



WASHINGTON D.C.: ORGANICS RECOVERY

August 2, 2017



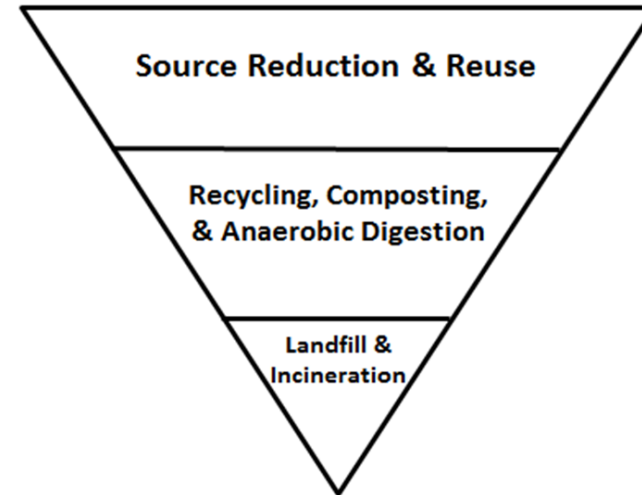
OFFICE OF WASTE DIVERSION



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)**

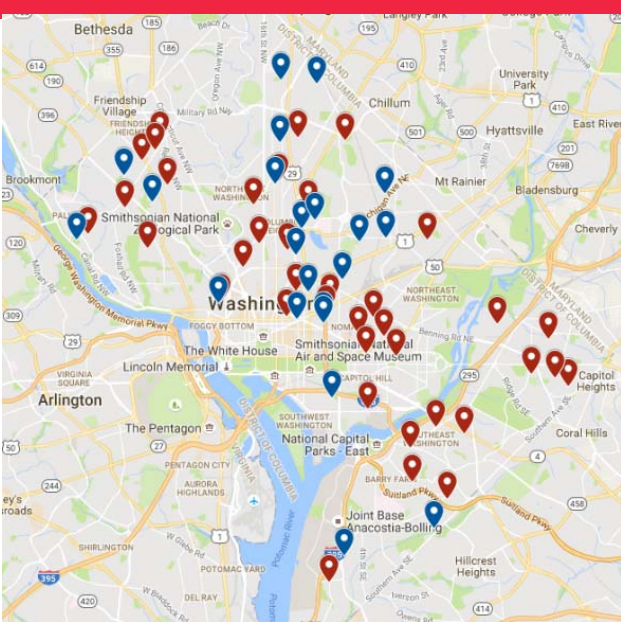


**WASTE
CHARACTERIZATION
STUDY
(FY 17 & FY 18)**



**ZERO WASTE
PLAN
(FY 18 & 19)**

ORGANICS RECOVERY IN THE DISTRICT



- 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.

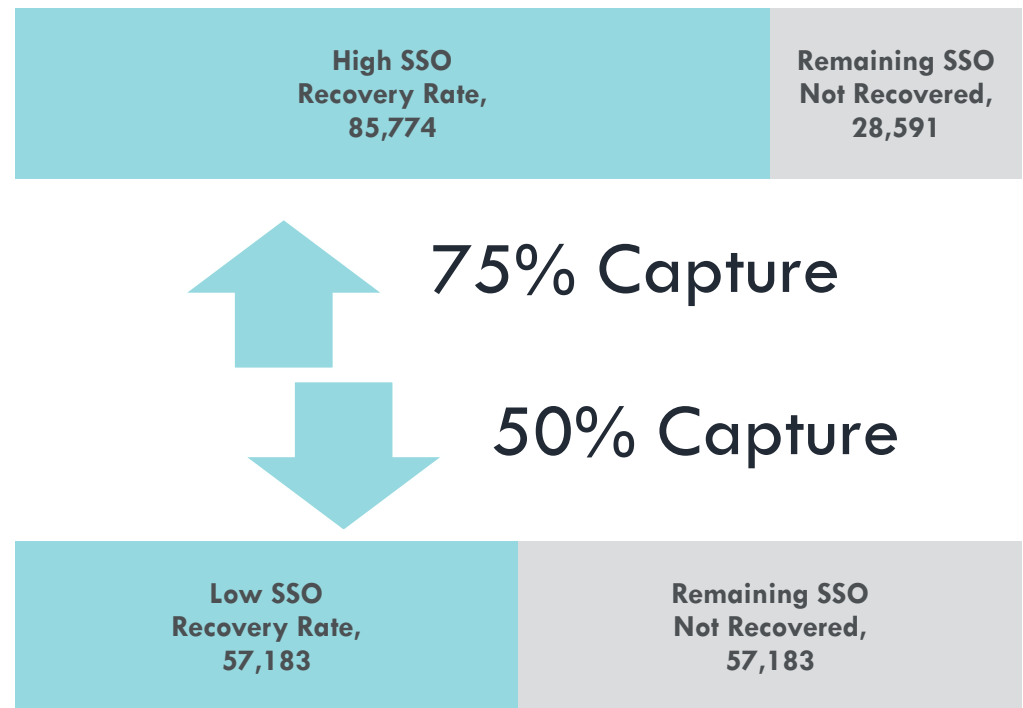
ORGANICS GENERATION AND RECOVERY POTENTIAL

SECTOR	GENERATION (TONS/YEAR)	RECOVERY POTENTIAL LOW (TONS/YEAR)	RECOVERY POTENTIAL AVERAGE (TONS/YEAR)
SSO Curbside Collection Program	21,056 to 59,221	10,719	30,490
Commercial Landscapers Drop-off Potential	13,427	13,427	13,427
Multi-family Diversion Potential	17,962 to 47,761	7,185	19,105
Commercial and Institutional	114,365	57,183	85,774
Total Generation	234,774		
Total Diversion Potential		88,513	148,796

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Commercial & Institutional Generation & Potential Capture

Commercial & Institutional Generation (tons)	
Supermarkets and Grocery Stores	9,692
Full Service Restaurants	35,987
Limited Service Restaurants	12,205
Colleges/Universities	28,954
Elementary and Secondary Schools	3,038
Large Hotels	10,770
Assisted Living and Nursing homes	2,460
Hospitals	10,226
Grocery Store Distributors	1,033
Commercial Total	114,365



RESIDENTIAL COMPOSTING IDEAL STATE



- 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



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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

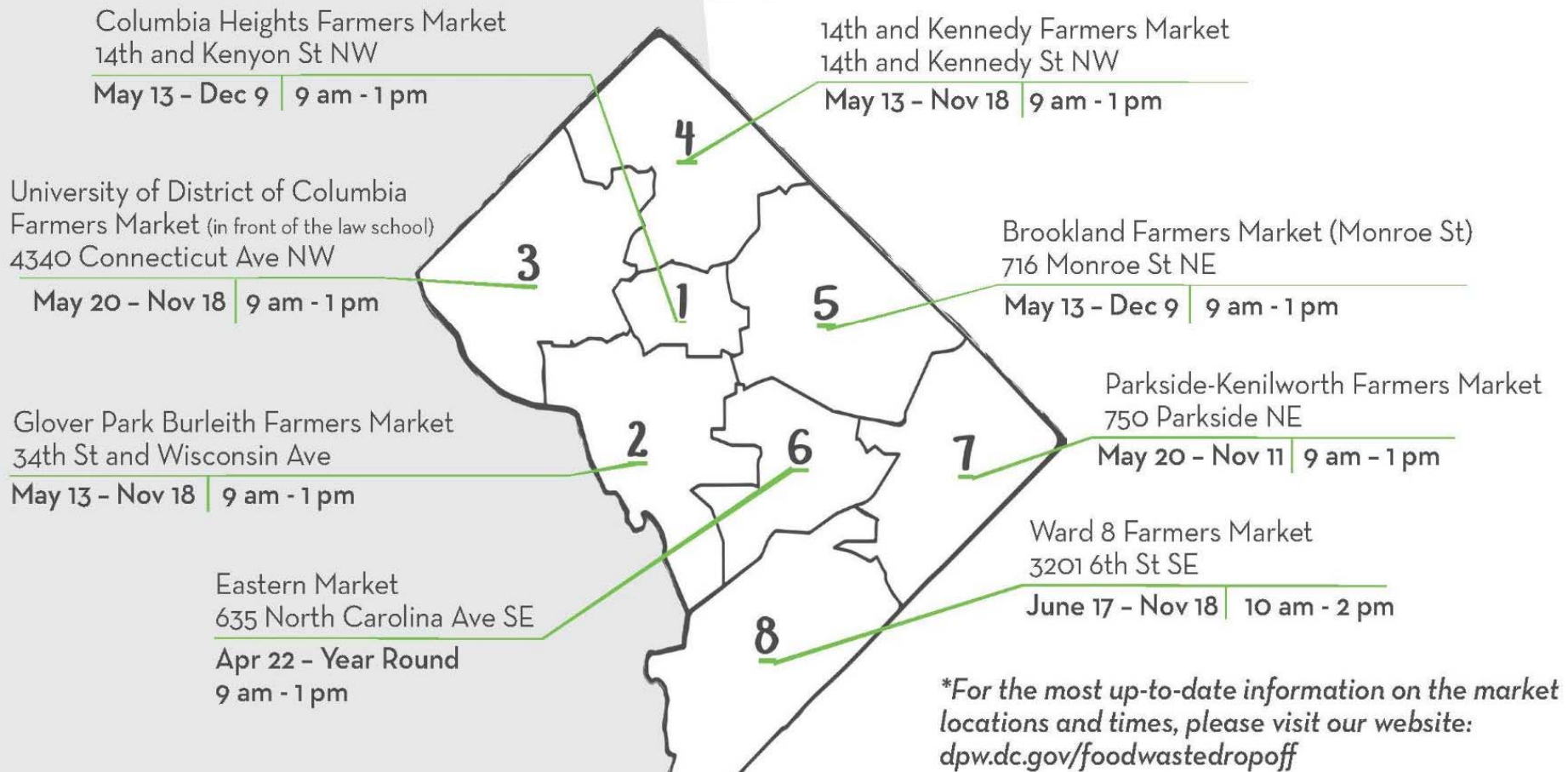
FOOD WASTE DROP-OFF



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



PARTICIPATING **SATURDAY** FARMERS MARKETS



Food Waste Drop Off Program

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



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WASTE LESS
COMPOST
MORE

Site Locations &
More Information:
dpw.dc.gov/foodwastedropoff

#ZeroWasteDC

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



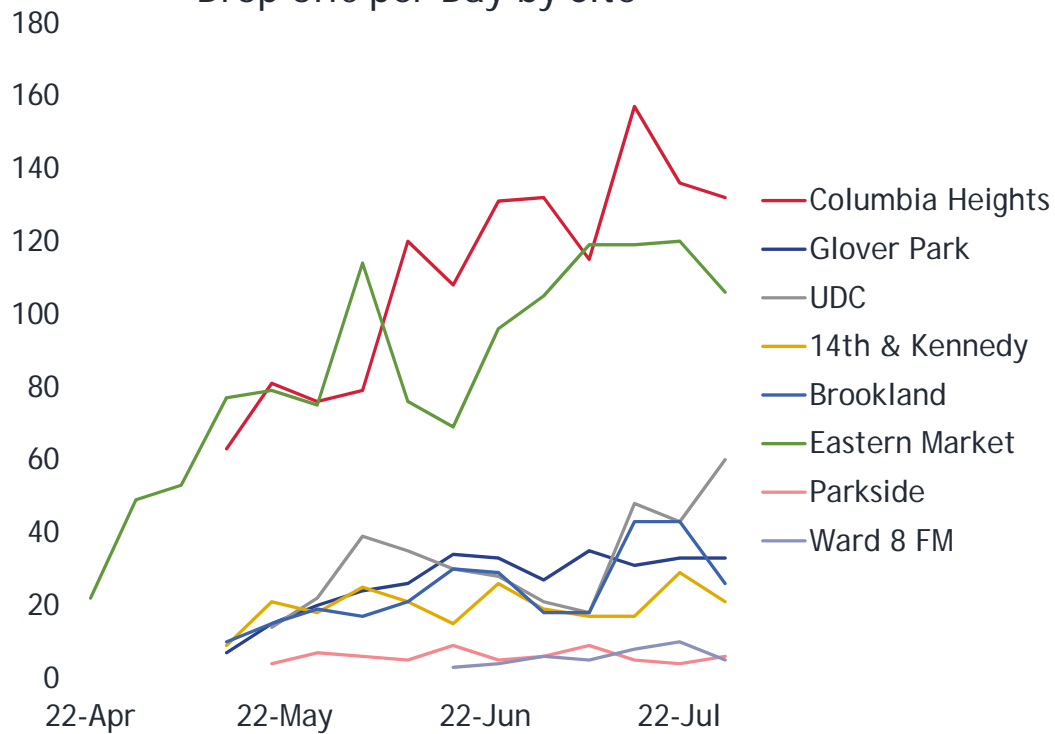
Recyclables
(Plastic, Metal, Glass, Foil)

The District is committed to achieving zero waste through waste diversion and reduction.

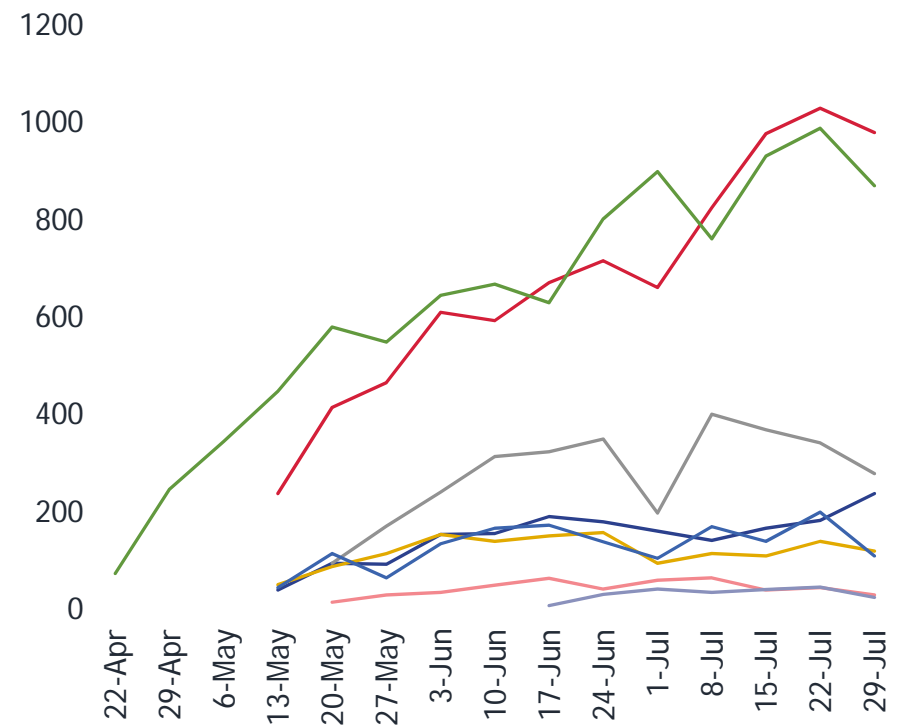


Food Waste Drop Off Data

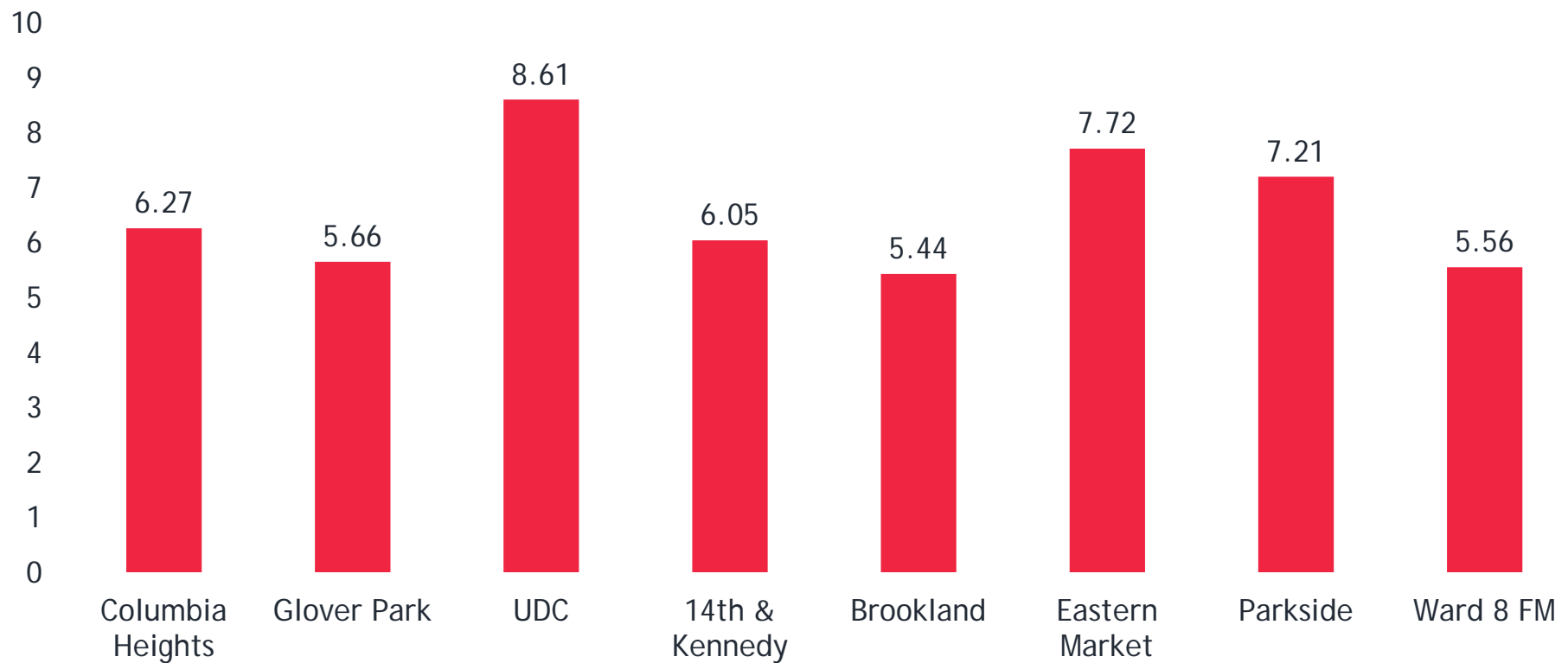
Drop offs per Day by Site



Pounds Collected per Day by Site



Average Pounds of Food Waste per Drop Off by Site



THANK YOU

Questions or Feedback

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