

WASTE MANAGEMENT

SNAPSHOT
MEDIANS
FOR 2017



0.88 TONNES
of residential waste
collected per household

SWST205 (SERVICE LEVEL)

0.44 TONNES
of residential waste
diverted per household

SWST235 (SERVICE LEVEL)



ONE TONNE OF **DIVERTED** GARBAGE COSTS = **\$208**

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



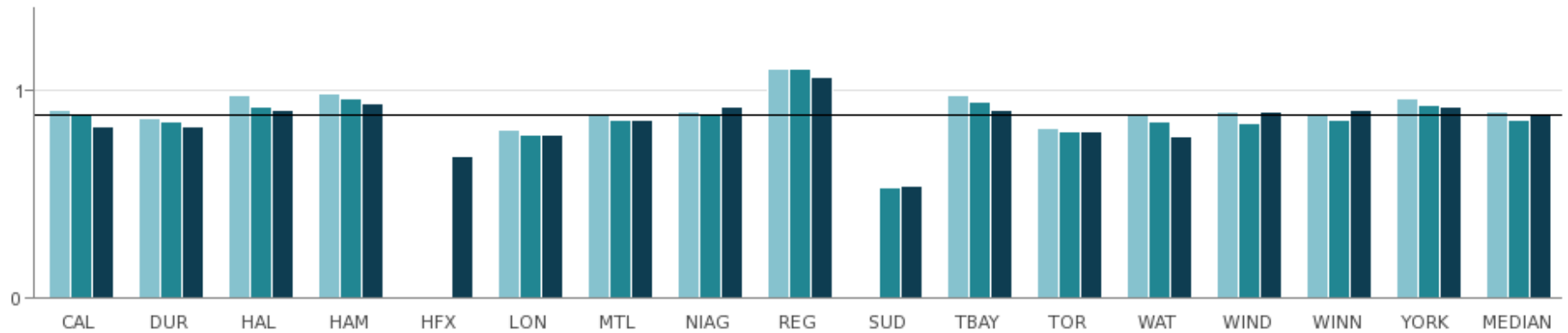
Organizational Form

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

Residential waste 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.

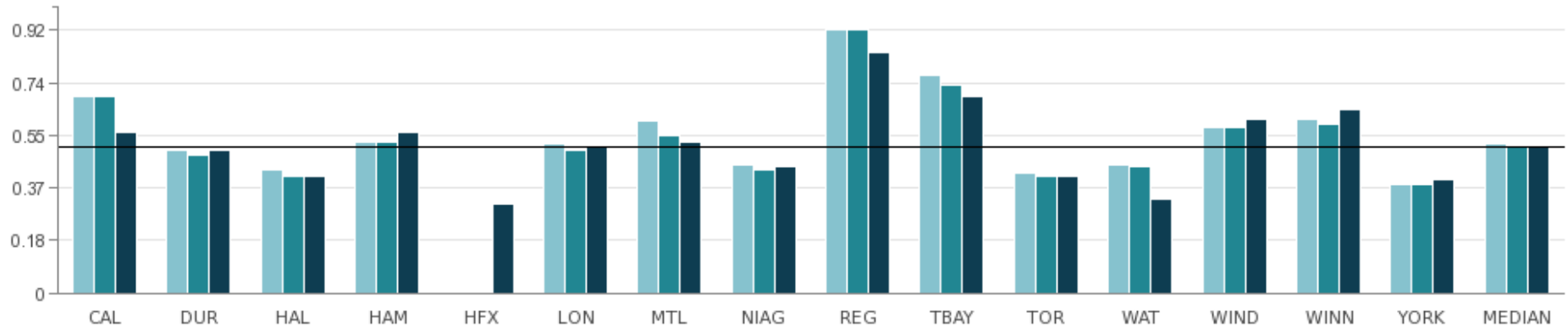


2015	0.91	0.87	0.98	0.99	N/A	0.81	0.89	0.90	1.11	N/A	0.98	0.82	0.89	0.90	0.89	0.96	0.90
2016	0.89	0.85	0.92	0.96	N/A	0.79	0.86	0.88	1.11	0.53	0.95	0.80	0.85	0.84	0.86	0.93	0.86
2017	0.83	0.83	0.91	0.94	0.68	0.79	0.86	0.92	1.07	0.54	0.91	0.80	0.78	0.90	0.91	0.92	0.88

Source: SWST205 (Service Level)

Fig. 34.2 Tonnes of Residential Solid Waste Disposed per Household

This measure indicates the amount of solid waste (or garbage) that is sent to landfills.



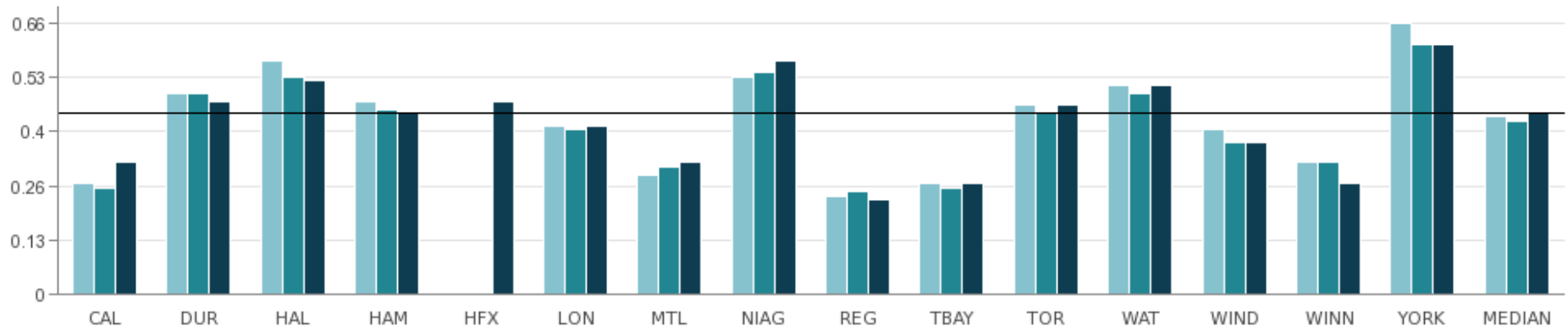
2015	0.69	0.50	0.43	0.53	N/A	0.52	0.60	0.45	0.92	0.76	0.42	0.45	0.58	0.61	0.38	0.53
2016	0.69	0.48	0.41	0.53	N/A	0.50	0.55	0.43	0.92	0.73	0.41	0.44	0.58	0.59	0.38	0.52
2017	0.56	0.50	0.41	0.56	0.31	0.51	0.53	0.44	0.84	0.69	0.41	0.33	0.61	0.64	0.40	0.51

Source: SWST220 (Service Level)

Sudbury: Does not report - unable to separate residential tonnage.

Fig. 34.3 Tonnes of Residential Solid Waste Diverted per Household

This measure demonstrates the tonnes 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.



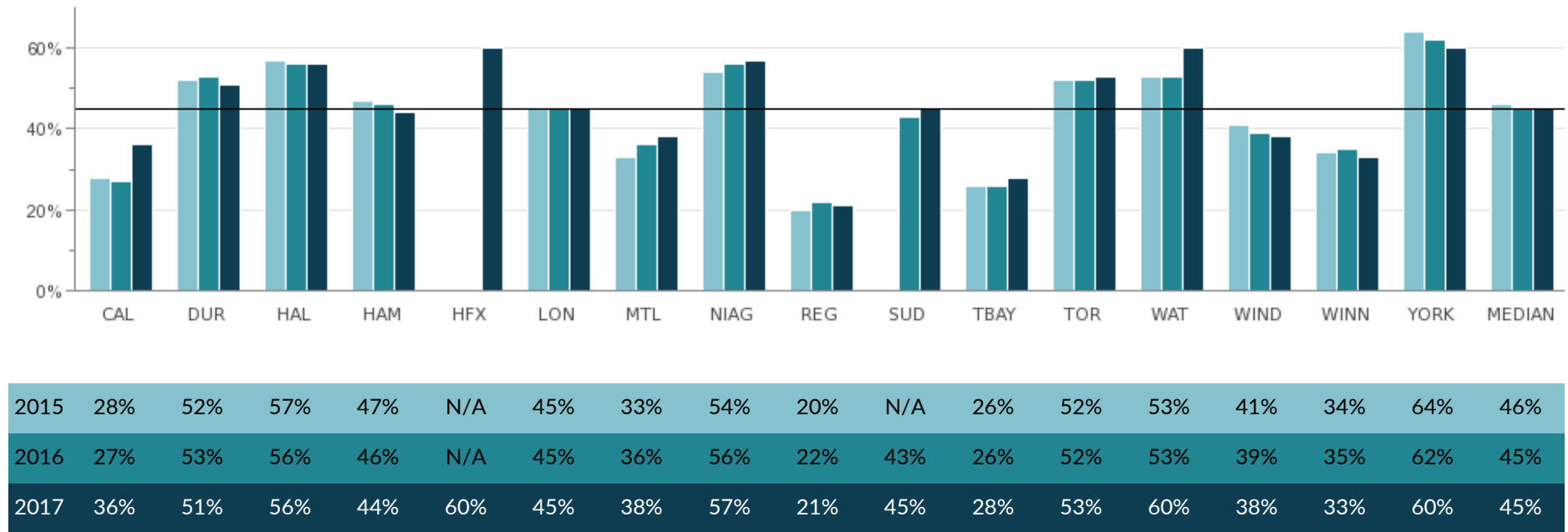
2015	0.27	0.49	0.57	0.47	N/A	0.41	0.29	0.53	0.24	0.27	0.46	0.51	0.40	0.32	0.66	0.44
2016	0.26	0.49	0.53	0.45	N/A	0.40	0.31	0.54	0.25	0.26	0.44	0.49	0.37	0.32	0.61	0.42
2017	0.32	0.47	0.52	0.44	0.47	0.41	0.32	0.57	0.23	0.27	0.46	0.51	0.37	0.27	0.61	0.44

Source: SWST235 (Service Level)

Sudbury: Do not report - unable to separate residential tonnage.

Fig. 34.4 Percent of Residential Solid Waste Diverted

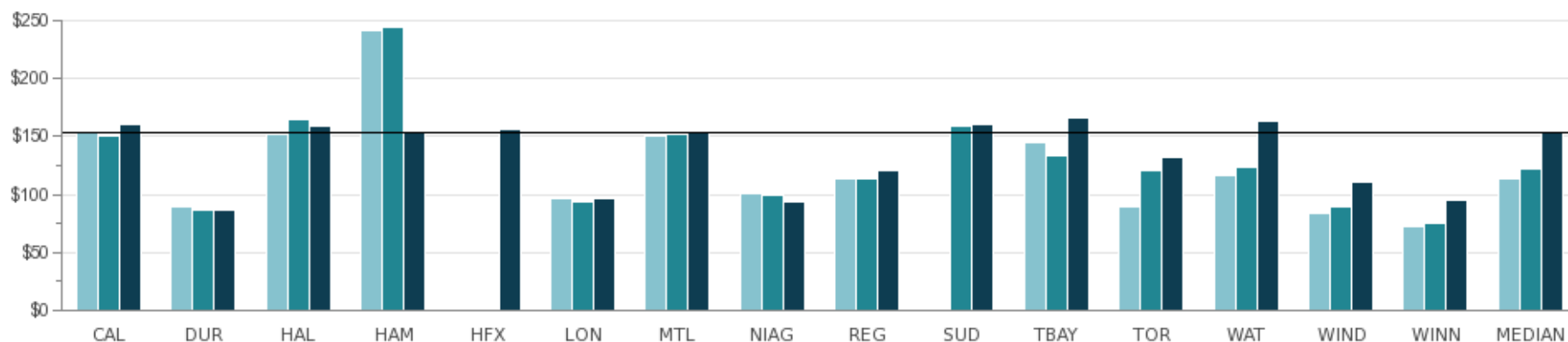
This measure demonstrates the percent of residential waste diverted away from landfills and incineration through programs such as organics, blue box, leaf and yard, municipal hazardous or special waste and other recyclable materials, e.g. wood, metal, tires.



Source: SWST105M (Community Impact)

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

This measure reflects the total cost for garbage collection for all property classes which includes residential, and industrial, commercial and institutional (ICI) locations on a per tonne basis.



2015	\$153	\$90	\$152	\$242	N/A	\$96	\$150	\$101	\$113	N/A	\$145	\$89	\$117	\$84	\$72	\$113
2016	\$151	\$87	\$165	\$245	N/A	\$94	\$152	\$99	\$113	\$159	\$133	\$121	\$124	\$90	\$75	\$123
2017	\$160	\$86	\$159	\$154	\$156	\$96	\$153	\$94	\$120	\$160	\$167	\$132	\$164	\$111	\$95	\$153

Source: SWST311T (Efficiency)

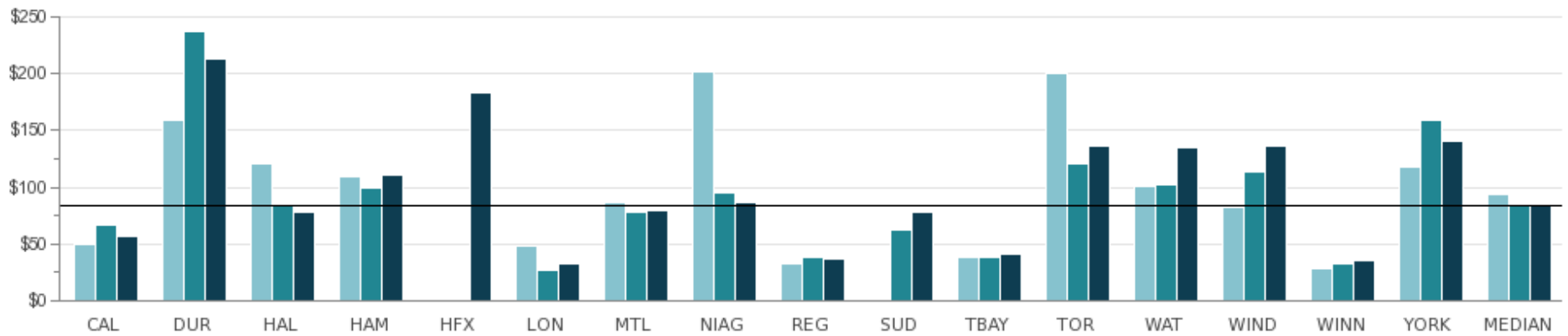
Hamilton: The decrease is due to the reallocation of costs for the City’s recycling collection contract.

Windsor: Cost increase due to a storm that caused catastrophic flooding in the city.

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

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

This measure reflects the total cost for solid waste disposal for all Property Classes which includes residential, and industrial, commercial and institutional (ICI) locations on a per tonne basis. 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.



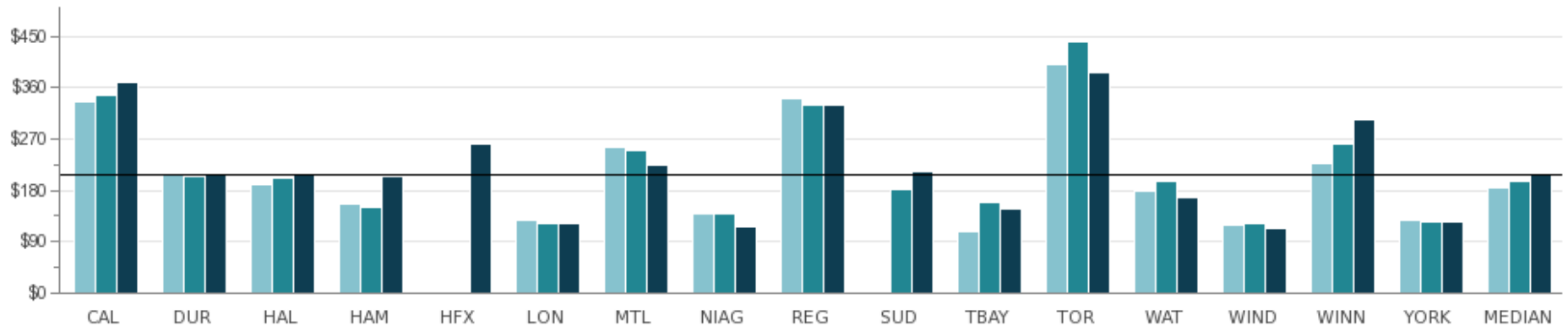
2015	\$50	\$159	\$120	\$109	N/A	\$48	\$87	\$202	\$32	N/A	\$38	\$200	\$101	\$82	\$28	\$118	\$94
2016	\$66	\$237	\$83	\$99	N/A	\$27	\$78	\$95	\$38	\$62	\$38	\$120	\$102	\$114	\$32	\$159	\$83
2017	\$56	\$213	\$78	\$111	\$183	\$33	\$80	\$87	\$36	\$78	\$41	\$137	\$135	\$137	\$35	\$141	\$84

Source: SWST325T (Efficiency)

Durham and York: The increases between 2015 and 2016 are due to the first full year of operations for the Durham York Energy Centre.

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

This measure reflects the total cost for solid waste diversion for all Property Classes which includes residential and industrial, commercial and institutional (ICI) locations, on a per tonne basis.



2015	\$335	\$208	\$191	\$156	N/A	\$126	\$255	\$138	\$340	N/A	\$106	\$401	\$179	\$120	\$227	\$126	\$185
2016	\$346	\$205	\$201	\$151	N/A	\$123	\$249	\$138	\$331	\$181	\$159	\$442	\$195	\$123	\$260	\$125	\$195
2017	\$370	\$207	\$208	\$204	\$262	\$122	\$224	\$116	\$329	\$212	\$147	\$388	\$166	\$114	\$303	\$125	\$208

Source: SWST330T (Efficiency)

Calgary: The Green Cart Program was introduced in 2017. One-time program implementation costs were included in the 2017 results.

Hamilton: The increase is due to the reallocation of costs for the City's recycling collection contract.