

# Product Care

*“Product Stewardship Solutions”*

## Manitoba Household Hazardous Waste Stewardship Public Consultation

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# About Product Care

- Formed in 1994 as a result of stewardship regulations in BC
- Federal non profit corporation
- All industry board, sector appointed
- Product Care and its board have evolved as products added
- Focus on household special waste
- Operates or manages all or part of 7 programs in 6 jurisdictions



# Product Care Approach



- One organization managing multiple programs/provinces
- Local coordinator/office in each province
  - Interface with govt and local stakeholders
  - Assist with communications
  - Assist with collection site management
  - Troubleshoot operational matters



# Product Care Approach



Offer “one stop” for product stewards

- cost effective central administration
- harmonization of product definitions
- common fee reporting web portal
- build technical expertise
- economies of scale/synergies
- single board of directors



# British Columbia



**1994 - Paint**



**1997 - Flammables, pesticides, gasoline**



**2010 - Fluorescent Lamps**



**2011 - Small appliances** (program plan development phase only)

# Saskatchewan



- Paint 2006
- E-waste – 2007 - SWEEP – as program manager



# New Brunswick



## Paint 2009

- Mixed collection system including local govt, bottle depots and retail



## Ontario

- MHSW 2008-2010 - program development and steward services
- program operated by Stewardship Ontario



## Alberta

- 2008 Paint
- revenue management only
- program operated by Alberta Recycling Management Authority



## Nova Scotia

- Paint 2002 – revenue management only
- program operated by RRFB NS



# Oregon



- Paint 2010
- Program operated by PaintCare Inc.
- Product Care as Program Manager



# Manitoba

## - background



- Household Hazardous Material & Prescribed Material Stewardship Regulation (HHMPM)
- PCA has been leading HHW industry working committee for a number of years
- Involvement of Canadian Paint and Coatings Associations (CPCA) and Canadian Consumer Specialty Products Association (CCSPA), Retail Council, EEMAC and others
- PCA plans to manage HHMPM categories of paint, flammables, pesticides, fluorescent tubes, corrosives, toxics and others

# Manitoba Regulatory Basis for HHMPM programs

- *The Waste Reduction and Prevention Act* (C.C.S.M. c. W40)
- *Household Hazardous Material and Prescribed Material Stewardship Regulation* (the “HHMPM Regulation”)
- draft Guideline for stewardship programs issued by Manitoba Conservation

# HHMPM categories

Product Care plan categories noted in colour

- (a) waste household hazardous materials category;
- (b) pesticides category;
- (c) pharmaceutical products category;
- (d) natural health products category;
- (e) automotive antifreeze category;
- (f) paint products category;
- (g) fluorescent lighting tubes and compact fluorescent lights category;
- (h) lead-acid automotive batteries category;
- (i) rechargeable batteries category;
- (j) other batteries category.

# Products Included/Excluded

- **Residential Use products included:** This Program Plan covers products which are supplied for household use or application.
- **Products not included.** In general, the program will not accept:
  - Commercial, industrial or agricultural products
  - Products that are unlabelled or cannot be identified (unknowns)
  - Products that are leaking or improperly sealed
  - Cosmetics, health and beauty aids
  - Insect repellents, disinfectants and pet products

# Containers ?

## S. 2 of HHMPM Regulation

- **"waste material"** means
  - (a) household hazardous material or prescribed material
    - (i) that through use, storage, handling, defect, damage, expiry of shelf life or other similar circumstance can no longer be used for its original purpose,
    - or
    - (ii) that, for any other reason, the owner or person in possession of the material intends to dispose of; and
  - **(b) the container in which household hazardous material or prescribed material was supplied.**
- 
- MMSM program – fees applicability v actual collection and recycling in municipal programs
  - interface of HHMPM and MMSM program
  - not all HHMPM containers have recycling options
  - further analysis required

# HHMPM Material Categories covered by Product Care plan

1. **Waste Household Hazardous Materials (WHHM)**
  - a) flammable materials;
  - b) corrosive materials;
  - c) physically hazardous materials
  - d) toxic materials;
  - e) environmentally hazardous materials,
2. **Pesticides**
3. **Paint Products**
  - latex, oil and solvent based architectural coatings
  - aerosol
4. **Fluorescent Lighting**
  - Tubes and
  - Compact Fluorescent Lights

# 1. Waste Household Hazardous Materials


## In HHMPM Regulation Schedule:

Devices, equipment, material, products and substances that meet the criteria for waste household hazardous materials set out in the CSA Standard Z752-03, Definition of Household Hazardous Waste, including, but not limited to, devices, equipment, material, products and substances that meet the criteria for:

- a) **flammable materials;**
- b) **corrosive materials;**
- c) **physically hazardous materials**, including, but not limited to,
  - (i) explosives (but not including ammunition), and
  - (ii) medical sharps carrying pathogens;
- d) **toxic materials;** or
- e) **environmentally hazardous materials**, including those materials that meet the criteria of being "toxic", and either "persistent" or "bio-accumulative" as those terms are described in Clauses 7.6.2.2. to 7.6.2.4. of that Standard.

# Product Care Plan for:



## 1 a) Flammables

Subcategory	Included	Excluded
(a) flammable materials;	<p>Products displaying following symbols</p> <div style="text-align: center;">  </div> <p>flammable liquids as defined in CSA Standard Z752-03, including waste gasoline, in containers not exceeding 10 L capacity, except:</p> <ul style="list-style-type: none"> <li>• for aerosol flammables, not exceeding 660 g or 24 oz,</li> <li>• for gasoline: 25L</li> </ul>	<ul style="list-style-type: none"> <li>• Non-liquid flammable materials</li> <li>• wine and distilled spirit beverages,</li> <li>• cosmetic and beauty products,</li> <li>• drugs, medicines and other health products,</li> <li>• gasoline not returned in an approved container</li> </ul>

# Flammables data

	Year 1 2011-12	Year 2 2012-13	Year 3 2013-14	Year 4 2014-15	Year 5 2015-16
Litres sold*	900,000	909,000	918,090	927,271	936,544
Rate of annual increase		1%	1%	1%	1%
Total Litres collected	16,200	18,180	20,198	22,255	24,350
% of quantity sold	1.8%	2.0%	2.2%	2.4%	2.6%

# 1 b) Corrosives

Subcategory	Included	Excluded
(b) corrosive materials;	<p>Products displaying following symbols:</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>as defined in CSA Standard Z752-03,</p> <ul style="list-style-type: none"> <li>• pH <math>\leq 1</math> or <math>\geq 13</math>. For pH <math>&gt; 1 \leq 3</math> or <math>&lt; 13 \geq 11</math>, may be included if meets acid reserve or alkali reserve test specified,</li> <li>• or if classified under TDGR as class 8</li> <li>• maximum container size 4 L</li> </ul>	


# Corrosives data

	Year 1 2011-12	Year 2 2012-13	Year 3 2013-14	Year 4 2014-15	Year 5 2015-16
Estimated Litres sold	1,520,000	1,535,200	1,550,552	1,566,058	1,581,718
Rate of annual increase		1%	1%	1%	1%
Total Litres collected	30,400	33,774	37,213	40,717	44,288
% of quantity sold	2.0%	2.2%	2.4%	2.6%	2.8%

# 1 c) Physically Hazardous

Subcategory	Included	Excluded
(c) physically hazardous materials	compressed gas fuel cylinders such as welding fuel, camping cylinders, butane cylinders, less than 5 kg	(i) explosives (including ammunition), (ii) medical sharps carrying pathogens; (iii) refillable propane cylinders (iv) aerosols containing materials which are not Program Products

# 1 d) Toxic Materials



Subcategory	Included	Excluded
(d) toxic materials;	<p>Products displaying the following poison symbols:</p> <div></div> <p>as defined in CSA Standard Z752-03</p>	<p>Excludes mercury switches, products already captured in pesticide category, products displaying a “caution” symbol.</p>

# 1 e) Environmentally Hazardous Materials

Subcategory	Included	Excluded
(e) environmentally hazardous materials, including those materials that meet the criteria of being "toxic", and either "persistent" or "bio-accumulative" as those terms are described in Clauses 7.6.2.2. to 7.6.2.4. of that Standard.		

It has not been determined if there are any household products not already included in other HHMPM Categories.

## 2. Pesticides

Subcategory	Included	Excluded
Pesticides	<p>Consumer pesticides that have both the poisonous (skull &amp; cross bones) symbol and Pest Control Product (PCP) number.</p> <div style="display: flex; justify-content: center; gap: 20px;">   </div> <p>Maximum container size: Pesticides 10 Litres</p>	<ul style="list-style-type: none"> <li>• Pesticides which do not have both the poisonous symbol and the PCP number</li> <li>• insect repellents;</li> <li>• sanitizers and disinfectants;</li> <li>• pesticides for industrial, commercial or agricultural use</li> </ul>

# Pesticides data

	Year 1 2011-12	Year 2 2012-13	Year 3 2013-14	Year 4 2014-15	Year 4 2015-16
Estimated Litres sold*	43,200	43,200	43,200	43,200	43,200
Rate of annual increase		0%	0%	0%	0%
Total Litres collected	2,592	3,024	3,456	3,888	4,320
% of quantity sold	6%	7%	8%	9%	10%

# 3. Paint Products

Category Name	Description of Included Devices, Equipment, Material, Products or Substances
Paint Products	<ol style="list-style-type: none"><li>1. Latex, oil-and solvent-based architectural coatings, whether tinted or untinted, including paints and stains for commercial and homeowner use, but not including unpressurized coatings supplied in containers with a capacity of more than 30 L.</li><li>2. Paints and stains sold in pressurized aerosol containers.</li></ol>

# Paint data

	Year 1 2011-12	Year 2 2012-13	Year 3 2013-14	Year 4 2014-15	Year 5 2015-16
Litres sold*	8,800,000	8,888,000	8,976,880	9,066,649	9,157,315
Rate of annual increase		1%	1%	1%	1%
% available for collection**	10%	10%	10%	10%	10%
Litres available for collection	880,000	888,800	897,688	906,665	915,732
Total Litres collected	264,000	311,080	359,075	407,999	457,866
vol. recovered as % of quantity sold	3%	3.5%	4%	4.5%	5%
vol. recovered as % of qty available for collection	30%	35%	40%	45%	50%

## 4. Fluorescent Lights

Category Name	Description of Included Devices, Equipment, Material, Products or Substances
Fluorescent Lighting Tubes and Compact Fluorescent Lights	

- fluorescent lights marketed to residential users
- designed to be removed by the user.
- compact fluorescent lights and fluorescent tubes.
- number of units available for collection in a given year is subject to
  - the availability of historic sales data,
  - consumer use patterns and
  - generally increasing product longevity.

# fluorescent lights included

Fluorescent lamps

-residential

-meant to be removed by the user

**tubes**



**CFLs**

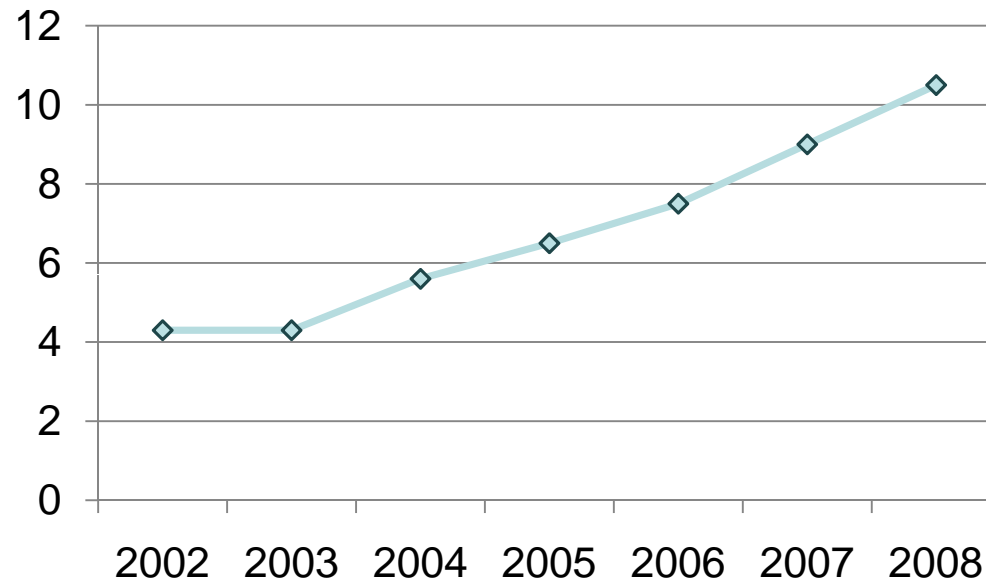


# Fluorescent Lights Data

		Available for Collection					
	2010 est'd sales	basis	Year 1	Year 2	Year 3	Year 4	Year 5
<b>Fluorescent lights - CFL -household (units)</b>	500,000	Based on lifespan of units sold in prior years	82,800	83,700	108,550	81,850	110,350
<b>Fluorescent Tubes – household (units)</b>	135,000	Based on lifespan of units sold in prior years	46,200	44,100	38,250	37,550	50,850

# Fluorescent light lifespan

Average Lifespan (years)



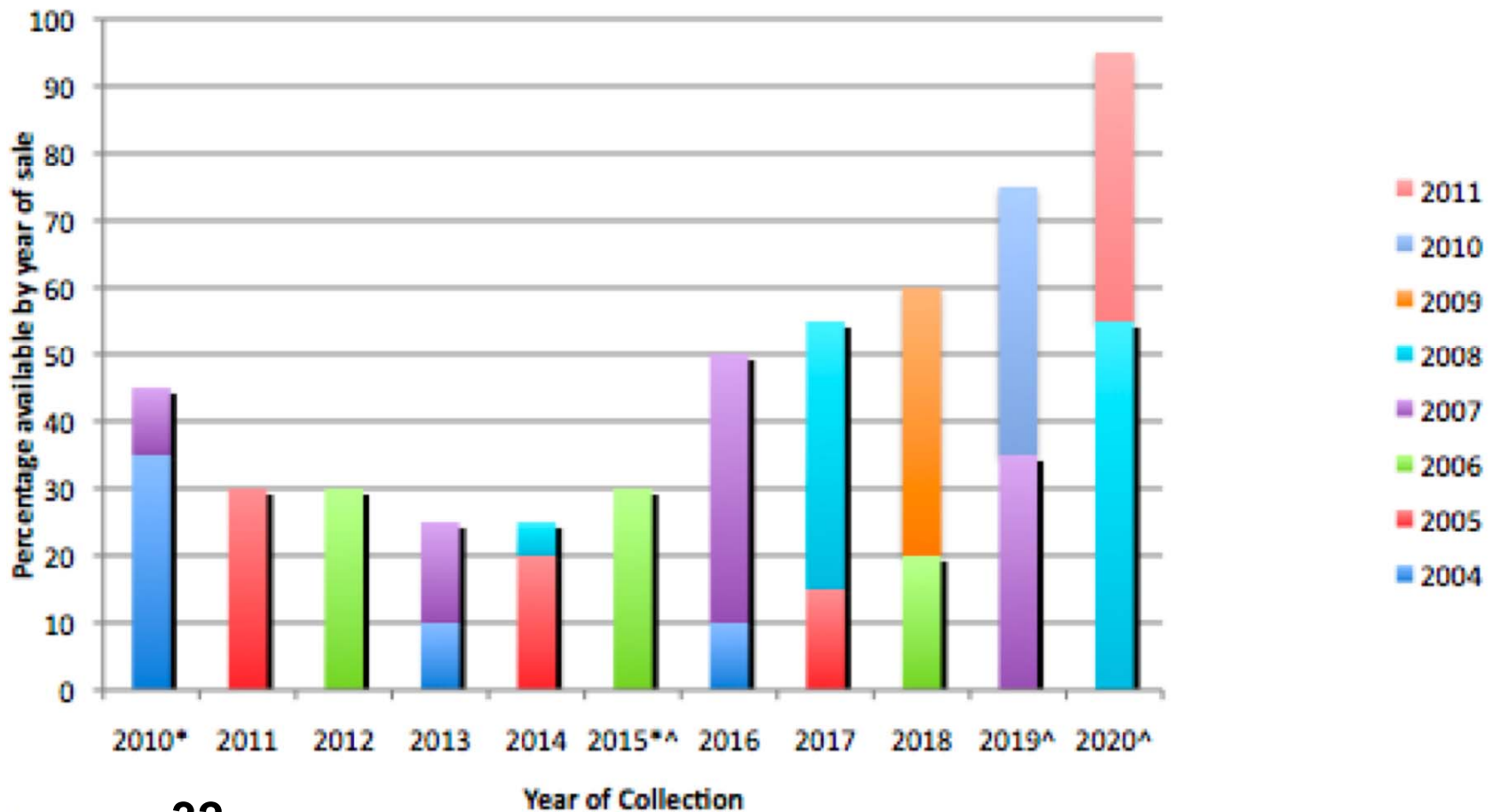
•Source: Stewardship Ontario

## Assumptions

- using lamp 3 hours per day
- using lamp according to manufacturers directions
- model used 3 year increments (3 yr, 6 yr, 9yr, 12 yr)

# Fluorescent light lifespan chart

Percentages Available for Collection by Year of Sale and Lifespan  
Chart Area



# Fluorescent Lights Capture Rate

Year	Year 1	Year 2	Year 3	Year 4	Year 5
Target Capture %	10%	17%	25%	32%	40%

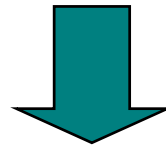
# Manitoba HHW plan development – major steps



Develop program plan



Implement program



Operate program

# Program Elements



- **Administration**
  - revenue/fees
  - compliance reviews
  - steward relations
  
- **Communications**

- **Operations:**
  - collection system
  - transportation
  - processing/recycling
  - auditing/standards
  - risk management

# Admin./finance

- Develop program plan
- Identify & recruit stewards
- Product definitions
- Budgeting and eco fee setting
- Management of member reports, fee remittances
- Compliance reviews
- Annual reports
- Local program coordinator

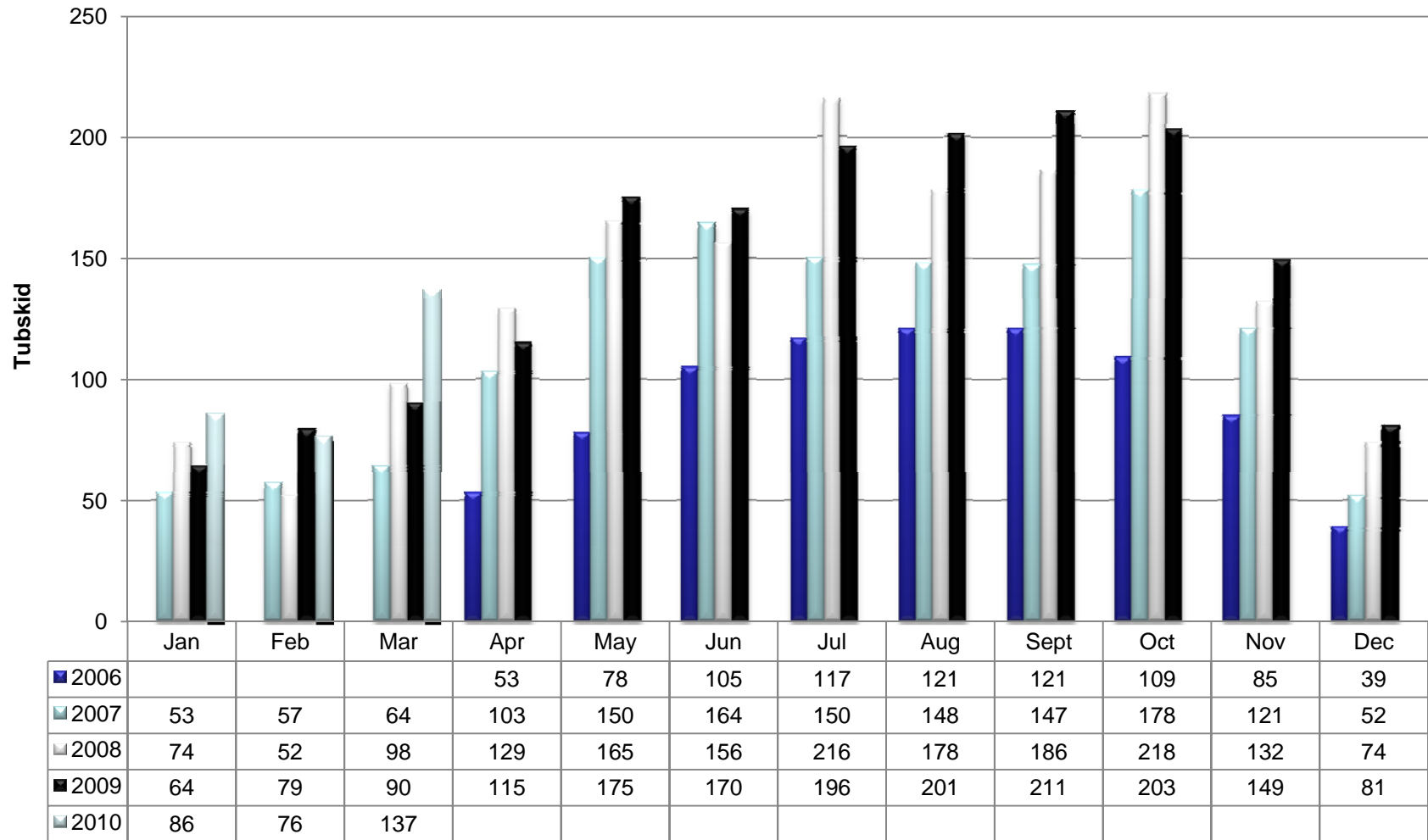
# Collection System



# Collection system

- Green Manitoba current collection system for HHW Roundup
- Infrastructure deficit
- Evaluate permanent collection sites vs collection events
- Possible retailer participation for certain products e.g. lights, paint
- Regulatory requirements for sites
- Collection containers





**Annual volume increases and seasonality,  
Compare: Saskatchewan Paint – tubskids per  
month**

**39**



# Transportation/Consolidation

- Evaluate available management options – dedicated haulers, processor driven, mixed loads, retailer back haul
- Reusable bin system
- Cardboard box system for lights
- Database system used for tracking
- Identify, negotiate and contract with transporters & processors/recyclers
- Transportation of Dangerous Goods Regulation



# • Communications

## • Key messages:

- what is included in program
- how to find collection sites
- buy right amounts
- re-use

## • Delivery options:

- web page
- 800# hotline
- earned and paid media
- municipal mailouts, calendars,
- point of sale material – brochures, stickers on cans
- utilities – MB Hydro
- Yellow Pages



# PCA website



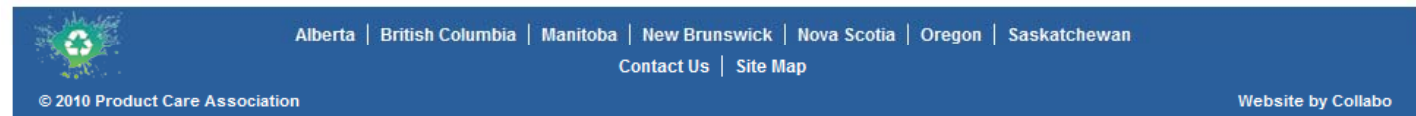
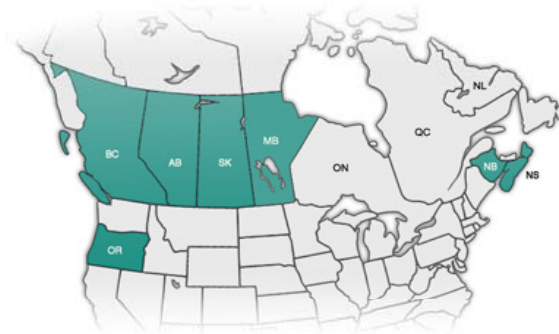
## Welcome To Product Care

Product Care is a not-for-profit industry association that manages product stewardship programs for household hazardous and special waste on behalf of its members across Canada

Product Care's programs help protect the environment by diverting leftover and end of life products from landfills, waterways, and sewers. Product Care provides consumers with a collection system network for the products it manages. The collected products are then reused or recycled where possible.



 Find A Program



# Burnt Out?



Recycle your  
fluorescents



**LightRecycle**

# Processing / Recycling

- evaluate current methods used
- alternatives that are higher on 3Rs hierarchy
- available service providers
- container recycling



# Strategies and Actions

## **Collection Strategies**

- increase collection of available products through a network of accessible, well-run collection sites

## **Awareness**

- To have all consumers of the products aware of the program, where to find depot location information and how to safely handle the product

## **Research & Development**

- improve the program and conduct research and development to achieve this

## **Recovery and Capture Rates**

- improve recovery and capture rates

## View draft plan, submit comments

to view Product Care Manitoba program plan,  
visit: [www.productcare.org/Manitoba](http://www.productcare.org/Manitoba)

to submit comments or for information:

- [belinda@productcare.org](mailto:belinda@productcare.org)
- Telephone: 604-592-2972 x 200
- Toll free: 1-888-772-9772 x 200
- Fax: 604-592-2982

# Thank you

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*Product Care*