

Alberta

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Online Waste Measurement System

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**Government
of Alberta**

Waste Measurement in Alberta: #1 Municipal Solid Waste to Landfills

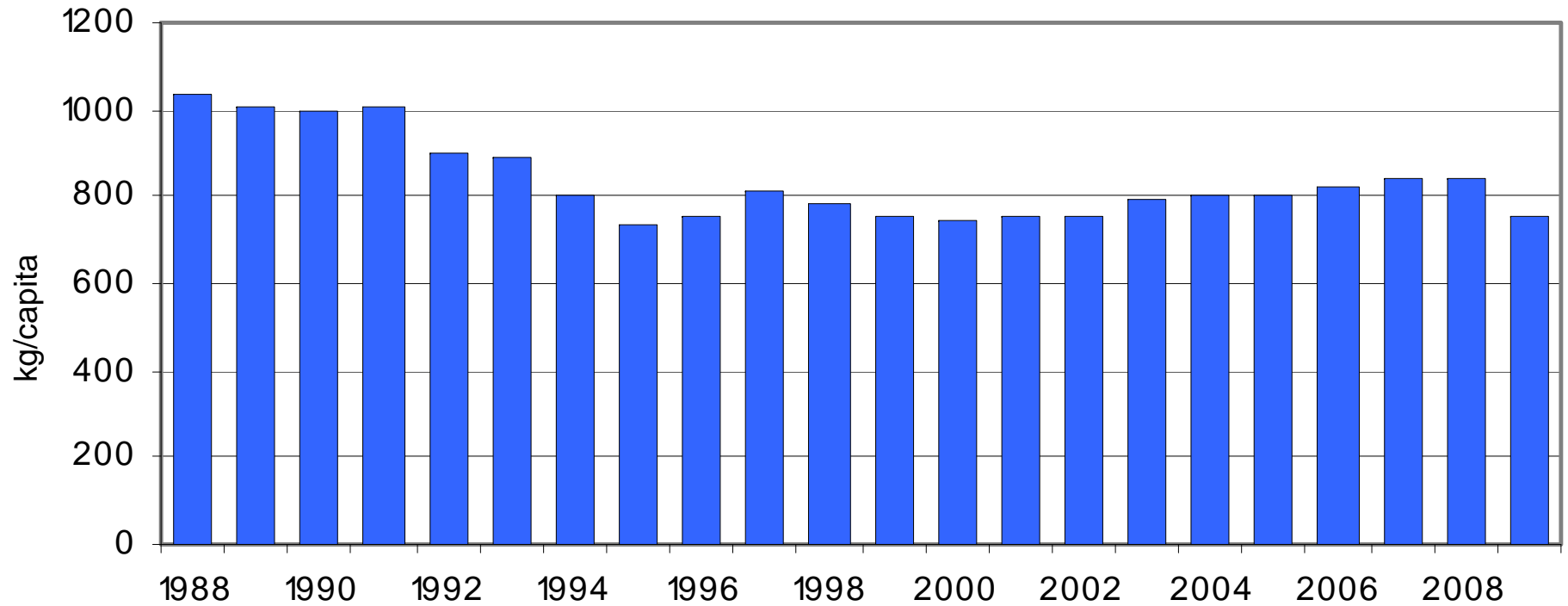
- Voluntary annual survey
- Calculates the annual amount of municipal solid waste disposed in landfills per year (kilograms of waste per capita).
- MSWtL highlights the Ministry's efforts to work with Albertans to encourage waste reduction.
- Reported in the Government of Alberta's annual report.
- The CCME established methods and definitions to measure progress towards a nationwide waste reduction target. Alberta adopted the CCME methods and continues to use the same methodology today.



WASTE DISPOSAL 2009					
Waste Management Organization:		Facility:			
Reporting Period: January to December 2009					
<input checked="" type="checkbox"/> Please provide as detailed a breakdown by materials/source as your records permit; otherwise provide a total as "mixed" in Total Waste Disposed					
MATERIAL CATEGORY (NOT diverted for recycling or composting)	WASTE DISPOSAL METHOD (landfill, transfer station, incinerator)	ORIGINATING IN OWN JURISDICTION			TONNES IMPORTED FROM: Other Jurisdiction within Alberta ** Out-of-Province
		Residential (Tonnes)	ICI* (Tonnes)	CRD** (Tonnes)	
Municipal Solid Waste (MSW) (includes glass, organics, paper, plastic, rubber, textiles, metals, household hazardous)					
Construction / Renovation / Demolition (includes asphalt, concrete, brick/stone, drywall, metal, roofing, timber from CRD activity)					
Municipal Sewage Sludge					
Non-MSW (includes asbestos, ash, lime, sulphur, oilfield extractions, soil, contaminated soil, oil, manure, aggregate, street sweeping)					
Other (specify, if any)					
Total Waste Disposed					
4.0	Completed by (please print):	Position:	Signature:	Date Signed: (dd/mm/yy)	/ /

*ICI - Industrial/Commercial/Institutional, CRD - Construction/Renovation/Demolition
** Please note tonnage for any waste your facility accepts from out-of-province sources

Waste Measurement in Alberta: MSWtL



Source: Alberta Environment, 2009

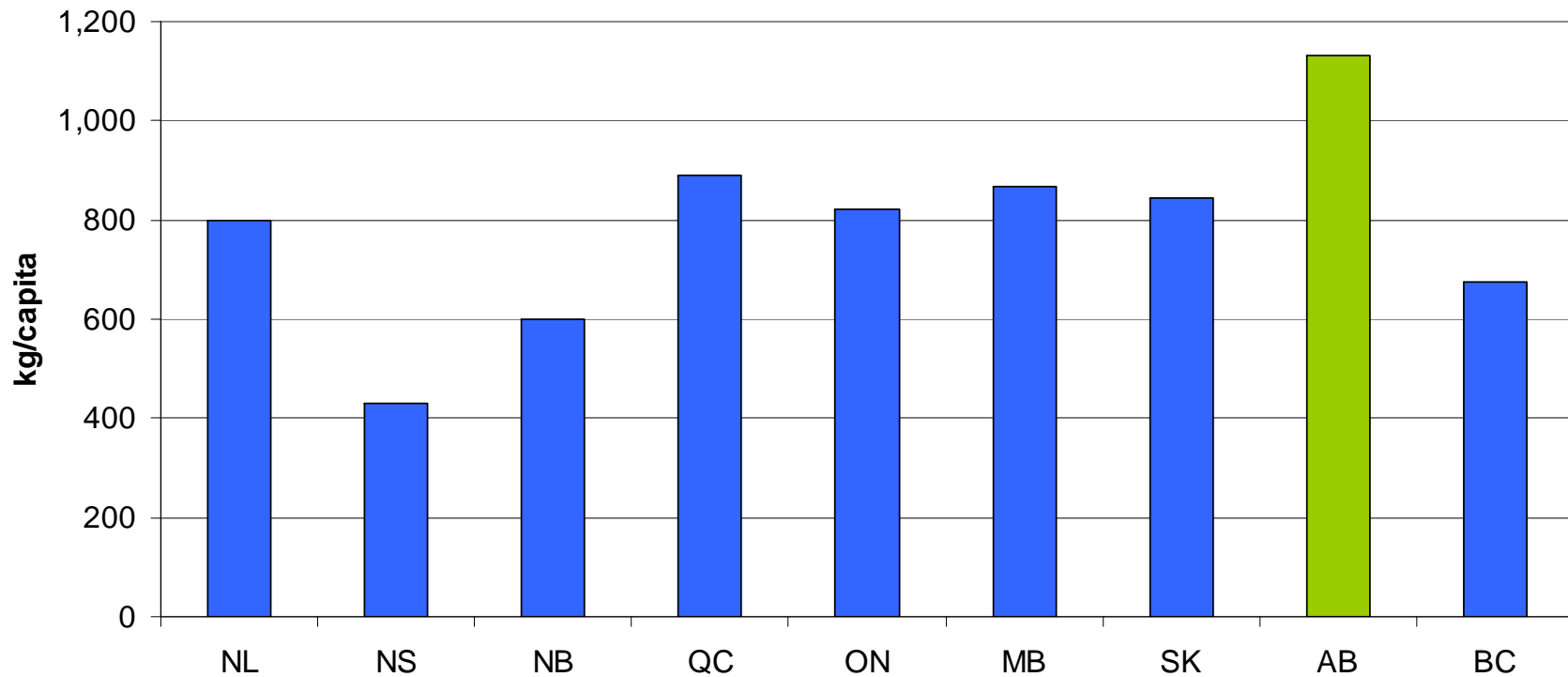
Waste Measurement in Alberta:

#2 Landfill Annual Report

- Landfills are required to gather data on the volume or weight and type of waste received, measured by scale or by estimation, for their annual report by March 31st of the following year.
- The specific categories or types of waste reported are not specified and are at the discretion of the individual completing the annual report.
- No central collection of the data

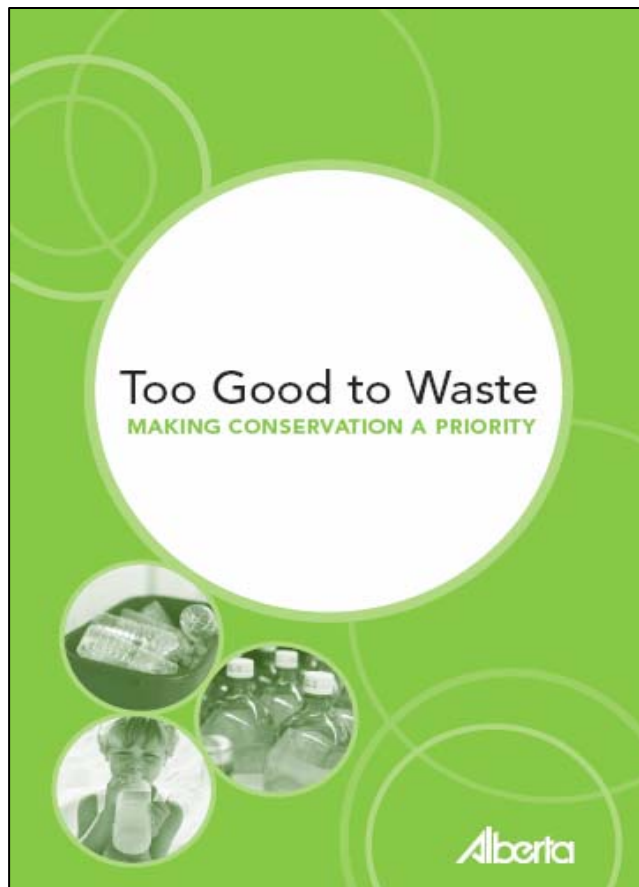
Monitoring			
Parameters	Frequency	Method/ Sample type	Sampling Location
Volume and type of waste received	Continuously (when operating)	Scale data base	Weigh scale
Volume and type of material removed	Continuously (when operating)	Scale data base	Weigh scale

Waste Measurement in Alberta: Statistics Canada



Source: Statistics Canada, 2006

Alberta's Waste Strategy



- Outlines a series of outcomes, actions and strategies to minimize waste and increase resource conservation
- Stewardship figures prominently, particularly for municipal solid waste
- Commitment to incorporate reporting, information collection and evaluation as an integral part of Alberta's resource recovery and waste management system.

System Development

- The system was developed through a consultation process with provincial and municipal representatives and landfill managers.
- Feedback from the first round of consultation in 2006:
 - incorporate the three waste measurement systems currently used in Alberta
 - Accessible, no new software required
 - User friendly
 - Potential to harmonize with other provinces down the road
 - Allows system users to track their own disposal information and generate reports

System Development

- Statistics Canada
 - Consulted with Statistics Canada throughout the development of the online waste measurement system
 - Once the system starts collecting information, Statistics Canada will evaluate the opportunity to partner
- Second round of consultation in 2007 to vet the recommendation of using the Re-TRAC system.

Online Waste Measurement System

Re-TRAC™ - A Recycling and Solid Waste Data Management Tool

[Contact Us](#)



Log in

Please supply your user name and password for access to Re-TRAC™

Username:

Password:

Log me in automatically each time I connect to Re-TRAC™

[Forgot Password](#)

Login

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Re-TRAC System Features

- Accessible from any computer with internet access
- Secure information. Each user is provided with a user name and a password and can only see their landfill's data
- Harmonized with Statistics Canada's survey, MSWtL and a landfills annual report requirements
- Ability to manage data and generate reports
- User-friendly, only the fields that need to be completed are shown

Materials Management Report - 2009

Remember to click the **Submit** button located at the bottom of the page after entering data or your changes will be lost.

A * indicates a required field

Waste Management Services

Who are you responding for?

1.1 List all municipalities, cities, villages, towns and townships for which this jurisdiction provides waste management services. Please indicate, by checking the appropriate box, for each service this jurisdiction provides to the municipality specified.

	City / Municipality	Collection	Disposal / Processing	Recycling / organic material processing	Waste management planning / administration	
# 1	Select <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Remove"/>
	<input type="button" value="Add New"/>					

Waste Diversion: Organic Material Processing and Recycling

Organic Material Processing (composting, anaerobic digestion)

2.1 In 2009, did this company own and/or operate a facility where organic materials were processed? Please include landfills or sites where organic materials were composted.

Yes No

Recycling

3.1 In 2009, did this company own and/or operate a material recycling facility (MRF), recycling centre or drop-off depot (municipally or privately owned) where materials were prepared/collected for recycling?

Yes No

Waste (Garbage) Disposal or Processing

4.1 Did this company own and/or operate a facility where waste was disposed/processed in 2009? *Include all types of landfills (e.g., sanitary, stabilized, bioreactor), incineration/thermal treatment (e.g., energy from waste, gasification) and residual waste processing (e.g., conversion of non-recyclable waste to an alternative fuel source).*

Yes No

Waste (Garbage) Disposal or Processing

4.1 Did this company own and/or operate a facility where waste was disposed/processed in 2009? *Include all types of landfills (e.g., sanitary, stabilized, bioreactor), incineration/thermal treatment (e.g., energy from waste, gasification) and residual waste processing (e.g., conversion of non-recyclable waste to an alternative fuel source).*

Yes No

	Name and Owner of Facility	Type of facility	Approximate percentage of total waste disposed/processed, by source			Weigh scale present?	Quantity of waste disposed/processed in the facility in 2008	Tonnes	
			Residential (%)	Non-residential (IC&I) (%)	Construction and Demolition (C&D) (%)				
# 1	Name: <input type="text"/> Owner: <input type="text"/>	Landfill <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/> Tonnes <input type="button" value="v"/>	<input type="text"/>	<input type="button" value="Remove"/>
Total Tonnes:								<input type="text"/>	
<input type="button" value="Add New"/>									

4.2 Please fill in the table below specifying if the landfill(s) reported in question 4.1 received any of the following materials, the quantity received, unit of measure and whether it was included in your response to 4.1 (quantity of waste disposed in landfill).

Type of Material	Received at your landfill?	Quantity	Units	Tonnes	Included in 4.1?
Bottom ash from sewage sludge or solid waste incineration	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No
Contaminated soil	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No
Clean fill	<input type="radio"/> Yes <input type="radio"/> No	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No
Total Disposal Tonnes:				<input type="text"/>	

Recycling

3.1 In 2009, did this company own and/or operate a material recycling facility (MRF), recycling centre or drop-off depot (municipally or privately owned) where materials were prepared/collected for recycling?

Yes No

	Name and Owner of Facility	Source of materials (percentage)			Totals should equal 100%	Material disposed as processing residue (e.g., contaminated materials)(%)	
		Residential (%)	Non-residential (IC&I) (%)	Construction and Demolition (C&D) (%)			
#1	Name: <input type="text"/> Owner: <input type="text"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="button" value="Remove"/>
	Average	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>	
	<input type="button" value="Add New"/>						

3.2 Please indicate the quantities of materials marketed from the facilities indicated in question 3.1. Only count quantities once. *Exclude organic materials reported in 3.1.*

Type of Material	Quantity of Recycling Materials		Total in Tonnes
Newsprint, phone books, magazines	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Corrugated cardboard	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Mixed paper fibre and boxboard	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Glass	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Ferrous metals (including ferrous scrap metal)	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
White goods	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Aluminum	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Copper	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Mixed metal (ferrous and non-ferrous)	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Plastic - PET (1)	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Plastic - HDPE (2)	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
All other plastic (3-7)	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Mixed plastics	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
C&D materials (excluding asphalt, concrete, rubble and land clearing debris)	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
Other (please specify): <input type="text"/>	<input type="text"/>	Tonnes <input type="button" value="v"/>	<input type="text"/>
	Total Recycling Tonnes:		<input type="text"/>

Data Input

- Once operational, data will need to be entered into the system by March 31 of the following year.
- After that time it will be locked down for auditing purposes.
 - Auditing will most likely involve the current MSWtL auditing protocols (looking at year over year variation in volumes of waste disposed)
 - Any changes required after that date will require contacting Alberta Environment.

Reports

1. Material Management Report
 - A print out once the survey has been completed. Information can be transferred to the Statistics Canada survey.
2. Alberta Environment's annual report
 - Print out and submit with your facility's annual report. Will fulfill the reporting requirements under the approval/registration.
3. Standard Re-Trac Report
4. Environment Benefits Report

Alberta Environment will report on the provincial waste disposal total through the department's website and annual report.

Phased Launch

- Voluntary reporting for 2010
 - Starting with the MSWtL survey
 - Any landfill managers that are interested in using the system will be able to access it
 - Will be looking for feedback to make system changes where required
- In order for reporting to be mandatory:
 - Amendments to the Waste Control Regulation must be approved by the Legislative Assembly. Currently scheduled for 2012.

Next Steps?

- Roll out of the new system:
 - Process still to be determined.
 - Workshops
 - Provide system access and the user guide
 - Alternate options...

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