

WASTE MANAGEMENT



VALUE PROPOSITION

I need my waste collected in a reliable manner and as scheduled. I expect my waste to be managed in an environmentally sustainable way and that any issues are addressed in a timely manner.

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

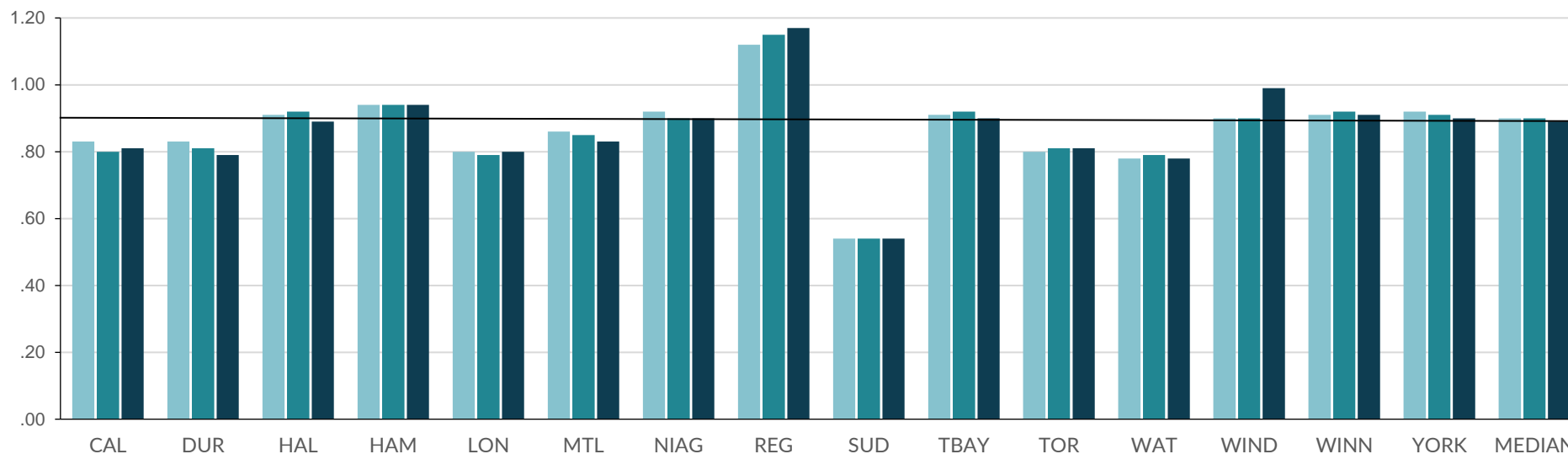
Different service levels and standards

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

Waste Management

Figure 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.



2017	0.83	0.83	0.91	0.94	0.80	0.86	0.92	1.12	0.54	0.91	0.80	0.78	0.90	0.91	0.92	0.90
2018	0.80	0.81	0.92	0.94	0.79	0.85	0.90	1.15	0.54	0.92	0.81	0.79	0.90	0.92	0.91	0.90
2019	0.81	0.79	0.89	0.94	0.80	0.83	0.90	1.17	0.54	0.90	0.81	0.78	0.99	0.91	0.90	0.89

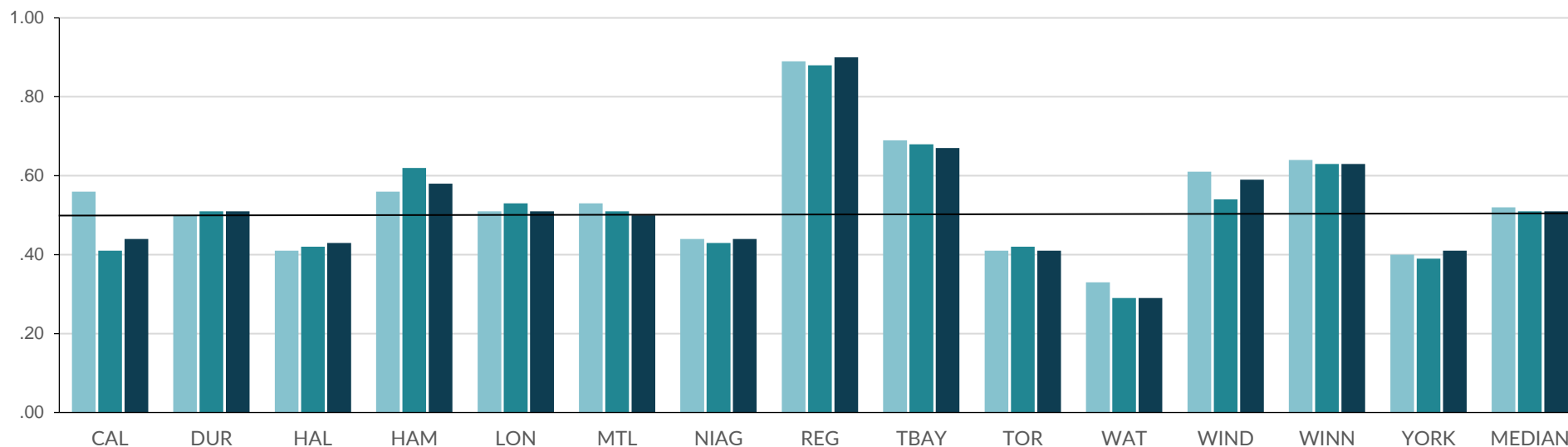
Source: SWST205 (Service Level)

Windsor: An increase in bulk collection frequency as well as waste tonnage from local construction projects contributed to the 2019 increase.

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Figure 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.



2017	0.56	0.50	0.41	0.56	0.51	0.53	0.44	0.89	0.69	0.41	0.33	0.61	0.64	0.40	0.52
2018	0.41	0.51	0.42	0.62	0.53	0.51	0.43	0.88	0.68	0.42	0.29	0.54	0.63	0.39	0.51
2019	0.44	0.51	0.43	0.58	0.51	0.50	0.44	0.90	0.67	0.41	0.29	0.59	0.63	0.41	0.51

Source: SWST220 (Service Level)

Hamilton: The increase in 2018 was primarily due to the temporary shutdown of the Central Composting Facility.

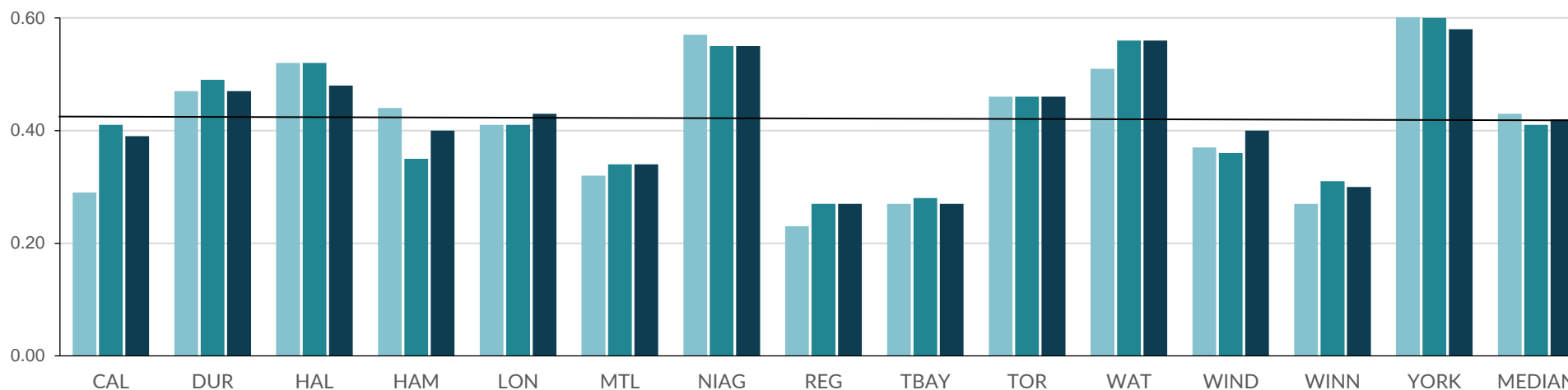
Sudbury: Does not report - unable to separate residential tonnage.

Windsor: 2017 results are high due to a catastrophic flooding that occurred in 2017. Additionally, 2019 saw an increase in bulk collection frequency as well as an increase in waste tonnage from local construction projects.

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Figure 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.



	CAL	DUR	HAL	HAM	LON	MTL	NIAG	REG	TBAY	TOR	WAT	WIND	WINN	YORK	MEDIAN
2017	0.29	0.47	0.52	0.44	0.41	0.32	0.57	0.23	0.27	0.46	0.51	0.37	0.27	0.61	0.43
2018	0.41	0.49	0.52	0.35	0.41	0.34	0.55	0.27	0.28	0.46	0.56	0.36	0.31	0.60	0.41
2019	0.39	0.47	0.48	0.40	0.43	0.34	0.55	0.27	0.27	0.46	0.56	0.40	0.30	0.58	0.42

Source: SWST235 (Service Level)

Calgary: The large increase in diversion in 2018 was due to the implementation of the Green Cart Program and change to every other week garbage collection, which was completed in the second half of 2017. 2018 was the first full year of program results.

Hamilton: The decrease in 2018 was primarily due to the temporary shutdown of the Central Composting Facility.

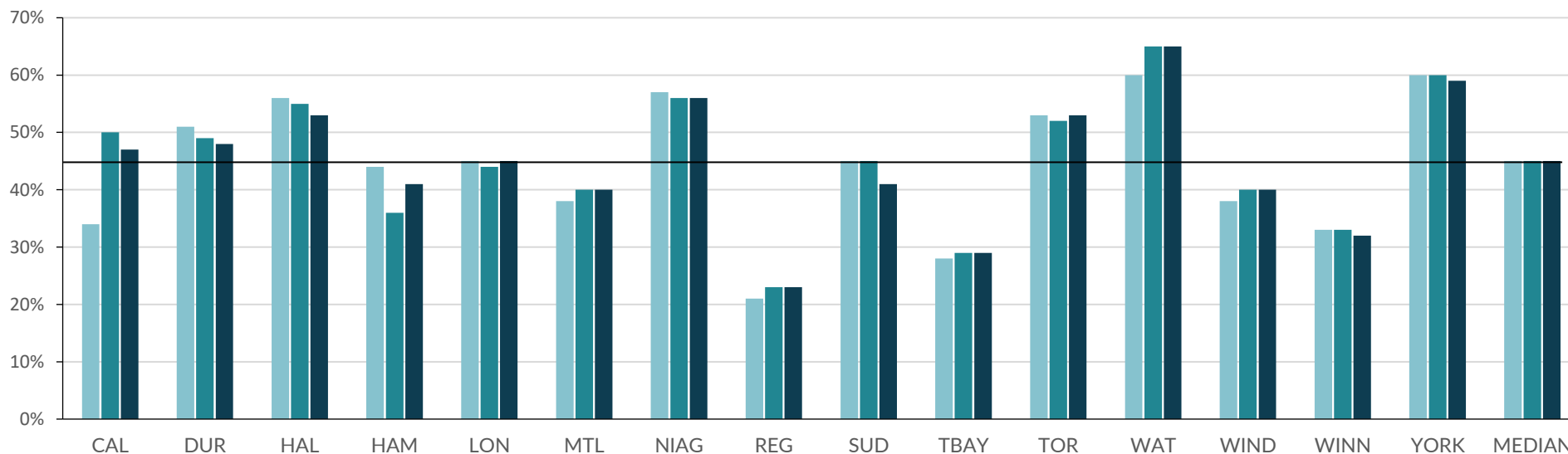
Sudbury: Does not report - unable to separate residential tonnage.

Windsor: Increase in diversion in 2019 is the result of higher than normal yard waste tonnages.

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Figure 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.



2017	34%	51%	56%	44%	45%	38%	57%	21%	45%	28%	53%	60%	38%	33%	60%	45%
2018	50%	49%	55%	36%	44%	40%	56%	23%	45%	29%	52%	65%	40%	33%	60%	45%
2019	47%	48%	53%	41%	45%	40%	56%	23%	41%	29%	53%	65%	40%	32%	59%	45%

Source: SWST105 (Community Impact)

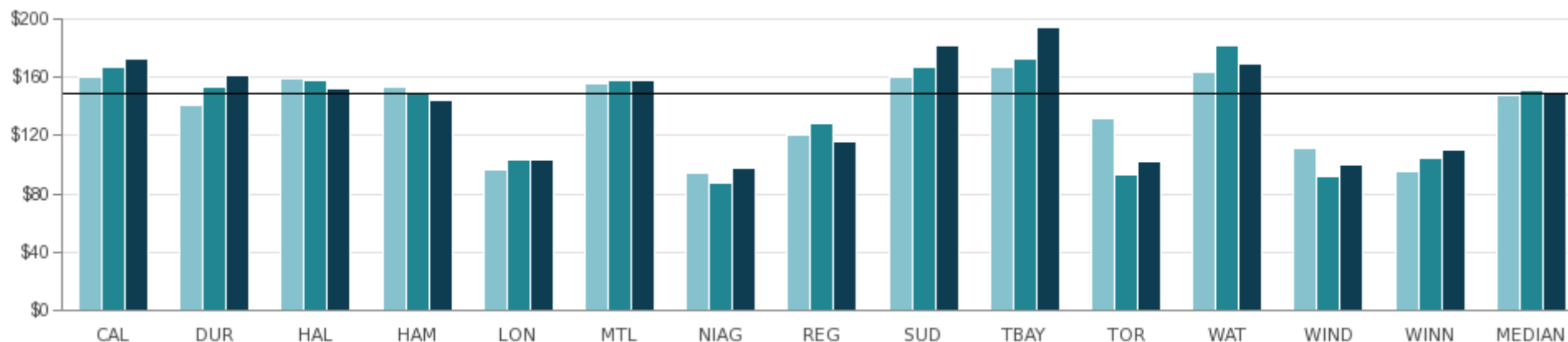
Calgary: The large increase in diversion in 2018 was due to the implementation of the Green Cart Program and change to every other week garbage collection, which was completed in the second half of 2017. 2018 was the first full year of program results.

Hamilton: The fluctuation in diversion rate is due to the temporary shut-down of the Central Composting Facility in 2018.

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Figure 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.



2017	\$160	\$141	\$159	\$154	\$96	\$156	\$94	\$120	\$160	\$167	\$132	\$164	\$111	\$95	\$148
2018	\$167	\$154	\$158	\$149	\$103	\$158	\$87	\$129	\$167	\$173	\$93	\$182	\$92	\$104	\$152
2019	\$173	\$161	\$153	\$144	\$103	\$158	\$98	\$116	\$182	\$195	\$102	\$169	\$100	\$110	\$149

Source: SWST311T (Efficiency)

Thunder Bay: The increase in 2019 is due to a change in unfunded liabilities, including WSIB. Also, the tonnage of waste collected in 2019 went down, while the fixed costs of delivering the service increased. It should be noted the City of Thunder Bay uses municipal forces to provide this service.

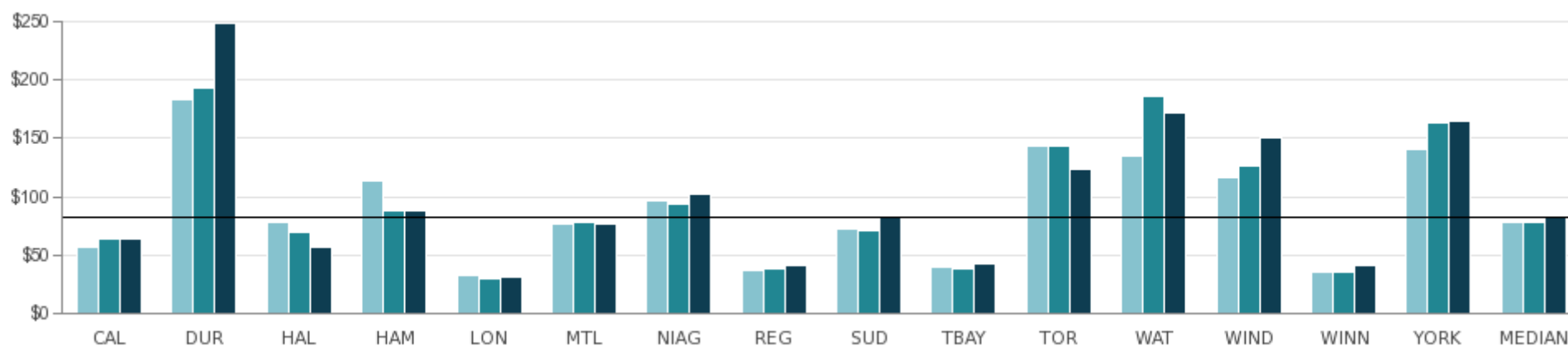
Windsor: Cost increase in 2017 due to a storm event that caused catastrophic flooding in the City.

York: Does not report - The Region operates a two-tier system. It is 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 unable to report the total cost.

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Figure 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. Additional costs such as 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.



2017	\$56	\$184	\$78	\$113	\$33	\$77	\$96	\$36	\$72	\$40	\$144	\$135	\$116	\$35	\$141	\$78
2018	\$63	\$194	\$70	\$88	\$29	\$78	\$93	\$38	\$71	\$38	\$143	\$186	\$126	\$35	\$164	\$78
2019	\$63	\$249	\$56	\$88	\$31	\$77	\$102	\$41	\$82	\$42	\$124	\$172	\$151	\$41	\$165	\$82

Source: SWST325T (Efficiency)

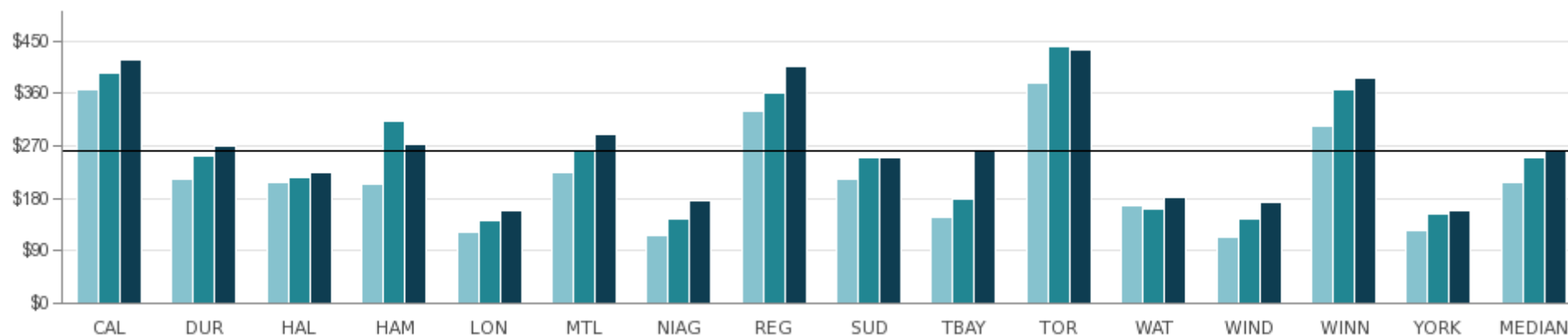
Halton: Decrease in 2019 due to increased Blue Box residue disposed and reduced amortization cost associated with the compression landfill.

Windsor: Increase in tipping fee, increase in tonnages, high leachate from new open cell as well as an increase in post closure costs have contributed to the overall increase in this measure.

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Figure 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.



2017	\$368	\$213	\$208	\$204	\$122	\$224	\$116	\$329	\$212	\$147	\$378	\$166	\$114	\$303	\$125	\$208
2018	\$396	\$254	\$216	\$312	\$141	\$261	\$144	\$360	\$250	\$180	\$441	\$161	\$145	\$368	\$152	\$250
2019	\$419	\$269	\$225	\$273	\$159	\$290	\$175	\$408	\$250	\$262	\$435	\$181	\$174	\$388	\$159	\$262

Source: SWST330T (Efficiency)

Hamilton: The increase in 2018 was primarily due to the temporary shut down of the Central Composting Facility.

Niagara: Increase in 2019 net operating cost was the result of decrease in end market revenues.

Thunder Bay: 2019 increase is due to a new service provider contract for recycling services and increased processing costs.

