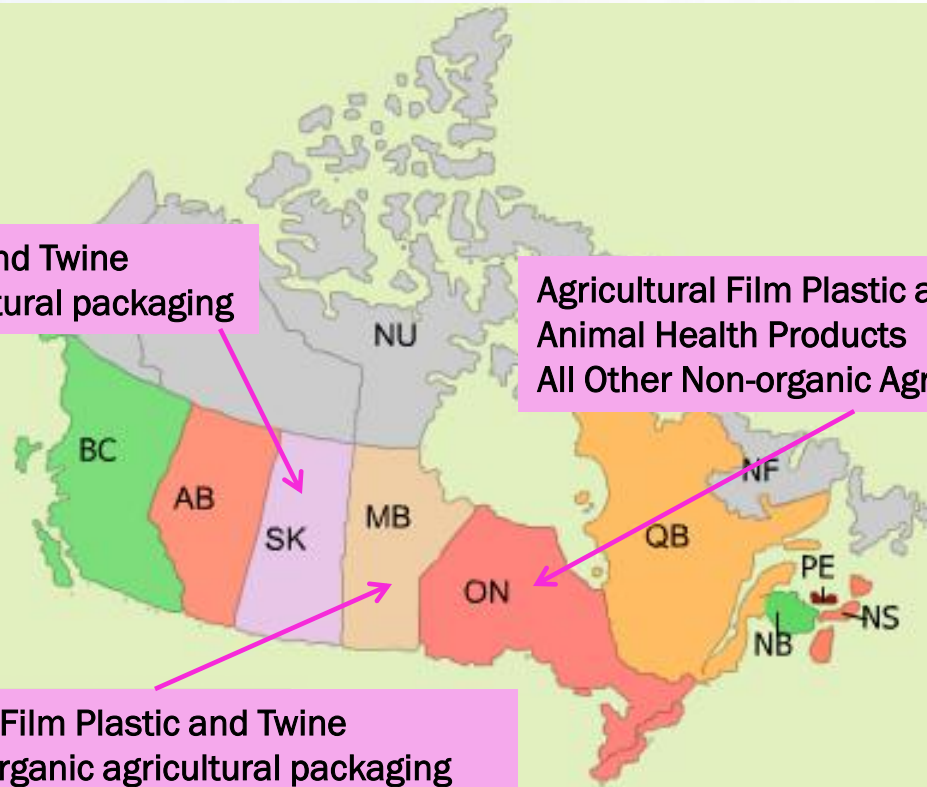
Non-residential (business) diversion rate - 12%



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. Animal Health Products
2. Agricultural film and twine (bale wrap, mulch wrap, greenhouse film, grain storage) and baling twine
3. All other agricultural waste (non-organic)



Animal Health Care Products

- Includes the following waste types:
 - Pharmaceuticals
 - Vaccines
 - Animal pesticides
 - Medicated feed

Packaging & Product Type "Audit"





Preliminary Results

CleanFARMS Consolidated Report - Packaging

Company:	All Participants									
Report:	Volumes of Packaging									
Date:	Jan - Dec 2009									
	Aerosol Cans (KG)	Carton (Box-Board) (KG)	Inserts (KG)	Glass Bottles (KG)	Plastic Bottles (KG)	Paper Bag (KG)	Foil Bag (KG)	Plastic Bag (KG)	Clamshells (KG)	Tube (KG)
Ontario	TBD*	7,037	843	1,010,119	66,572	TBD	972	TBD	TBD	2,250

*To Be Determined

Glass: both coloured and clear

Plastic Bottles: composition includes LDPE, HDPE, PET, PP

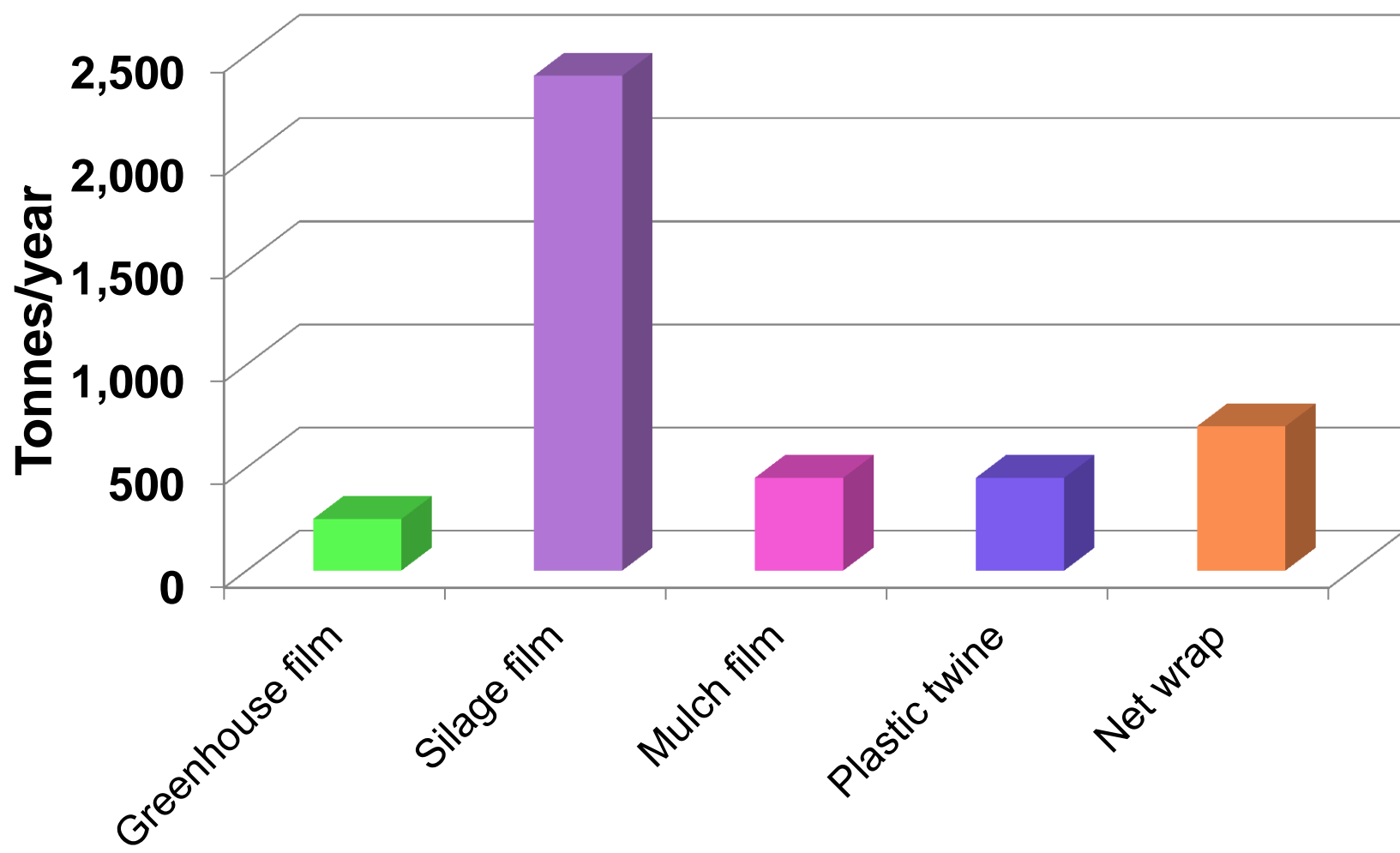
Film Plastic and Twine

- Includes the following waste types:
 - Greenhouse film
 - Silage film
 - Mulch film
 - Plastic twine
 - Net wrap

Film Plastic and Twine



About 4,250 tonnes of plastic film, twine and net wrap used annually



- Includes the following waste types:
 - Plastic film bags
 - Woven plastic bags
 - Plastic jugs
 - Plastic pails
 - Plastic pots trays and cells
 - Paper bags (lined and unlined)
 - Cardboard
- Only includes wastes generated at the business

Feed and Seed Production

Woven Plastic, Paper Bags (lined and unlined)



Fertilizer Products

Plastic Bags



Other Wastes – Farm Generation Only

Greenhouse and Nursery Flower and Plant Production Pots , liners, trays and flats





Produce Boxes



Bushel Baskets



Baskets

Field and Greenhouse Vegetable and Flower Production Boxes, Baskets



Mesh and Jute Bags



Wooden crates

Adapted from: <http://www.agripak2m.com/agripaken/index.html>

Other Wastes – Farm Generation Only



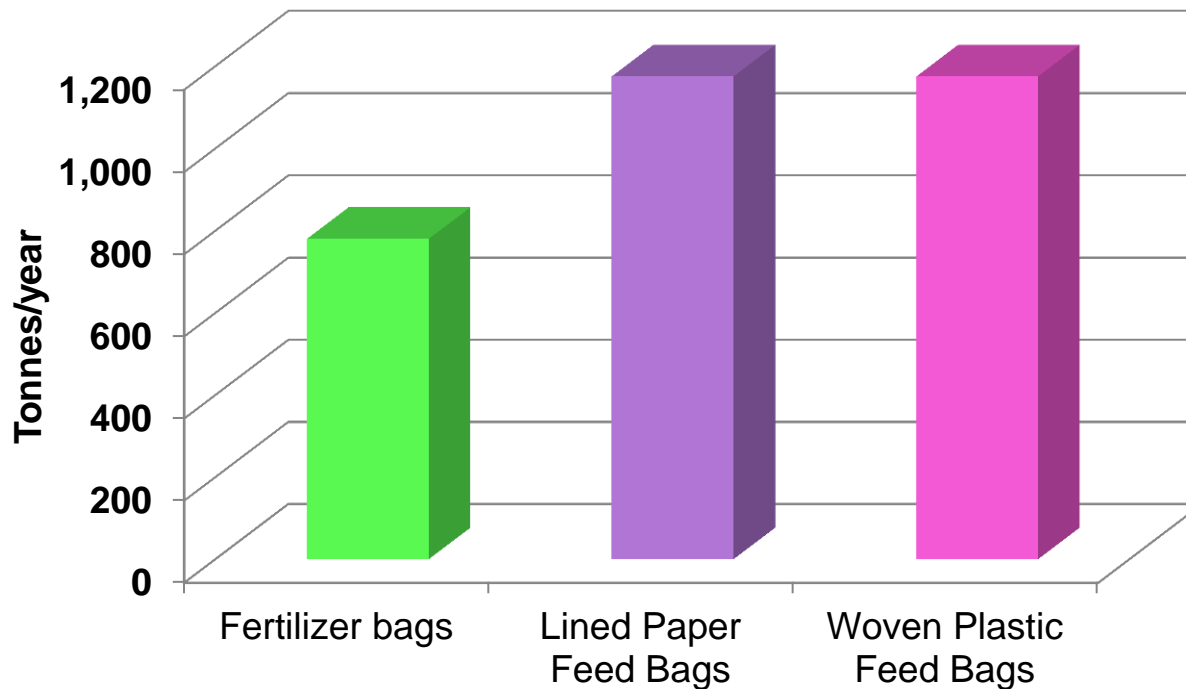
Pesticide Production
Plastic Jugs, Pails, Cardboard boxes



Sanitation Products Plastic Jugs and Pails

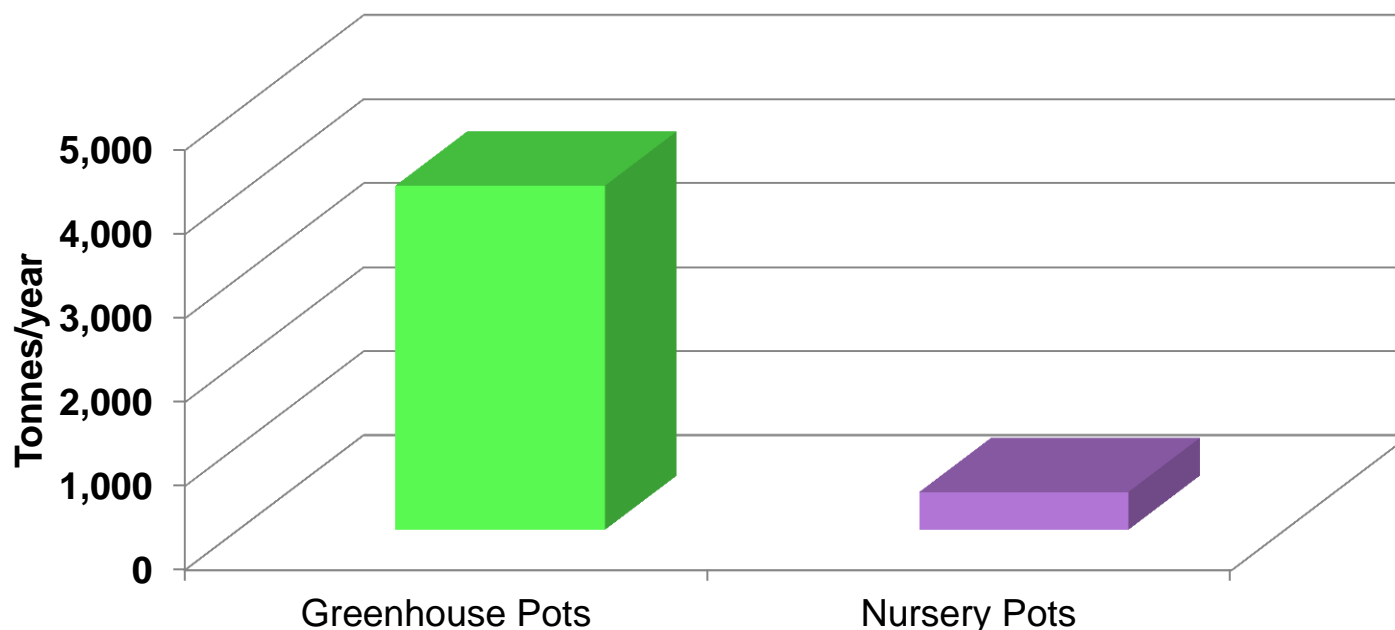


- About 3,000 tonnes of bags used annually



Other Wastes – Preliminary Results

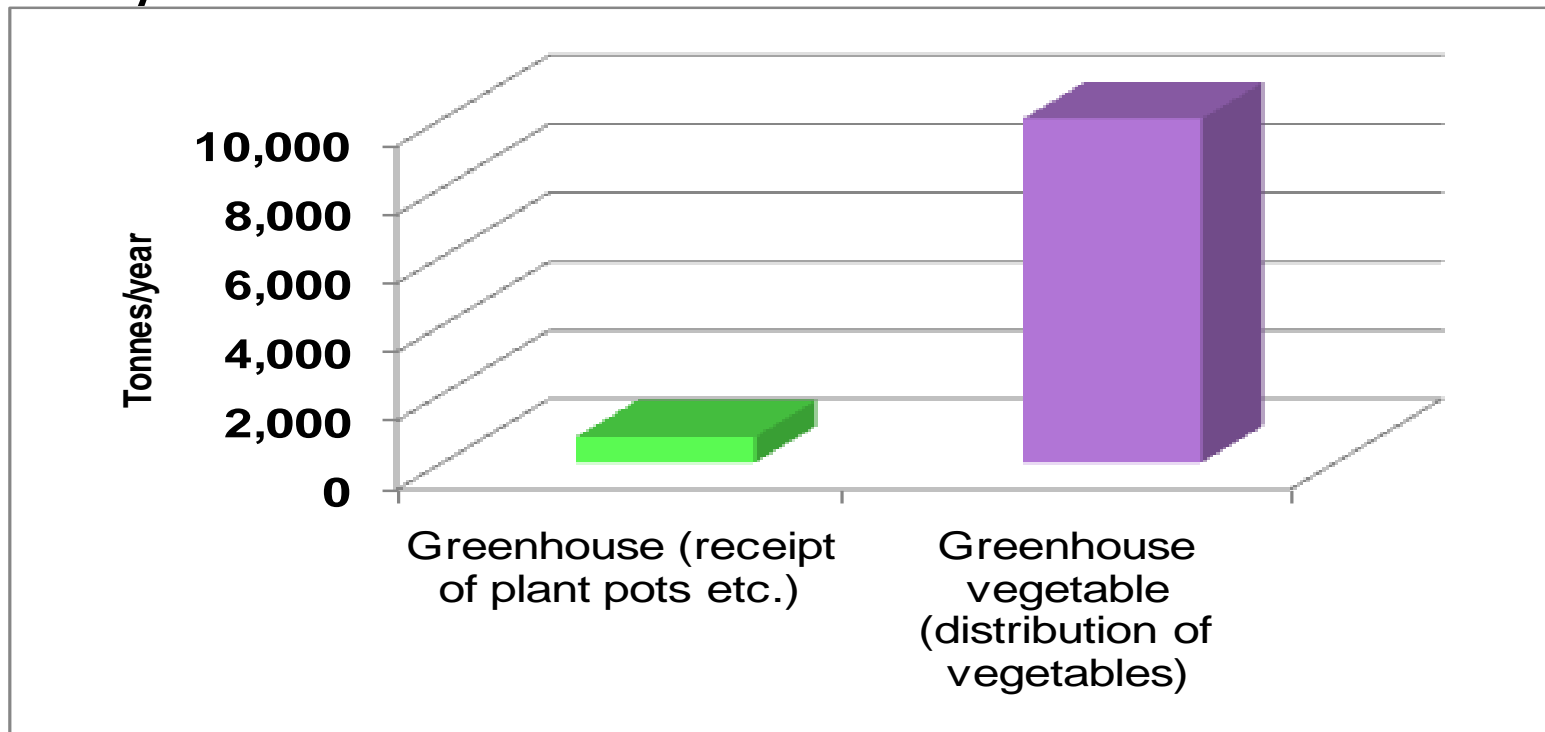
- About 4,500 tonnes of greenhouse and nursery pots, inserts, flats and trays



***NOTE:** These may not be wastes generated at the 'grower' location. As such, these numbers may be reduced substantially to include only 'grower' generated wastes.

Other Wastes – Preliminary Results

- At least 10,000 tonnes of cardboard is generated annually



- To date about 20,000 tonnes of wastes have been identified
- Primarily paper and plastic in nature
- These results are preliminary and may vary substantially
- A final report will be completed in March