Agricultural Diversion Programs in Canada

Agricultural Waste to Resource Summit



Agenda

- Waste characterizations
- Waste diversion programs
- Case study grain bag recycling in Saskatchewan
- Moving forward



Waste characterizations



Top commodities by province & territory







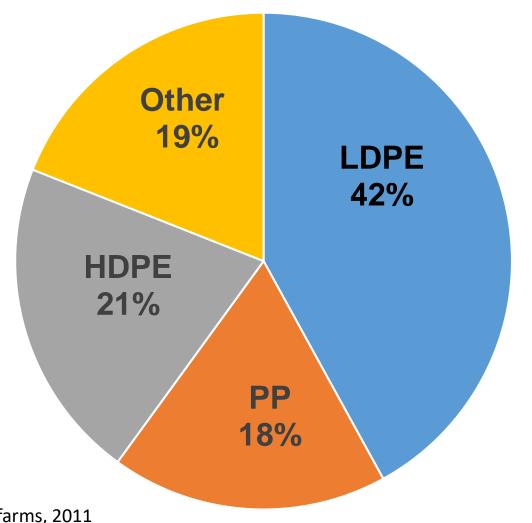


Waste characterization studies



- Conducted in all provinces, excluding Quebec
- Variation based on commodities
- Estimated total:25,700 tonnes

Plastic generated on-farm – Ontario, yearly



6,912 tonnes

LDPE

- silage, bale wrap
- mulch film, fertilizer bags, greenhouse film

HDPE

- sanitation, pesticide containers
- oil jugs, pails, drums

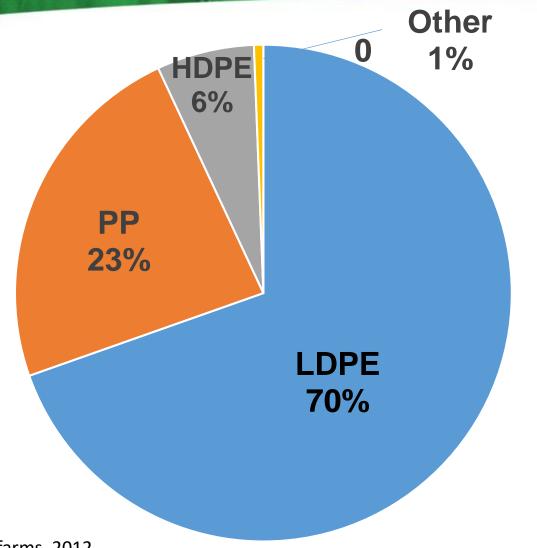
PP

- -twine, woven bags (feed & seed)
- plant pots, inserts, flats, liners, sleeves



Source: Cleanfarms, 2011

Plastic generated on-farm – Maritimes, yearly



2,124 tonnes

LDPE

- bale, silage wrap
- fertilizer packaging, mulch film

PP

- -woven bags (feed, seed, fertilizer)
- -twine (hay and greenhouse use)

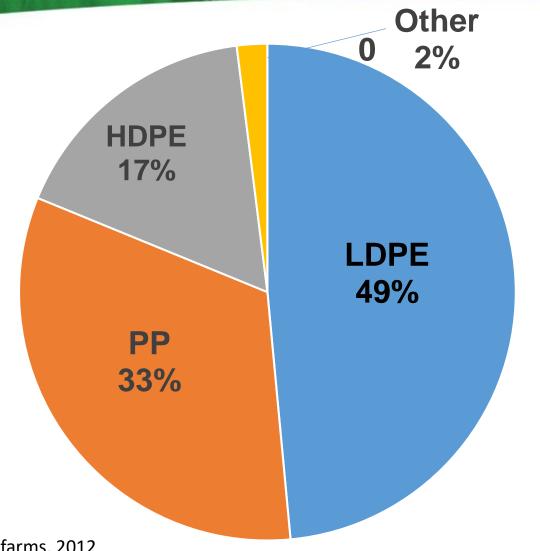
HDPE

- -sanitation, pesticide containers
- -net wrap



Source: Cleanfarms, 2012

Plastic generated on-farm – Nova Scotia, yearly



710 tonnes

LDPE

- bale/silage wrap
- mulch film and row covers

PP

- fertilizer bags, feed bags
- twine

HDPE

- sanitation & pesticide containers
- net wrap



Source: Cleanfarms, 2012

Waste diversion programs

existing & emerging



Cleanfarms: industry-led, funded



























































































































Very specialized programs







Container recycling



2016 collection figures (small containers)
Canada-wide ~ 1.97 million kilograms
Maritimes ~ 54,000 Nova Scotia ~ 14,000

Seed & pesticide bag collections









2016 collection figures (small containers)
Eastern Canada ~ 296,000 kilograms
Maritimes ~ 13,000

Manitoba

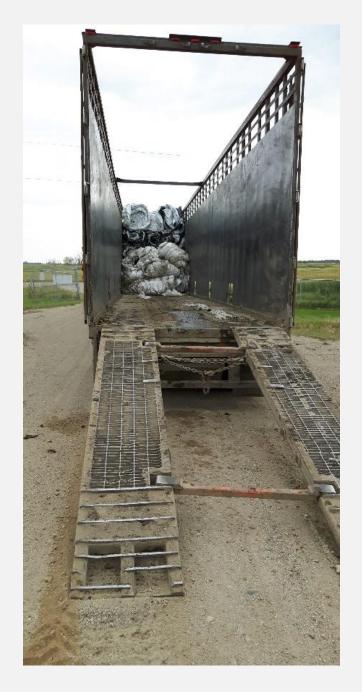




Manitoba







Ontario



Ontario





Ontario: farmer-driven



Ontario: farmer-driven



Prince Edward Island





SILAGE & BOAT SHRINK WRAP will be accepted FREE OF CHARGE at Waste Watch Drop-Off Centers





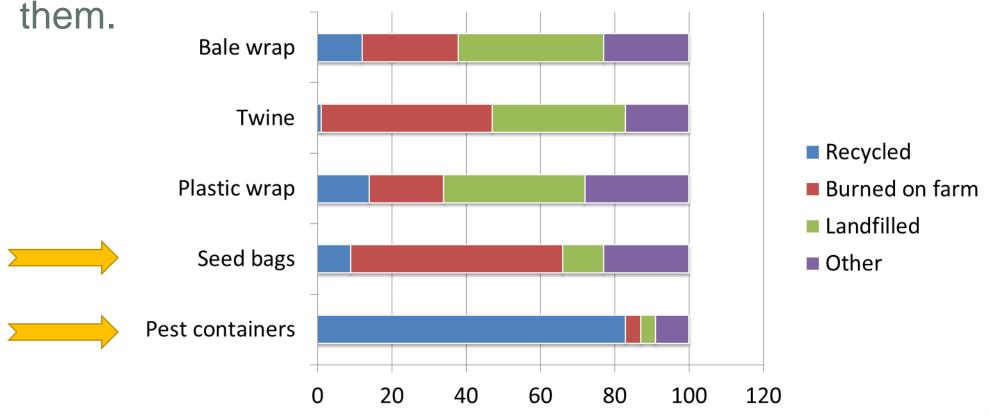
Ag waste diversion programs - summary

• When convenient, accessible programs are available, farmers use them.



Ag waste diversion programs - summary

• When convenient, accessible programs are available, farmers use



Source: Ontario study, 2012



Ag waste diversion programs - summary

- When convenient, accessible programs are available, farmers use them.
- Pockets of ag plastics recycling have started
- Challenges unique to agriculture
- Innovation



Saskatchewan – grain bag recycling

it's a marathon



Grain bags







Background

Government funded pilot projects: 2011 – 2018

• 2016: 973,088 kilograms

Prep work: 2011 – 2014

waste studies, market research, extensive consultations

The Agricultural Packaging Product Waste Stewardship Regulations

- regulation passed: August 2016
- industry-funded program: 2018



Recommendation: do something and do it right

- Level playing field
- Deliver value
 - transparency, accountability, traceability
 - pilot programs
- Be upfront about program costs
 - Environmental Handling Fee (EHF)
- Stewardship is a conversation



Keep talking

'Farming looks mighty easy when your plow is a pencil and you're a thousand miles from the corn field.'

Dwight D. Eisenhower



Obsolete pesticide & animal health med. collections







Nova Scotia: November 5 – 16, 2018