THE WAR ON FOOD WASTE

Food Waste Facts

• Enough food is grown each year to feed every man, woman, and child in America

• 50 Million Americans (1 in 6) have some form of food insecurity

• Nearly 40% of the food grown in America goes to waste

• Every hungry person could be fed with the food that is wasted annually
Who is The Food Waste Reduction Alliance?

FWRA Key Goals

**REDUCE**  Food loss that can be prevented

**REUSE**  Divert good food to food banks before it is lost

**RECYCLE**  Unavoidable food waste that can’t be reused (compost, animals, energy)
FWRA Accomplishments

- Proactively brought three major food associations together to help understand this emerging issue
- Tier 1 Report – Comparative assessment of all existing data
- Tier 2 Report – A current assessment of food waste from Manufacturers, Retailers and Wholesalers
- Best Practices & Case Studies Report – to be published Q1/14
- Communication and cooperation with solution providers, other associations, and media to showcase our efforts
- Engaging in very positive ways with government agencies – Founding member of the USDA Food Waste Challenge

Assessment:
Defining Food Waste Generation Vs. Disposal
BSR Tier 2 Assessment Results
FWRA: Survey objectives & respondent profile

Survey objective was to collect primary data for 2011 for U.S. operations on:
• Unsoldable food donations for human consumption
• Food waste reuse and recycling (and type of uses)
• Food waste disposal (and proportion it represents of all municipal waste)
• Barriers to greater donation and reuse/recycling

<table>
<thead>
<tr>
<th>Manufacturing Sector</th>
<th>Retail &amp; Wholesale Sectors</th>
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<tbody>
<tr>
<td>13 survey respondents</td>
<td>13 survey respondents</td>
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<tr>
<td>$122B in annual sales</td>
<td>$245B in annual sales</td>
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<tr>
<td>260,000 employees</td>
<td>980,000 employees</td>
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<tr>
<td>Represent 17% of the industry by revenue¹</td>
<td>Represent 30% of the industry by revenue²</td>
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¹ based on 2010 US food & beverage manufacturing revenue of $137B (source: Census Bureau, Annual Survey of Manufacturers)
² based on 2010 US grocery-retail revenue of $668B (source: Progressive Grocer) and 2009 US grocery wholesale revenue of $617B (source: Progressive Grocer)
Internal & external barriers limit food waste diversion

Transportation constraints, liability concerns & insufficient recycling options are the most common barriers to greater donation & recycling.

Are there barriers, either internal or external, that prevent your company from reusing and recycling more food waste?
Yes: 88%  No: 12%

Are there barriers, either internal or external, that prevent your company from donating more unsalable food?
Yes: 77%  No: 23%

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<thead>
<tr>
<th>Barriers</th>
<th>Manufacturing</th>
<th>Retail/Wholesale</th>
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<tr>
<td>Insufficient recycling options</td>
<td>91%</td>
<td>83%</td>
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<tr>
<td>Transportation constraints</td>
<td>73%</td>
<td>75%</td>
</tr>
<tr>
<td>Liability concerns</td>
<td>55%</td>
<td>50%</td>
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<tr>
<td>Food safety concerns for collection and storage</td>
<td>36%</td>
<td>50%</td>
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Top 3 Best Practices

• Conduct waste characterization assessment - what resources are being wasted and what are the root causes (policy, process, practices).
• Establish SOP's related to donations and diversion - clear process and procedures for food safety, quality and quantity.
• Develop/Strengthen relationships with donation agencies & diversion partners - move beyond transactions to collaborations (solutions for non traditional material streams).

Kroger’s Compton Resource Recovery Project

[Diagram: Anaerobic Digestion Process]
Hannaford and Kidz

• 59 stores are composting
• Brick End Farm creates compost
• Kidz to Kidz create artwork
• Compost sold at Hannaford
• Kidz to Kidz get part of proceeds

Wegmans Food Waste Hierarchy

- Source Reduction: Reduce the volume of food waste generated
- Feed Hungry People: Donate food to food banks, soup kitchens and shelters
- Feed Animals: Divert food scraps to animal feed
- Industrial Uses: Provide waste oil for rendering and fuel conversion; and food scraps for digestion to recover energy
- Composting: Create a nutrient-rich soil amendment
- Landfill/Incineration: Last resort for disposal

2012 LBS of Food

80M*
2014 FWRA Goals

• Complete and share best practices toolkit with the industries – Q1/14
• Share second industry assessment on food waste for retailers/manufacturers – Spring 2014
• Complete and share first industry assessment on restaurants – Spring 2014
• Publish Quarterly FWRA update on our website
  www.foodalliance.org

Thank You!