

Prood waste: Trends Sources Contributing factors Why we should be concerned about food waste Tips for reducing food waste in the home



How much food is going to waste in the US? Up to 40% of food in the US is lost. Other studies estimate 25-30% (post harvest) For a studies estimate 25-30% (post harvest)

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How much food is going to waste in the US?

Enough food to fill the Rose Bowl <u>every day</u>.

• Source: Bloom, J. American Wasteland: How America Throws Away Nearly Half of Its Food (and What we Can Do About It).



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How much food is going to waste in the US?

~20 pounds of food per person per month



Source: Natural Resources Defense Council, August 2012; Buzby, Wells, and Hyman, USDA ERS; The Estimated Amount, Value and Colories of Postharvest Food Losses at the Retail and Consumer Levels in the US, 2014; Hoover D. Estimating Quantities and Types of Food Waste at the City Level, NROC, 2017.

Let's talk about it...... How much food do you throw away?



| Food Waste Journal Superior to the state of | | | | | |
|--|--------|--------------------|---------------------|-----------------|--|
| Food | Amount | Method of Disposal | Why it was Disposed | Estimated Value | |
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Three Types of Food Waste

- Avoidable: Edible foods and beverages that were thrown away.
 Crust cut off a sandwich
- Possibly avoidable: Edible foods and beverages consumed by some but not others.
 Peel of a carrot; skin of a baked potato



Source: Kelleher and Robbins, BioCycle, August 2013

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What types of foods/beverages are wasted? Added sugar and sw 16.7, 12.6% Top 3 Eggs, 2.8, 2.1% Dairy (19.1%) Vegetables (19%) Meat, poultry, and fish 15.3, 11.5% Grain (13.9%) Fruit (13.9%) uillion pounds Source: Buzby, Wells, and Hyman, USDA ERS, The Estimated Amount, Value and Calories of Postharvest Food Losses at the Retail and Consumer Levels in the US, 2014 (2010 data)



3-city study of food waste

Kitchen diaries

- 69% was edible
- Most common foods wasted were
 - Fruits and vegetables
 - Leftovers

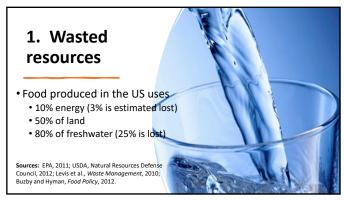
29% of the trash thrown out by consumers was food

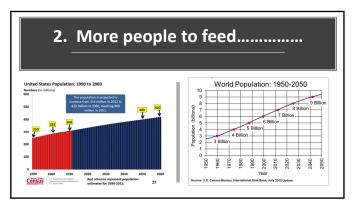


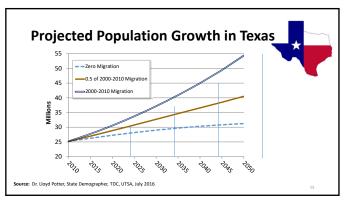
Source: Hoover D. Estimating Quantities and Types of Food Waste at the City Level, NRDC, 2017.

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4. Wasted food contributes to landfills

- Largest component of municipal solid waste; more than plastics, metals, wood or yard waste.
 - 97% of food waste ends up in a landfill
 - Production of methane gas → impact on the environment?



Sources: EPA, 2011; USDA, Natural Resources Defense Council, 2012; Levis et al., Waste Management, 2010; Buzby and Hyman, Food Policy, 2012.

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5. Wasted food = money lost

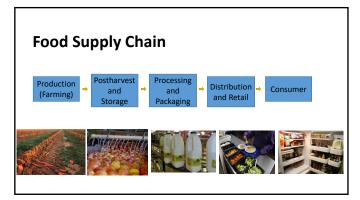
- The value of food lost in the US was estimated at \$165 billion
- Per household, this is estimated at \$936 a year or \$2.56/day.
- Per person estimates range from \$371\$ to \$400 annually

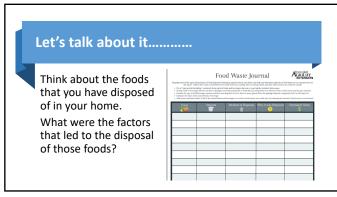


Sources: EPA, 2011; USDA, Natural Resources Defense Council, 2012; Levis et al., Waste Management, 2010;
Butby and Hyman, Food Policy, 2012; USDA ERS, The Estimated Amount, Value, and Colories of Postharvest Food Losses at the Retail and Consumer Levels in the United States., Feb. 2014.











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We Can't Save All of It

- 1. Technical factors
 - * Most foods are perishable; safety and storage considerations
- 2. Time and space factors
 - * United States is a big country; getting unwanted food across the country and to other processing plants/locations is a challenge
- 3. Economic factors
 - * Cost to recovery food; transportation cost (plus factors #1 and #2)
- 4. Consumer factors
 - * Individual tastes, preferences; food habits

Source: Buzby, Wells, and Hyman, USDA ERS; The Estimated Amount, Value and Calories of Postharvest Food Losses at the Retail and Consumer Levels in the US, 2014





How can we reduce food waste in the home?

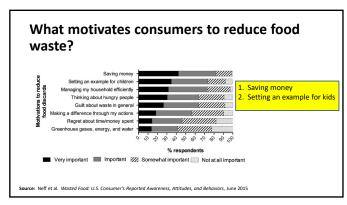
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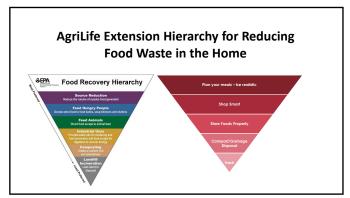
Why do we waste food?

- Lack of awareness (food is cheap; don't realize how much food is wasted)
- Desire for eating only the freshest food
- Concern about foodborne illness
- Confusion over label dates
- Spoilage
 - Improper storage; forgotten in the refrigerator; partially used ingredients
- Impulse and bulk purchases
- Poor planning
- Over-preparation

Source: Natural Resources Defense Council, 2012; Neff et al.
Wasted Food: U.S. Consumer's Reported Awareness, Attitudes, and Behaviors, June 2015









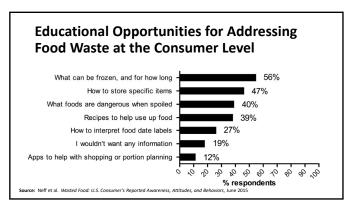


Store Foods Properly

- Fresh Produce
 - Store it right.
 - Use within 2-3 days for best quality
- Preserve surplus produce but only if you will use it!
- Date your prepared foods (leftovers) • Use within 2-3 days for best quality/safety
- Keep an inventory of what is in your













Consumers are confused!

- No federal regulation of sell-by dates.
- State laws exist, vary, and are constantly updated.
- Some <u>cities</u> have laws prohibiting the sale of perishable foods after the expiration date.
- Manufacturers determine the shelf life of their product.
- Consumers falsely believe that date labels are indicators of safety.

| NRDC REPORT | REPERSON NO. |
|---|--------------|
| The Dating Game: How Confusing Food Date Labels Lead to Food Waste in America | |
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Source: Natural Resources Defense Council, The Dating Game: How Confusing Food Date Labels Lead to Food Waste in America, 2013





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New educational program focused on reducing home food waste

- Get a Taste for Reducing Food Waste

 - Problem with food waste
 Meal planning to reduce food waste
 - Understanding the dates on food labels
 - Home composting
- Participants complete a food diary pre (and hopefully post)
- Pre- and post-survey to assess impact



Final thoughts.....

- Lots of food is being wasted that could be put to better use.
- Food waste has economic, environmental, and other consequences.
- When talking about food waste, you have to know your audience.
- The desire for "fresh" and "perfect" foods fuel food waste.
- Date stamps on labels and fear of foodborne illness are also big contributors to food waste.

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Necessity is the mother of invention. Meet Mike Yurosek – father of the "baby carrot"

- Carrot grower; was losing up to 70% of his crop due to their shape
- Some of the culled carrots were fed to animals; others were discarded







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