

Solid Waste Management



City of Saint Paul
Department of Public Works and
Mayor's Office
Sustainable Saint Paul

Overview

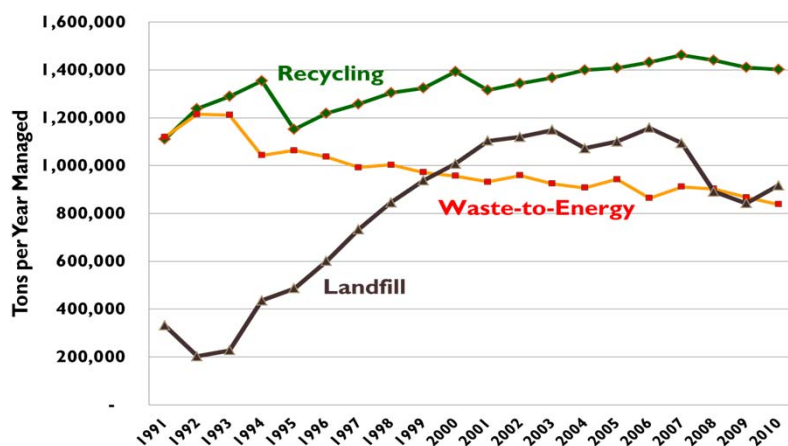
- Objectives
- Minnesota Pollution Control Agency (MPCA) & Ramsey County Goals
- Where is Saint Paul Currently?
- Other Cities
- Upcoming Service Changes
- Staff Recommendations: Saint Paul Goals
- Questions?

Objective

Staff recommendations: Set a City of Saint Paul recycling goal that at minimum meets the 2030 Minnesota Pollution Control Agency recycling goals.

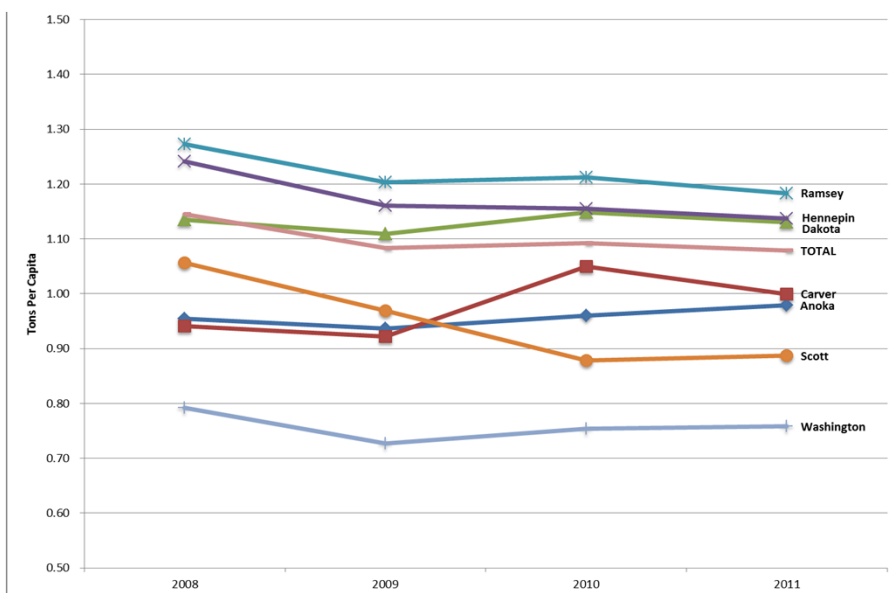
(cities' SCORE Reports are based on MPCA goals)

Waste Generation Chart: Minnesota Pollution Control Agency:
Metropolitan Solid Waste Management Policy Plan 2010-2030

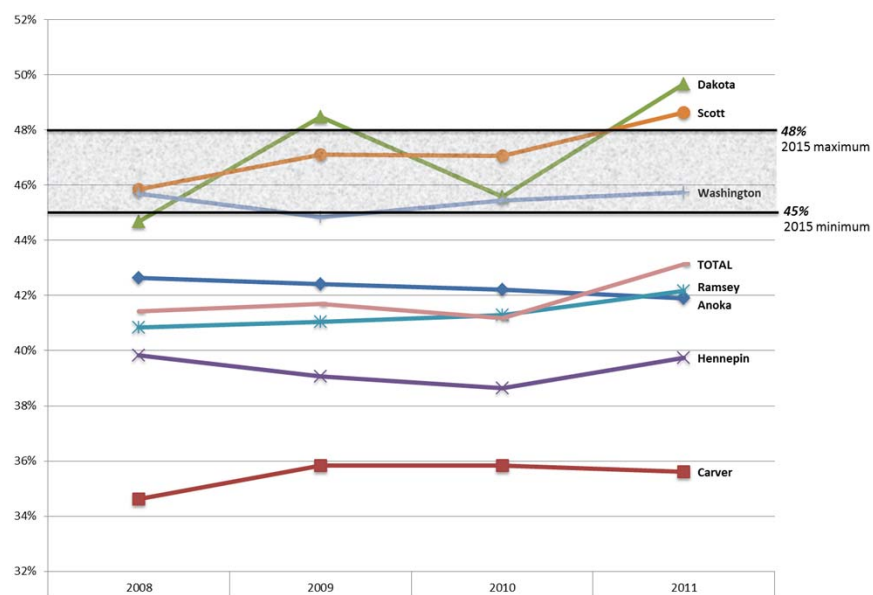


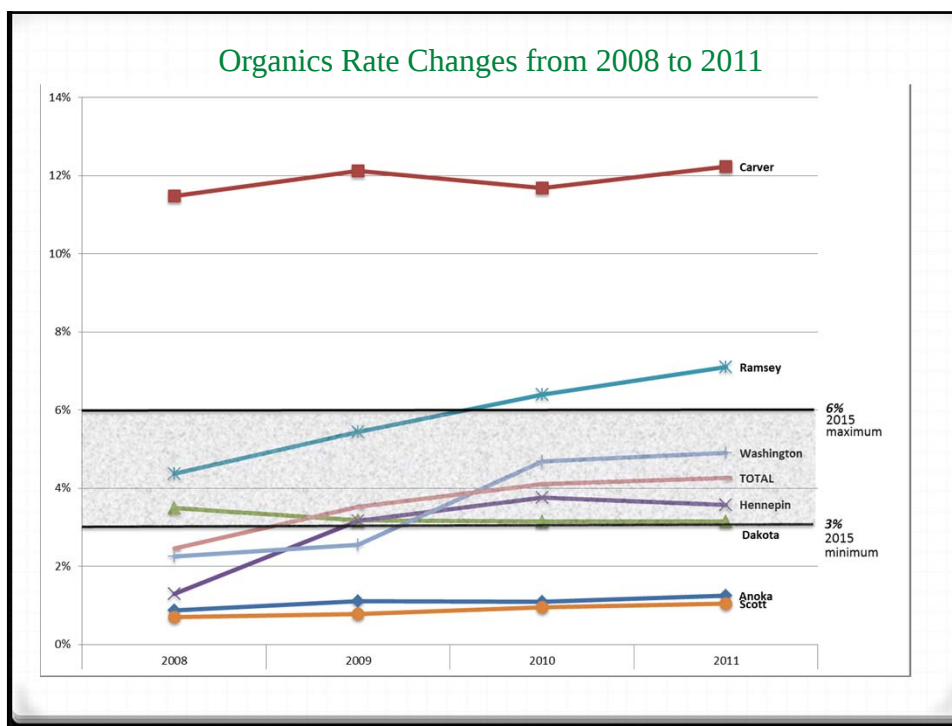
Waste-to-energy is the process of generating energy in the form of electricity and/or heat from the incineration of waste.

Per Capita Waste Generation from 2008 to 2011



Recycling Rate Changes from 2008 to 2011

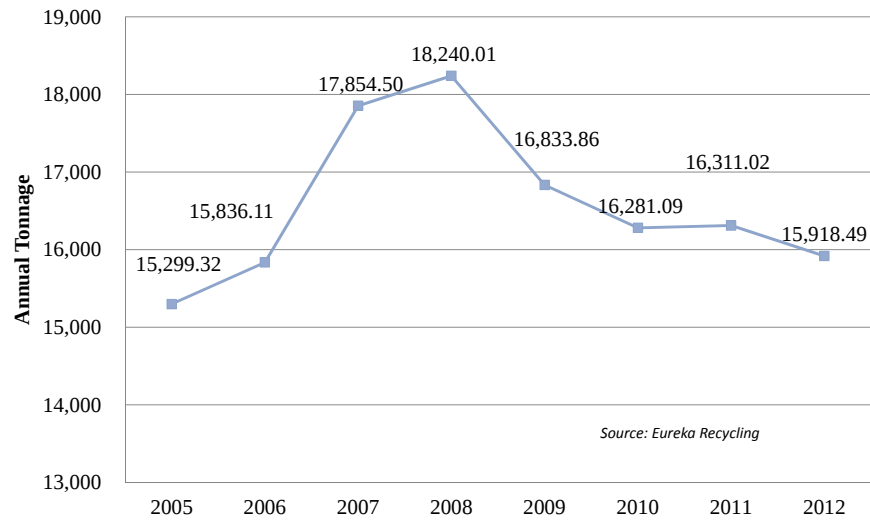




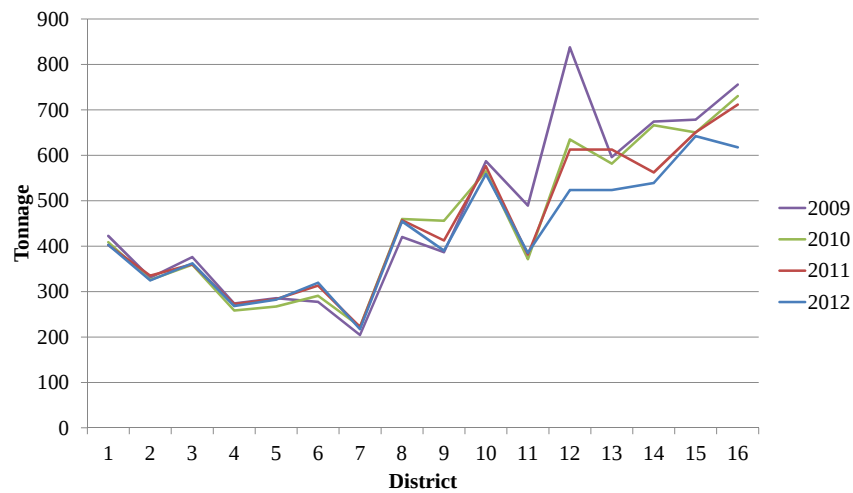
What about Saint Paul?



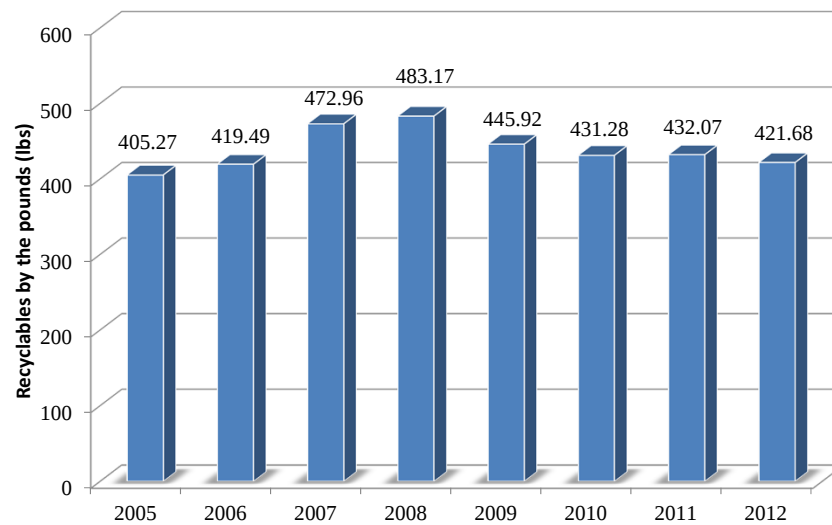
City of Saint Paul Recycling – Citywide Annual Tonnage, 2005-2012



Annual Recycling Tonnage Per Household by District, 2009-2012



Citywide Recycling Annual Average Pounds Per Household from 2005 - 2012

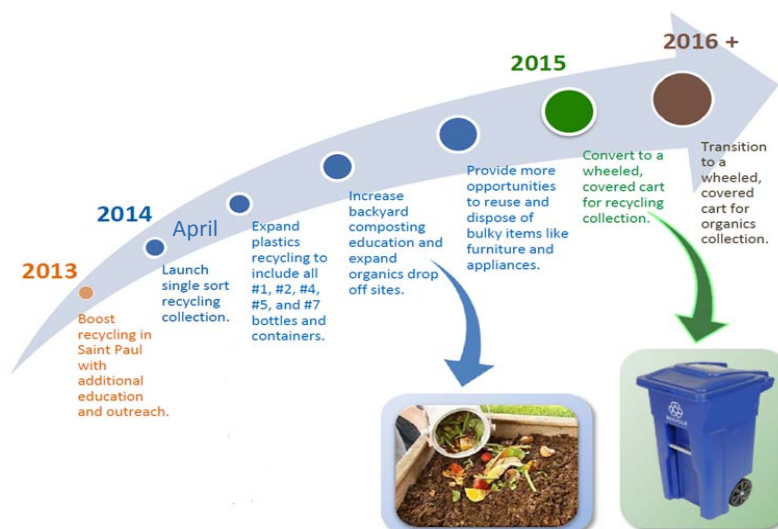


Backyard and Worm Composting

- Ramsey County – 25%
- Saint Paul backyard composting – 25%
- Mac-Groveland Pilot Project



Overview of Upcoming Changes



Overview of Upcoming Changes (cont.)

2013

- Increase education and outreach on recycling

2014

- Expand plastics recycling to include all #1, #2, #4, #5 and #7
- Launch new education campaign
- Transition to single-sort in the current blue bins
- Increase backyard & worm composting education
- Expand source separated organics drop-off sites
- Restructure community cleanups to increase participation and volume of materials collected
- Provide more opportunities to reuse and dispose of bulky items
- Expand number of recycling containers available in public spaces
- Expand recycling at events and festivals

2015

- Continue recycling education and outreach efforts
- Convert to a wheeled, lidded cart for recycling collections
- Transition to alley-collection wherever feasible (approximately 80% of the city has alleys)
- Identify options for organics collection
- Prepare recycling request for proposal
- Continue to examine options to address illegal dumping, litter and trash collection

2016

- Continue education and outreach efforts
- Select a recycling hauler in 2017
- Transition to wheeled, covered cart for organics collection
- Continue to examine options to address illegal dumping, litter and trash collection

Accomplishments

- ✓ Recycle it *Forward* Assessment Project
- ✓ Updated Recycle it *Forward* and recycling city web pages
- ✓ Continued to gather recycling set out data
- ✓ Announced and communicated upcoming recycling changes 2013 +
- ✓ Hired a marketing firm (Bieganik Strategy and Design) to develop a new brand/logo for solid waste
- ✓ Conducted Right of Way (ROW) Recycling Pilot

What's Still Ahead? (cont.)

- ☐ Continue to attend community events to educate about upcoming changes
- ☐ Continue to develop culturally-appropriate educational materials
 - ☐ Direct residential and multi-family mailings
 - ☐ City recycling guide, Ramsey County Going Green Guide, Eureka Recycling Annual Recycling Guide, other
 - ☐ Create Public Service Announcements and other how-to-videos for cable, public meetings and YouTube
 - ☐ Utilize Social Media (Facebook, Twitter, etc...)
- ☐ Plan for alley pick up and purchasing wheeled, lidded carts to replace bins
- ☐ Exploring more opportunities to reuse and dispose of bulky items
- ☐ Prepare for and select a recycling hauler in 2017
- ☐ Explore options to address illegal dumping and trash collection

Comparison to other U.S. Cities: City Goals

Saint Paul, MN

- None

Minneapolis, MN

- Double 2012 recycling rate (16.4%) by 2015
- Double 2012 tonnage from 18,000 to 36,000 by 2015
- 2017 target is 35%

San Francisco, CA

- Zero Waste by 2020

Portland, OR

- Increase recycling rate from 63% in 2007 to 75% by 2015

Seattle, WA

- Increase recycling rate to 60% by 2012* and 70% by 2025

** Did not meet goal; 2012 recycling rate was 55.7%*

Comparison to other U.S. Cities: Current services

	Maplewood, MN	Saint Paul, MN	Minneapolis, MN	San Francisco, CA	Portland, OR	Seattle, WA
Total monthly fee	\$15.73	\$30.46 (average)	\$23.66	\$34.08	Varies by service level	Free
Trash system type	Organized	Open	Organized	Organized	Open	Organized
Trash service	95-gal cart	90-gal cart	90-gal cart	32-gal cart	20-gal 35-gal 60-gal 90-gal	32-gal cart
Recycling sorts	1	2	1	1	1	1
Recycling frequency	Weekly	Weekly	Bi-weekly	Weekly	Weekly	Bi-weekly
Recycling container	18-gal bin	~14-gal blue bin	90-gallon wheeled, lidded cart	32-gal	20-gal 35-gal 60-gal 90-gal	90-gal wheeled, lidded cart

“pay-as-you-throw” systems and how it impacts garbage rates

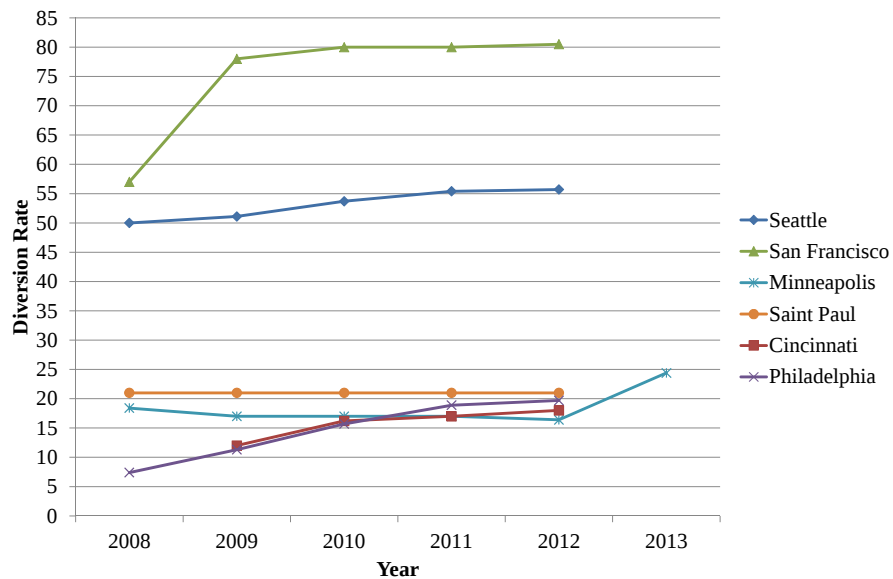
City of Seattle

Monthly Residential Garbage Can Rates

Effective April 1, 2014

Service Level (weekly)	Curb or Alley (per month)	Backyard (per month)	Weight Limit	Exterior Dimensions
micro-can (12 gallon)	\$19.45	not available	20 pounds	18"W x 15"D x 13"H
mini-can (20 gallon)	\$23.85	not available	30 pounds	15"W x 16"D x 21"H
one can (32 gallon)	\$31.05	\$43.45	60 pounds	24"W x 33"H
one 64-gallon cart	\$62.10	\$86.95	120 pounds	27"W x 29"D x 41"H
one 96-gallon cart	\$93.15	\$130.40	180 pounds	29"W x 34"D x 46"H
extra garbage (per bundle)	\$10.20	\$10.20	60 pounds	4' x 2' x 2'

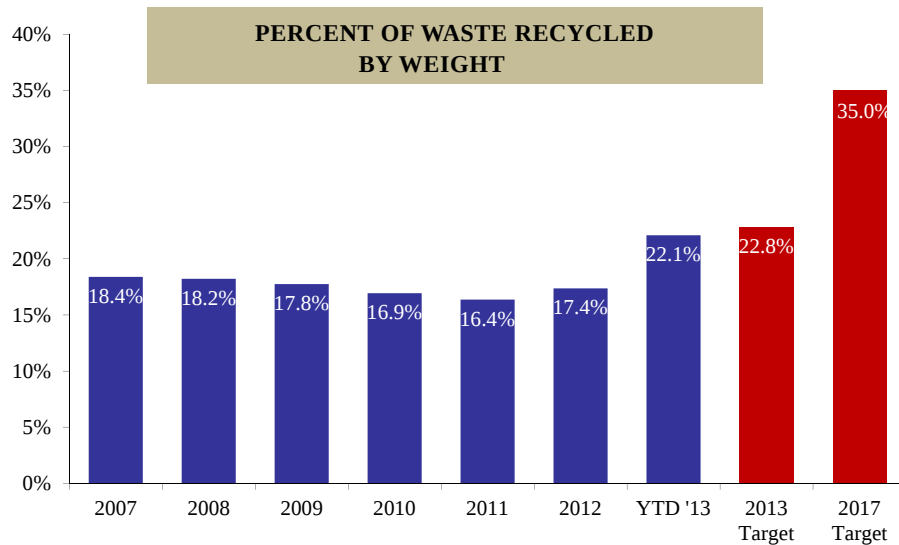
U.S. Cities Diversion Rate Comparison



Minneapolis, MN

- In the 1st full month of city-wide one-sort recycling:
 - 57.75% increase in volume of recyclables collected
 - 894 additional tons of recycling since the same period in 2012
 - Brought up the city's recycling rate from 16.4% to 24.4%
 - On track to double items collected from 18,000 to 36,000 tons per year by 2015
 - 2013 target is 22.8%
 - 2017 target is 35.0%

Minneapolis, MN (cont.)



Staff Recommendations for Recycling Goals

	State of MN 2015	Saint Paul Current	Saint Paul 2016	Saint Paul 2020	Saint Paul 2025	State of MN 2030
Participation	NA	~ 55%^	65%	75%	85%	NA
Diversion Rate*	45-48%^	20-22%	35%	45%	60%	53-60%
Annual Tonnage**		~16,500	25,000	30,000	TBD	TBD

* includes all residential, drop-off center, and community cleanup recycling tons

** includes only residential amounts

^ Minnesota Pollution Control Agency: *Metropolitan Solid Waste Management Policy Plan 2010-2030* and includes commercial as well as residential material

^^ based on city estimates and Eureka Recycling's participation trend study data

Reaching Recycling Goals

Factors to consider:

- Expected participation, diversion, tonnage increase with
 - Additional plastics being accepted in 2014 (all #1, #2, #4, #5 and #7)
 - Increased convenience of one-sort system in 2014
 - Larger wheeled, lidded carts for greater recycling capacity
 - Increased convenience of alley storage for carts in 2015

Outreach Plan of Action:

- Develop a new brand for solid waste management programs (waste reduction, recycling, composting, organics, etc.) and promote as city values
- Provide incentives for recycling; possible ideas include recycling contests; recycle and get-a-chance to win, etc.
- Conduct various workshops around the city about recycling and composting
- Increase culturally-appropriate communications materials
 - Videos, social media, direct mailing, city's web site, etc..
- Multi-family, apartment recycling outreach
- Explore small business recycling opportunities

Staff Recommendations (cont.)

Organics

MPCA's organic goals are 3-6% by 2015 and 9-15% by 2030. Ramsey County is currently at 7%.



- Increase community outreach to educate about backyard, worm composting and source separated organics drop off locations
- Increase number of households participating (backyard, drop off)
- Increase education related to food waste prevention

Staff Recommendations (cont.)

Public Space Recycling

- Increase number of recycling containers within Parks, Parks buildings (rec. centers), Municipal Athletic Fields
- Increase number of containers placed on Right of Way
- Increase Green Gathering activities and events



Bulky Item Management

- Increase participation and tons recycled, reused and properly disposed of at community cleanup events.
- Increase awareness of reuse and donation opportunities (i.e. Twin Cities Free Market)





Thank you.
Questions?