

US EPA

Sustainable Food Management "Feed People Not Landfills"

May 2nd 2012



What is "waste"?

"to fail or neglect to use; squander"

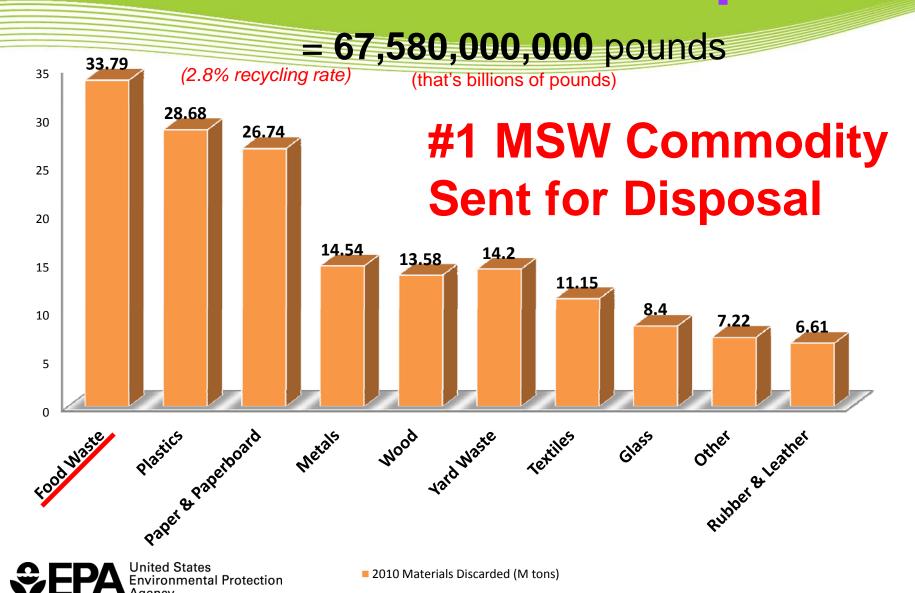
Business 101:

Waste = Inefficiency





33.79 Million Tons Disposed



The Food Waste Problem

Americans
waste
enough food
to fill the
Rose Bowl
every day.
(Bloom 2007)





Where does it all go?



SEPA United States
Environmental Protection
Agency

....to a landfill (a.k.a the dump)



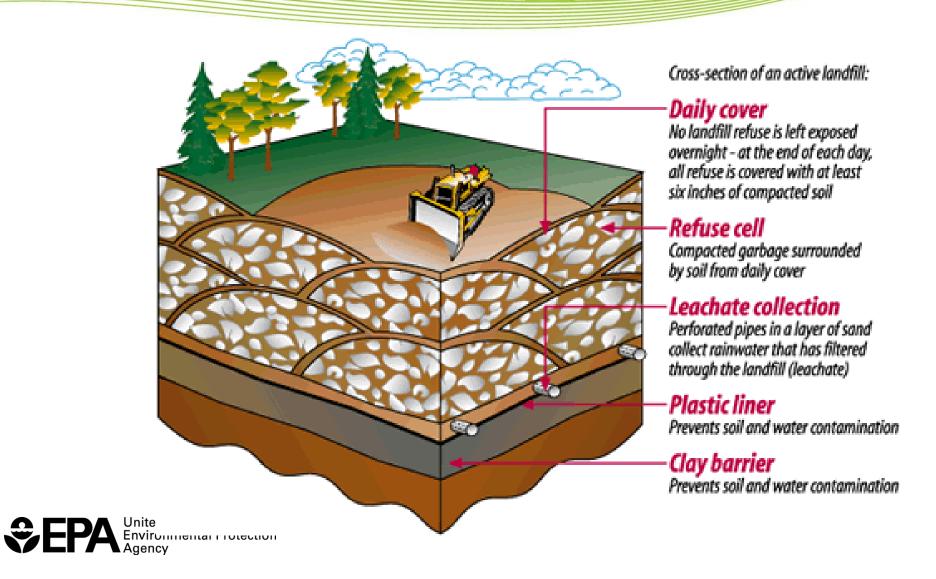
And this is a landfill





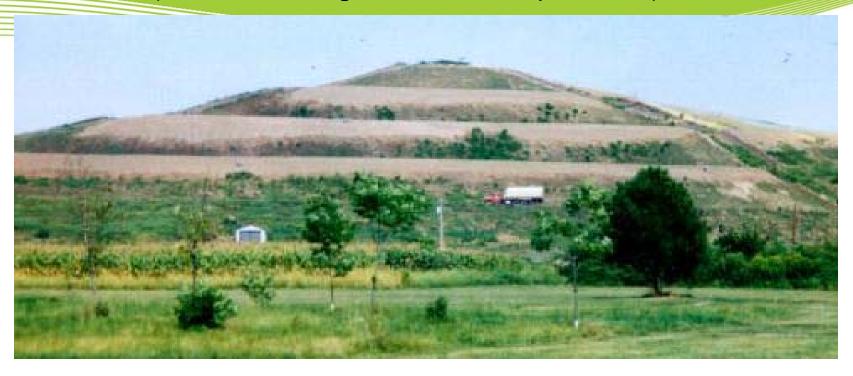


It doesn't go away ...it's neatly and safely stored in the ground



Forever – there is no "away"

(even for "biodegradables & compostables)



- * Landfills are the 2nd largest source of Methane
 - 21+ times more potent carbon dioxide
- * Generating Methane gas for decades
 - ... and food waste is a major cause of landfill Methane



HUGE wasted resource

- Even a small percentage recovered could feed millions!
- Let's first Feed People Not Landfills





Which in Turn - Feeds People

Model for Sustainability

Balancing **Profits**, **Planet**, **People**

Save Money - Labor, Products, Waste disposal costs

Protect Natural Resources

Help **People**





Sustainable Food Management

 Instead of constantly trying to manage this fast growing

waste stream ...

let's reduce it FIRST

• How? follow the

Food Recovery Hierarchy





Food Recovery Hierarchy

Source Reduction

Feed Hungry People

Feed Animals

Industrial Uses

Composting

Landfill/ Incineration





Feed People:

Families / Customers & Those in Need

- Step #1: Source Reduction reducing waste at the "source"
 - Reducing over-buying & processing wastes
 - Reducing over preps & plate waste
- Step #2: Feed Hungry People
 - Donating wholesome food, supplies and prepared foods to food banks, rescues, pantries, and kitchens



Source Reduction

"Back of the house"

- Sodexo
 - 8 college campuses cut kitchen waste by about one third, simply by tracking and monitoring food waste (2010 pilot)
- SEPA United States Environmental Protection Agency

"Front of the house"

- Virginia Tech
 - Trayless dining
 resulted in 38 %
 less food waste
 - 2008 Aramark
 study on 25
 campuses showed
 25-30% less
 wasted food from
 trayless dining

VirginiaTech Magazine – spring 2011





Donations Make a Difference!

Walmart

- 2010: donated 256 million pounds (128,000 tons) of food to hunger relief organizations.* The equivalent of 197 million meals
- By 2013, the company expects to donate more than 1.1 billion pounds of food.
- 1.1 B lbs = <u>550,000 tons</u>

- Rock and Wrap It Up
- For 20101-11 season, NHL
 Clubs provided 160,000
 meals while keeping more
 than 105 tons of food waste
 from landfills.



- 2010 rescued & distributed nearly 19.4M lbs (9,700 tons)
- 2011 on track to rescue
 25M lbs (12,500 tons)













Making the Most of Your Resources

Step #3: Feed Animals

 Local farmers or zoos use food scraps as animal feed; food scraps processed into animal feed

Step #4: Industrial Uses

 Fat, oil and grease (FOG) can be converted into soaps, cosmetics, and biodiesel fuel; anaerobic digestion of food waste for energy production w/ residuals then being composted





Making the Most of Your Resources

- Step #5: Composting
 - Composting on-site or sending to off-site composting operation
- Step #6: Landfill/Incineration
 - Last resort is disposal
 - includes anaerobic digesters where the <u>digestate</u> (<u>residual</u>) is <u>landfilled</u> or <u>WTE where the ash is</u> <u>landfilled</u>



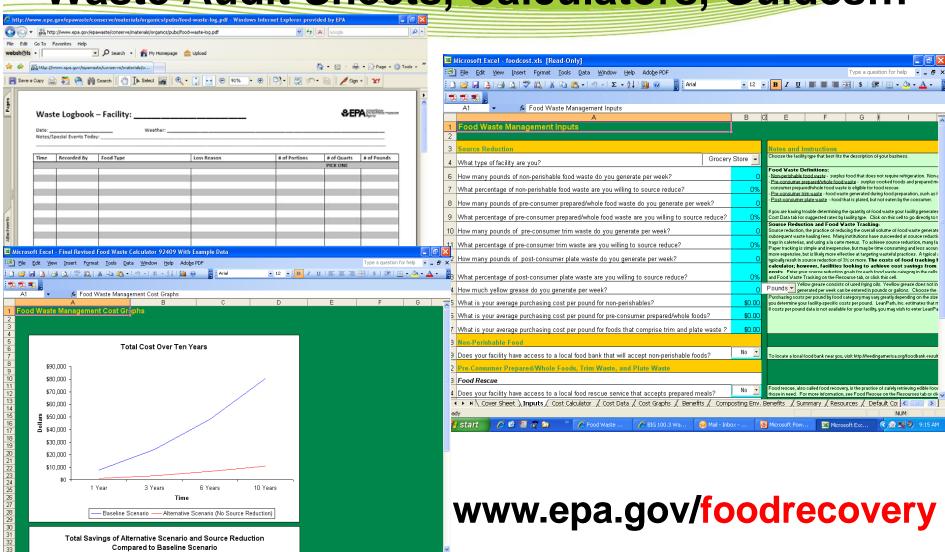
The Future?

- Connecticut Starting Oct 2011
- Passed a law that <u>requires companies to</u> <u>compost</u> if they produce more than 104 tons year of food waste & soiled unrecyclable paper. Applies to:
 - Commercial food wholesalers or distributors
 - Industrial food manufacturers or processors
 - Supermarkets
 - Resorts & conference centers



EPA Tools & Resources:

Waste Audit Sheets, Calculators, Guides...



Re-TRAC thru WasteWise

What WasteWise Re-TRAC does:

- Compiles and analyzes your waste management data and maintains historical files.
- Submits your annual data to the Food Recovery Challenge with just a click.
- Generates instant reports on program performance and trends, and calculates GHG emission reductions associated with your activities.
- Provides your official EPA Climate Profile report on an annual basis.

"The new Re-TRAC system is beyond fabulous. It really improves the data entering experience.
Thank you, thank you, thank you!!!!" - Mariah Titlow Tinger, Senior Environmental Program Coordinator, Genzyme Corporation





We Need Champions Join Us!

- Food Waste: Huge Problem & Opportunity
- Take the Food Recovery Challenge and together – let's take a bite out of food waste!
- Participating organizations can receive <u>national recognition</u> for their outstanding Challenge achievements & leadership

www.epa.gov/foodrecoverychallenge





Food Recovery Challenge

Four Easy Steps!

- 1. Assess It! Conduct baseline food waste assessment w/in first 60 days of joining
- **2.** Commit to It! Set a three year goal to increase food reduction/diversion by 5% in the first year.
- **3.** Do It! Undertake food waste reduction and recovery activities to meet your goals!
- 4. Track It! Report annually using ReTRAC



What We Can Do For You...

Recognition

- >Website
 - >Tools & Resources
- > Awards
- >Case Studies







What You Can Do ...

Reduce your costs
Improve your image
Feed your communities
Protect your environment





We Need Champions - Join Us!

To Do List:

- Join Us at:
 - www.epa.gov/foodrecoverychallenge
- Do a Waste Audit Know What You Throw
 - (free tools on Food Recovery & WasteWise web pages)
- Contact Your Local Food Bank & Rescues
- Find a Local Composter (www.FindAComposter.com)
- Modify Your Service Contracts





Thank You

Questions?

For more info ... www.epa.gov/foodrecovery

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www.epa.gov/foodrecoverychallenge



