Federal Food Waste Workshop June 12, 2014

Rob Guillemin Anne Fenn

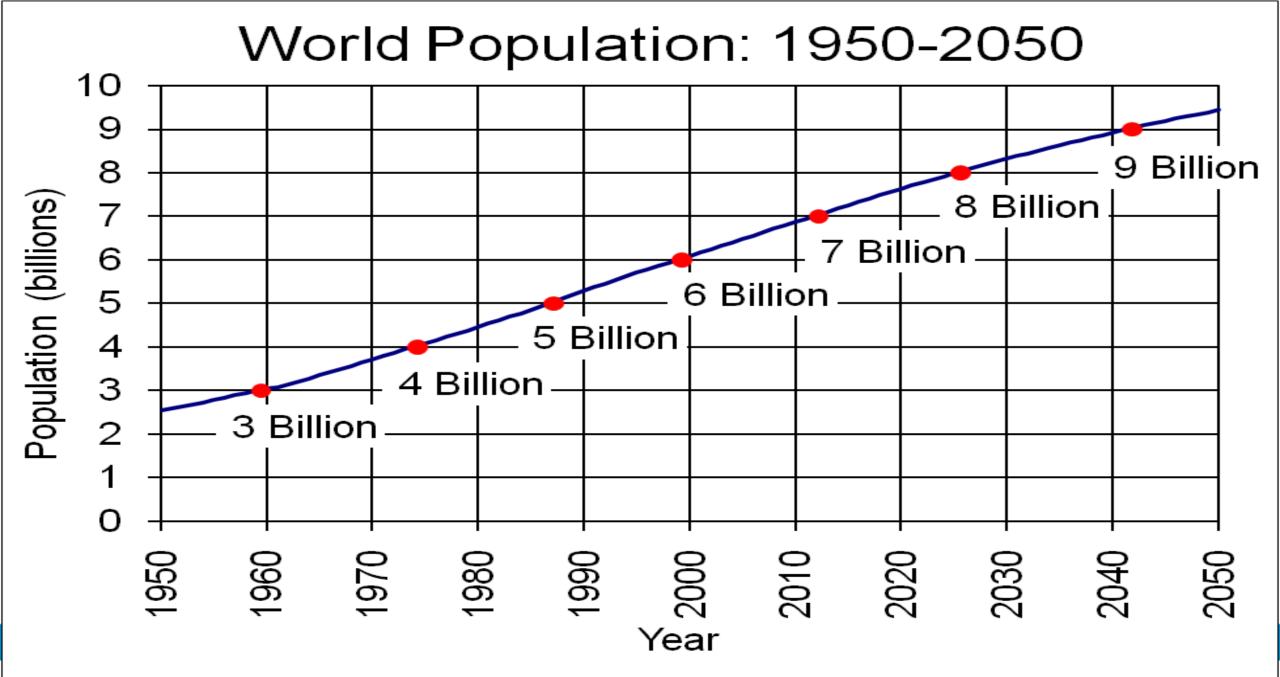
EPA Region 1



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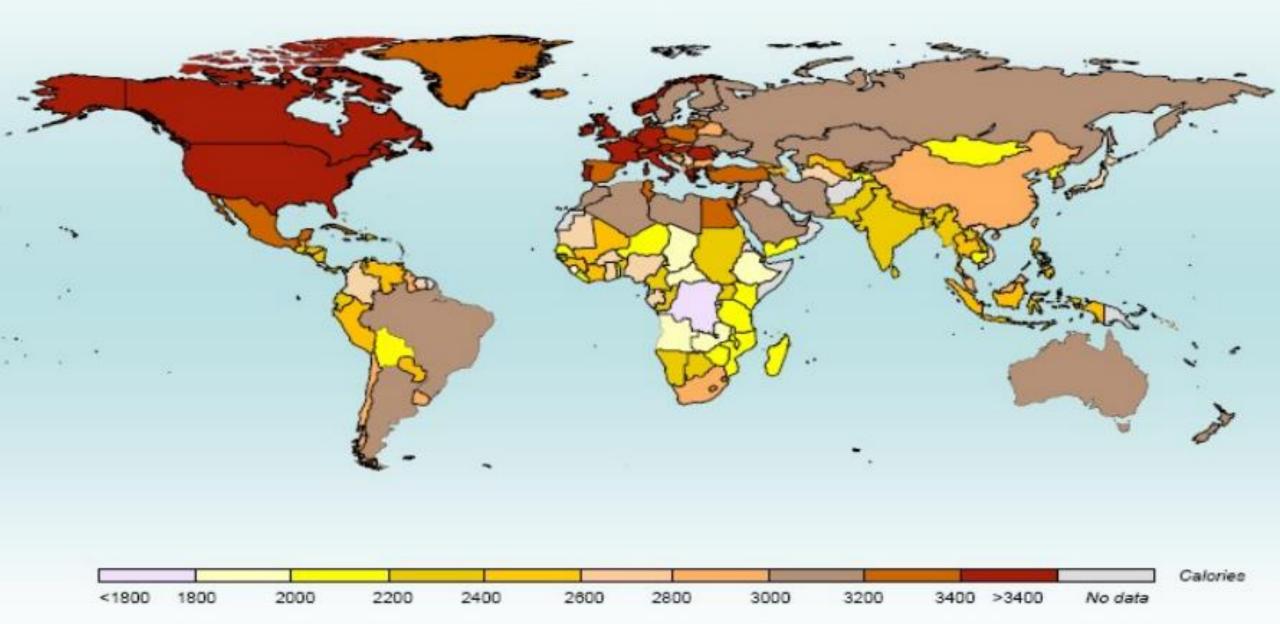
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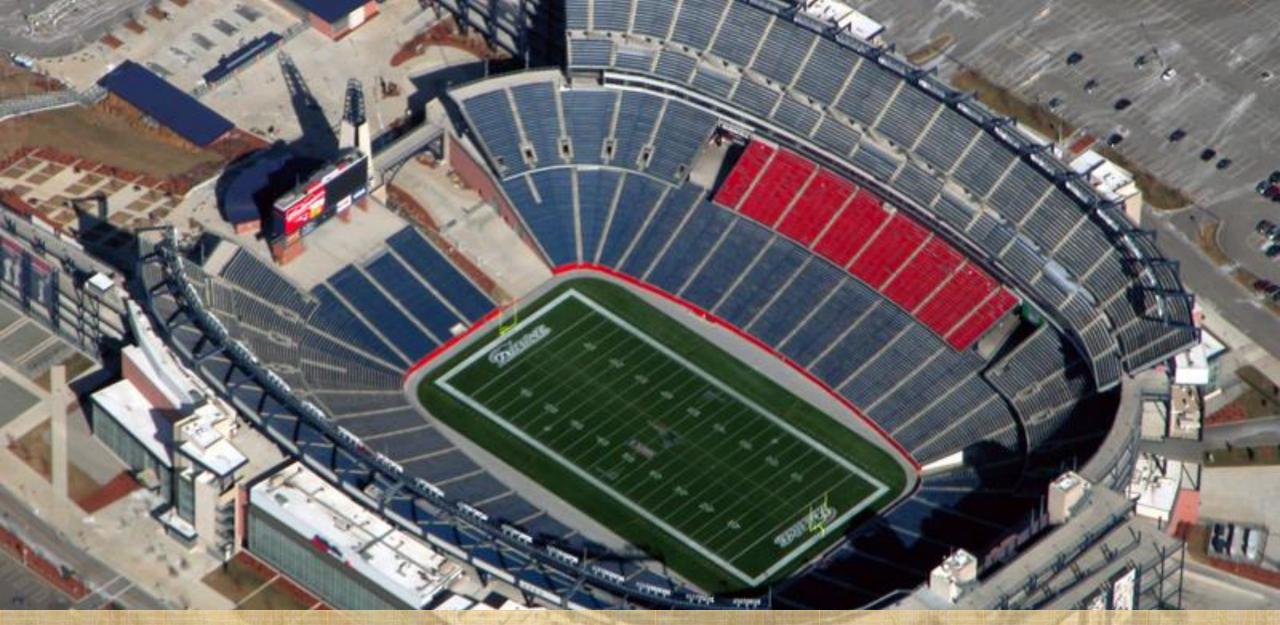


Source: U.S. Census Bureau, International Data Base, June 2011 Update.

Dietary Energy Supply *

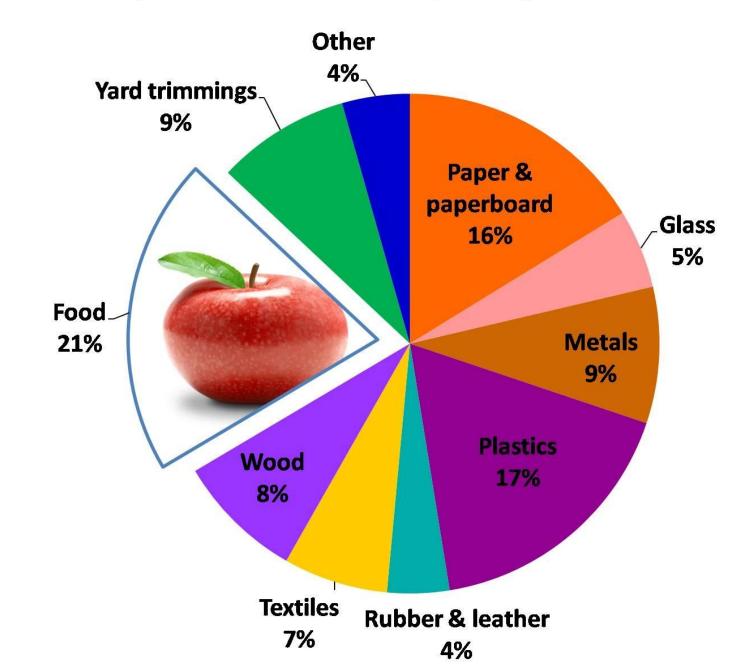
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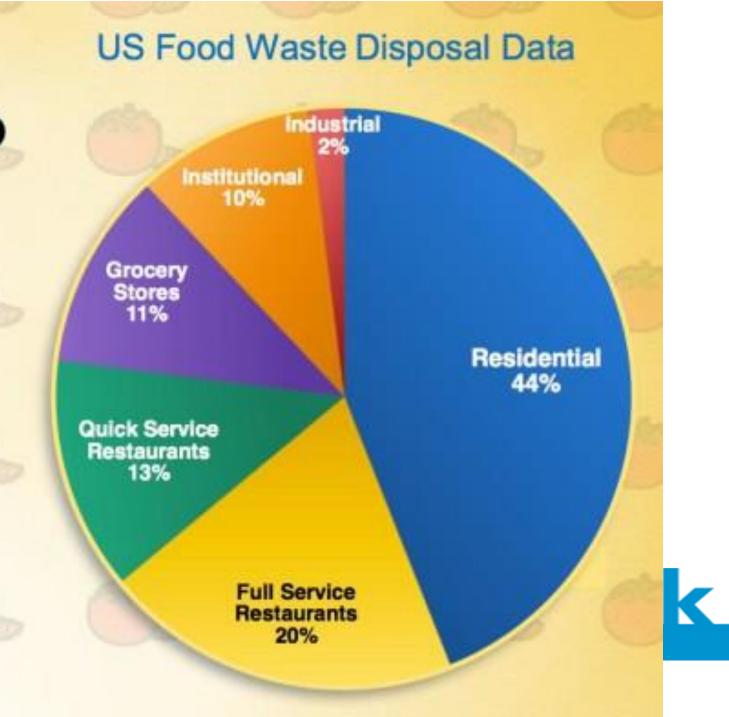
Americans waste enough food to fill the "Rose Bowl" every day. (Bloom 2007)

Municipal Solid Waste Disposed, in U.S. 2010





20% - 40% of all food grown and processed



How much food are we throwing away <u>every year</u>?

- In total, just under 34 million tons of food waste was disposed of in landfills/incinerators in 2009 (14% of the country's total waste stream)
- Less than 3% of food waste was recovered for recycling (composting) in 2009 (EPA, 2010)





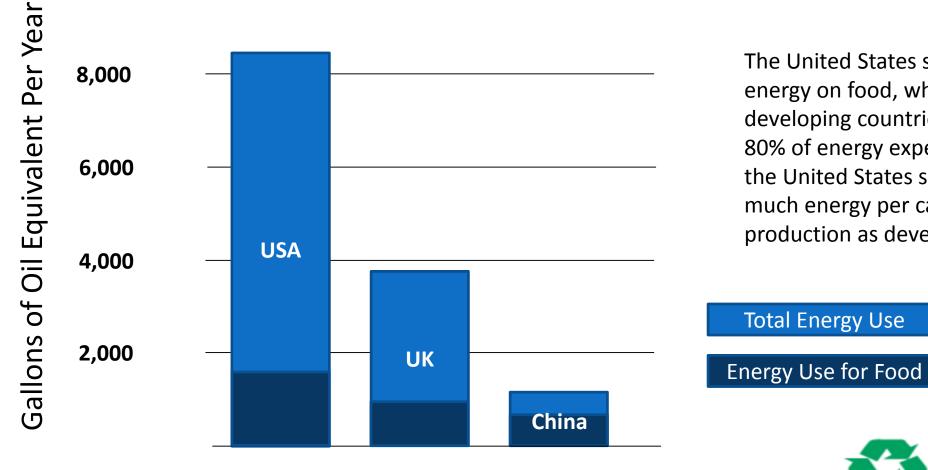
2009 Materials Discarded (M tons)

Food waste is a problem because it impacts the economy.

- Financially, wasted food costs America more than \$100 billion annually (Bloom, 2007)
 - Disposal cost of municipal waste management
 - Over purchasing costs
 - Cost of lost energy



Energy Consumption Rate Per Capita (gallons of oil equivalent per year)



The United States spends 19% of total energy on food, while food production in developing countries represents 50% to 80% of energy expenditures. Nonetheless, the United States spends three times as much energy per capita on food production as developing countries.

Source: Pimentel "Food, Energy, And Society," CRC Press (2008), p. 7.

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Rethink

It impacts society.

- 50 million Americans, or 14% of American households, were food insecure in 2009 (USDA).
- Food insecurity can increase the likelihood for an individual to have major health concerns.





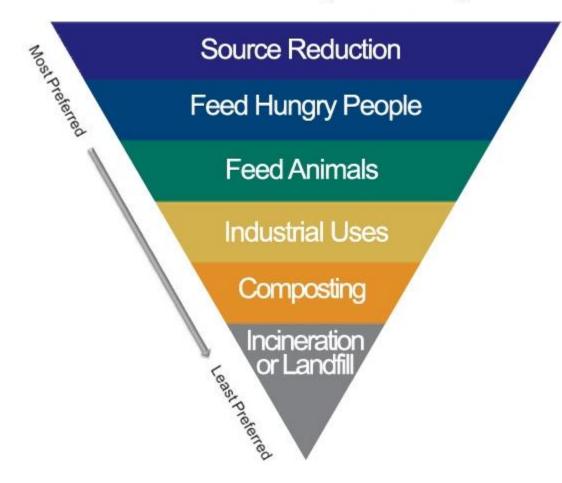
It impacts the environment.

- Food that enters a landfill produces methane, a greenhouse gas with 21 times the warming potential of CO₂
- Food production impacts water quality, soil productivity, and contributes to about 13% of the nation's greenhouse gas emissions.



EPA United States Environmental Protection Agency

Food Recovery Hierarchy





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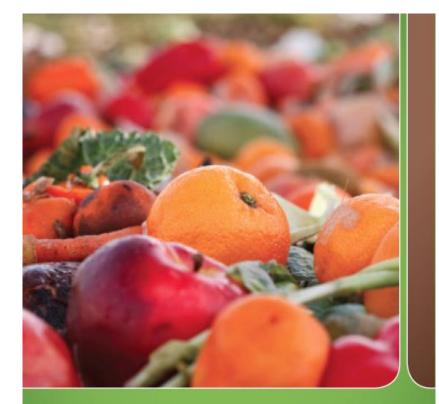
Federal Green Challenge Food Waste Goals

Municipal Solid Waste (MSW) Diversion Data:

ACTIVITY		BASELINE YEAR AMOUNT (TONS)	FIRST YEAR'S GOAL (% INCREASE)		
MSW Prevented/Source	Reduced				
MSW Reused					
MSW Donated					
MSW Recycled					
MSW Composted					
Total Tons Diverted					







Reducing Wasted Food & Packaging: A Guide for Food Services and Restaurants United States Environmental Protection Agency

SEDA



EPA's Toolkit for Reducing Wasted Food and Packaging *A Guide for Food* Services and Restaurants

http://www.epa.gov/foodrecovery/tools/index.htm



Toolkit for Reducing Wasted Food and Packaging The Materials

- Customized logs and Excel Spread Sheet
 - Track daily amount, type and reason for wasted food & packaging
 - Tool generates customizable paper logs
 - Enter data into Excel spreadsheet tool
 - Tool creates graphs and data summaries to identify patterns

Guidebook

- helps turn audit results into action





Step 3: Data Entry

The Data Entry form should be filled once a week by the appointed food waste manager using information from the collected Data Collection sheet. As data is entered here, please convert to units of weight (in pounds) for each food waste or packaging type. If nec please use the **Conversion Helper** tab to help convert the individual food and packaging items listed on the data collection sheets into units of pounds.

Once the data has been entered, please click on the "Store Data" button. A summary of the data entered throughout the audit will be displayed on a Data Summary tab. The "Clear Data" button will clear the data entry tab so that the next week's food and packagi waste data can be entered.

Week starting date for food waste audit:	Monday, June 16, 2014	-	Store Data	Clear Data	
How many different venues are included in the audit for the selected week?	1	-	Store Data	Clear Data	

Food waste managers that have communicated with their kitchen staff to track individual food waste types (e.g., "hot dogs") can use the following buttons to add a user-specified row to the data entry tables below. Throughout the food waste audit, food waste managers will now be able to enter food or packaging waste amounts (in pounds) for individual material types.

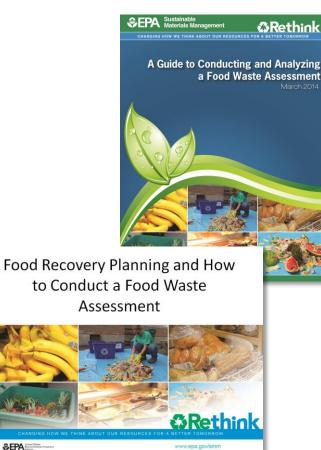
Add Kitchen Food Waste Row

Add Kitchen Packaging Waste Row Add Plate Waste Row

		Food Waste Audit for Week Starting Monday, June 16, 2014												
Venue Name														
		Monday			Tuesday			Wednesday		Thursday				
	Recorded By (Name)													
	Daily Event													
	(e.g., lunch, special event)						_							
Kitchen	Quantity of Waste			Waste			Waste			Waste			Waste	
Food	(ENTER POUNDS)	Pounds of Waste	Loss Reason	Destination	Pounds of Waste	Loss Reason	Destination	Pounds of Waste	Loss Reason	Destination	Pounds of Waste	Loss Reason	Destination	Pounds o
Waste	Protein													
	Grain													
	Fruits and vegetables													
	Dairy				× .									
	Other				Ī									

				-						
	Recorded By (Name)									
	Quantity of Waste									
	(ENTER POUNDS)	Pounds of Waste	Waste Destination	Pounds o						
Kitchen	Paper									
Packaging	Cardboard									
Waste	Aluminum									
waste	Steel									
	Container plastic									
	Other plastic									
	Glass									
	Other									

Conducting a Food Waste Assessment





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The Materials

- Guidebook
- Narrated Slideshow

Contact Information



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