



# Recycling

March 23, 2012  
Commercial Businesses & WM New Innovative MRF

## United States Waste

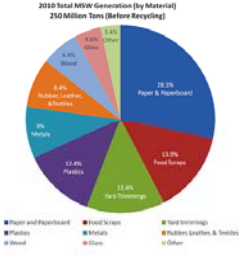


250 Million Tons of Municipal Solid Waste (MSW) in 2010




THINK GREEN:

## Materials in MSW



2010 Total MSW Generation (By Material)  
250 Million Tons (Before Recycling)

Paper and Paperboard	28.5%
Plastics	12.4%
Metals	9%
Glass	4.6%
Yard Trimmings	13.4%
Food Scraps	11.9%
Wood	6.4%
Rubber, Leather & Textiles	8.3%
Other	3.4% (before recycling)



THINK GREEN:

## Let's Talk About Your Program...

- Who recycles at home?
- Who recycles at work?
- What is working well today with your recycling program?
- What could be improved?
- Why do you think recycling is important?

-Approximately how much waste does the average American generate on a daily basis?

a) 3 lbs.      b) 10 lbs.      c) 5 lbs.



THINK GREEN:

## Why should we recycle?

- Each person creates about 4.7 pounds of waste every single day - adds up to 475 billion lbs. of trash per year - About 50% of what is thrown in the garbage can be recycled.
- WM recycled more than 10 tons of material in 2010.
  - This is enough material to fill the Empire State Building more than 14 times!
  - Or this is enough material to fill 133,000 Boeing 737's



THINK GREEN:

## Waste Stream

What can we realistically capture and how?

Paper & Paperboard:  
Paper, Cardboard, Printers  
Mix, Mixed Paper, etc.

Cardboard bales  
Bales of other materials

Rigids: plastics, metals,  
etc.

Commercial Single Stream

Dry Waste



THINK GREEN:

## What is Single Stream Recycling?



Simply stated, all recyclables are placed in a single container for collection (business & residential).

The recyclables are later sorted at the MRF for separation, baling, and direct shipping to the mills.



THINK GREEN:

## Single Stream Collection

Single Stream Recycling



YES! All in the Same Container!



THINK GREEN:

**SINGLE STREAM RECYCLING**

**ACCEPTABLE RECYCLABLES**



PAPER	CARDBOARD	GLASS	PLASTIC	METAL
 Junk Mail Telephone Books Catalogs Computer Paper Envelopes Wrapping Paper Brochures Crayon Drawings Office Paper Copy Paper	 Cereal Boxes Tissue Boxes Food Boxes Milk Cartons Juice Boxes Soda/Beer Cartons Egg Cartons (paper fiber) Paper Bags Cardboard Boxes Gift Boxes	 Juice Bottles Beer Bottles Wine Bottles Liquor Bottles Baby Food Jars Condiment Jars Jam Jars Jelly Jars Assorted Food Jars Salad Dressing Bottles	 Plastic Water Bottles Plastic Soda Bottle Plastic Milk Jugs Plastic Laundry Jug Shampoo Bottles Lotion Bottles Food Bottles Condiment Bottles Vegetable Oil Bottles	 Aluminum Soda Cans Aluminum Beer Cans Fruit Cans Vegetable Cans Pet Food Cans Juice Cans Soup Cans Sauce Cans Assorted Food Cans Metal Hangers

**No Styrofoam, Wood, Green Waste or Food Waste**  
Please breakdown all boxes.



**THINK GREEN!**

**Let's Talk About Contamination...**

- How does contamination happen?
  - Improper signage
  - Lack of training
  - Trash/recycle container is full
- Recycling that is contaminated may be taken to landfill
- Your company may be charged for excessive contamination
- Recycling thrown in the trash may be in the landfill for years to come- for instance, an aluminum can may be there for 500 years




**THINK GREEN!**

**Clean Loads: OCC / Mixed Paper**

**FEL, Toter or Roll Off Recycling**


Recyclables: loose, commingled

- Fiber: cardboard, office paper, newspaper, printers mix
- Rigids: plastic containers and buckets & pails
- Bagged stretch film





**GREEN!**

**Gasmer MRF**



State of the Art regional Single Stream facility built for Houston Adjacent to the City South Post Oak Solid Waste Service Center  
 Hours: M- F, 7:30AM - 5:00PM & when needed  
 70 ft. drive-over, fully automatic, software-driven certified scale  
 Tip floor storage capacity of 700 tons or 3 days  
 Education Center: This beautiful one-of-a-kind education center hosts tours & classes with state-of-the-art education tools teaching the fundamentals of Single Stream recycling



**THINK GREEN!**

## Single Stream- Optical and magnetic sorting of recyclables on-site improves efficiency



THINK GREEN:

## How Can I Learn More?

[www.wm.com](http://www.wm.com)  
[www.thinkgreenfromhome.com](http://www.thinkgreenfromhome.com)  
[www.wmlamptracker.com](http://www.wmlamptracker.com)

Schedule a tour at the MRF

<b>+20</b> MILLION CUSTOMERS	<b>390</b> COLLECTION OPERATORS	<b>1</b> ACTIVE WASTE TO ENERGY PLANTS	<b>294</b> TRANSFER FACILITIES
<b>11</b> INDEPENDENT RECYCLING FACILITIES	<b>5</b> INDEPENDENT POWER PRODUCTION PLANTS & PROCESSING FACILITIES	<b>127</b> LANDFILL-GAS-TO-ENERGY PROJECTS	<b>266</b> ACTIVE MUNICIPAL SOLID WASTE LANDFILLS
<b>98</b> TRADITIONAL RECYCLING FACILITIES, 32 ARE SINGLE STREAM	<b>12</b> E-CYCLING/LAMP RECYCLING/SECONDARY PROCESSING FACILITIES	<b>34</b> ORGANIC PROCESSING FACILITIES	<b>5</b> ACTIVE HAZARDOUS WASTE LANDFILLS
	<b>17</b> WASTE-TO-ENERGY PLANTS		<b>43,000</b> EMPLOYEES



THINK GREEN: