



# WASHINGTON D.C.: ORGANICS RECOVERY

August 2, 2017



DISTRICT DEPARTMENT OF PUBLIC WORKS

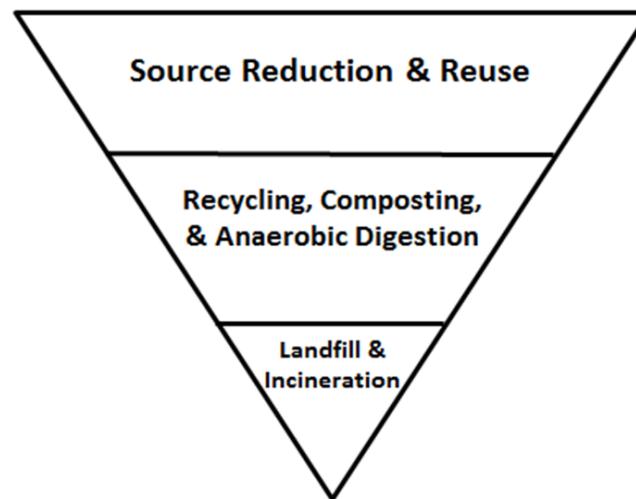
# OFFICE OF WASTE DIVERSION



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)**

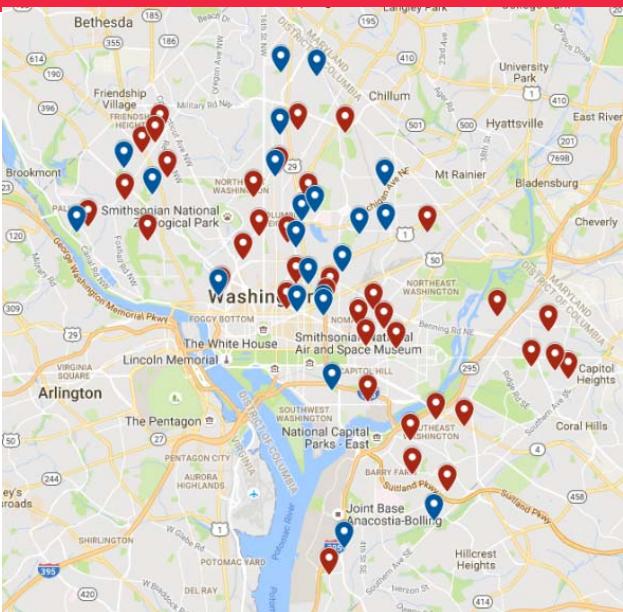


**WASTE  
CHARACTERIZATION  
STUDY  
(FY 17 & FY 18)**



**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.

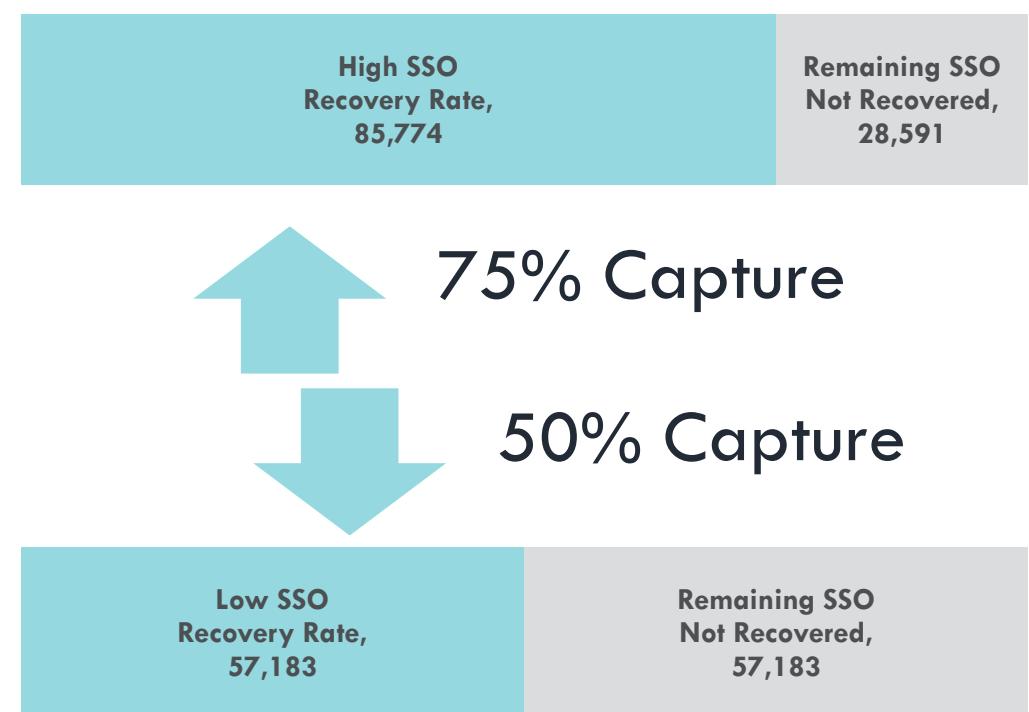
# ORGANICS GENERATION AND RECOVERY POTENTIAL

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
<b>Total Generation</b>	<b>234,774</b>		
<b>Total Diversion Potential</b>		<b>88,513</b>	<b>148,796</b>

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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

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# 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

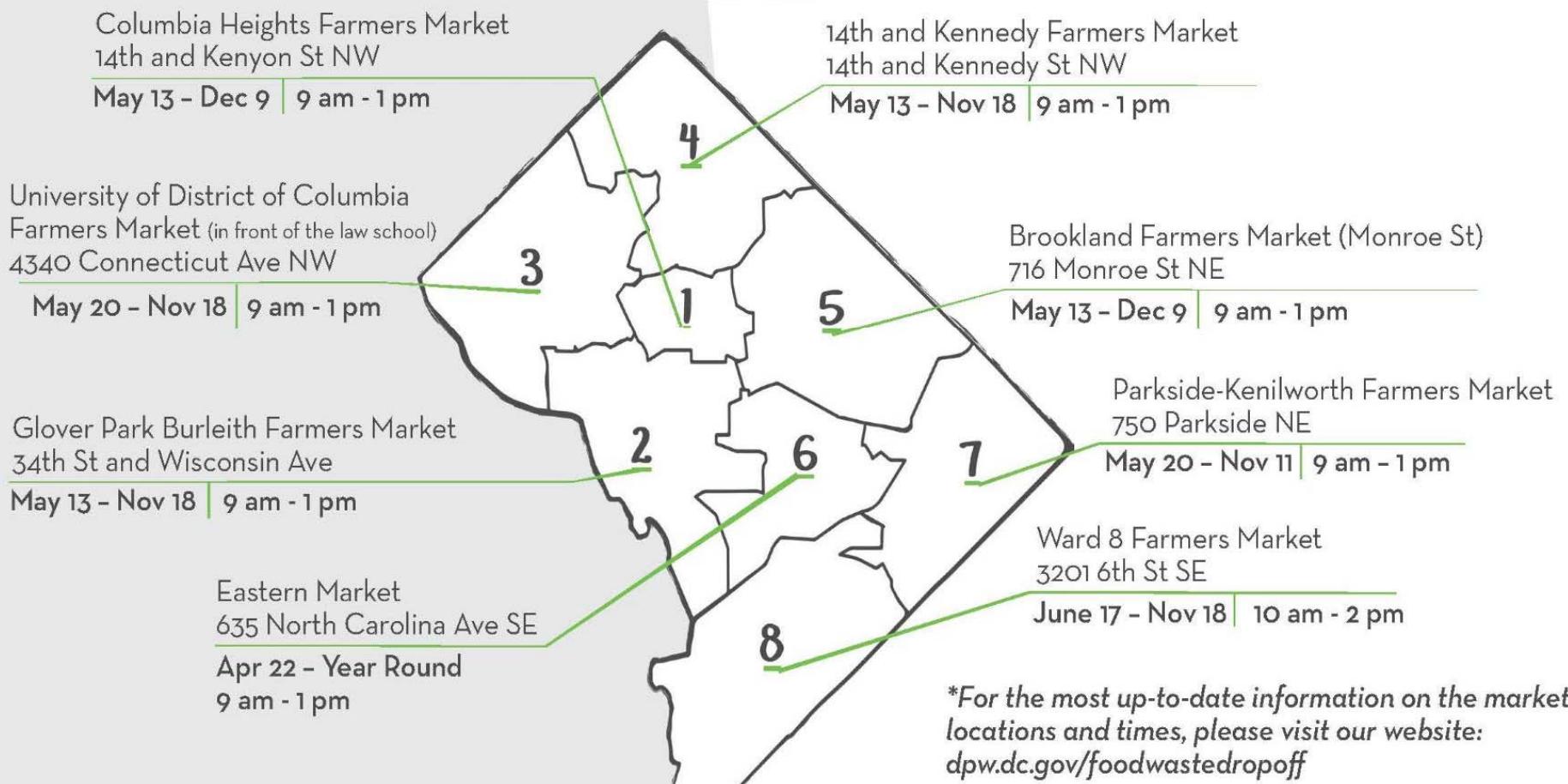
# FOOD WASTE DROP-OFF



- 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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Site Locations &  
More Information:  
[dpw.dc.gov/foodwastedropoff](http://dpw.dc.gov/foodwastedropoff)

#ZeroWasteDC

# WASTE LESS COMPOST MORE



## ACCEPTED ITEMS

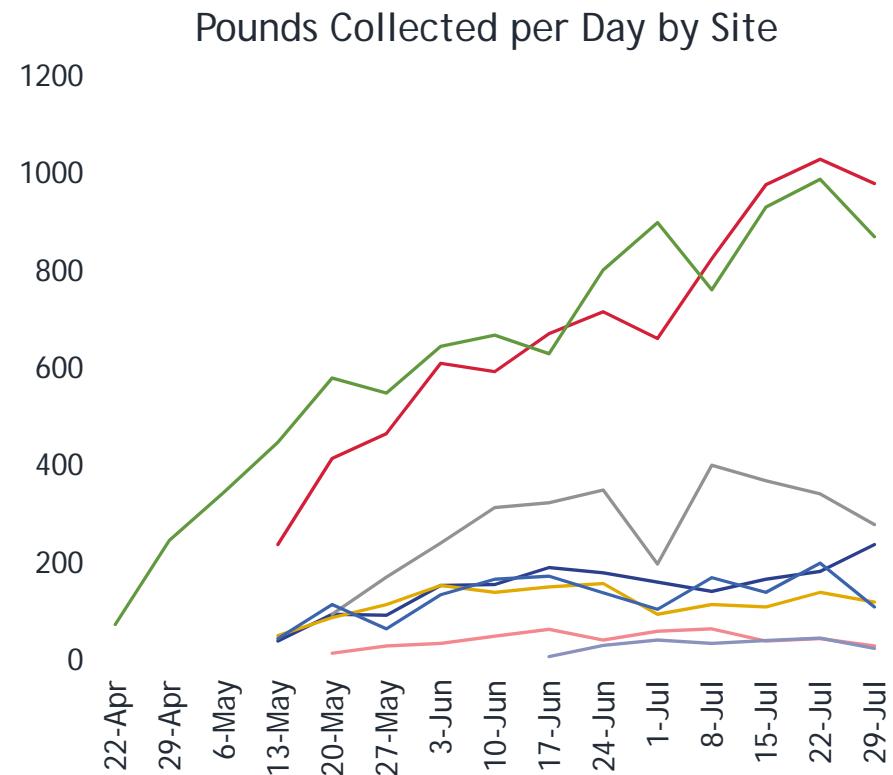
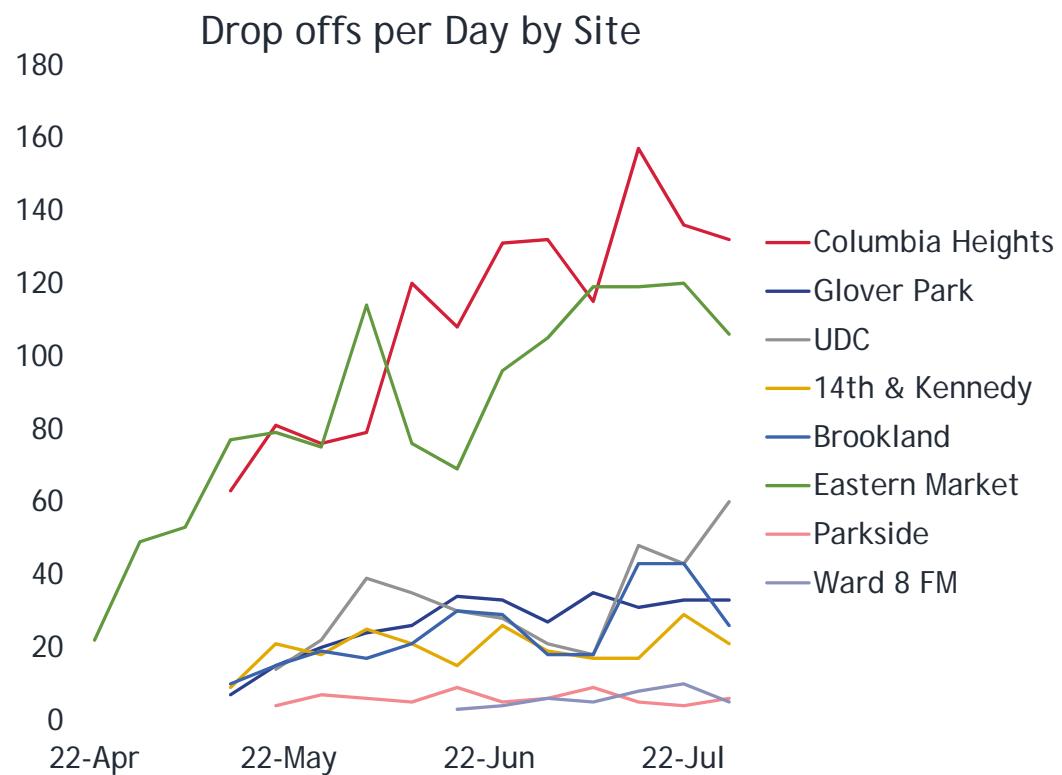



## NOT ACCEPTED ITEMS

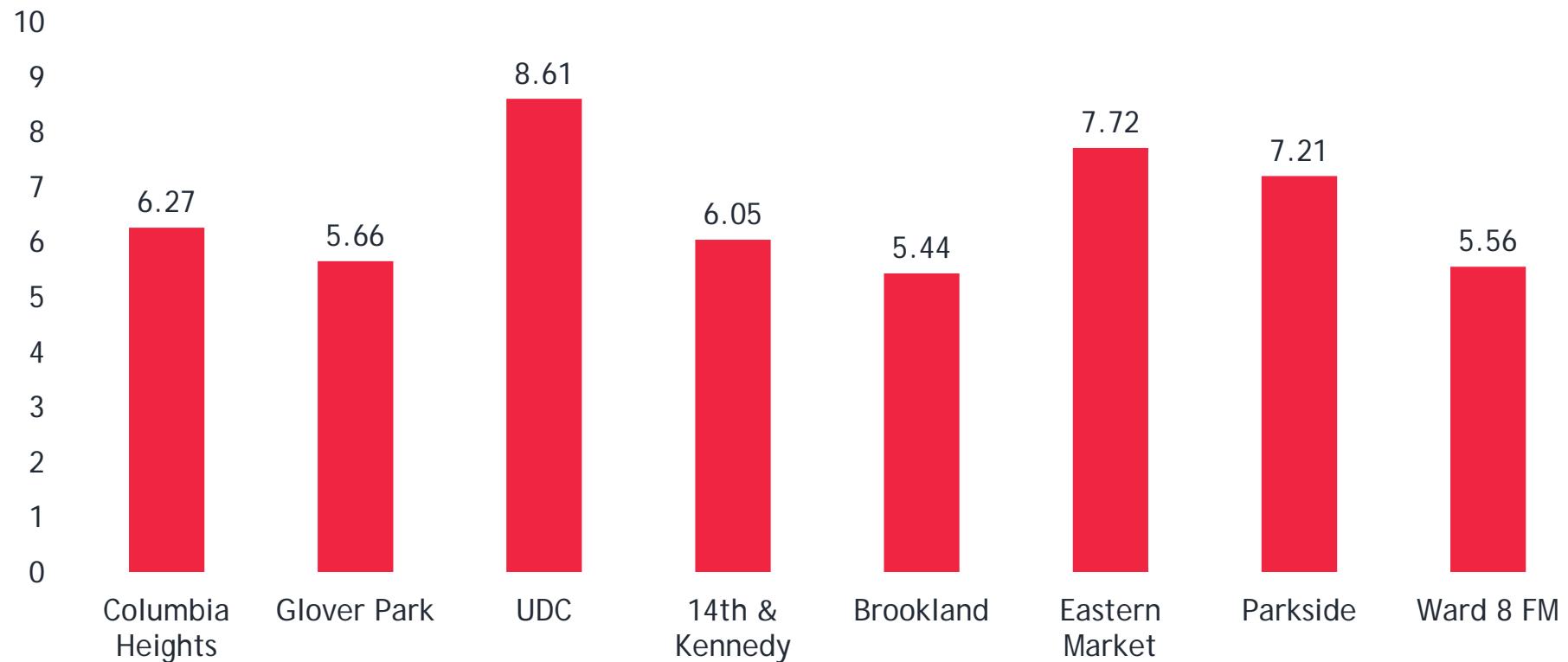

The District is committed to achieving zero waste through waste diversion and reduction.



# Food Waste Drop Off Data



# Average Pounds of Food Waste per Drop Off by Site



# THANK YOU

## Questions or Feedback

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