WASHINGTON D.C.: ORGANICS RECOVERY

August 2, 2017
OFFICE OF WASTE DIVERSION

INTERAGENCY COLLABORATION

DISTRICT DEPARTMENT OF PUBLIC WORKS
Food Waste Prevention and Compost Benefits and Sustainable DC
PLANNED STUDIES TO ASSIST WITH ZERO WASTE & INFRASTRUCTURE PLANNING

- COMPOST COLLECTIONS & FEASIBILITY STUDY (05/17)
- BLUE PLAINS CODIGESTION STUDY (FY 17)
- WASTE CHARACTERIZATION STUDY (FY 17 & FY 18)
- ZERO WASTE PLAN (FY 18 & 19)

DISTRICT DEPARTMENT OF PUBLIC WORKS
• 30 community composting bins installed with capacity to serve 5,000 residents
Cafeteria composting in 39 public schools; to expanding to 60 schools this school year.
## Organics Generation and Recovery Potential

<table>
<thead>
<tr>
<th>Sector</th>
<th>Generation (Tons/Year)</th>
<th>Recovery Potential Low (Tons/Year)</th>
<th>Recovery Potential Average (Tons/Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSO Curbside Collection Program</td>
<td>21,056 to 59,221</td>
<td>10,719</td>
<td>30,490</td>
</tr>
<tr>
<td>Commercial Landscapers Drop-off Potential</td>
<td>13,427</td>
<td>13,427</td>
<td>13,427</td>
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<tr>
<td>Multi-family Diversion Potential</td>
<td>17,962 to 47,761</td>
<td>7,185</td>
<td>19,105</td>
</tr>
<tr>
<td>Commercial and Institutional</td>
<td>114,365</td>
<td>57,183</td>
<td>85,774</td>
</tr>
<tr>
<td>Total Generation</td>
<td>234,774</td>
<td></td>
<td></td>
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<tr>
<td>Total Diversion Potential</td>
<td></td>
<td>88,513</td>
<td>148,796</td>
</tr>
</tbody>
</table>

**District Department of Public Works**
# Commercial & Institutional Generation & Potential Capture

<table>
<thead>
<tr>
<th>Commercial &amp; Institutional Generation (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supermarkets and Grocery Stores</td>
</tr>
<tr>
<td>Full Service Restaurants</td>
</tr>
<tr>
<td>Limited Service Restaurants</td>
</tr>
<tr>
<td>Colleges/Universities</td>
</tr>
<tr>
<td>Elementary and Secondary Schools</td>
</tr>
<tr>
<td>Large Hotels</td>
</tr>
<tr>
<td>Assisted Living and Nursing homes</td>
</tr>
<tr>
<td>Hospitals</td>
</tr>
<tr>
<td>Grocery Store Distributors</td>
</tr>
<tr>
<td>Commercial Total</td>
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</tbody>
</table>

### High SSO Recovery Rate
- **85,774**
- **Remaining SSO Not Recovered, 28,591**

### Low SSO Recovery Rate
- **57,183**
- **Remaining SSO Not Recovered, 57,183**

**75% Capture**

**50% Capture**
• Residential co-collection of SSO and YW is recommended

• FW and YW should not be transferred

• There is currently limited regional capacity to accept food waste

• In-District Organics Processing Facility is preferred
CURBSIDE COMPOSTING FEASIBILITY STUDY FINDINGS

DIVERSION POTENTIAL
• 30k tpy of commingled food and yard waste from DPW serviced households
• 45% - Projected residential diversion rate with adoption of collection program
• Opportunity to recover 150k tpy with policy and new infrastructure

JOB CREATION
• 6 – 12 fulltime facility operation jobs plus additional staff required for collection

ANNUALIZED COST OF CURBSIDE PROGRAM
• $5.9M - $9.0M

INFRASTRUCTURE
• Proposes in-city covered aerated static pile facility
• 10-20 acres
• Capacity: 30k – 150k tpy
• $7-$12M

ROLL-OUT SCHEDULE
• Five year roll-out plan to all DPW-Serviced households

DISTRICT DEPARTMENT OF PUBLIC WORKS
DISTRICT NEXT STEPS

• Continued investment in existing District compost programs

• Solicit feedback on study to inform zero waste plan.

• Update food waste regulations

• Conduct codigestion feasibility study

• Collaborate with neighboring jurisdictions and Office of Public Private Partnerships to encourage organics recovery infrastructure development
FOOD WASTE DROP-OFF

- Free composting service for District residents
- Available in all eight wards
- Located at farmers markets
PARTICIPATING SATURDAY FARMERS MARKETS

Columbia Heights Farmers Market
14th and Kenyon St NW
May 13 - Dec 9 | 9 am - 1 pm

University of District of Columbia Farmers Market (in front of the law school)
4340 Connecticut Ave NW
May 20 - Nov 18 | 9 am - 1 pm

Glover Park Burleith Farmers Market
34th St and Wisconsin Ave
May 13 - Nov 18 | 9 am - 1 pm

Eastern Market
635 North Carolina Ave SE
Apr 22 - Year Round
9 am - 1 pm

14th and Kennedy Farmers Market
14th and Kennedy St NW
May 13 - Nov 18 | 9 am - 1 pm

Brookland Farmers Market (Monroe St)
716 Monroe St NE
May 13 - Dec 9 | 9 am - 1 pm

Parkside-Kenilworth Farmers Market
750 Parkside NE
May 20 - Nov 11 | 9 am - 1 pm

Ward 8 Farmers Market
3201 6th St SE
June 17 - Nov 18 | 10 am - 2 pm

*For the most up-to-date information on the market locations and times, please visit our website: dpw.dc.gov/foodwastedropoff
Food Waste Drop Off Program

- Eastern Market
- Mayor Bowser, Councilmember Cheh, 5 Agencies
- 5 new trees with compost
- 100 visitors
- 74 pounds collected
WASTE LESS COMPOST MORE

ACCEPTED ITEMS

- Fruits and Vegetable Scraps
- Breads, Grains, Cereals, Rice and Pasta
- Egg Shells
- Coffee Grounds, Coffee Filters and Tea Bags
- Nutshells
- Household Flowers

NOT ACCEPTED ITEMS

- Dairy (Milk, Cheese, Yogurt)
- Meats, Fish, Bones, Oil and Grease
- Plastic Bags, Wraps or Film
- Foam Polystyrene
- Recyclables (Plastic, Metal, Glass, Foil)

Site Locations & More Information:
dpww.dc.gov/foodwastedropoff
#ZeroWasteDC

The District is committed to achieving zero waste through waste diversion and reduction.
Food Waste Drop Off Data

Drop offs per Day by Site

Pounds Collected per Day by Site

- Columbia Heights
- Glover Park
- UDC
- 14th & Kennedy
- Brookland
- Eastern Market
- Parkside
- Ward 8 FM
Average Pounds of Food Waste per Drop Off by Site

<table>
<thead>
<tr>
<th>Site</th>
<th>Average Waste (Pounds)</th>
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<tbody>
<tr>
<td>Columbia Heights</td>
<td>6.27</td>
</tr>
<tr>
<td>Glover Park</td>
<td>5.66</td>
</tr>
<tr>
<td>UDC</td>
<td>8.61</td>
</tr>
<tr>
<td>14th &amp; Kennedy</td>
<td>6.05</td>
</tr>
<tr>
<td>Brookland</td>
<td>5.44</td>
</tr>
<tr>
<td>Eastern Market</td>
<td>7.72</td>
</tr>
<tr>
<td>Parkside</td>
<td>7.21</td>
</tr>
<tr>
<td>Ward 8 FM</td>
<td>5.56</td>
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</tbody>
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THANK YOU

Questions or Feedback
Annie White
Annie.White4@dc.gov
(202) 438.8277