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CT Department of Environmental Protection

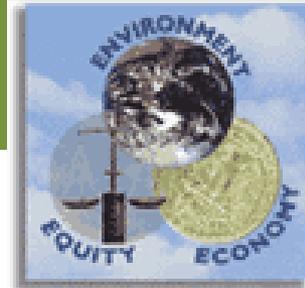
SMART Waste Management to Reduce Disposal & Increase Recycling



The SMART Solution for Decreasing Wastes

US EPA Webinar April 16, 2009

Municipal Unit-Based Pricing Programs (SMART, PAYT) Why Now?



↑ Increasing recycling/source reduction rate goals

CT goal = **58% diversion by 2024** – Current diversion rate (recycling & source reduction) needs to double

- Environmentally preferable way to manage solid waste
- To avoid siting and costs of new resource recovery facility (waste-to-energy plants) or landfills

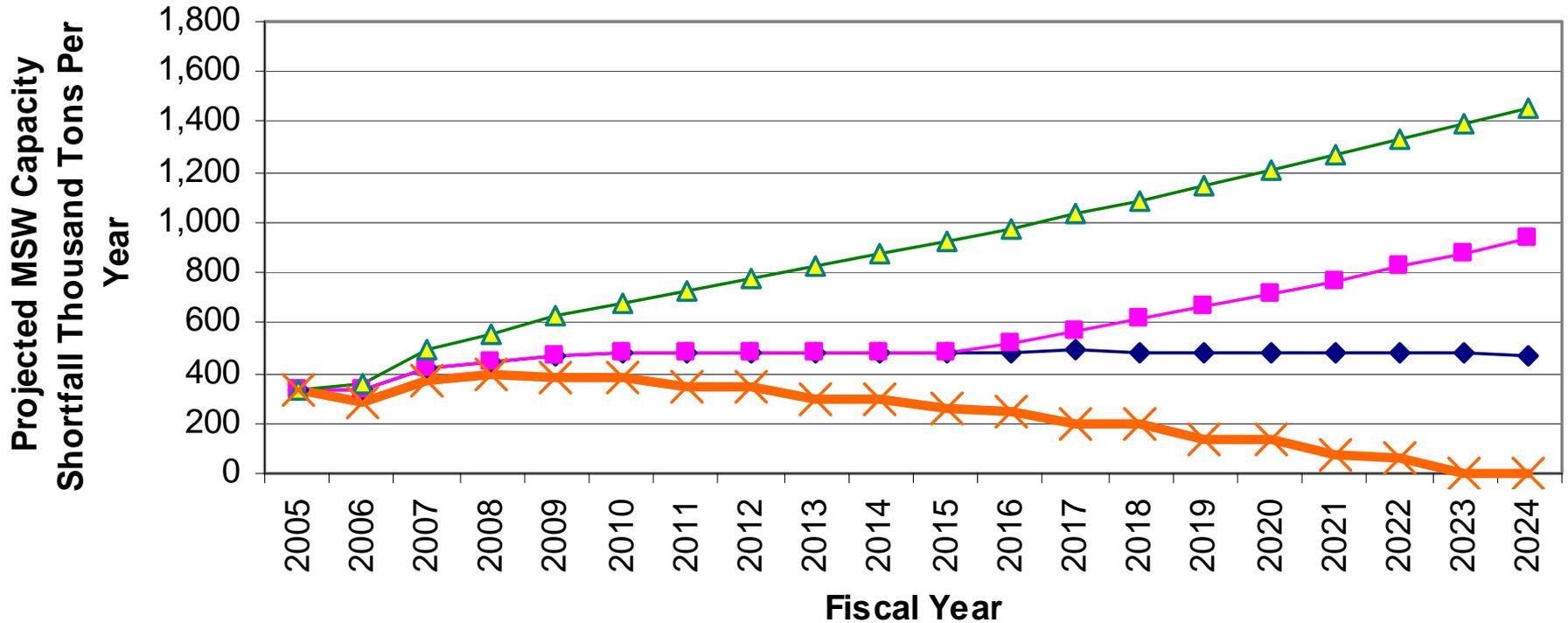
↓ Declining recycling education and enforcement resources.

↑ Increasing budget and tax pressures.

And in CT, 20-year contracts with resource recovery facilities will expire over next few years for most of state = sustainable cost control needed now and in future.

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

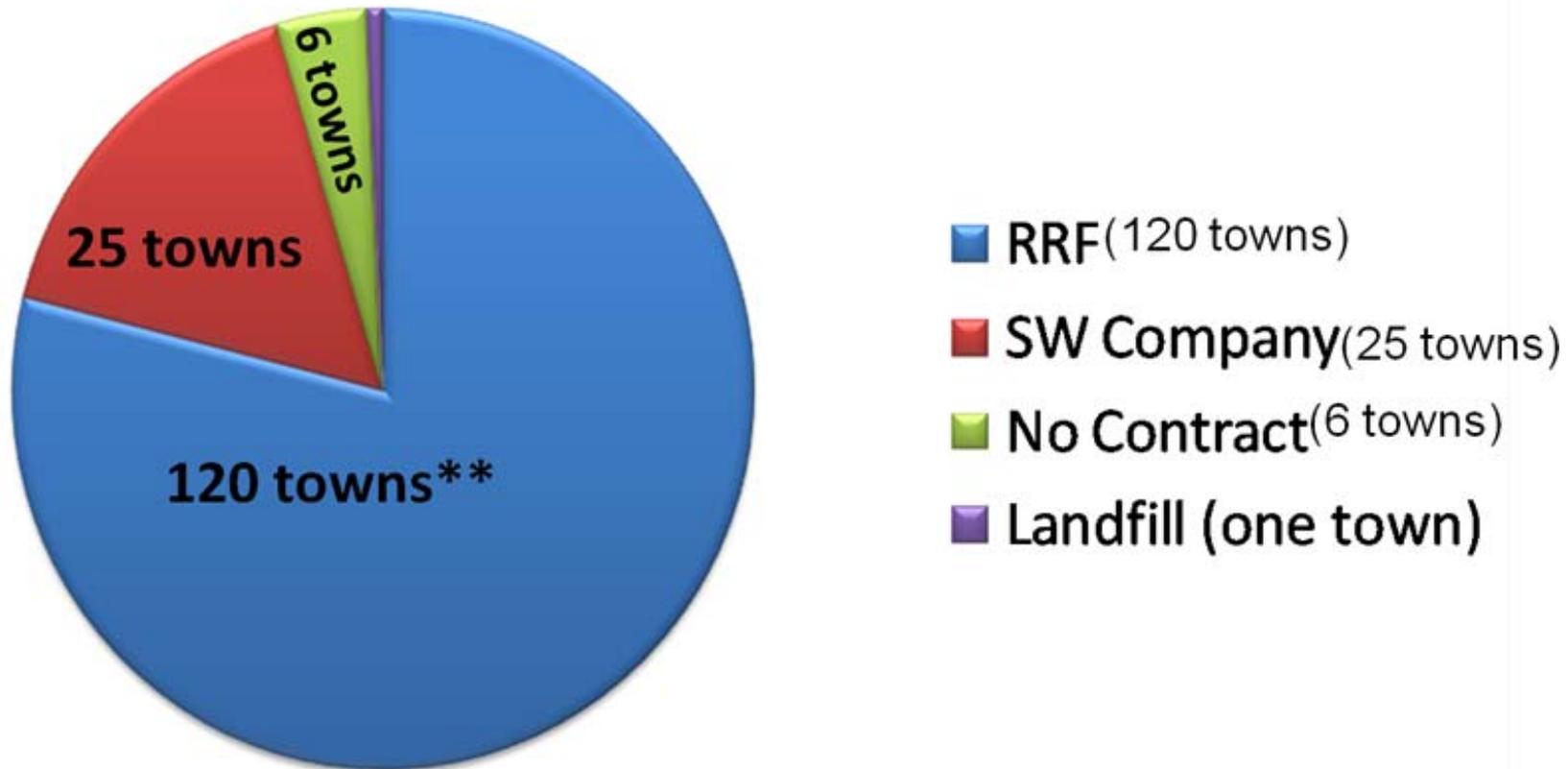
Why Now? Reason 2



Why Now? Reason 3: Limited Funds for Recycling Education & Enforcement

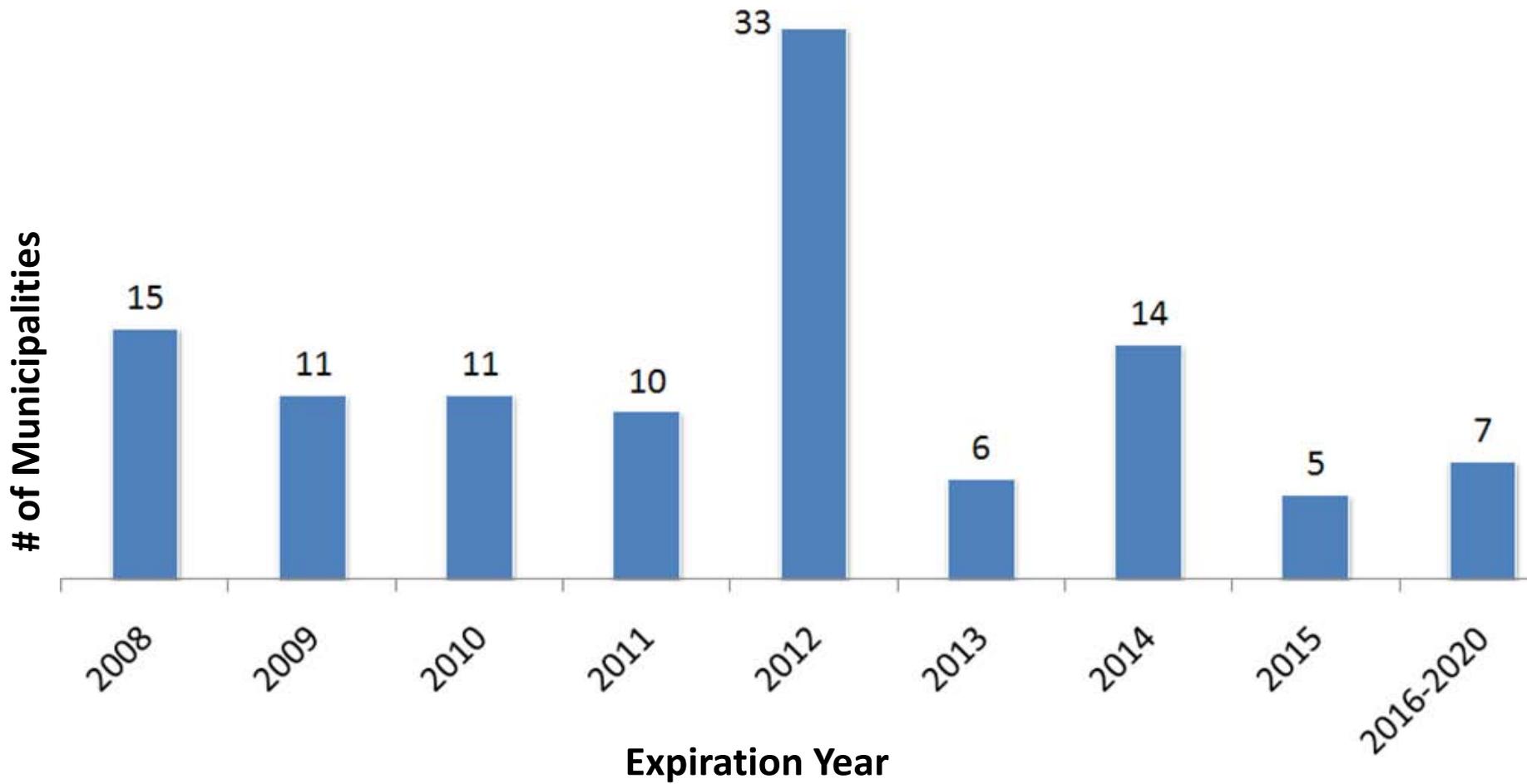
- Average annual **recycling education** expenditures **\$11,434**, or **\$0.31 per capita/year** – for the 36 municipalities (out of 150) which reported even having recycling education expenditures.
- Average annual **recycling enforcement** expenditures **\$19,795**, or **\$2.14 per capita/year** – for the 17 municipalities (out of 150) which reported even having recycling enforcement expenditures.

Number of CT Towns by Type of Municipal MSW Disposal Contract as of July 2008



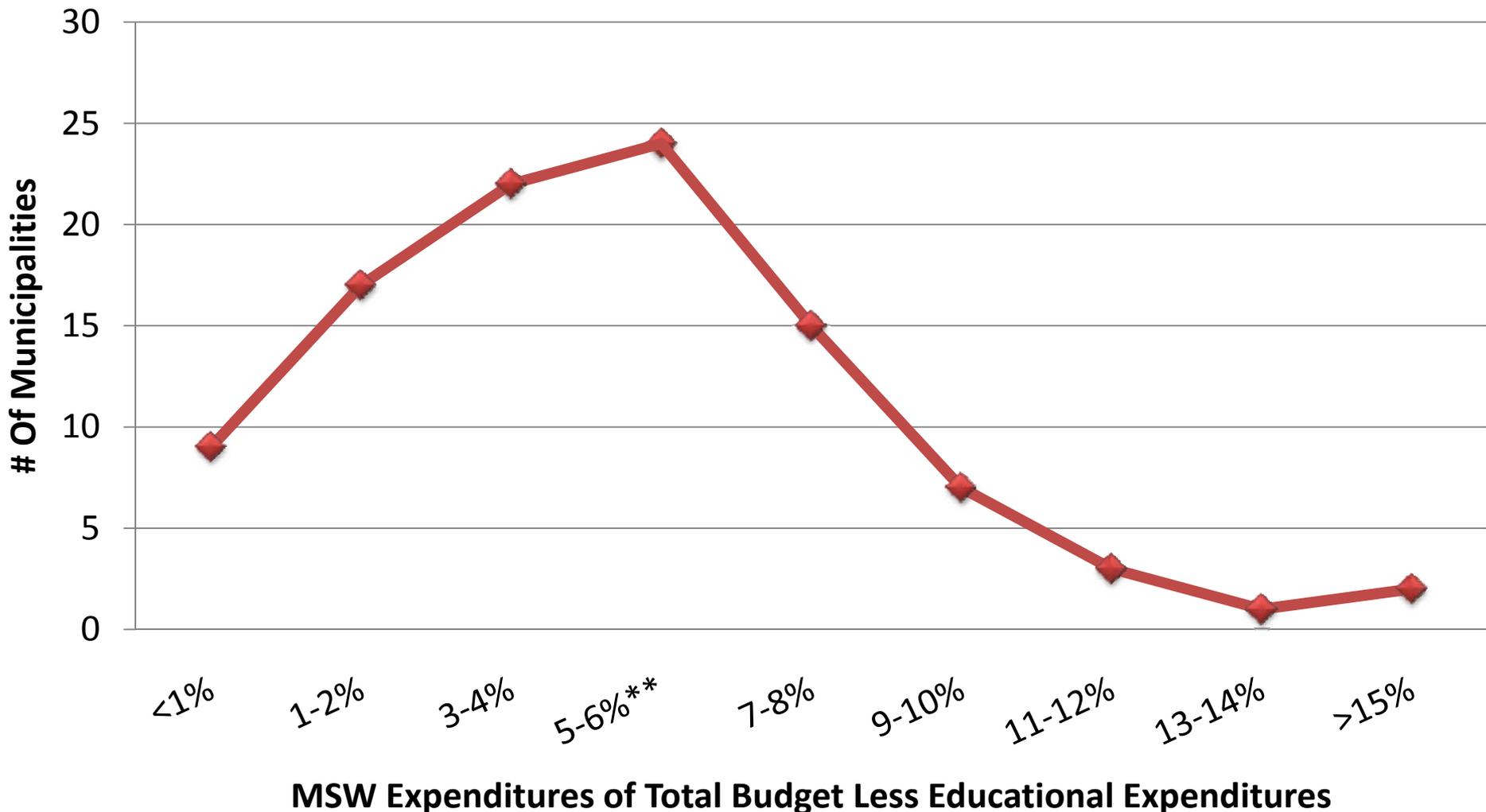
****Most contracted to a specific resource recovery facility either directly or by regional authority** Based on data received as of 01/09/2009 for 153 CT Cities and Towns

Why Now? Reason 4: Municipal MSW Disposal Contract* Expiration Dates



* Includes contracts between a municipality and a solid waste company; a RRF; a RRF through a regional resource recovery authority, regional operating committee, etc.

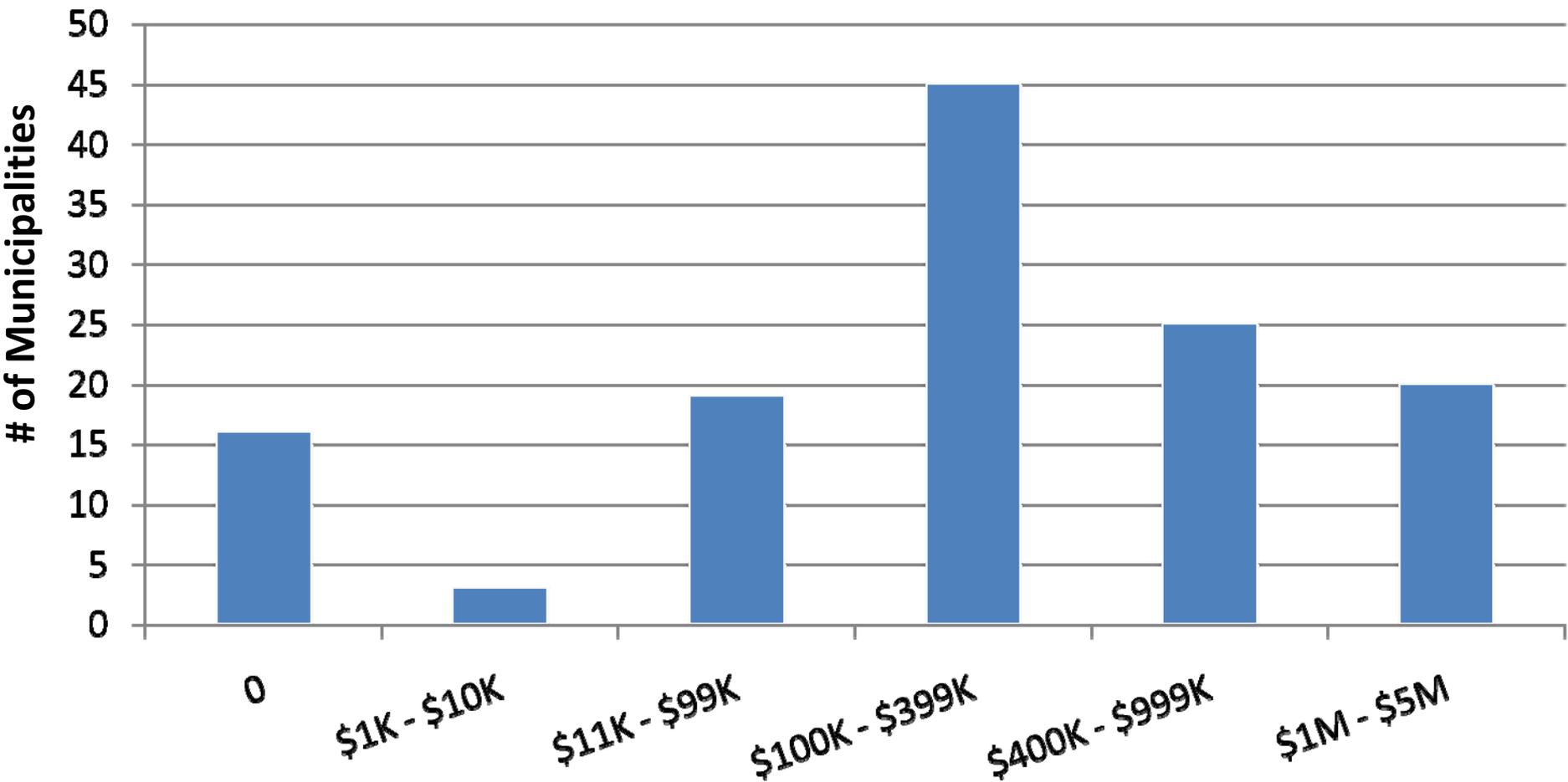
Annual MSW Expenses as a % of Total Budget



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

****Median of 5.26%**

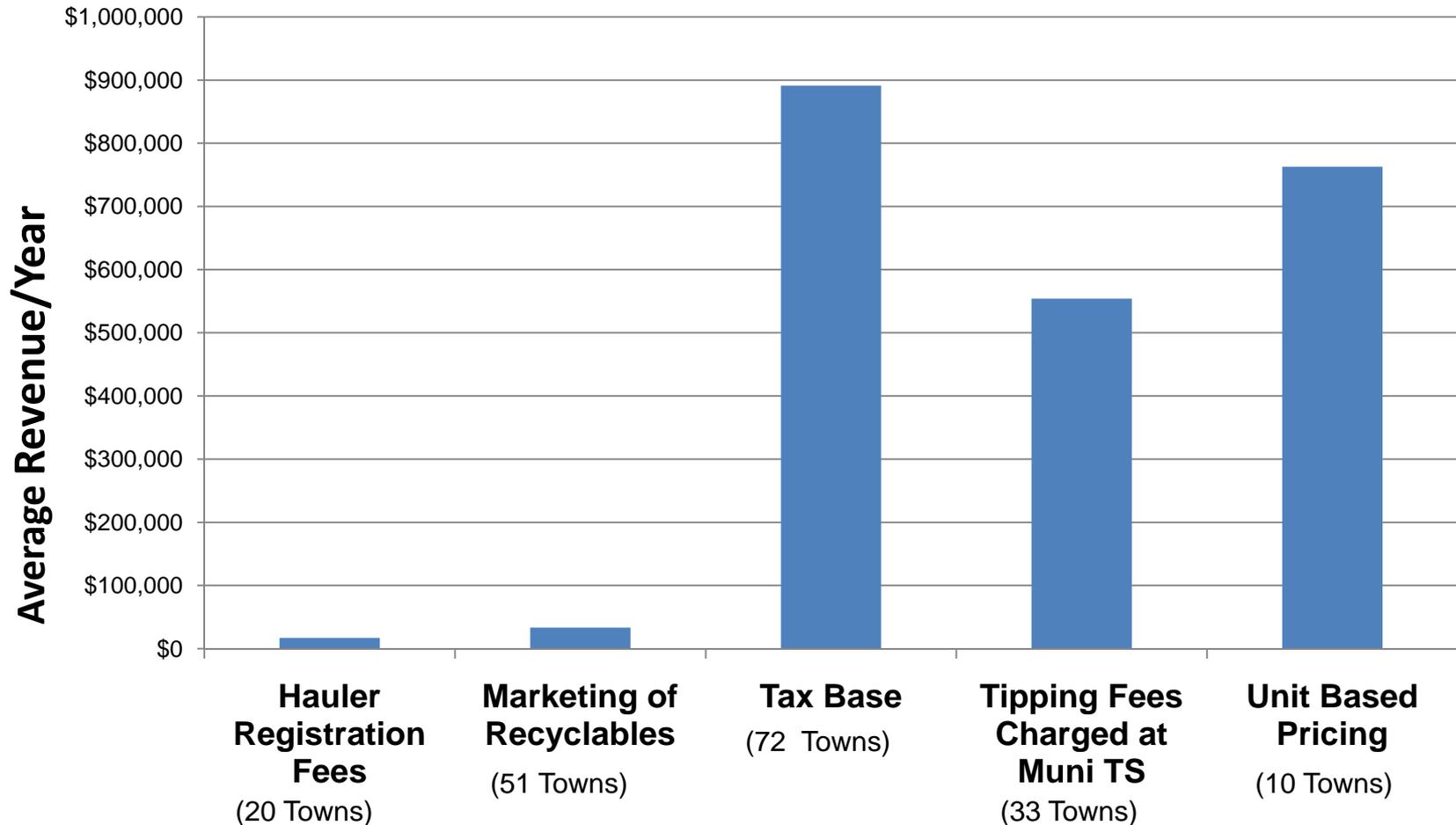
FY2008 MSW Disposal Tipping Fees Paid by Municipalities



The environmental and social costs of current disposal rates are not funny.



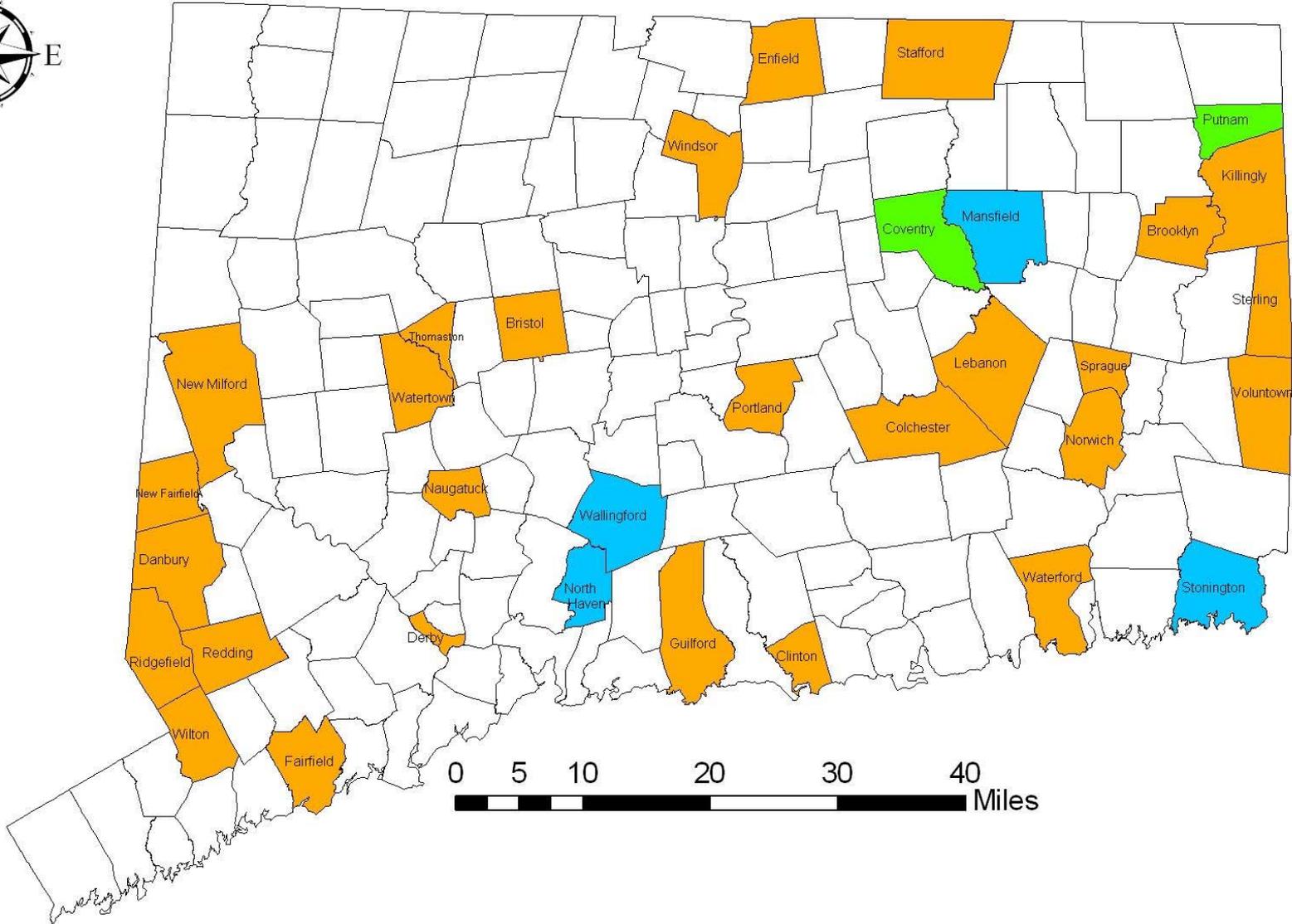
FY 2008 Annual Revenue Sources for Municipal Solid Waste and Recycling Management Programs



107 municipalities (out of the 153 surveys received) responded to this question. *Multiple responses allowed.* Average based on # of towns reporting >0 revenue for a specific source.

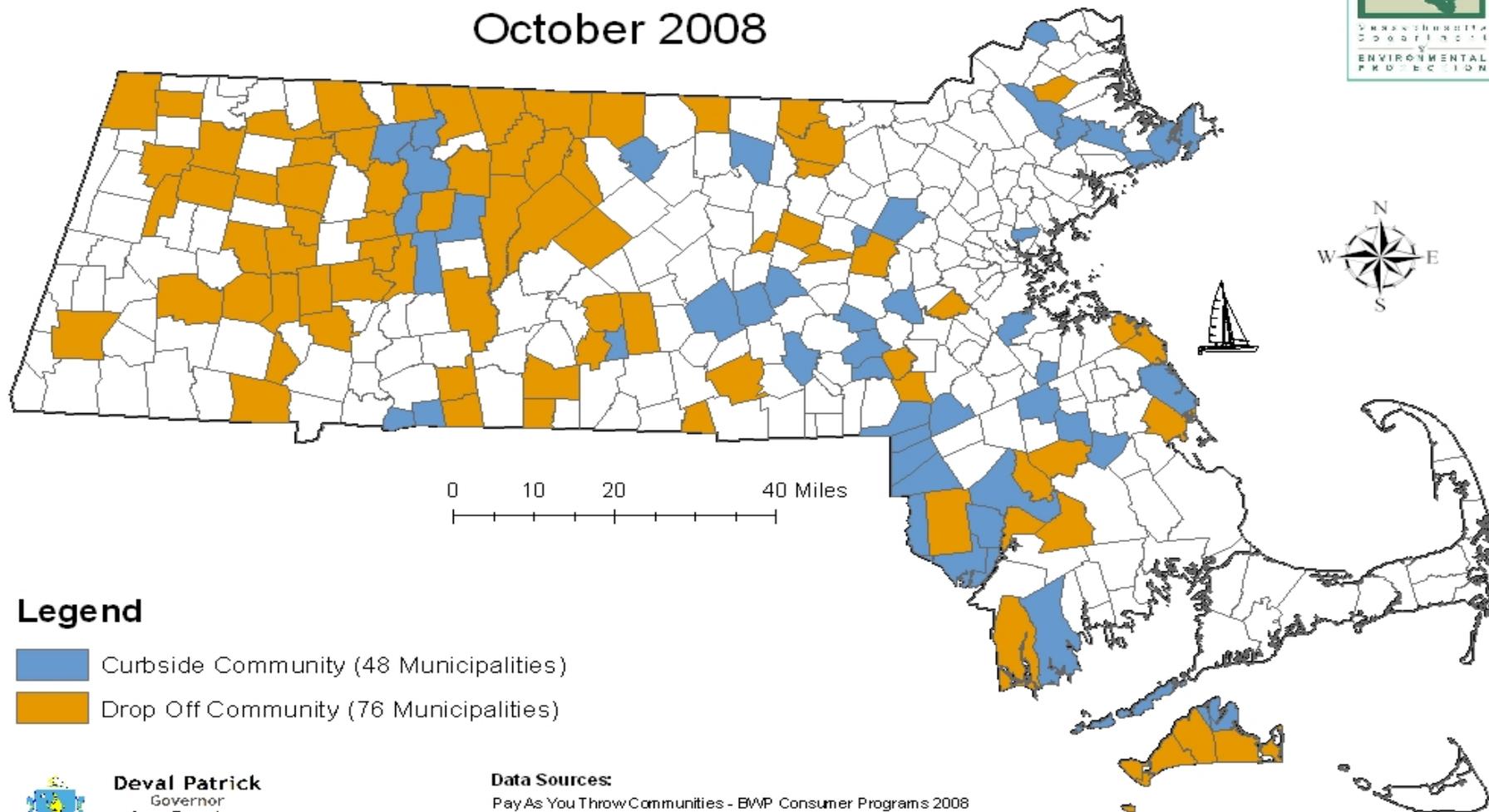
CT Municipalities with Unit-Based Pricing Programs

Unit Based Pricing in CT



MA Municipalities with Unit-Based Pricing Programs

Municipal Solid Waste Pay-As-You-Throw Communities in Massachusetts October 2008



Deval Patrick
Governor
Ian Bowles
Secretary of Energy and
Environmental Affairs

Data Sources:

Pay As You Throw Communities - BWP Consumer Programs 2008
W:\BWP\ISWM\payt\Data\paytlist.xls

Massachusetts Municipalities - MassGIS 2004

W:\BWP\ISWM\payt\graphics\GISmaps October 2008 RCLOVER

Dartmouth MA UBP start 10-1-07

GO BIG GREEN

*The numbers are in
and they're outstanding!*

First 5 months of data:

● **RECYCLING TONNAGE**  **55%**

That's an additional 18.5 tons collected per week!

● **SOLID WASTE TONNAGE**  **51%**

That's a reduction of 99.2 tons per week!!!

We value your opinion. Please participate in our PAYT survey by logging on to the Town's website WWW.TOWN.DARTMOUTH.MA.US. Survey forms can also be obtained at the DPW office, Council on Aging, and Southworth Library.

Town of Dartmouth Pay-As-You-Throw Program Participants Take Recycling to New Levels!

Dartmouth residents have gone green, making the Town's PAYT program a success. Their combined efforts have increased recycling tonnage and reduced municipal solid waste tonnage, adding valuable time to the lifespan of Crapo Hill Landfill.

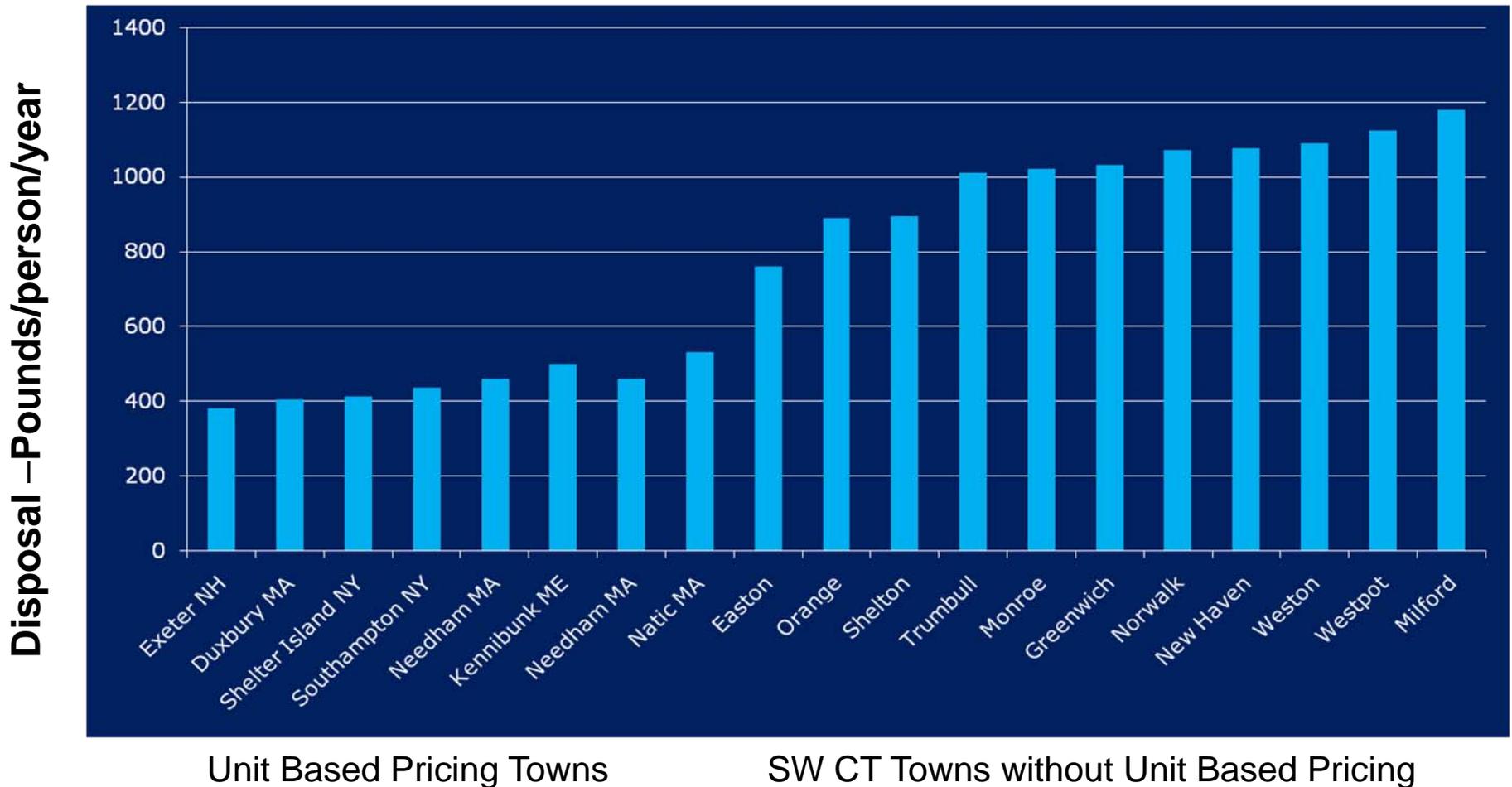
Congratulations!
**Your efforts truly make
a difference.**



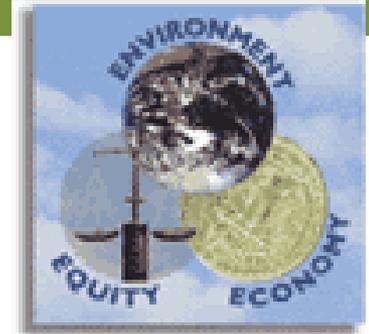
To learn more about how you can "Go Green", visit the Town's website: WWW.TOWN.DARTMOUTH.MA.US or contact the DPW office PAYT hotline at (508) 999-0740 ext. 209

Question

- How can Connecticut transfer Massachusetts' success in reducing average per capita disposal tonnages of solid waste through unit-based pricing?



Answer



- Jump on the EPA SMART bandwagon when it comes to town!
- CT built on EPA's work with one "American Big City" in CT (Bridgeport) by:
 - Concurrently hiring the same EPA SMART specialist to work with 12 towns in the Bridgeport area using dedicated, limited state funds; and
 - To create template presentation and guidebook that CT DEP can replicate for other towns as well as those 12.

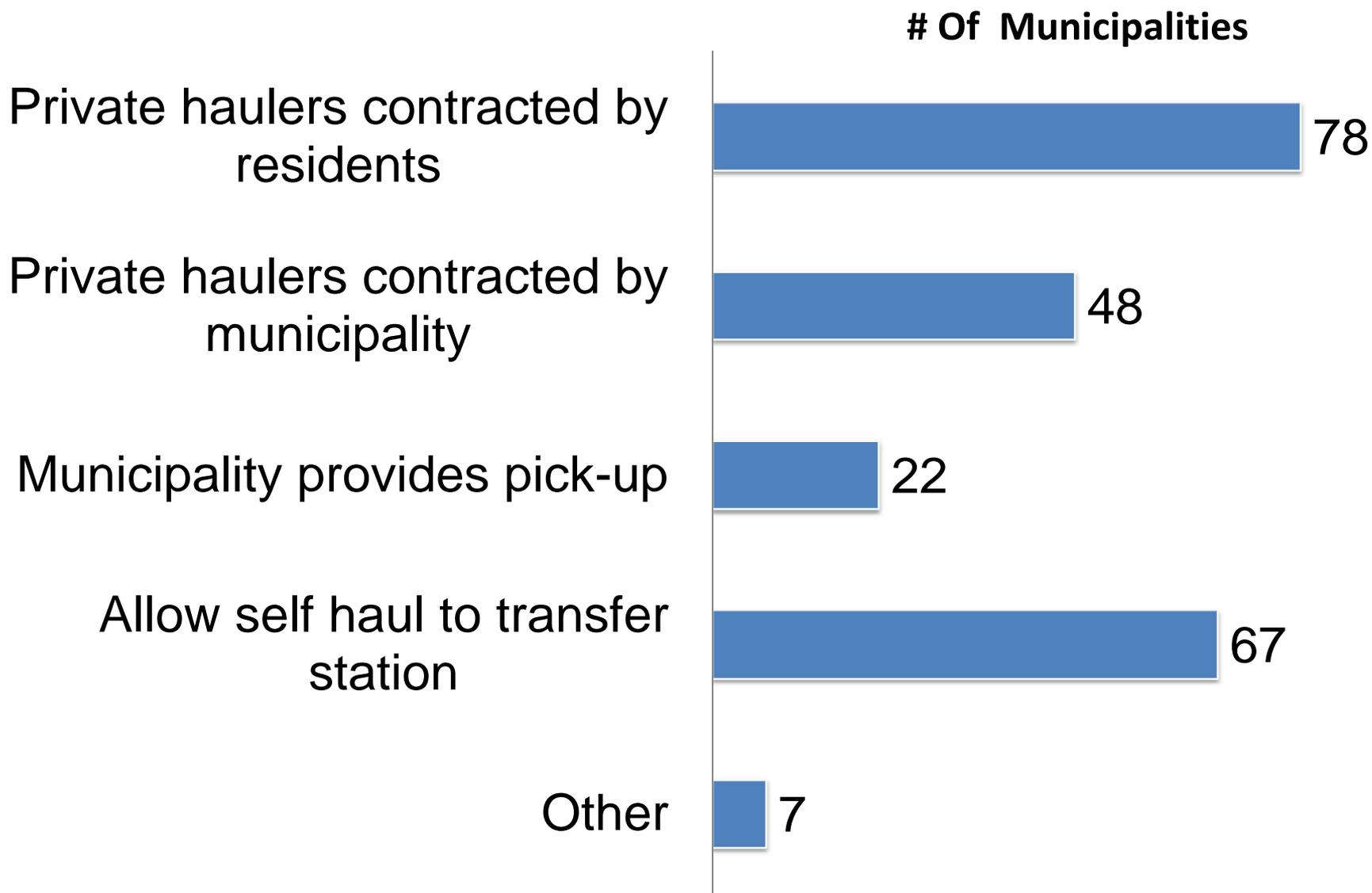
SMART is Simple

Even with variability in collection systems, SMART idea is the same for every town.

Even in CT with no county government and limited regionalism.

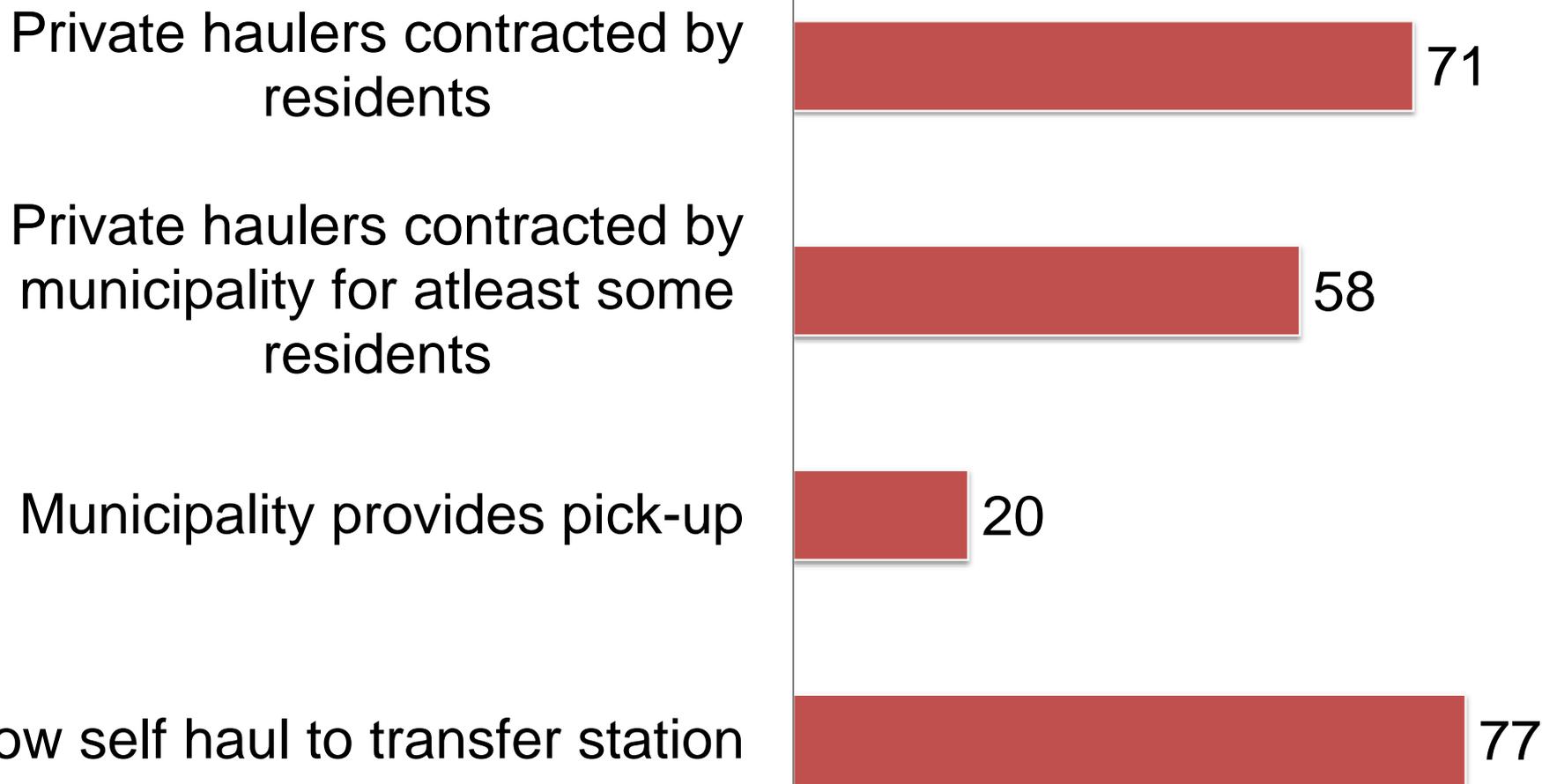


Varied Residential MSW Disposal Collection



Varied Residential Curbside Recycling Collection

Of municipalities

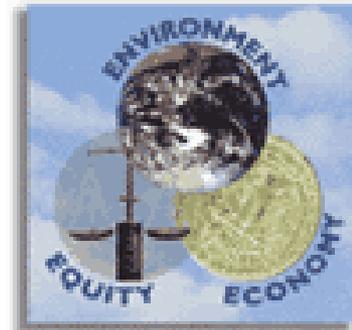


Despite these differences,

similarities can be found among towns

help towns see “if it works there it can work here”

- Municipal Collection for some cities
- Multiple Haulers (tip fee paid through tax base) for some towns
- Multiple Haulers (no tax base for tip fee)
- Annual disposal about 1000 lbs per person
- Approximately \$100 / per house hold per year for tip fees (i.e., not including the cost of collection)



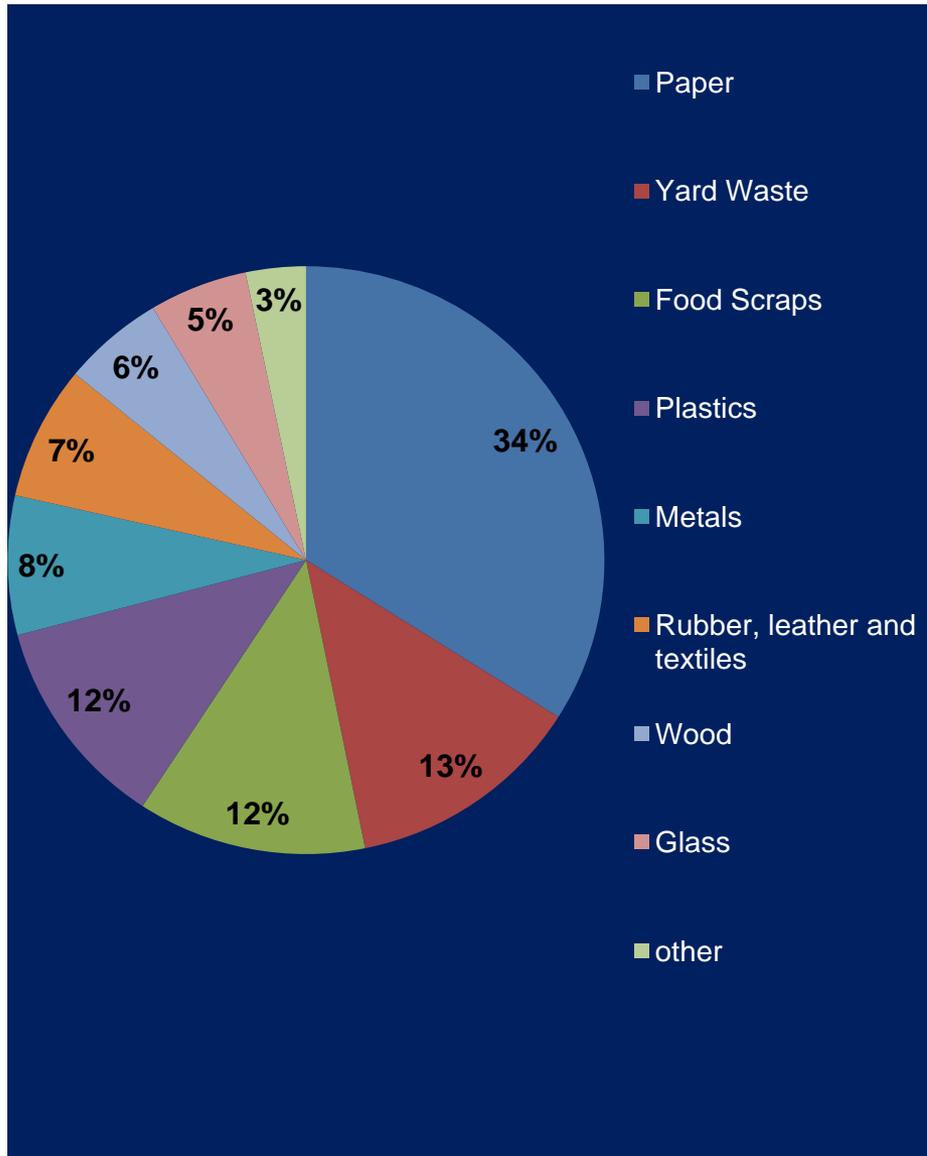
Implementing SMART Waste Management

- Evaluate individual municipality's current solid waste management strategy using standard template from EPA
 - access waste and recycling information, financial costs and funding mechanisms. Look at details on current waste and recycling contracts, and collection equipment.

- Meet with town's staff, the Mayor/First Selectman, Town Council, Public Works Officials, Finance Director and any appropriate stakeholders and organizations. Show Guidebook from EPA template laying out plan for selecting among options and getting started.

- Suggest ways in which Unit- Based Pricing (UBP) could enhance the current system and help the city meet its long-term waste minimization and recycling goals through a smooth cost-effective UBP transition.

Example of info shown to town: New Haven



New Haven	Per Capita
Paper	364
Yard Waste	138
Food Scraps	133
Plastics	125
Metals	82
Rubber, leather and textiles	79
Wood	59
Glass	57
other	35
	1072

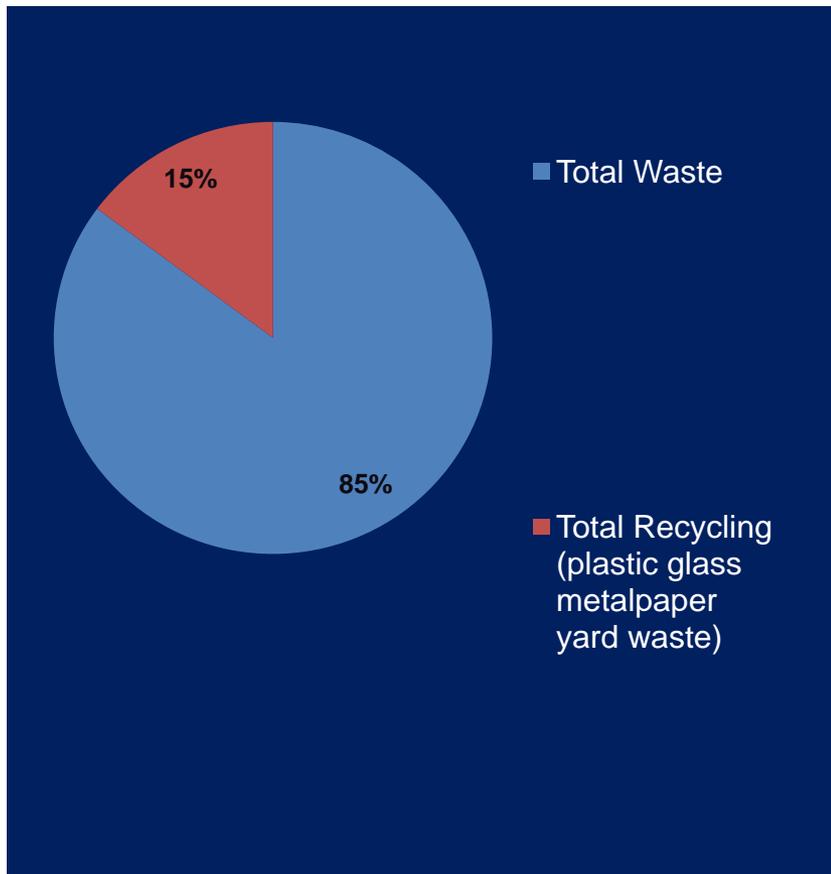
Implementation strategy examples for different towns

- Convert existing large trash totes to recyclables totes, add small totes for trash with unit-based pricing for overflow containers or bags
- Pull tip fee from tax base; switch from private subscription hauling to Municipal Bid with proportional UBP bag cost for collection and disposal
- Reduce taxes or use UBP bag costs to offset increases
- During switch to automated collection also switch to using bags as units

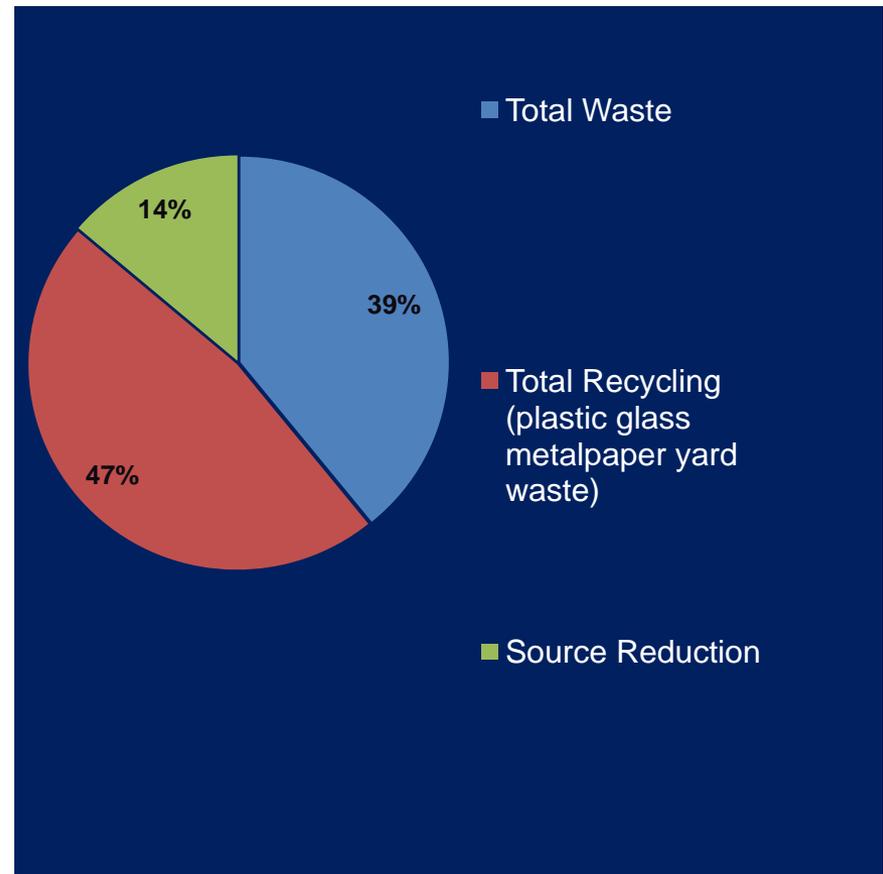


Example of info shown to town: Weston Waste Stream Before and Projected After SMART waste management

- Before SMART



Projected after SMART



Projected Benefits for 11 CT SW towns

- Reduce waste disposal
 - by 100,000 tons
- Reduce disposal costs
 - by \$8,500,000
 - Not including \$1.8 million for Big City
- Reduce Greenhouse Gas emissions
 - by 75,000 MTCE



Recap: Getting SMART about Trash



- **Mirror EPA’s customized assistance to individual municipalities**
 - to explain the environment, equity, and economy relationship of SMART waste management.
- **Ask town finance and public works directors**
 - to take an honest look at how much they are spending right now.
- **Show the costs**
 - to the chief elected official, citizens committees; include the haulers where possible.
- **Empower citizens**
 - to **control disposal costs** while **increasing** their **recycling rates**.



Thank you and good luck in
your town and state.

Diane W. Duva, Assistant Director
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