KANSAS FOOD RECOVERY 2018

MWFRS 2018 Conference
Lynelle Ladd
Who is PPI?

Kansas State University
College of Engineering
Engineering Extension
Pollution Prevention Institute
Small Business Environmental Assistance Program
Food production/food loss and waste information
Food Waste vs Wasted Food

• Pre-consumer food waste defined as wasted food
  - Not “post-consumer” or “plate waste”
  - Still edible by human or animal
  - Loss due to overproduction, spoilage, expiration and trim
Kansas MSW composition - 2012

17 % in Kansas
K-State food recovery projects

- Lawrence-Douglas County Health Department Grant Funds
  - Lawrence school district and the University of Kansas food systems
  - January through June 2018
    - Majority of on-site observation occurred from February through late April
  - University of Kansas student intern assisting
Clients & Partners

Douglas county – Lawrence

- Feeding America
- Harvesters
- Kansas Food Bank
- Douglas county Food Policy Council
- Just Food
- Lawrence-Douglas County Health Department
**Background on DG county, KS**

<table>
<thead>
<tr>
<th>Kansas County</th>
<th>Percent of Population Food Insecure (all)²</th>
<th>Percent of Population Food Insecure (child)</th>
<th>Percent Below SNAP Thresholds (130% poverty)</th>
<th>Percent Eligible for Child Nutritional Programs (185% poverty)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas, population 120,793¹</td>
<td>16.5</td>
<td>18</td>
<td>53</td>
<td>51</td>
</tr>
</tbody>
</table>

¹2017 Census date from [https://www.census.gov/](https://www.census.gov/)

² Food insecurity data from 2016 Feeding America - [http://map.feedingamerica.org/county/2016/overall/kansas](http://map.feedingamerica.org/county/2016/overall/kansas)
Lawrence Public Schools - Building Coalitions

- Lawrence-Douglas County Health Department
- USD 497 managers
- Food Policy Council
- Just Food
Public Schools – USD 497

- 1 high school
- 2 middle schools
- 4 elementary schools
Observations

• Written production records
  ▪ First cycle guides production for the next
  ▪ 3 week lunch // 2 week breakfast rotation
  ▪ High school and elementary menus
• Self-serve
• No student lunch count procedure
## Data

<table>
<thead>
<tr>
<th>Food type</th>
<th>Annual estimated environmental impact – reduction</th>
<th>Annual estimated GHG savings – donations</th>
<th>Annual estimated GHG savings – composting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Produce</td>
<td>5.3 metric tons CO₂e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dairy</td>
<td>0.3 metric tons CO₂e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poultry</td>
<td>0.5 metric tons CO₂e</td>
<td>0.5 metric tons CO₂e</td>
<td>Not evaluated</td>
</tr>
<tr>
<td>Beef</td>
<td>&lt; 0.1 metric tons CO₂e</td>
<td>0.2 metric tons CO₂e</td>
<td>Not evaluated</td>
</tr>
<tr>
<td>Grains</td>
<td>0.1 metric tons CO₂e</td>
<td>0.2 metric tons CO₂e</td>
<td>Not evaluated</td>
</tr>
<tr>
<td>Bread</td>
<td>0.1 metric tons CO₂e</td>
<td>0.3 metric tons CO₂e</td>
<td>Not evaluated</td>
</tr>
</tbody>
</table>
Lawrence Public Schools

<table>
<thead>
<tr>
<th>Summary</th>
<th>Annual estimated environmental impact – reduction</th>
<th>Annual estimated GHG savings – donations</th>
<th>Annual estimated GHG savings – composting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total annual weight</td>
<td>11.5 tons</td>
<td>2.3 tons</td>
<td>0.4 tons</td>
</tr>
<tr>
<td>GHG reductions</td>
<td>6.2 metric tons CO2e</td>
<td>1.2 metric tons CO2e</td>
<td>0.1 metric tons CO2e</td>
</tr>
<tr>
<td>Annual cost savings</td>
<td>$21,312.53</td>
<td>$12,668.57</td>
<td>$511.44</td>
</tr>
<tr>
<td>Status</td>
<td>Recommended</td>
<td>Partially implemented</td>
<td>Partially implemented</td>
</tr>
</tbody>
</table>

**GHG** stands for greenhouse gas.
University of Kansas - Building Coalitions
## University of Kansas data

<table>
<thead>
<tr>
<th>Project</th>
<th>Annual estimated food waste</th>
<th>Annual estimated environmental impact – reduction</th>
<th>Annual estimated GHG savings – donations</th>
<th>Annual estimated GHG savings – composting</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Dining</td>
<td>38.6 tons</td>
<td>21.0 metric tons CO2e</td>
<td>16.9 metric tons CO2e</td>
<td>6.8 metric tons CO2e</td>
</tr>
<tr>
<td>Mrs. E’s</td>
<td>19.1 tons</td>
<td>10.3 metric tons CO2e</td>
<td>9.4 metric tons CO2e</td>
<td>3.4 metric tons CO2e</td>
</tr>
<tr>
<td>The Commissary</td>
<td>10.4 tons</td>
<td>5.6 metric tons CO2e</td>
<td>4.6 metric tons CO2e</td>
<td>1.8 metric tons CO2e</td>
</tr>
<tr>
<td>Status</td>
<td>Recommended</td>
<td>Recommended</td>
<td>Implemented</td>
<td></td>
</tr>
</tbody>
</table>
Conclusions

• Computer assisted ordering (CAO) and computer assisted production (CAP) programs
• Communication
• On-site policies = more restrictive than food safety requirements
  • Edible food going to trash
  • Policies prohibiting donation of certain foods
• Buffet food service still greatest problem and opportunity!
Conclusions

• Food liability issues remain a concern
  • Food Donation Liability in Kansas protections and information
  • Opportunities for public education and guidance is abundant

• Building coalitions and partners is essential

• PPI and Feeding America
  • MealConnect App https://mealconnect.org/

• Guidance and case summaries on PPI website
  • https://www.sbeap.org/services-programs/food-recovery
Tools to track food waste
Map of Kansas Food Diversion Facilities

Overview of Food Recovery programs

Resources for reducing food waste

Map of Kansas food diversion facilities
Are you aware of facilities in your area of Kansas that accept food-related materials, such as food pantries, animal feed operations, biodigesters, or composting facilities? Email us or call 800-578-8898 to get it added to the map.

Search the downloaded excel spreadsheet for facilities in this county.
Questions?

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