

CT Department of Environmental Protection
**Municipal MSW & Recycling Full Cost Accounting
Survey – Summer/Fall 2008**
Response Summary



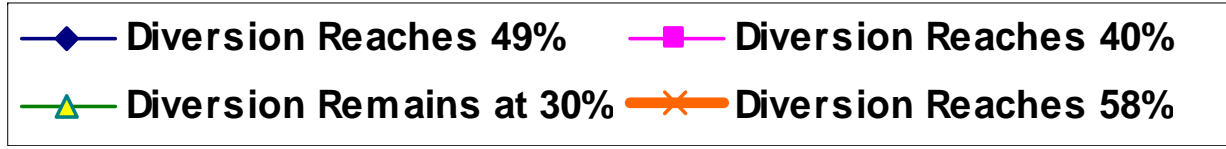
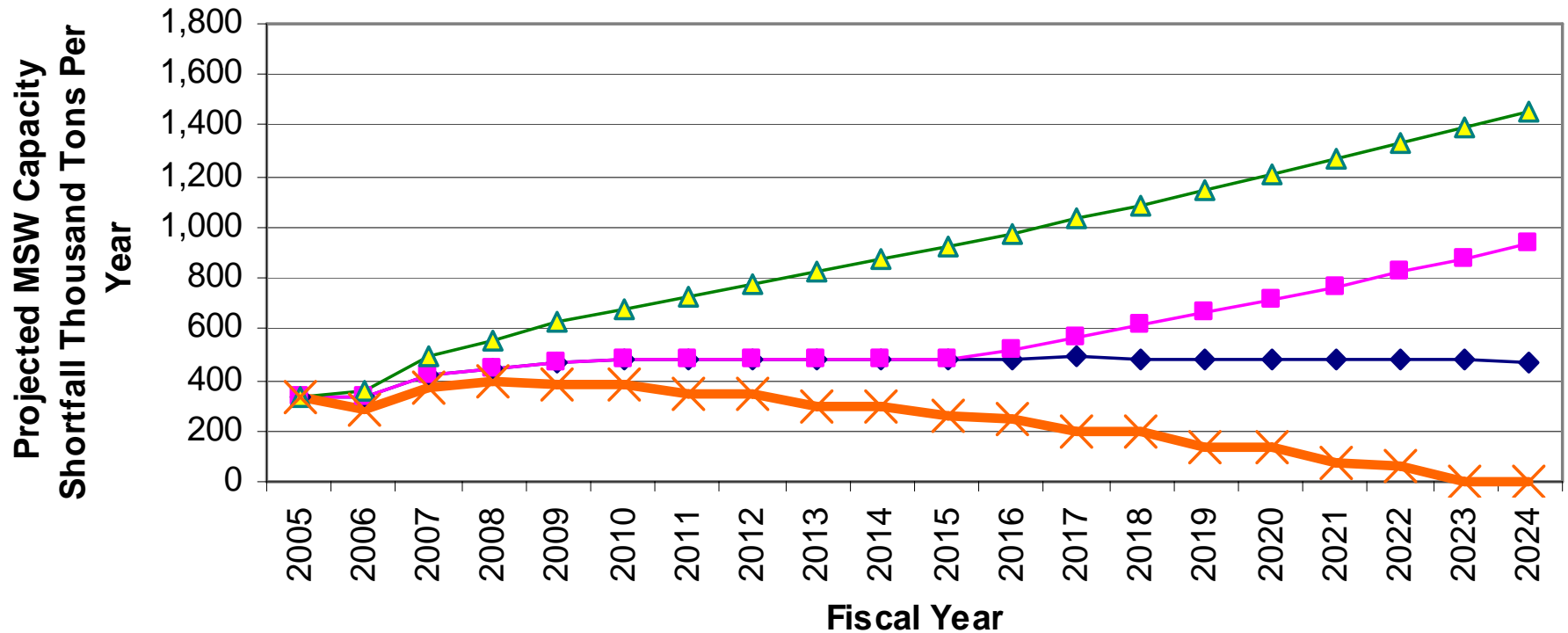
Based on 2008 data – Verification as of
08/24/2009 - 161 CT Cities and Towns

Implementation of Solid Waste Management Plan

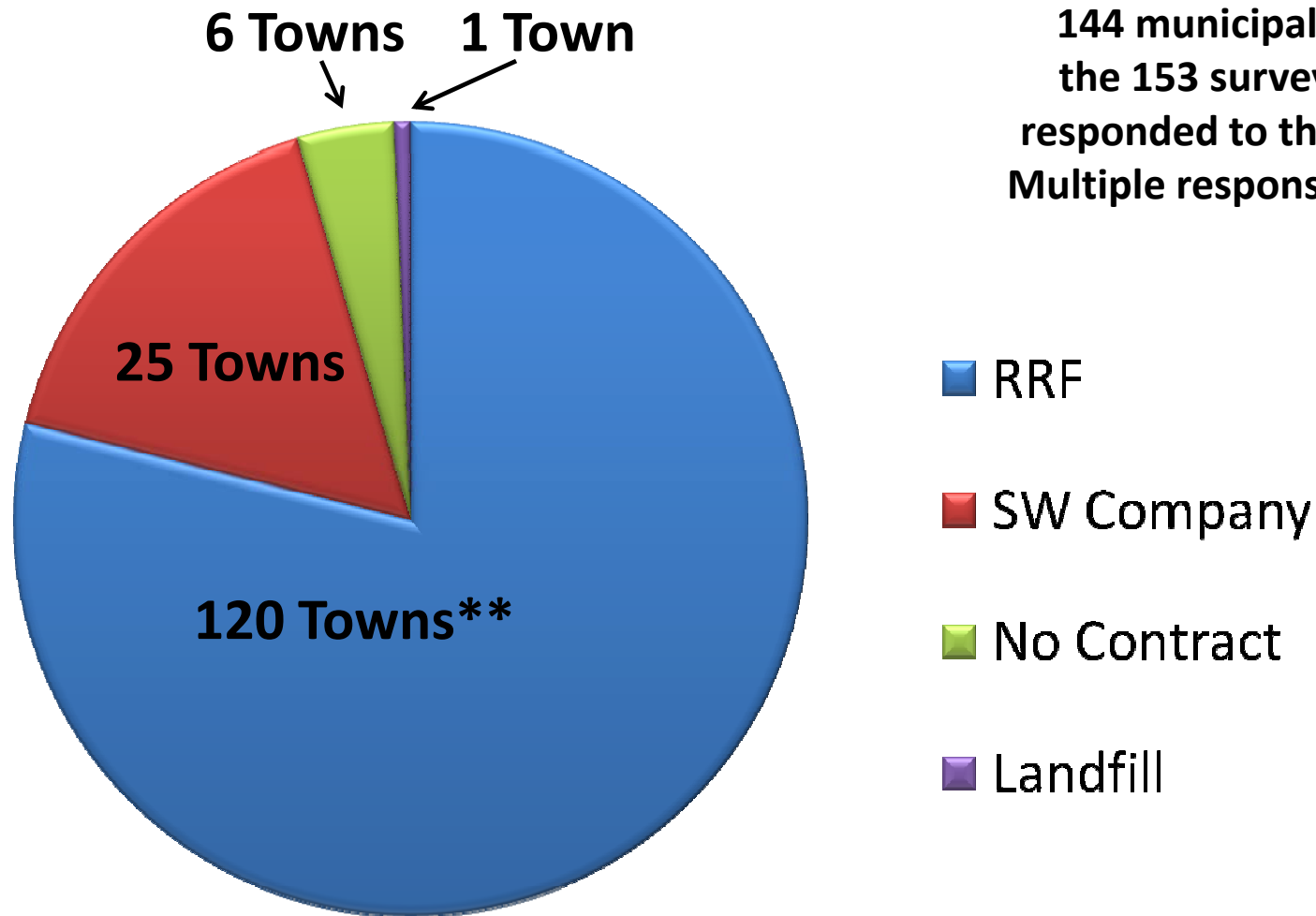
- Enhance/improve existing municipal recycling programs
- Target electronics, mixed paper, commercial C&D, and commercial food waste
- Promote unit based pricing (UBP)
- Conduct a waste characterization study
- Improve reporting
- Improve permitting and enforcement activities
- Improve business, institution, and government recycling

Projections of In-State MSW Disposal Capacity Shortfall Under Various Waste Diversion Assumptions for the Period FY2005 through FY2024.

(December 2006 – CT State Solid Waste Management Plan)



Municipal MSW Disposal Contracts as of July 2008



** 15 towns included in the 120 towns had contracts with the Bridgeport RRF through CRRA which have since expired. Preliminary information indicates that 12 have or are planning to sign a 5.5 year extension of that contract through CRRA; three have or are about to sign a contract with City Carting for disposing of their MSW; (two municipalities which did not complete the survey are planning to sign with City Carting as well).

FY2008 MSW Disposal Tipping Fees Paid by Municipalities

CRRA – MidCT Project; Bridgeport Project and Wallingford Project Member Municipalities

Tipping fees generally paid by the municipality for:

- MSW delivered to the RRF by Municipal employees, and
- MSW delivered to the RRF by Municipal Contracted Private Haulers

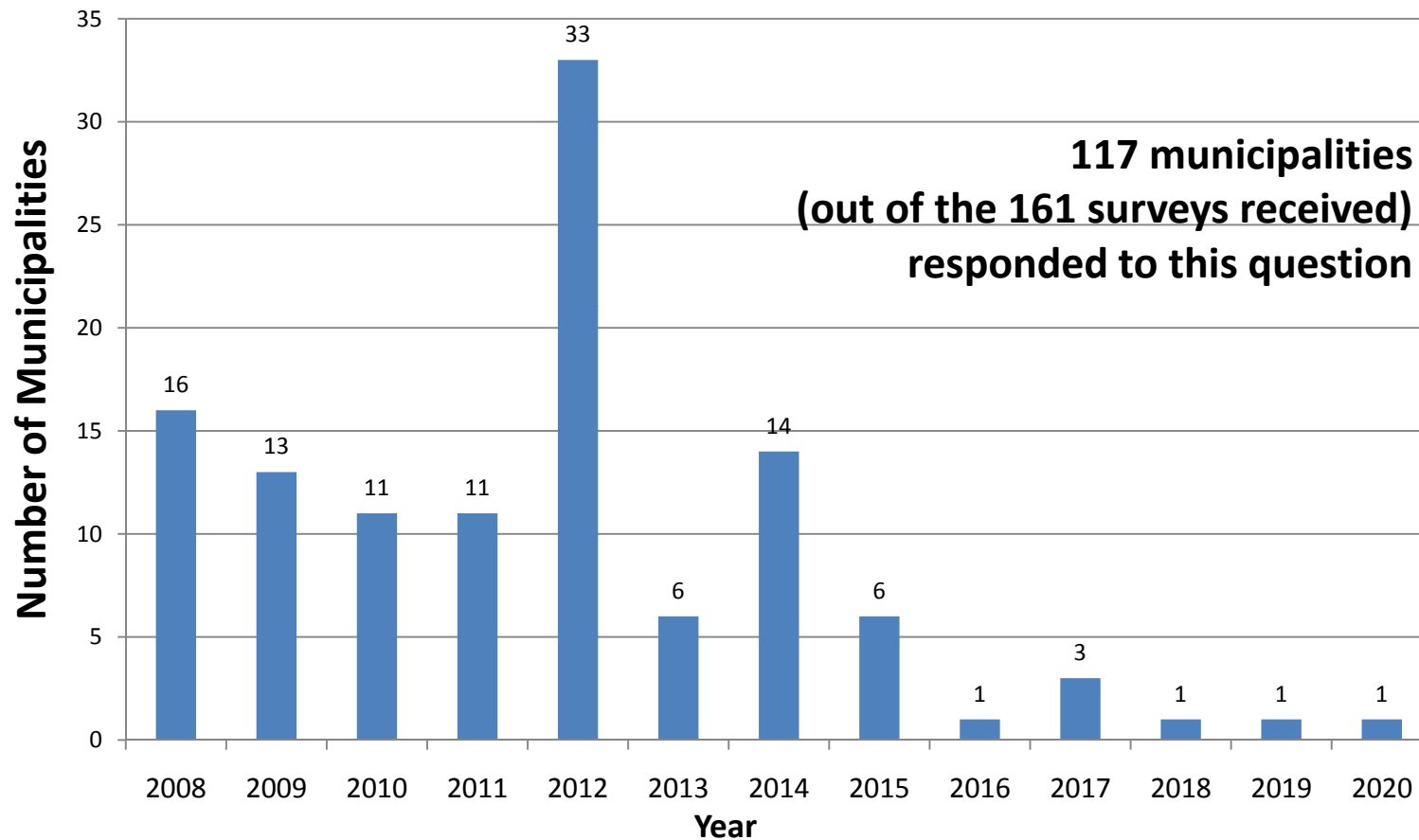
Tipping fees generally paid by the private haulers for:

- MSW delivered to the RRF by Private haulers not contracted by municipality
 - In rare instances private haulers are reimbursed by municipality for the tipping fee

SCRRRA (Preston RRF) and BRRFOC (Bristol RRF) Member Municipalities

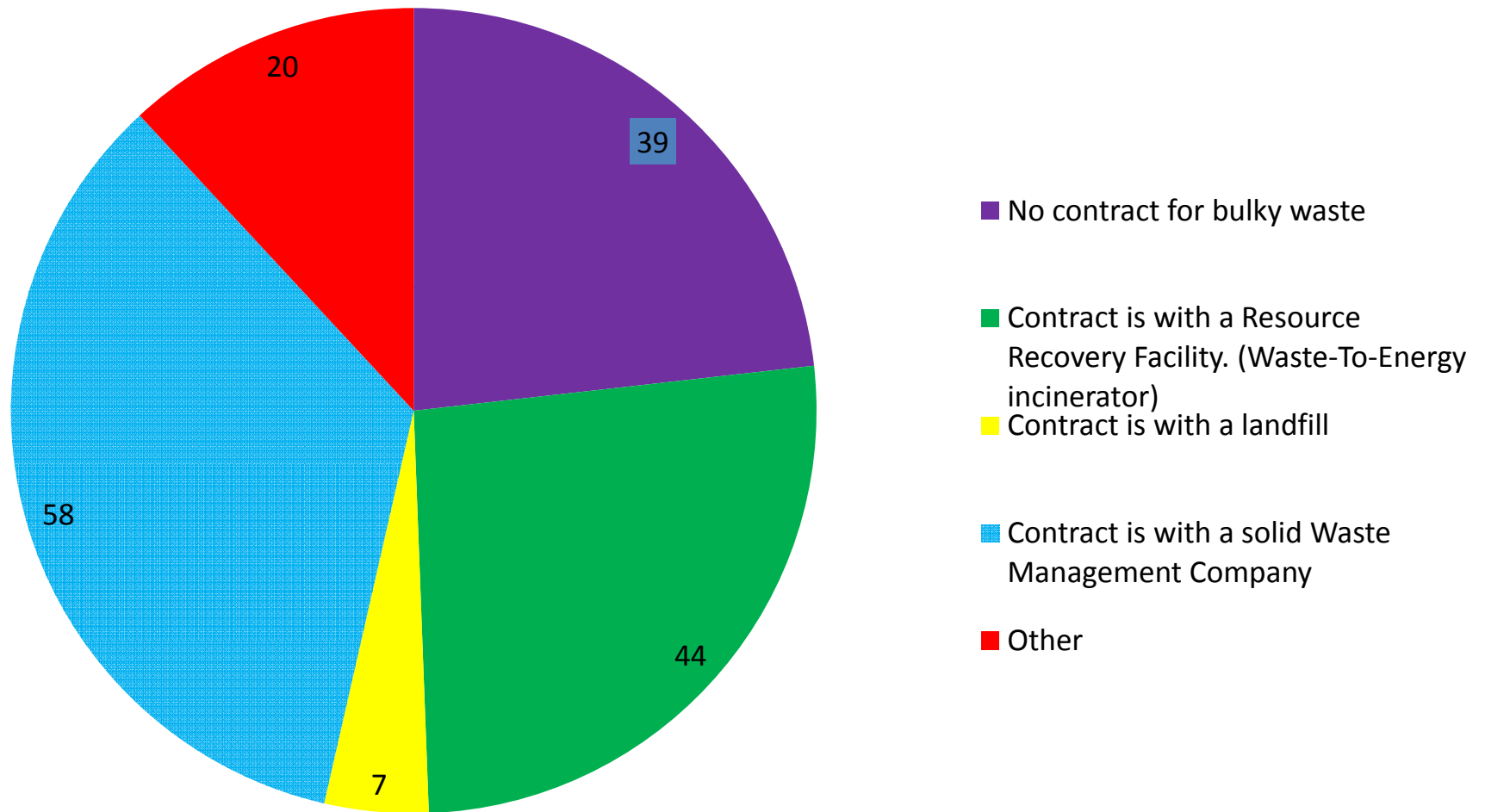
- Tipping fees are billed directly to the municipality for all the waste delivered to the RRF from their municipality
 - In most cases the municipality recoups tipping fees from non-contracted private haulers.

Municipal MSW Disposal Contract* Expiration Dates as of Summer 2008



* Includes contracts between a municipality and: (1) a solid waste company; or (2) a RRF; or (3) a RRF through a regional resource recovery authority, regional operating committee, etc.

Municipal Bulky Waste Disposal Contracts



149 municipalities (out of the 161 surveys received) responded to this question. *Multiple responses were allowed*

Municipal Unit-Based Pricing Programs (SMART, PAYT)

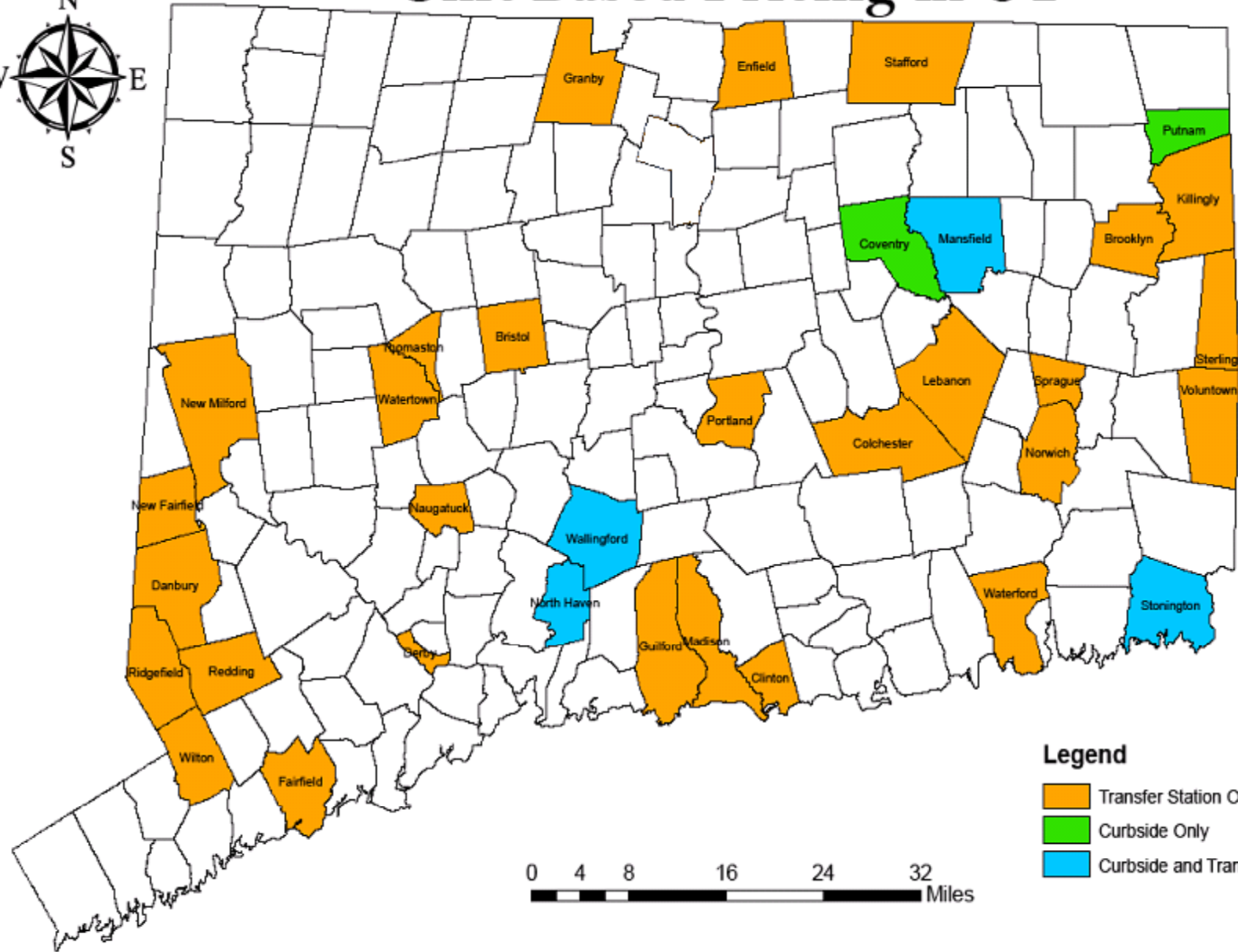


- Six towns reported having **curbside** unit based pricing programs.
- 32 towns reported having **transfer station** unit based pricing (three of these towns also reported having a curbside PAYT program)

147 municipalities (out of the 161 surveys received)
responded to this question

CT Municipalities with Unit-Based Pricing Programs

Unit Based Pricing in CT



Legend

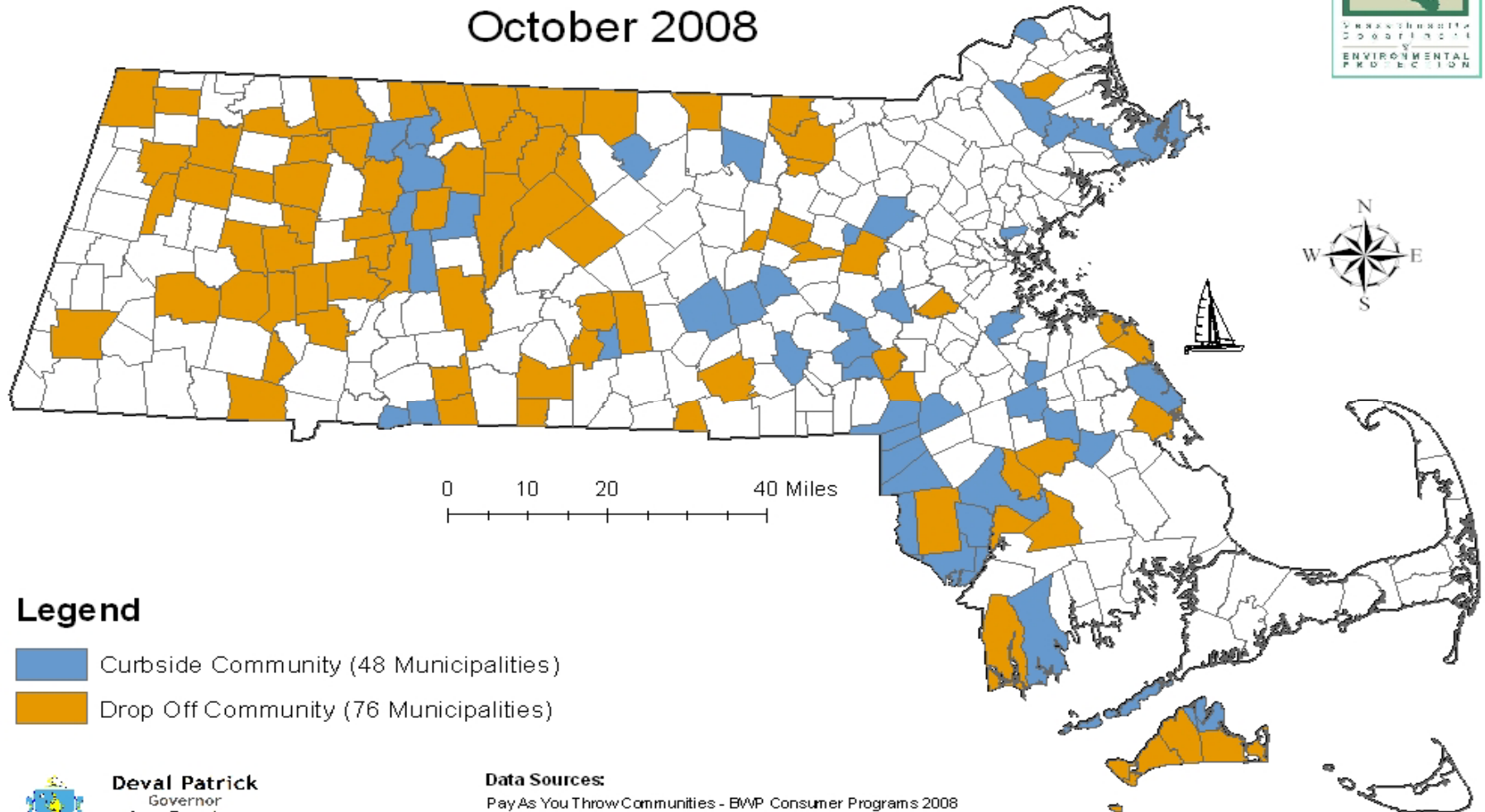
- Transfer Station Only
- Curbside Only
- Curbside and Transfer Station





MA Municipalities with Unit-Based Pricing Programs

Municipal Solid Waste Pay-As-You-Throw Communities in Massachusetts

October 2008



Legend

-  Curbside Community (48 Municipalities)
-  Drop Off Community (76 Municipalities)



Deval Patrick
Governor
Ian Bowles
Secretary of Energy and
Environmental Affairs

Data Sources:

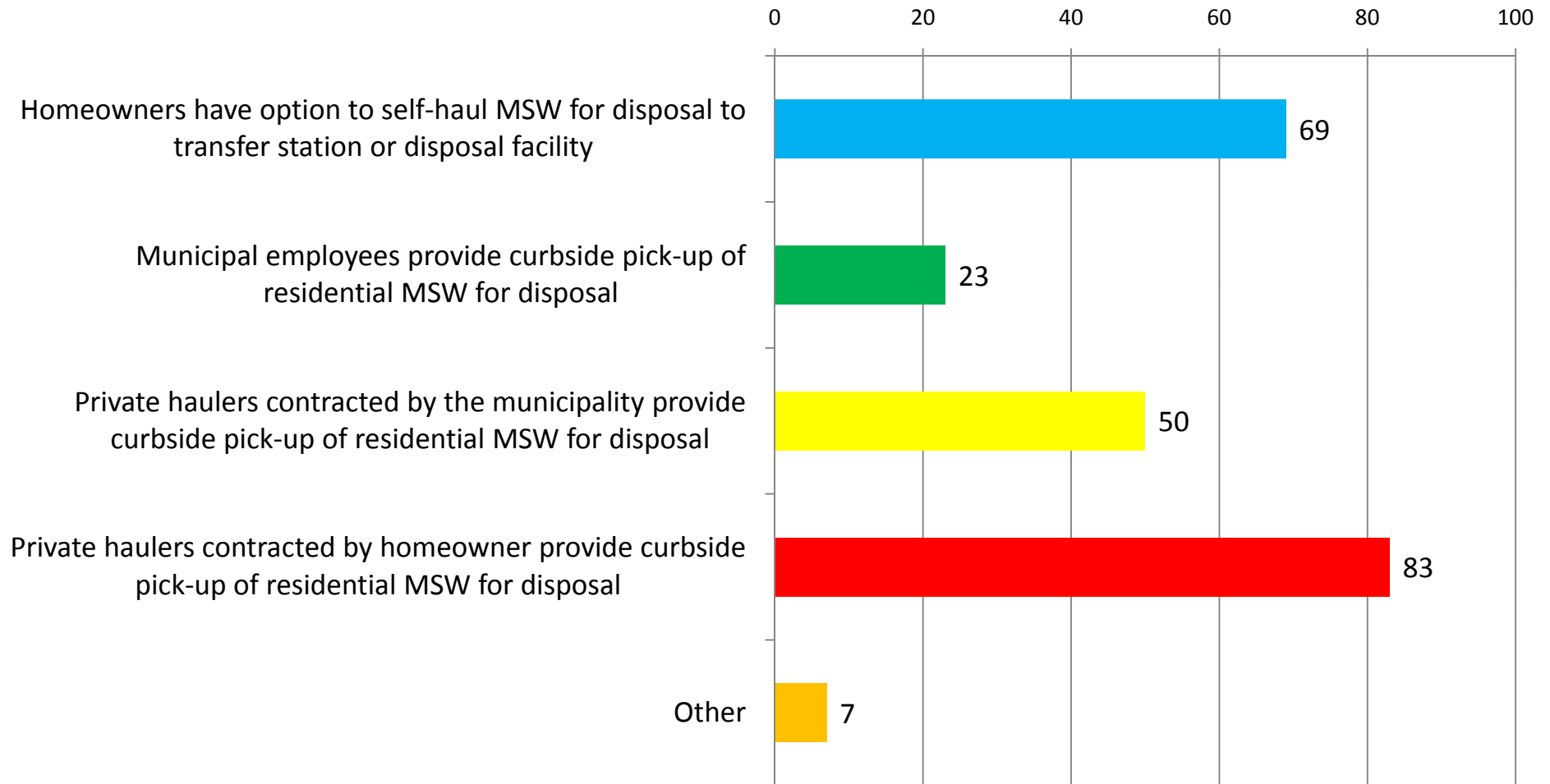
Pay As You Throw Communities - BWP Consumer Programs 2008
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Massachusetts Municipalities - MassGIS 2004

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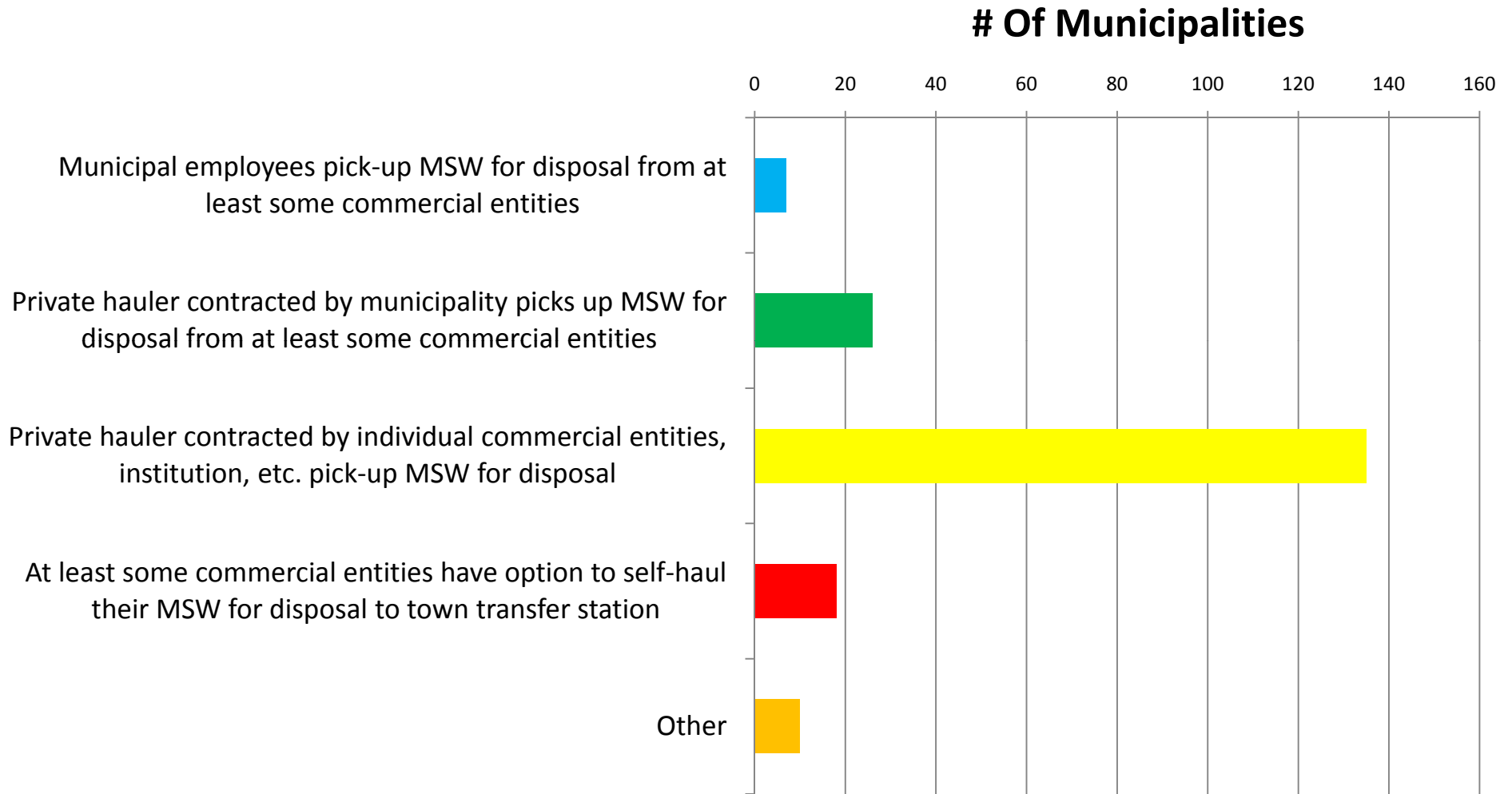
Residential MSW Disposal Collection

Of Municipalities



150 municipalities (out of the 161 surveys received) responded to this question, *multiple responses were allowed*

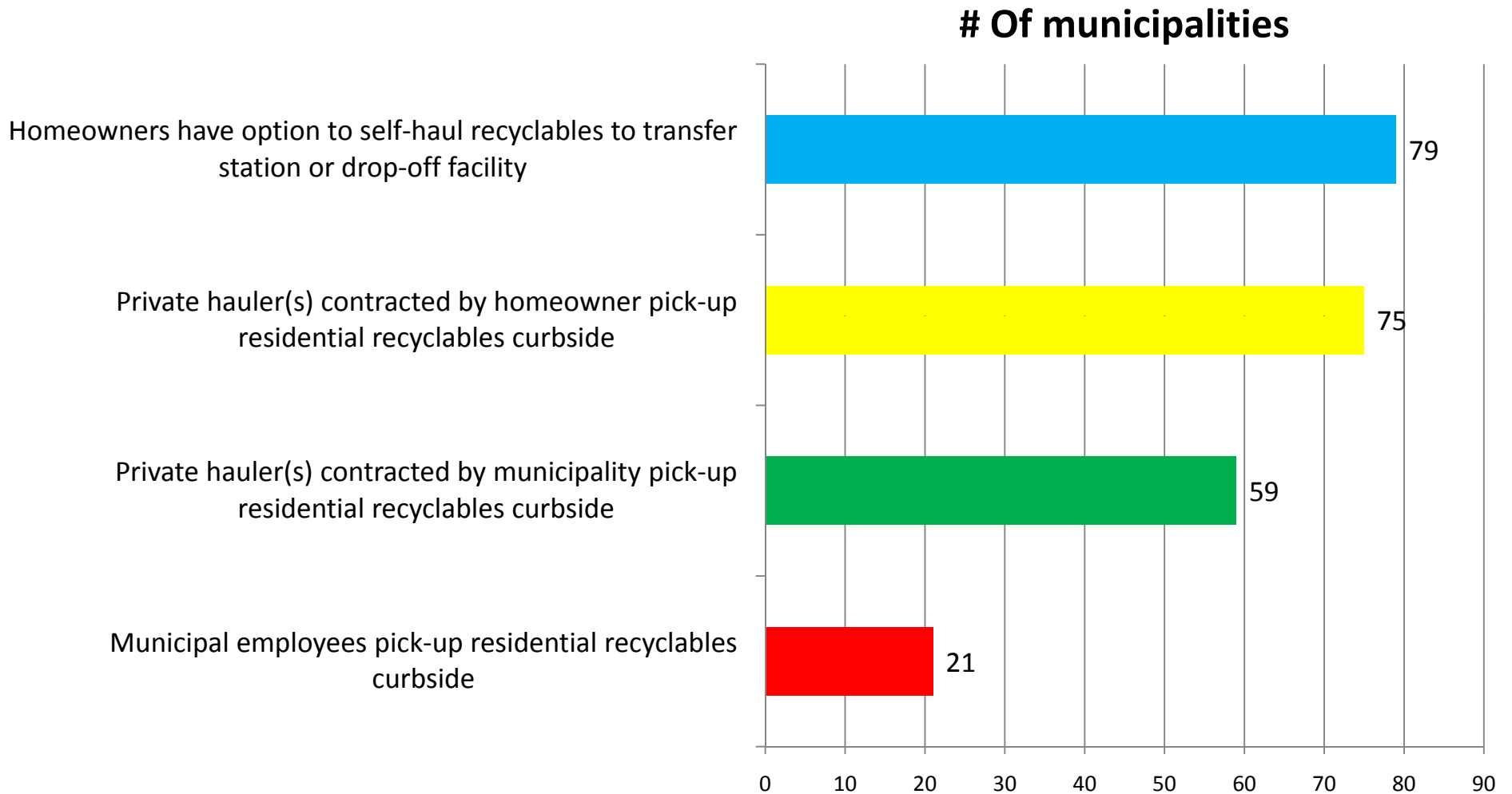
Commercial MSW Disposal Collection



Commercial Entities Include: Municipal buildings, schools, condos, churches, and small/ large businesses, etc.

149 municipalities
(out of the 161 surveys received)
responded to this question.
Multiple responses were allowed

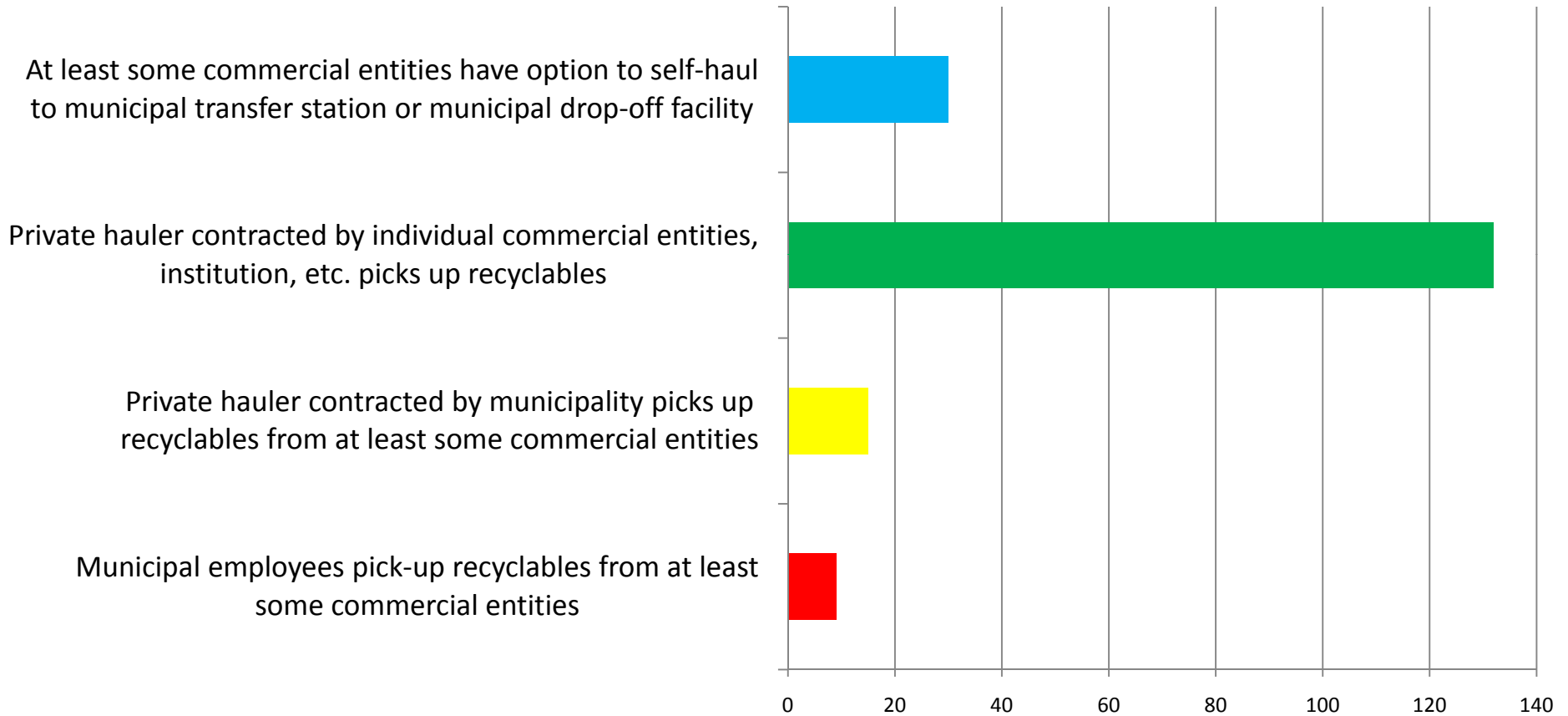
Residential Curbside Recycling Collection



153 municipalities (out of the 161 surveys received) responded to this question, *multiple responses were allowed*

Commercial Recycling Collection

Of municipalities



Commercial Entities Include: municipal buildings, schools, condos, churches, small/large businesses, non-profits, and elderly housing units, etc.

143 municipalities (out of the 161 surveys received), responded to this question. Multiple responses were allowed

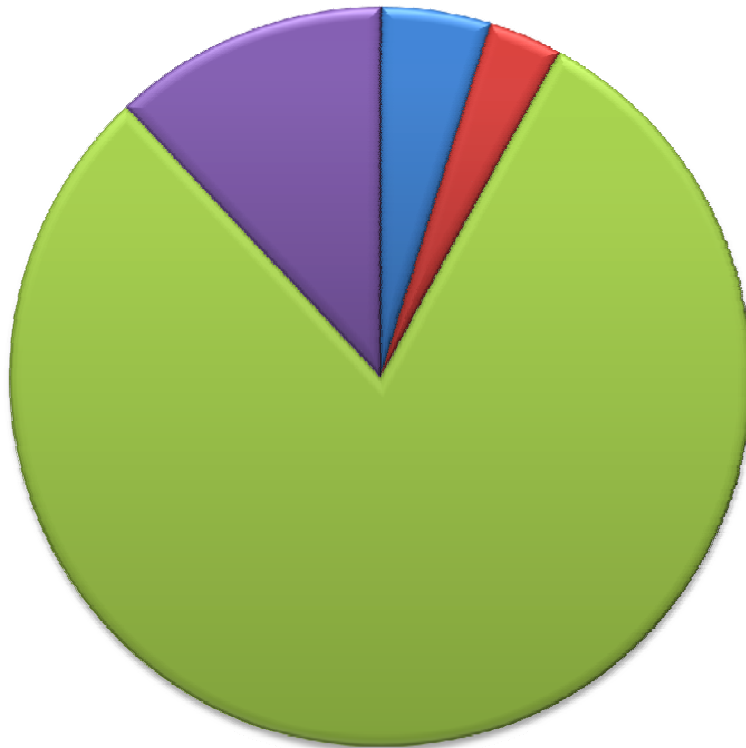
Average Annual Collection Costs for Residential MSW and Recyclables

- Of the municipalities that responded, **45** reported an annual average **\$350,980** was spent to provide or contract out for curbside collection of **recyclables**. This translates to an average of **\$11.96 per capita** – ranging from **\$1.30 to \$40.95 per capita/year**.
- For the **41** municipalities that responded they pay for curbside pick-up, an average of **\$1,011,825** was spent to provide or contract out for curbside collection of **MSW** for disposal. This translates to an average of **\$35.40 per capita** – ranging from **\$4.41 to \$85.30 per capita/year**.

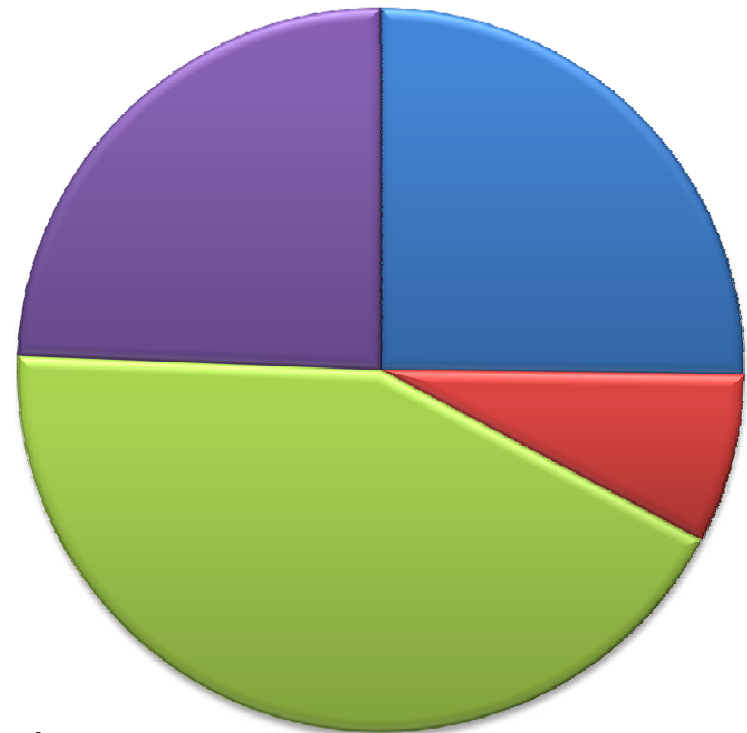
108 municipalities (out of the 161 surveys received)
responded to this question

Type of Residential Curbside Collection

Recycling Collection



MSW Collection



- Automated
- Semi-automated
- Manual
- Combination

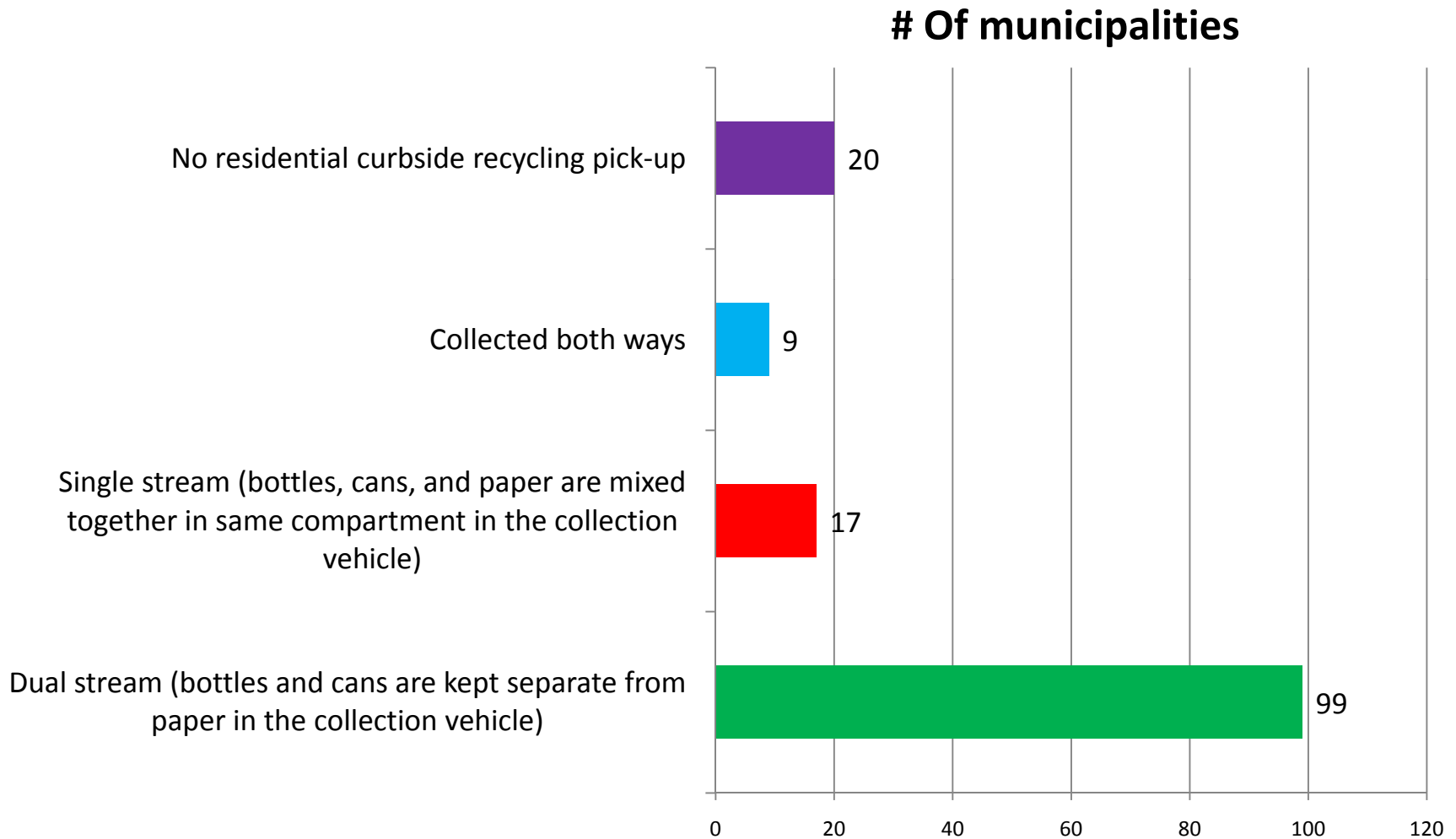
119 municipalities (out of the 161 surveys received) responded to this question

Residential Curbside Services – # Municipalities Contemplating Switch to Auto or Semi-Auto

- Of the **51** municipalities which reported that MSW for disposal is picked-up manually curbside, **Ten** are contemplating switching to automated, or semi-automated pickup.
- Of the **100** municipalities which reported that recyclables are collected manually curbside, **28** are contemplating switching to automated, or semi-automated pickup.

125 municipalities (out of the 161 surveys received)
responded to this question

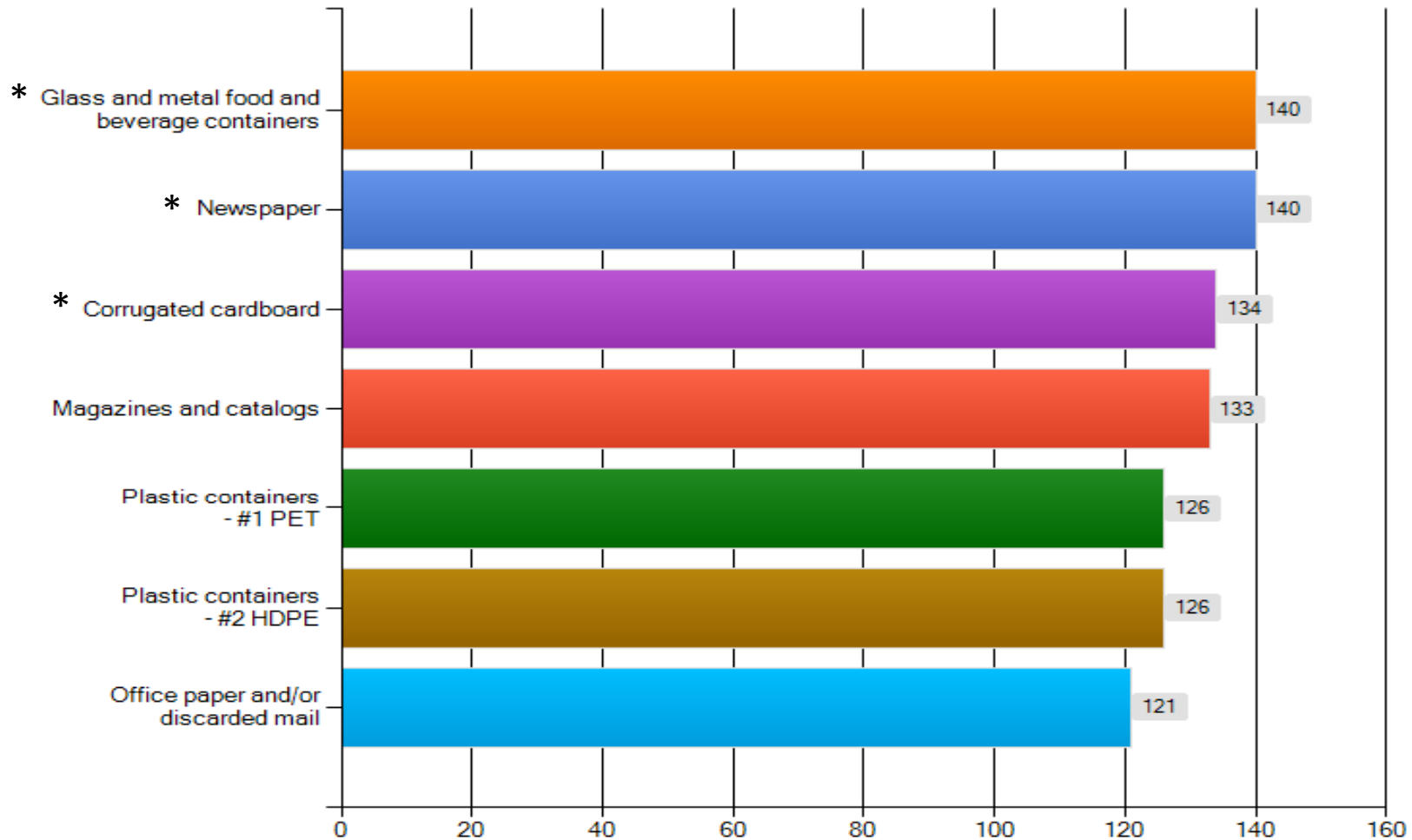
Residential Curbside Recycling Collection Methods –Summer 2008



**141 municipalities (out of the 161 surveys received)
responded to this question**

Residential Recyclables Reported Collected Curbside

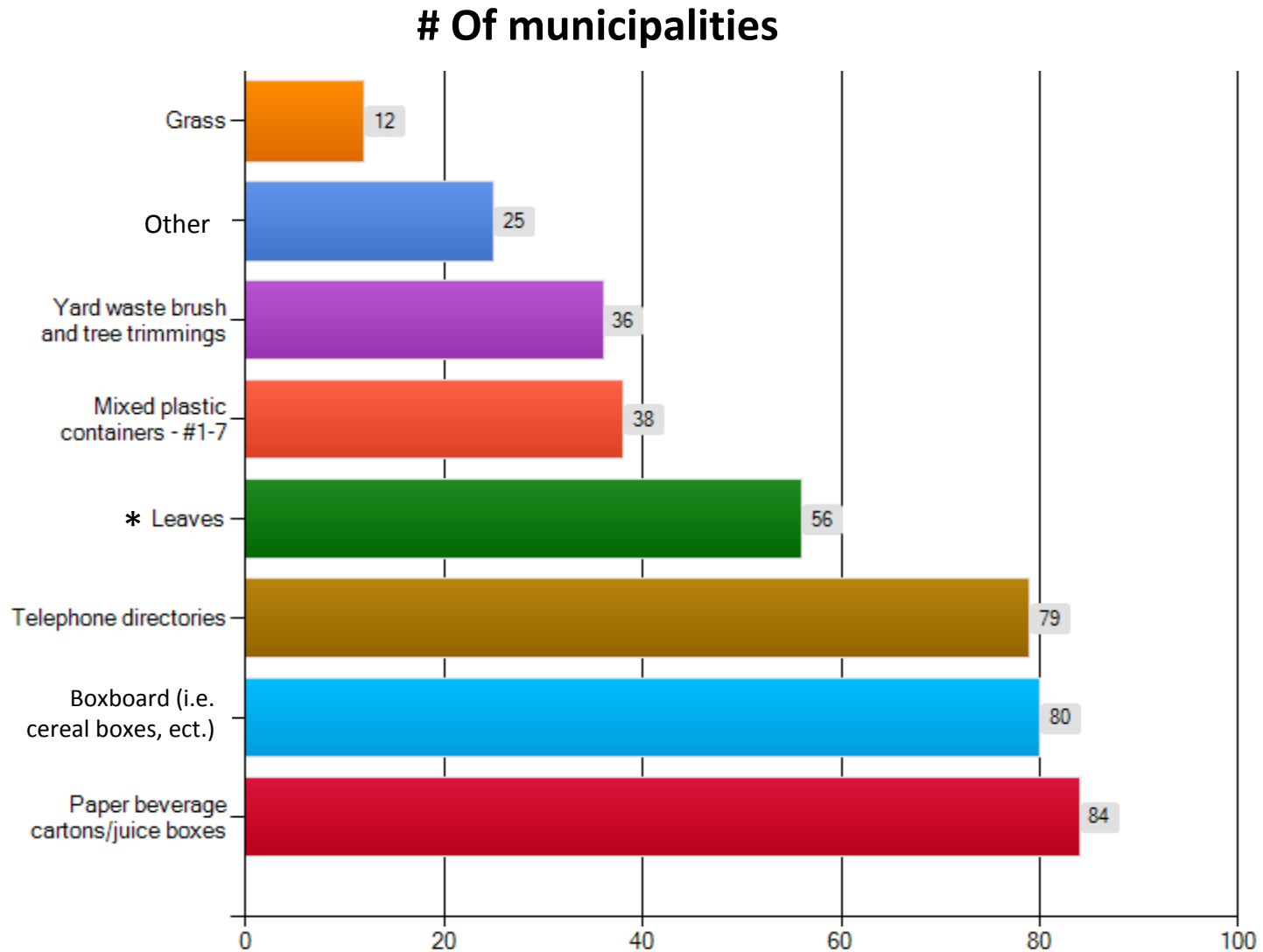
Of municipalities



* CT mandated recyclable

145 municipalities (out of the 161 surveys received) responded to this question

Residential Curbside Recycling Continued



* CT mandated recyclable

145 municipalities (out of the 161 surveys received) responded to this question

Transfer Station Facts and Figures

➤ Residential MSW For Disposal

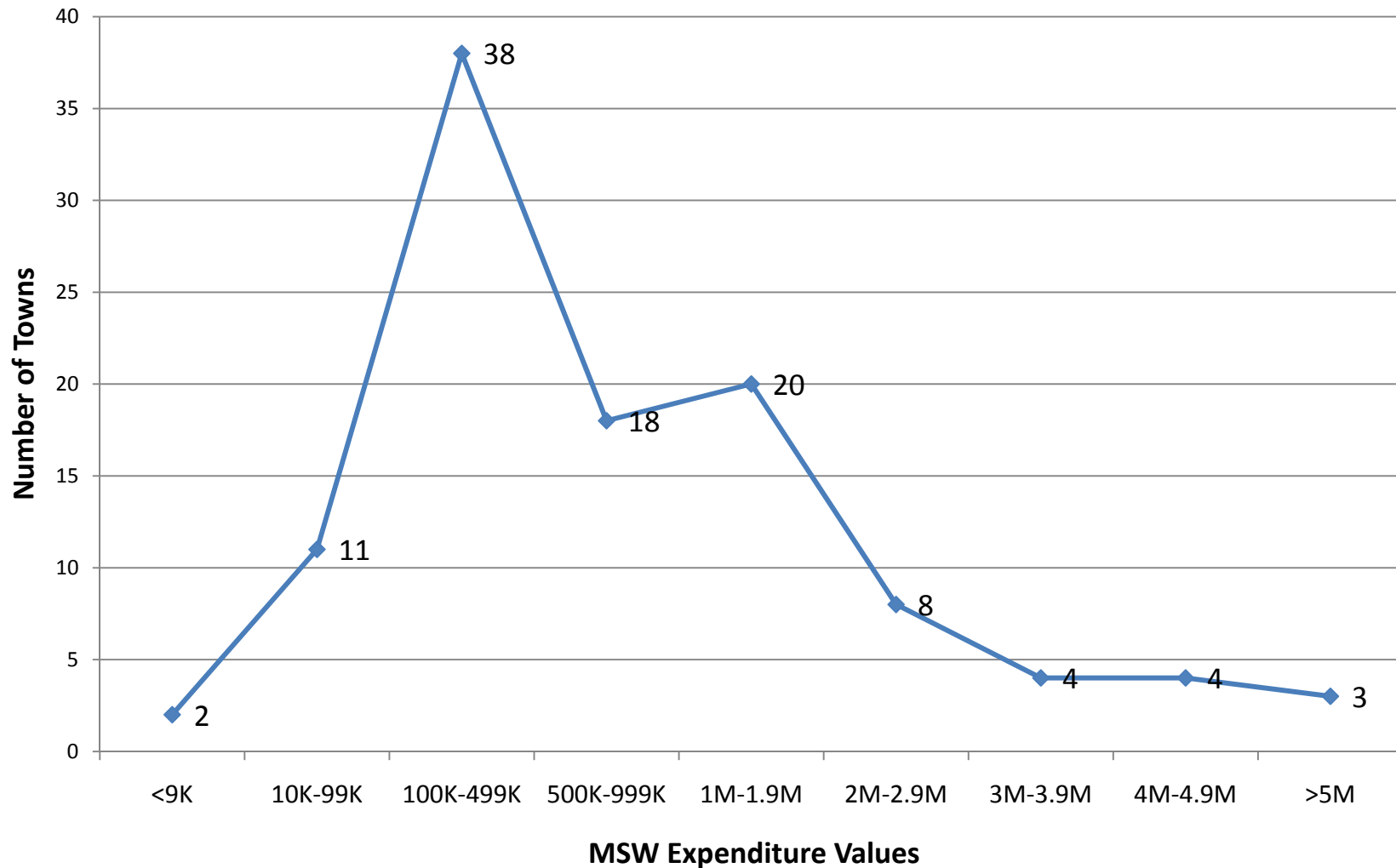
- 93 municipalities accept residential MSW for disposal at their TS
 - 18 municipalities charge only an annual transfer station use fee and do not charge extra for MSW
 - 27 municipalities do not charge any fee for residents

➤ Bottles/Cans/Paper (BCP)

- 108 municipalities accept BCP from residents at their TS
 - Two municipalities charge residents a fee
- 59 municipalities accept BCP from businesses
 - Five municipalities charge businesses a fee

134 municipalities (out of the 161 surveys received)
responded to this question

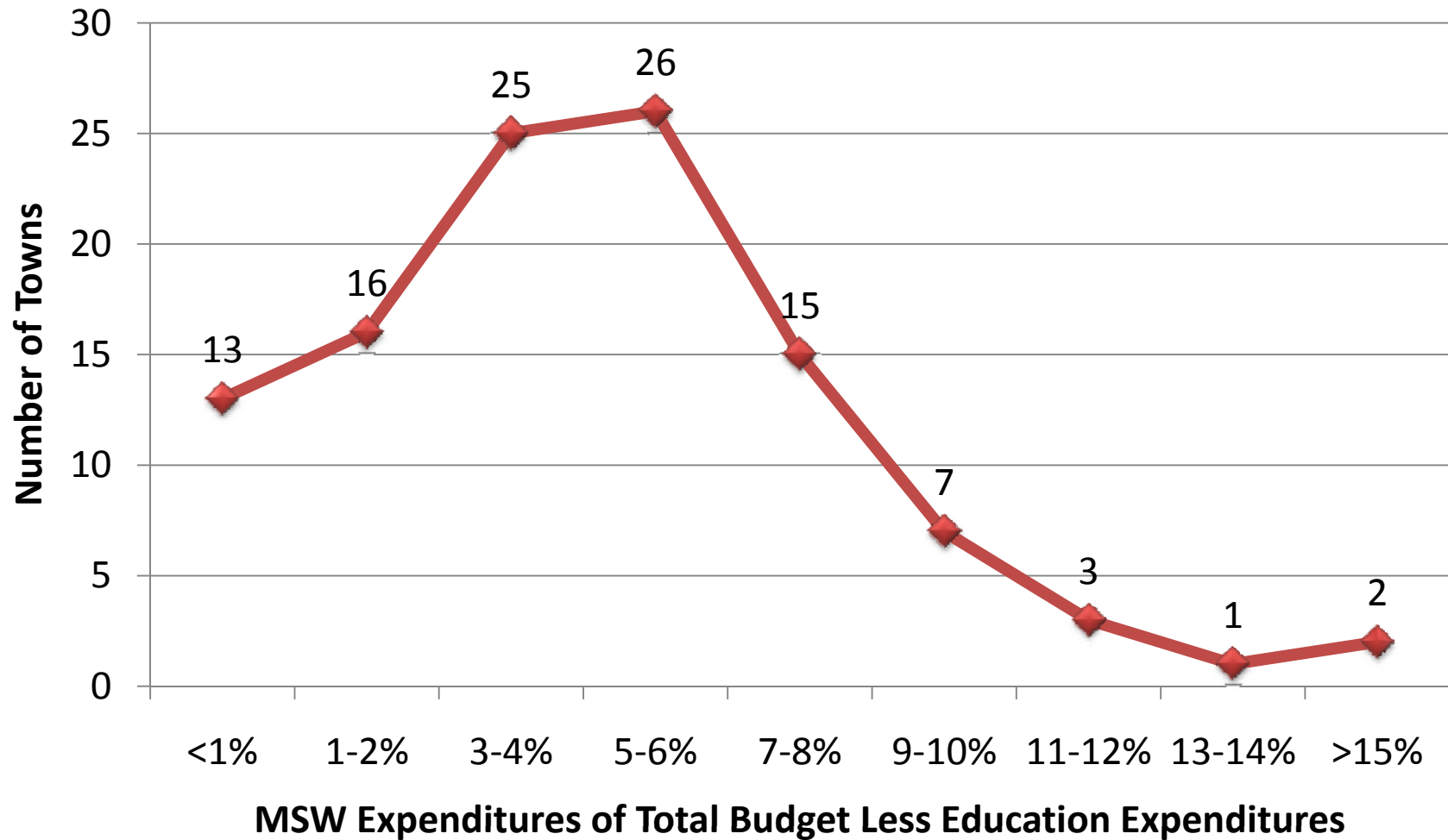
Annual MSW Expenditures



Average \$1,152,259
for 108 municipalities
**Median of \$561,698

**108 municipalities (out of the 161 surveys received)
responded to this question**

Annual MSW Expenses as a % of Total Expenditures



108 municipalities (out of the 161 surveys received) responded to this question

**Median of 5.05%

Annual Average Tonnage of Materials Passing Through Transfer Stations

- Of the **74** municipalities that responded, an annual average of **15,534 tons** of solid waste passes through a transfer station for disposal. This translates to an average of **0.65 tons per capita** – ranging from **.02 to 13.6 tons/capita/year**.
- Of the **77** municipalities that responded, an annual average of **3,043 tons** of recyclables passes through a transfer station. This translates to an average of **0.16 tons per capita** – ranging from **0.002 to 2.5 tons/capita/year**.

90 municipalities (out of the 161 surveys received)
responded to this question

Average Annual Operating Costs of Transfer Stations

➤ Of the municipalities that responded, **84** own or operate a transfer station, with an average total annual operating cost of **\$ 614,812**. This translates to an average of **\$36.75 per capita** – ranging from **\$2.03** to **\$126.84 per capita/year**.

110 municipalities (out of the 153 surveys received) responded to this question

Average Annual Landfill Expenditures

➤ For the **31** municipalities who responded to this question re maintaining a **closed landfill**, the average annual maintenance cost was **\$31,706**.

Such costs can include:

- Leachate collection system
- Groundwater monitoring
- Installation of cap
- Inspection and repair of cap and other protective systems

➤ For the **seven** municipalities who responded to this question re operating an **open landfill** the average annual operating cost was **\$395,729**.

Average Annual Expenditures for Oversized MSW Curbside Collection

➤ Of the municipalities that responded, **11** provide or contract out curbside collection of oversized MSW for disposal. The average annual expenditure for this is **\$482,804**. This translates to an average of **\$14.48 per capita** – ranging from **\$1.38** to **\$63.53 per capita/year**.

99 municipalities (out of the 161 surveys received)
responded to this question

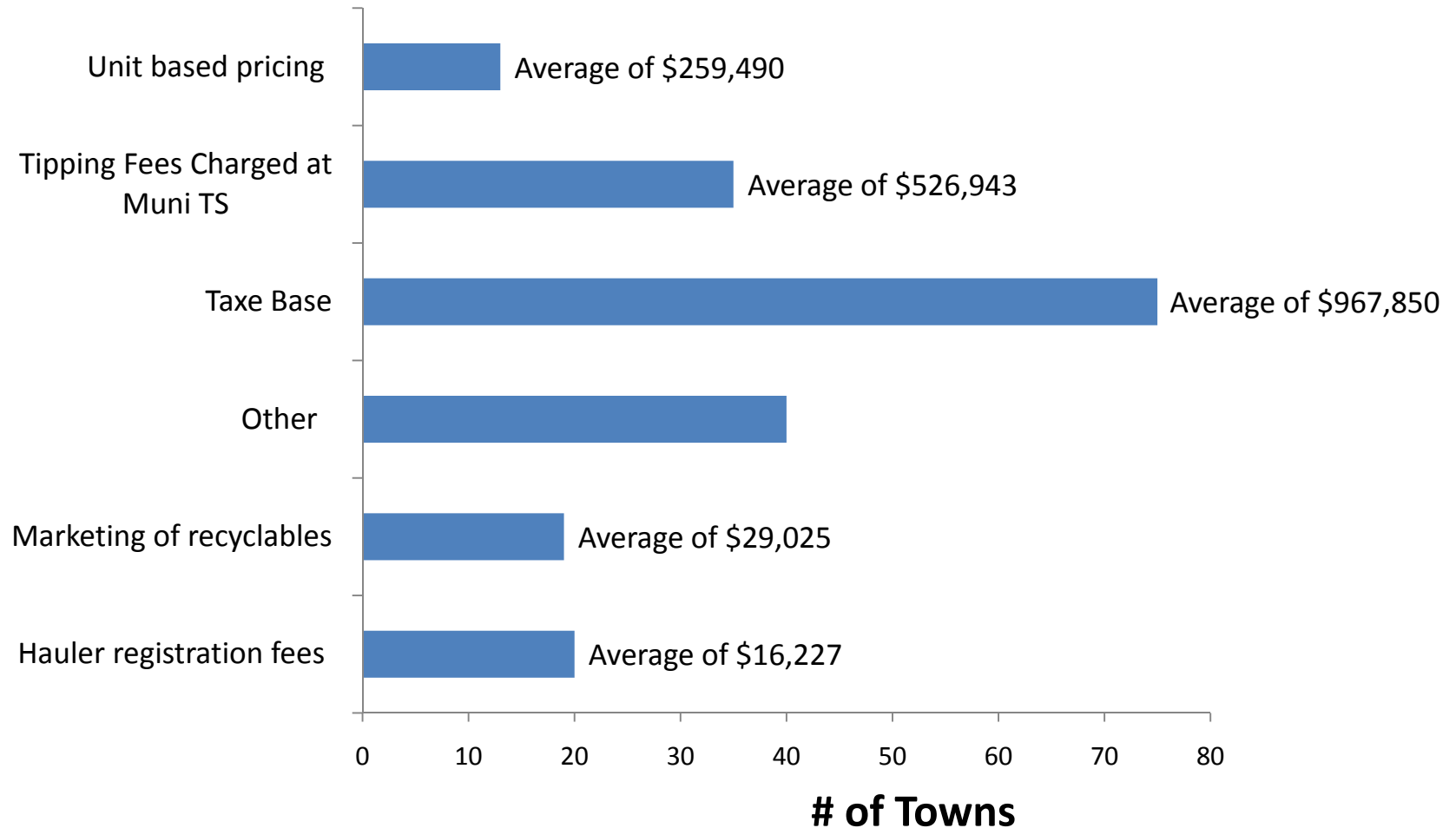
Other Annual Recycling Expenditures

➤ Of the municipalities that responded, **37** have recycling education expenditures. The average annual cost is **\$12,262**, or **\$1.50 per capita/year**.

➤ Of the municipalities that responded, **18** have recycling enforcement expenditures. The average annual cost is **\$20,695**, or **\$2.60 per capita/year**.

110 municipalities (out of the 161 surveys received)
responded to this question

FY 2008 Annual Revenue Sources for Municipal Solid Waste and Recycling Management Programs



113 municipalities (out of the 161 surveys received) responded to this question. Multiple responses allowed.