

WASTE MANAGEMENT

SNAPSHOT
MEDIANS
FOR 2015



**0.90 TONNES
PER HOUSEHOLD
of residential waste
is collected**

fig. SWST205 (SERVICE LEVEL)

**0.41 TONNES
PER HOUSEHOLD
of residential waste
is diverted**

fig. SWST235 (SERVICE LEVEL)



ONE TONNE OF DIVERTED GARBAGE COSTS = \$208

fig. SWST330T (EFFICIENCY)

KEEP IN MIND:

Influencing Factors

Influencing factors can create variances in comparison data from year-to-year and from municipality-to-municipality.



Diversion Efforts

Nature and extent of municipality's diversion efforts



Education

How municipalities educate citizens through services and programs



Geography

Service provisions are impacted by various population types



Government Structure

Single-tier vs. upper-tier municipalities



Infrastructure

Accessibility and distance to transfer stations and landfills



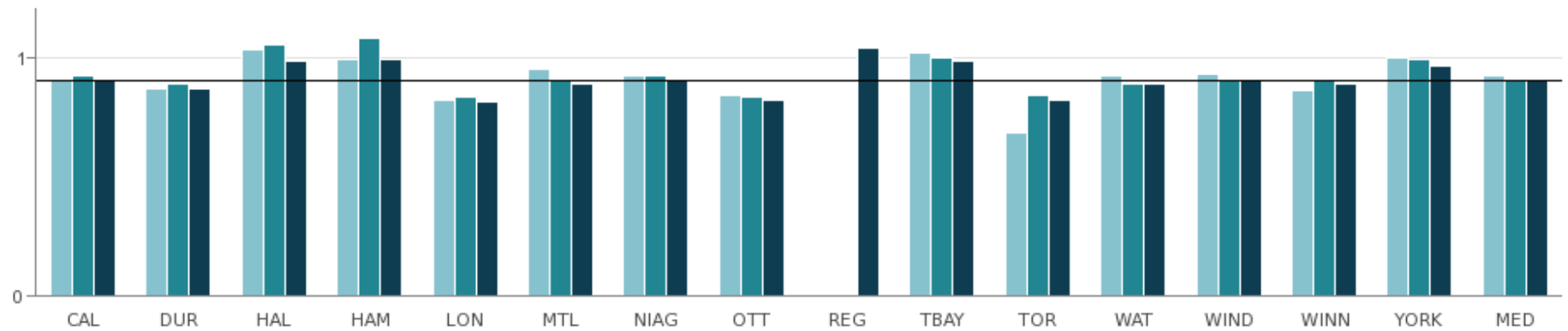
Organizational Form

Different service levels and standards

For a full description of influencing factors, please go to: www.mbncanada.ca

Fig. 34.1 Tonnes of All Residential Material Collected per Household

The measure includes organics, blue box, leaf and yard, municipal hazardous or special waste, other recyclable materials such as wood, metal and tires, as well as construction and demolition materials.

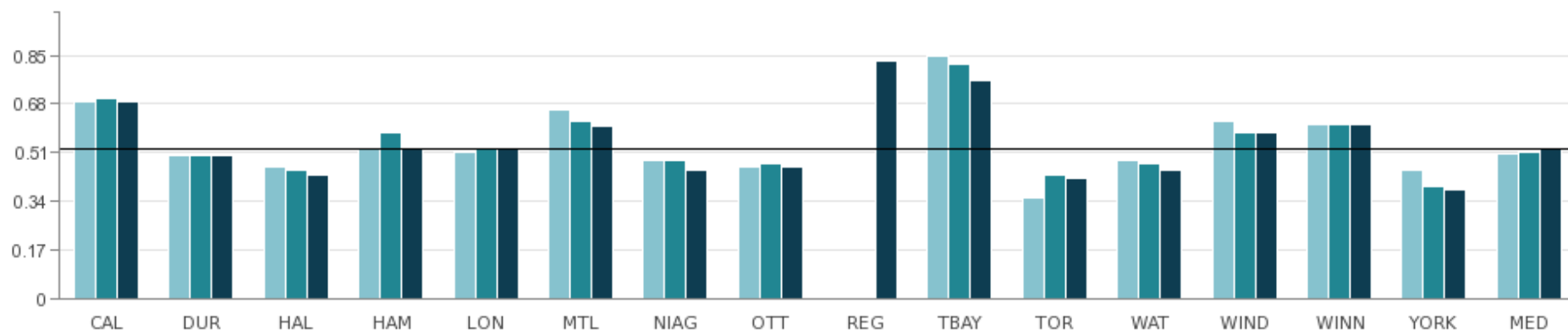


2013	0.91	0.87	1.03	0.99	0.82	0.95	0.92	0.84	N/A	1.02	0.68	0.92	0.93	0.86	1.00	0.92
2014	0.92	0.89	1.05	1.08	0.83	0.90	0.92	0.83	N/A	1.00	0.84	0.89	0.90	0.90	0.99	0.90
2015	0.91	0.87	0.98	0.99	0.81	0.89	0.90	0.82	1.04	0.98	0.82	0.89	0.90	0.89	0.96	0.90

Source: SWST205 (Service Level)

Fig. 34.2 Tonnes of Residential Solid Waste Disposed per Household

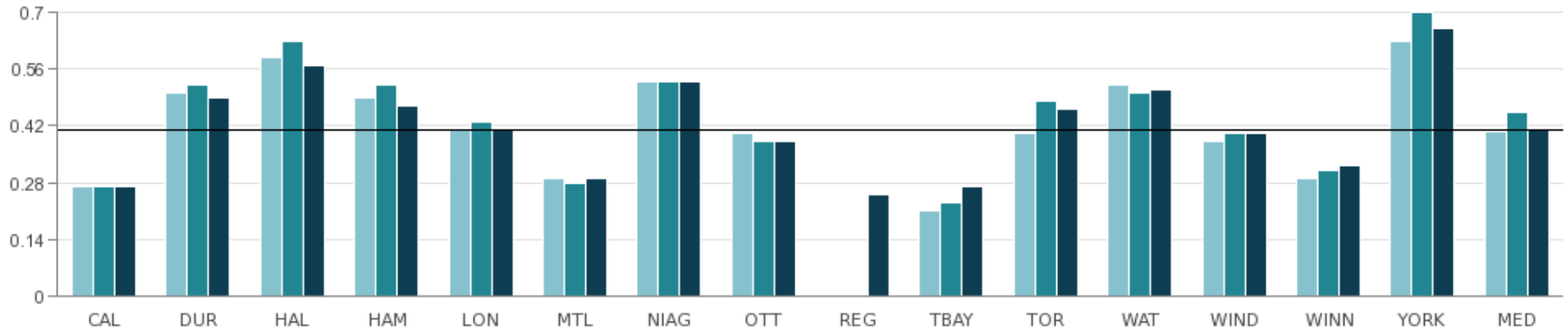
Given the life expectancy of several landfills and the number of diversion programs and services in place, there is still a high volume of waste going to landfills.



2013	0.69	0.50	0.46	0.53	0.51	0.66	0.48	0.46	N/A	0.85	0.35	0.48	0.62	0.61	0.45	0.51
2014	0.70	0.50	0.45	0.58	0.52	0.62	0.48	0.47	N/A	0.82	0.43	0.47	0.58	0.61	0.39	0.51
2015	0.69	0.50	0.43	0.53	0.52	0.60	0.45	0.46	0.83	0.76	0.42	0.45	0.58	0.61	0.38	0.52

Source: SWST220 (Service Level)

Fig. 34.3 Tonnes of Residential Solid Waste Diverted per Household

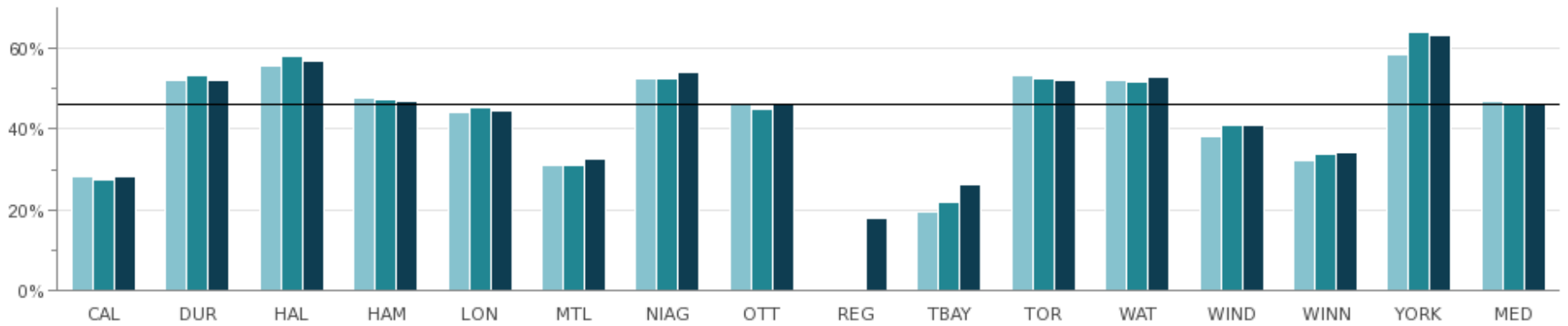


2013	0.27	0.50	0.59	0.49	0.41	0.29	0.53	0.40	N/A	0.21	0.40	0.52	0.38	0.29	0.63	0.41
2014	0.27	0.52	0.63	0.52	0.43	0.28	0.53	0.38	N/A	0.23	0.48	0.50	0.40	0.31	0.70	0.46
2015	0.27	0.49	0.57	0.47	0.41	0.29	0.53	0.38	0.25	0.27	0.46	0.51	0.40	0.32	0.66	0.41

Source: SWST235 (Service Level)

Fig. 34.4 Percent of Residential Solid Waste Diverted

The measure demonstrates the percent of residential waste diverted away from landfills and incineration through programs such as organics, blue box, leaf and yard, municipal hazardous or special waste and other recyclable materials, e.g. wood, metal, tires.

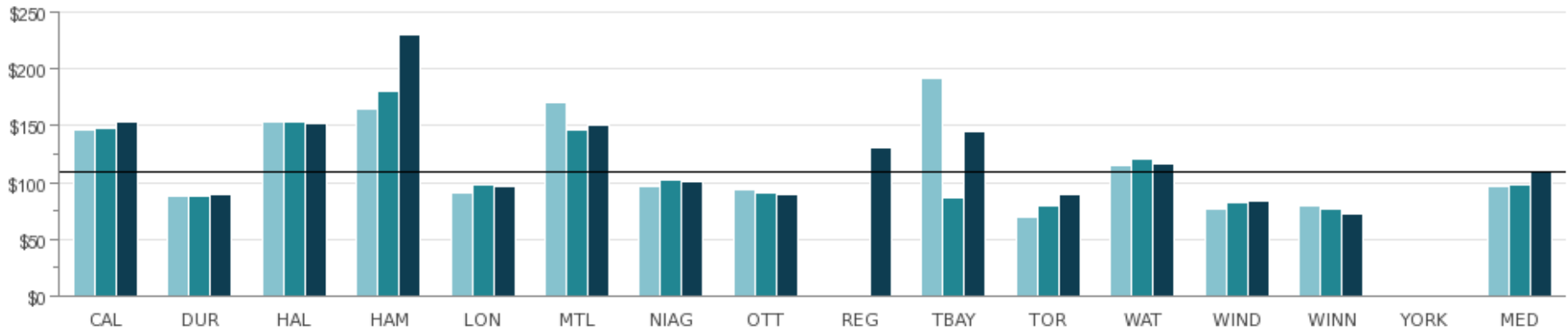


2013	28.2%	52.3%	55.8%	47.8%	44.1%	31.0%	52.5%	46.4%	N/A	19.5%	53.3%	52.3%	38.3%	32.0%	58.4%	47.1%
2014	27.5%	53.2%	58.2%	47.3%	45.4%	30.9%	52.4%	45.0%	N/A	21.8%	52.7%	51.7%	41.1%	33.6%	64.2%	46.4%
2015	28.3%	52.0%	56.9%	47.1%	44.5%	32.5%	54.3%	46.2%	17.8%	26.1%	52.3%	53.0%	40.9%	34.3%	63.5%	46.2%

Source: SWST105M (Community Impact)

Fig. 34.5 Total Cost for Garbage Collection per Tonne - All Property Classes

All Property Classes includes residential and ICI (Industrial, Commercial and Institutional) locations.



2013	\$147	\$88	\$153	\$165	\$91	\$170	\$97	\$93	N/A	\$192	\$69	\$115	\$77	\$80	N/A	\$97
2014	\$148	\$88	\$153	\$180	\$98	\$147	\$102	\$91	N/A	\$87	\$79	\$120	\$82	\$76	N/A	\$98
2015	\$153	\$90	\$152	\$230	\$96	\$150	\$101	\$90	\$130	\$145	\$89	\$117	\$84	\$72	N/A	\$109

Source: SWST311T (Efficiency)

Comments:

York Region operates a two-tier system, which means they are not responsible for curbside collection; however they are responsible for all processing. Therefore, York is able to report the total tonnes collected (see Fig 34.1 – SWST205); but not able to report the total cost.

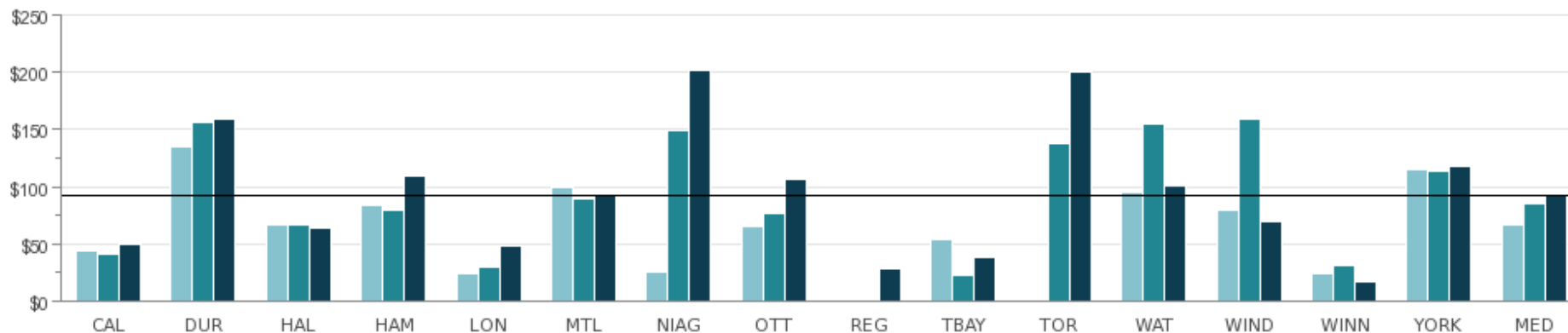
The City of Thunder Bay collected less waste at the curb, while cost remained relatively the same which resulted in an increased cost per tonne.

Fig. 34.6 Total Cost for Solid Waste (All Streams) Disposal per Tonne - All Property Classes

All Property Classes includes residential and ICI (Industrial, Commercial and Institutional) locations.

Other impacts such as additional costs of transporting waste outside a community, aging infrastructure, capital costs, and the cost associated with the incineration of garbage, service agreements, increase in leachate treatment and fluctuating fuel costs can impact the results. In addition, declining landfill capacities typically result in increased landfill rates.

The results can be impacted significantly due to the recording of post-closure landfill liability costs.



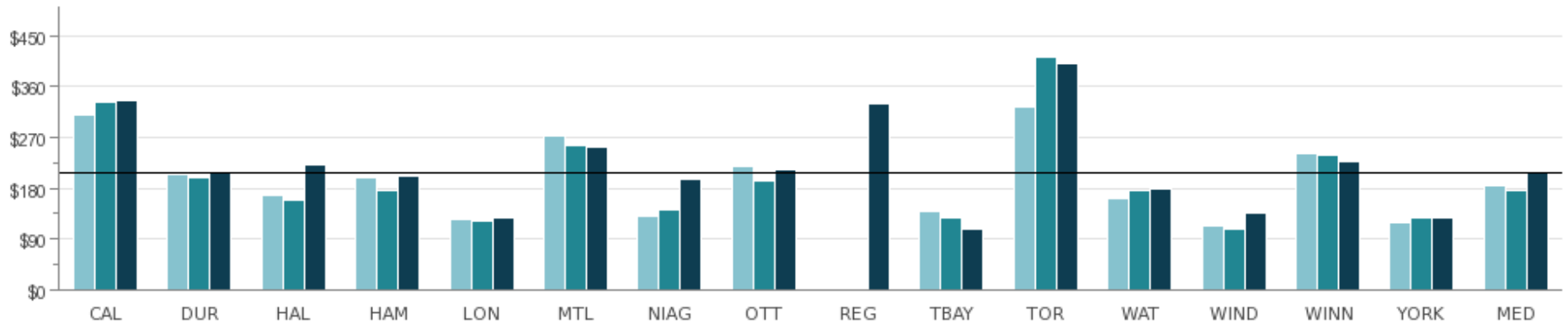
2013	\$44	\$135	\$66	\$83	\$24	\$99	\$25	\$65	N/A	\$54	N/A	\$95	\$80	\$24	\$115	\$66
2014	\$41	\$157	\$66	\$79	\$30	\$90	\$149	\$76	N/A	\$23	\$138	\$155	\$159	\$31	\$114	\$85
2015	\$50	\$159	\$63	\$109	\$48	\$92	\$202	\$107	\$28	\$38	\$200	\$101	\$70	\$17	\$118	\$92

Source: SWST325T (Efficiency)

Comment: The City of Toronto used a new cost methodology for 2014 and 2015; and results for 2013 are currently under review.

Fig. 34.7 Total Cost for Solid Waste Diversion per Tonne - All Property Classes

“All Property Classes” includes residential and ICI (Industrial, Commercial and Institutional) locations.



2013	\$309	\$205	\$167	\$199	\$124	\$273	\$131	\$218	N/A	\$138	\$325	\$162	\$113	\$240	\$119	\$183
2014	\$332	\$199	\$159	\$175	\$123	\$257	\$142	\$194	N/A	\$126	\$413	\$175	\$108	\$238	\$128	\$175
2015	\$335	\$208	\$221	\$202	\$126	\$254	\$196	\$214	\$330	\$106	\$401	\$179	\$137	\$227	\$126	\$208

Source: SWST330T (Efficiency)