A Distributed Infrastructure Is Key:

Support Small-Scale and Home Composting

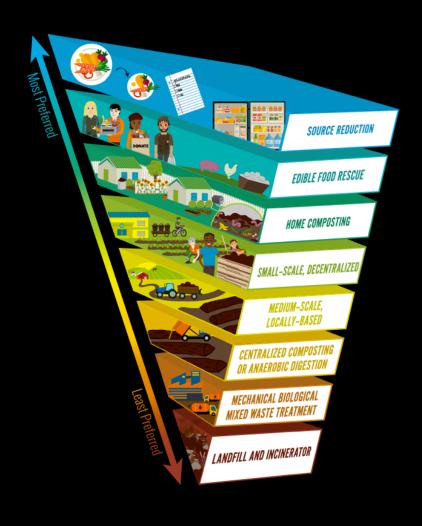
October 24, 2018

Mid-Atlantic Food Recovery Summit

**Bowie State Univ., MD** 



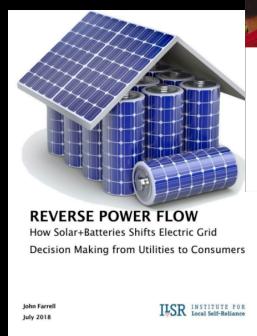
Brenda Platt, @PlattBrenda Institute for Local Self-Reliance, @ilsr Composting for Community Project





#### **Programs:**

- ✓ Community Owned Broadband
- ✓ Energy Democracy
- √ Community Scaled Economy
- √ The Public Good Blog
- ✓ Waste to Wealth
- ✓ Composting for Community





Amazon is changing the rules for how local governments buy goods — and putting cities, counties, and school districts at risk.

By Olivia LaVecchia and Stacy Mitchell

IISR INSTITUTE FOR Local Self-Reliance

#### **Our Mission:**

To provide innovative strategies, working models and timely information to support environmentally sound and equitable community development.







Composting in Maryland to Reduce Waste, Create Jobs, & Protect the Bay

By Brenda Platt, Bobby Bell, and Cameron Harsh

May 2013



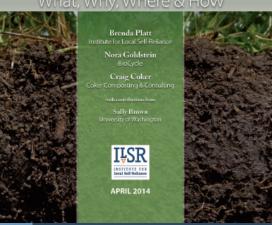
STATE OF COMPOSTING IN THE US

TITUTE FOR 1 Self-Reliance

#### STOP TRASHING THE CLIMATE

EXECUTIVE SUMMARY
June 2008





BIOCYCLE WEST COAST18: ACCELERATING ORGANICS RECYCLING
MARCH 26, 27, 28, 29, 2018 - SAN DIEGO, CALIFORNIA - BIOCYCLE SURVEY
THE ORGANICS RECYCLING AUTHORITY

NATIONWIDE BIOCYCLE SURVEY

Residential
Food Waste

Collection Access
In The U.S.

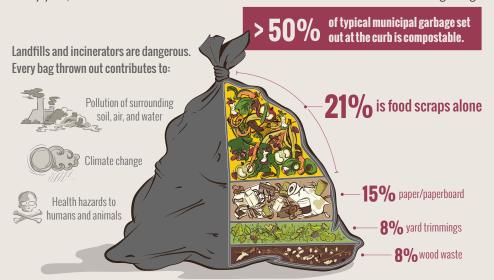
ILLUSTRATING
THE VISION

PROVIDING TOOLS

CHANGING THE RULES



Every year, U.S. landfills and trash incinerators receive **167 MILLION TONS** of garbage.





#### SOURCES

JOUNILAS: Trenda Platt, Nora Goldstein, Craig Coker, and Sally Brown, The State of Composting in the U.S.: What, Why, Where, & How, Institute for Local Self-Reliance ILSR), June 2015.

S EPA, Advancing Sustainable Materials Management: Facts and Figures 2013, June 2015, pp. 12, 46.

Brenda Platt, Eric Lombardi, and David Ciplet, Stop Trashing the Climate, Institute for Local Self-Reliance (ILSR), 2008.

Brenda Platt, Bobby Bell, and Cameron Harsh, Pay Dirt: Composting in Maryland to Reduce Woste, Create Jobs & Protect the Bay, Institute for Local Self-Reliance
(ILSR), May 2013.

Mike Ewall, Trash Incineration Factsheet, Energy Justice Network web page, http://www.energyjustice.net, accessed April 2016



To learn more, visit: ilsr.org/compost-impacts

### Infographics / posters: ilsr.org/compost-impacts

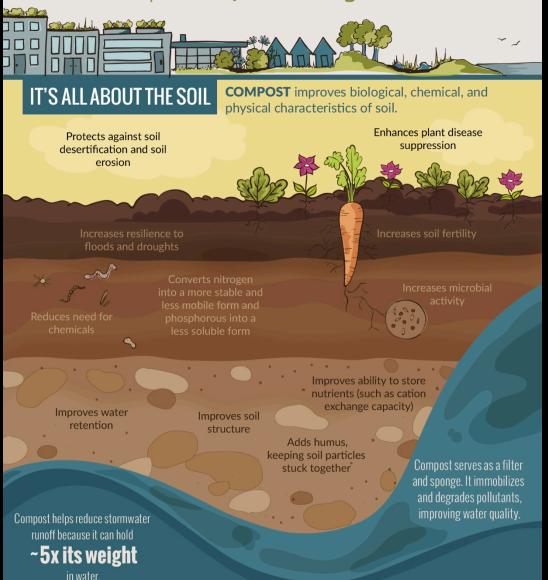




#### **Composting Enhances Soil and Protects Watersheds**

Healthy soils are essential for protecting watersheds. Compost is the best way to add organic matter—which is vital—to soils.

When added to soil, compost can filter out urban stormwater pollutants by an astounding 60-95%



# Neighborhood Soil Rebuilders

#### **COMPOSTER TRAINING PROGRAM**





https://ilsr.org/neighborhoodsoilrebuilders/



### cultivating community composting

National Cultivating Community Composting Forums • Webinars • Coalition • Listserve









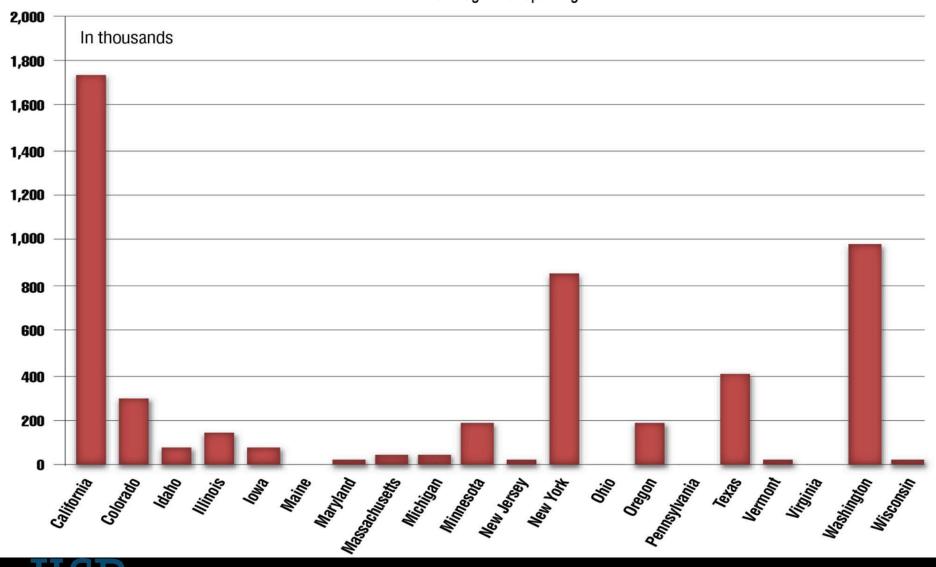






#### U.S. households with access to curbside food waste collection by state

148 Programs reporting





### Should we rely on only regional mega-facilities?

COMPOSTING



#### Failure of the Wilmington Compost Facility Underscores Need for a Locally Based and Diverse Composting Infrastructure

Neil Seldman 0 Comments



The rapid increase in community-scale composting in the Mid-Atlantic is sorely needed. The recent closing of the Wilmington Organics Recycling Center in Delaware, due to the loss of its operating permit, has pushed the need for a distributed and diverse composting infrastructure to the fore. Source separated food discard programs from New York City to Washington, DC, are now scrambling to find alternative sites to tip their loads.

The Wilmington Organics Recycling Center was at the center of expanded food discard collections in the Mid-Atlantic region. Developed, sited, permitted, financed and built by The Peninsula Compost Group (TPCG), the facility was designed to receive 600 tons per day of source separated organic materials from government institutions, grocery chains, schools, food processors, sports venues, restaurants, and other large food waste generators. A separate company, named the Peninsula Compost Company (PCC), was set up to own the plant. Its original members included the EDiS Company and Greenhull Compost LLC (both of Wilmington, Delaware), as well as the developers, TPCG. The facility commenced operations in late 2009 composting around 200 tons per day. For the first two years, TPCG was the managing and operations partner. During that time there were no verified odor complaints or Notices of Violation from the State of Delaware and the compost produced met every Federal and State standard for unrestricted use.



### Composting, lots of ways















### How important is scale and distributed infrastructure? Where does home composting fit in?

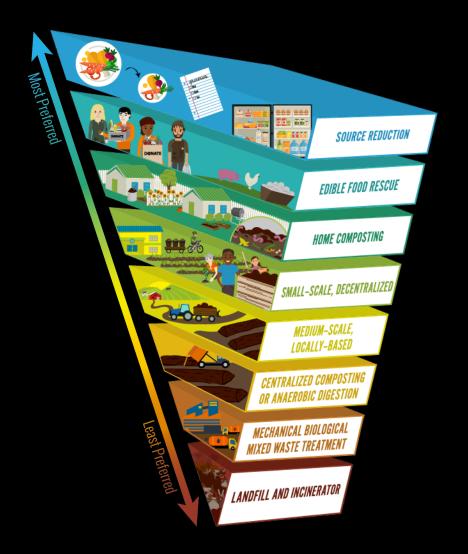


Hierarchy to Reduce Food Waste and Grow Community













#### **Source Reduction**

Prevention. Do not generate food waste in the first place! Reduce portions, buy what you need, and organize your fridge for optimal food usage.







#### **Edible Food Rescue**

Feed hungry people. Divert food not suitable for people to animals such as backyard chickens or to local farmers' livestock.







#### **Home Composting**

Composting in backyards or in homes. Avoid collection costs!







#### **Small-Scale, Decentralized**

Onsite composting or anaerobic digestion, and community composters can accept material from off-site or simply process their own material.







#### Medium-Scale, Locally-Based

Composting or anaerobic digestion at the small town or farm scale. These systems handle typically between 10 and 100 tons per week and are designed to serve small geographic areas.









### **Centralized Composting or Anaerobic Digestion**

Facilities serving large geographic areas that typically handle more than 100 tons per week.

Material generally leaves the community in which it is generated.







### **Mechanical Biological Mixed Waste Treatment**

Mixed garbage is mechanically and biologically processed to recover recyclables and reduce waste volume and the potential for methane emissions before landfill disposal.





#### **Landfill and Incinerator**

Food waste should be banned from landfills and trash incinerators due to their high capital costs, pollution, and contribution to greenhouse gas emissions.



### Farmers need investment & support!

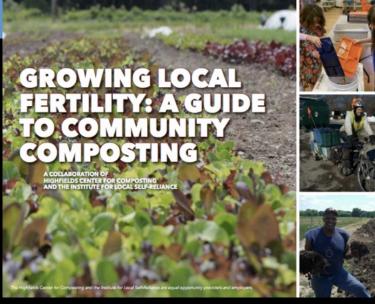


### Definition of Community Composting

Community composting keeps the process and product as local as possible while engaging the community through participation and education









Download the free Growing Local Fertility: A Guide to Community Composting at www.ilsr.org/growing-local-fertility

### NYC Supports Community Composting

# 2014 NYC Community Composting Report Submitted January 2016 by NYC Department of Sanitation Commissioner Kathryn Carcla to: 4 Mayor Bill de Blasto - City Council Speaker Melsea Mark-Nivertio - City Council Speaker Melsea Mark-Nivertio - Chair of the Committee on Sanitation & Solid Waste Management Antonio Reynozo





#### **DSNY Organic Waste Diversion Strategy:**

DSNY believes that a strong organic waste diversion strategy for NYC will operate at three scales:

- at a citywide level,
- ② in communities and neighborhoods, and
- 3 in the home.





Rebuilding our soil, neighborhood by neighborhood.

Included in this map are all community compost sites affiliated with the NYC Compost Project.

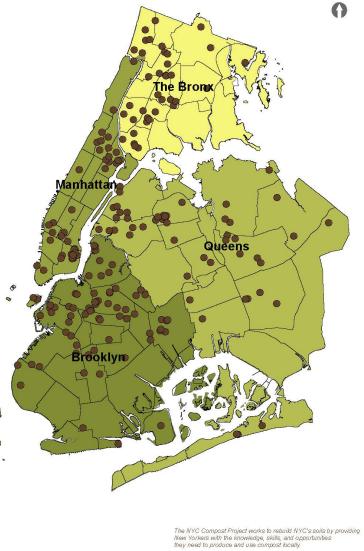
Community Compost Sites Affiliated with the NYC Compost Project (225)

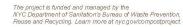
### Community Compost Sites Affiliated with the NYC Compost Project

oompoort rojeer	
Borough	Total per Borough
Brooklyn	68
Bronx	37
Manhattan	48
Queens	52
Staten Island	20
Total	225

5 10 Miles



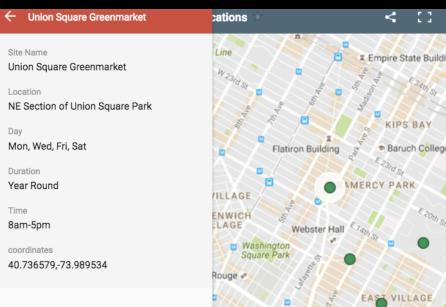






### Drop-off Network







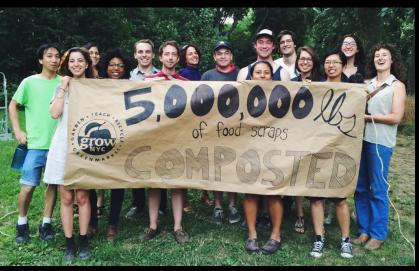












#### **Visit a NYC Project Compost Site**

Contact any of these sites to take a tour or volunteer:

- NYC Compost Project hosted by Big Reuse, Queens
- NYC Compost Project hosted by Brooklyn Botanic Garden, Brooklyn
- NYC Compost Project hosted by Earth Matter NY, Governors Island
- NYC Compost Project hosted by Queens Botanical Garden Farm & Compost, Queens
- NYC Compost Project hosted by Lower East Side Ecology Center, Manhattan

#### **Visit a Composting Demonstration Site**

Demonstration sites are composting sites that are seen as model locations with strong community relationships.

- Brooklyn Botanic Garden, Brooklyn
- The New York Botanical Garden, Bronx
- Queens Botanical Garden, Queens
- Snug Harbor Cultural Center and Botanical Garden, Staten Island



### Bike-Powered Collection

Growing



Virginia Streeter and Brenda Platt

OOD scrap collection services have been starting up all over the country, providing an opportunity for residential and commercial customers to divert organics. One segment of this burgeoning sector is bike-powered collection. The Institute for Local Self-Reliance (ILSR) recently interviewed 17 bike-powered food scrap collectors and visited the sites of three. This article summarizes information gleaned from these organizations, and includes their tips for running a food scrap collection service. Tables 1 and 2 provide specific details on each collec-tion service. The ILSR undertook this research to facilitate replication of a bike-powered food scrap collection and community composting program with the Chesapeake Center for Youth Development in the Curtis Bay neighbor-hood of Baltimore.

Questions asked during the interviews covered starting up, employees and volunteers, composting sites and gagement and marketing, and finances. The majority of interviewees have a residential and commercial customer base. Truman State Rot Riders, a student organization, is one exception - it exclusively serves residential custom-ers. ReSoil Sacramento, one of the programs run by GRAS (Green Restaurant Alliance Sacramento), only serves restaurants and other food providers (e.g. a zoo and a women's shelter) as GRAS' mission is to create a more sustainable food community by working directly with providers. Kristen Baskin of Let Us Compost only offers bike pickup services to residential customers, and uses a truck for commercial

#### STARTING UP

While each universal. Alm existing compa ing these examn talked about mi For instance, al ginning. Ivy You no to anyone ir and thus has for ing. Several or really trying to for biking servi come too much



## The BK ROT model in the Bushwick neighborhood of Brooklyn, NY



### Red Hook Community Farm (Brooklyn)















### Red Hook Community Farm (Brooklyn)





### ECO City Farms (MD)





### Real Food Farm, Baltimore











# Filbert St. Community Garden Baltimore Compost Collective















### Youth Engagement













### Ramona Unified School District (CA)

### 2014-2015

- Source reduction = 2,860 lbs
- **★** Fed people = 7,280 lbs
- $\star$  Fed animals = 3,840 lbs
- $\times$  Composted = 6,576 lbs

A cost benefit >\$18,000 in 2015

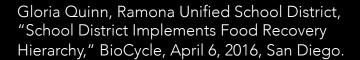








food pantry.



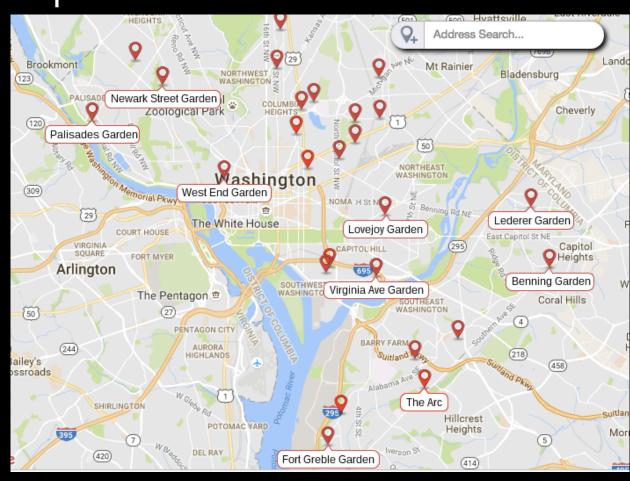


# Howard Co. Dept. of Corrections (Jessup, MD)



# DC DPR Community Compost Cooperative Network

- 50+ DPR gardens have a Compost Knox system
- Each site has a compost manager
- Each site has a community compost cooperative





https://dpr.dc.gov/page/community-compost-cooperative-network

# Composting & Training at First DC Urban Food Hub















### Sites for home composting workshops











### YES! IN MY BACKYARD: A Home Composting Guide for Local Government

Part 1 – overview and lessons learned

Part 2 – why local government should support home composting programs

Part 3 – lessons from profiled programs

Part 4 – problem of antiquated ordinances and laws to promote home composting

Part 5 – case studies of 11 city and county programs

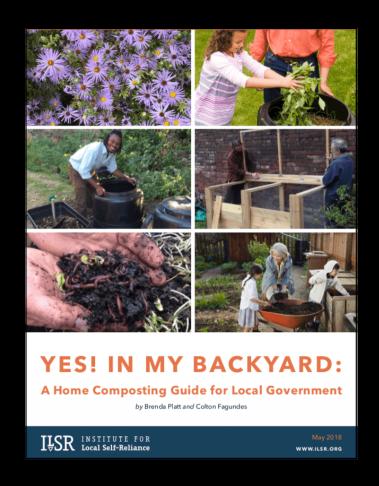
Appendix A - Sample Outreach Materials

Appendix B - Sample Print Educational Materials

Appendix C - Reports on Local Programs

Appendix D - Sample Ordinances

Appendix E - Miscellaneous





https://ilsr.org/yimby-compost/

### https://ilsr.org/ yimby-compost/

### 10 Steps for a Successful Program

### STEP ONE

Get initial buy-in from those who will be necessary to implement the program. This includes making sure that local ordinances and health and sanitation departments will not impede home composting.

See Part 4, Ordinances: The Good, the Bad, and the Ugly

### STEP TWO

Decide how the program is going to fit into your waste reduction strategies. If you have a successful residential organics collection program, the challenge is getting residents to use their home composter rather than putting everything at the curb.

See Part 2, Home Composting Integrates with Curbside Collection

### STEP THREE

Secure dependable multi-year funding. Outside grants and donations can help offset costs.

→ See Spotlight - Partnering to Save More Money

### STEP FOUR

Secure solid supply lines for compost bins. Either issue a request-for-bids from manufacturers or set up a voucher/rebate arrangement with local retailers to stock home composting bins.

See Part 3, Composting Bins and Other Equipment: Bin Options, Prices, and Modes of Delivery

### STEP FIVE

Decide on a bin type and price, and means of getting into the hands of residents.

See Part 3, Pricing and Delivery of Bins: Finding the Sweet Spot



New York City's 2006 truck sale. Source: New York City Compost Project

### STEP SIX

Set up easily accessible composting education and training. This can include workshops, informational material, and hotlines.

See Part 3, Education, Training, and Information

### STEP SEVEN

Advertise the program.

> See Part 3, Marketing and Outreach

### STEP EIGHT

Provide support to residents after they purchase bins. The success of the program is not just how many bins are sold, but how many are in use.

→ See Spotlight - Orlando's Troubleshooting Hotline

### STEP NINE

Collect data on composted amounts from participating residents and calculate the costs/savings of the program.

> See Part 2, Save Money

### STEP TEN

Keep data on as many aspects of the program as possible, such as number of bins distributed, number of attendees in workshops, how residents hear about the program, and program expenses. Use this data to analyze and improve the program.

> See Part 3, Comprehensive Research Agenda



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- 2. No commercial facilities needed





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### Diversion Potential?

For every 10,000 households home composting, an estimated 1,400 tons per year could be diverted from disposal, avoiding ~\$72,000 per year in disposal fees alone.

For every 10,000 households receiving personalized hands-on training and support with subsidized bins, this tonnage could grow to as much as 5,000 tons per year, with avoided disposal fees jumping to ~\$250,000.









### Profiled Communities

Seattle's 1<sup>st</sup> master composter class in 1986

City/County	Population (2016)	Program Start Year	Total # All Bins Distributed Since Program Start <sup>a</sup>	Last Reported # Bins Distributed in Single Year <sup>b</sup>
Austin	947,890	2010	4,870	581°
Cheverly (MD)	6,469	2011	~400	leveled off demand
Los Angeles County	10,137,915	2005	N/A	1,422
Miami-Dade County (FL)	2,712,945	2014	445	N/A
Napa (CA) <sup>d</sup>	80,416	1997	4,218	120
New York City	8,537,673	1998	20,299	38e
Oregon Metro <sup>f</sup>	1,790,607	1993	109,090	400 <sup>9</sup>
Orlando (FL)	277,173	2015	5,340	N/A
San Diego	1,406,630	2012	1,973	N/A
Seattle	704,352	1989	N/A (35,644 as of 1996)	N/A
Vancouver (Canada)	631,486	1990	~53,000	286



b For 2017, unless noted.

f Oregon Metro is the regional government for the Oregon portion of the Portland metropolitan area. It serves 25 cities in Clackamas, Multnomah, and Washington counties (as well as unincorporated parts of those counties).

g Average per year since 2012.

Source: Institute for Local Self Reliance, 2018.



c For fiscal year 2015 (July 2014 - June 2015).

d Napa's program is run by the City but covers Napa County. Population figure represents the City's population. The County's population was 142,166 in 2016.

e For fiscal year 2016.

### Key Take-Aways & Recommendations



- ▲ Orlando residents and City employees using an Earth Machine™ composting bir with the Green Works Orlando logo pasted on it to indicate that the free bin is owned by the City of Orlando. Source: City of Orlando

A Master Composter class underway in San Diego. Source: City of San Diego

- Make home composting bins accessible to residents
- Educate and train
- Outreach and market
- Measure, evaluate, and improve
- Address antiquated ordinances



## Bin Types & Prices



 Many stationary compost bins come packaged in easily transportable and stackable packaging, such as the Soil Saver bin pictured here in Napa. Source: City of Napa.



The Earth Machine™ (pictured here at the Earth Matter NY demonstration site on Governors Island in New York City) is the most commonly offered standard design backyard compost bin of the programs reviewed in this report. Source: Institute for Local Self-Reliance



A family tending to a FreeGarden™ Earth compost bin provided by Oregon Metro in their backyard. Source: Oregon Metro



The Can-O-Worms composting bin is offered by Los Angeles County and San Diego. Source: gstore.com.au

City	Current Type of Backyard Composter (price)			
Austin	Voucher/rebate for any bin (up to \$75 off)			
Cheverly	Earth Machine™ (\$20), FreeGarden™ Earth (\$20)			
Los Angeles County	Soil Saver (\$40)			
Miami-Dade County	Earth Machine™ (free)			
Napa	Earth Machine™ (\$20), Soil Saver (\$20)			
New York City	Earth Machine™ (\$65), Garden Gourmet (\$65), assembled in-house metal trash can composter (\$20)			
Oregon Metro	FreeGarden™ Earth (\$49)			
Orlando	Earth Machine™ (free)			
San Diego	Vouchers for Soil Saver (\$47.99 after \$30 voucher), Terra Dual Batch Composter (\$129.99 after \$50 voucher)			
Seattle	Green Cone (\$119), Beaver State Plastic Recycler Yard Composter (\$80)			
Vancouver	Earth Machine™ (\$25 with free aerator)			
Source: Institute for Local Self Reliance, 2018				



Seattle yard composter



**Green Cone** 



Terra Dual Batch



### Worm Bins Too





City	Current Type of Worm Bin (price)			
Austin	Voucher/rebate for any bin (up to \$75)			
Los Angeles County	Can-O-Worms (\$40)			
Napa	Rebate (\$30), and option to construct own for free at workshops			
New York City	Assembled in-house (\$55)			
San Diego	Can-O-Worms (\$59.99 after \$40 voucher, comes with mail-in voucher for free pound of worms)			
Vancouver	Provided by Transform Compost Systems (\$25 with worms)			

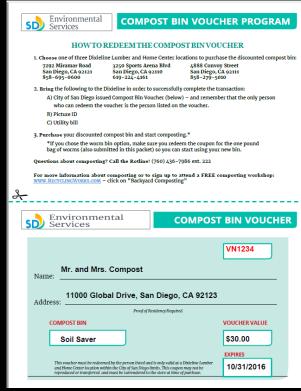




# Bin Distribution – many options

- Vouchers/rebates (freedom to choose bin types)
- Subsidized bins for residents to buy at below market-value price
- Bulk purchased bins with savings passed on to residents
- Pre-order program of discounted bins, delivered to a central location
- Truck sale events (bins sold at discounted prices at pre-planned locations)
- Free bins







# Cheverly, MD, shows 25% of residents will backyard compost, saving money on collection and disposal fees

- ★ April 2011, backyard composting program
- 25% of 1,600 single-family homes participating
- ~100 tons per year composted
- \* ~\$6,000 in avoided disposal fees/year
- Total savings expected to be \$120,000 over 20 years
- A dozen municipalities have implemented the program (including Bowie, Greenbelt, Mount Rainier, Berwyn Heights, Colmar Manor & Brentwood).





Source: Doug Alexander, NIE Institute, Landover Hills, MD

### Educate & Train

City	Free In-person Workshop Available	Workshop Required to Get Bin	Master Composting Course	Demo Site <sup>a</sup>	Compost Hotline	Online and/ or Print Educational Materials
Austin	<b>~</b>	<b>~</b>				~
Cheverly						~
Los Angeles County	<b>~</b>	~		~		<b>~</b>
Miami-Dade	<b>~</b>	~				<b>~</b>
Napa	<b>~</b>	~				<b>✓</b>
New York City	<b>~</b>		<b>~</b>	~	~	<b>~</b>
Oregon Metro			<b>~</b>	~		<b>~</b>
Orlando	<b>✓</b>				~	<b>✓</b>
San Diego	<b>~</b>				~	<b>✓</b>
Seattle	<b>✓</b>		<b>~</b>	~	~	<b>✓</b>
Vancouver	~			~	~	~

a Permanent sites where the public can see compost bins in use. Source: Institute for Local Self Reliance, 2018.





Austin's program offers several options for home composting training. To receive a composting bin voucher or rebate, residents must take either an in-person or online class. Program coordinators also collect data to frequently improve the training and how it is provided. Other cities and counties starting a home composting program can learn from the flexibility and adaptability of Austin's approach to composting education.

### Online Classes

The online class includes a 15-minute video and brief quiz. In Austin's program, more people claim compost bin vouchers or rebates through the online class than in person. Providing classes online is a potential cost-efficient option for home composting programs that may lead to more people claiming bins, but it is uncertain if such classes are as effective of an educational experience as in-person classes. Austin still sees a significant number of people participating in their physical workshops; some do not claim the subsidized voucher/rebates, but simply attend to learn about composting. Therefore, online classes are not a replacement for in-person classes. Requiring that residents take an online class ensures that new composters have some understanding of the composting process. By hosting



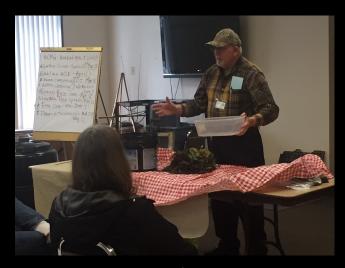
When the weather is nice, Austin Resource Recovery holds compost workshops outside in parks and farmers' markets. During the rainier months, Austin holds the workshops in frequented in-door locations such as libraries. Source: Austin Resource Recovery

in-person workshops in targeted locations, a program can also provide the opportunity for a more thorough educational and hands-on experience and reach those residents that are already composting but wish to gain more training.

### Community-taught Workshops

One more option Austin residents have is to hold their own classes using materials provided by the City. These community classes have the choice to use either the online class video, an AV projector presentation, or fact sheet handouts. A community member only needs to sign up online, choose which materials they would like to use, and the City will email that person the appropriate attachments and an Eventbrite link.

# Training & Demo Sites



Napa compost class



Los Angeles class



Vancouver worm composting workshop



San Diego demonstration site



### Orlando – Get Dirty for Valentine's Day



THURSDAY MAY 19, 2016

ALL SECTIONS NEWS SPORTS BUSINESS CLASSIFIED OBITUARIES ENTERTAINMENT TRAVEL

Orlando suggests something 'dirty' for Valentine's Day

- FREE bins to City of Orlando residents
  - Free home delivery
  - Assembled
  - The Earth Machine
- Launch February 14, 2015 "Get Dirty" Campaign
  - Get Dirty for Valentine's Day
  - Get Dirty with Your Neighbors
- × 5,300+ delivered

### Policies help set the stage

Bill No. 28-16
Concerning: Sold Waster
Strategic Plan to
Compositing: Composit to
Waste Diteration
Revised: 32/0/2016 Draft Introduced June 28, 2016
Express December 28
Exacted: Executive: Effective: Sunsert Date: Mone
Ch. Laws of Mont. Co.

### COUNTY COUNCIL FOR MONTGOMERY COUNTY, MARYLAND

Lead Sponsor: Vice President Berliner Co-Sponsors: Councilmembers Katz and Hucker

### AN ACT to:

- require the Director of the Department of Environmental Protection to Strategic Plan to Advance Composting, Compost Use and Food Waste I. Montgonery County
- generally amend County laws related to Solid Waste (Trash).

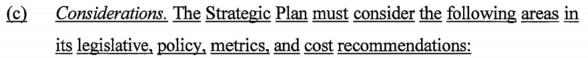
### By adding

Montgomery County Code Chapter 48, Solid Waste (Trash) Section 48-17B

### Boldface

Underlining [Single boldface brackets] Double underlining [[Double boldface brackets]] Heading or defined term.
Added to existing law by original bill.
Deleted from existing law by original bill.
Added by amendment.
Deleted from existing law or the bill by amende
Existing law unoffected by bill.

The County Council for Montgomery County, Maryland approves the following



- (1) home composting;
- (2) community-scale composting;

\_ 3 .

BILL No. 28-16

- (3) on-site institutional and commercial composting;
- (4) on-farm composting;
- (5) small-scale commercial composting facilities;
- (6) support for existing and new composting businesses in the form of grants, loans, and land;
- (7) models and best practices, including methods and materials, used by other jurisdictions;



Montgomery County, Maryland **Department of Environmental Protection Division of Solid Waste Services** 







### **Strategic Plan to Advance Composting, Compost Use, and Food Scraps Diversion** in Montgomery County, Maryland



### **April 2018**

Montgomery County, Maryland Department of Environmental Protection, Division of Solid Waste Services

For information in an alternate format, contact Eileen Kao at (240) 777-6406.





### In-Home, Backyard, and Community-Scale Composting



Montgomery County has promoted grasscycling (leaving grass clippings on the lawn after mowing) backyard and community-scale composting of yard trim materials through training, compost workshops and demonstrations, distribution of educational materials, and vermicomposting to recycle kitchen food scraps in-home. Over the long-term, the County has successfully used education and training to encourage residents to grasscycle and compost yard trim materials. At the Montgomery County Composting Facility, a maximum of 77,000 tons of materials may be processed annually, and DEP's efforts have encouraged many residents to manage their grass and leaves at the source. In fact, since 2007, DEP has also distributed over 38,000 backyard compost bins to residents to use for backyard composting. According to the County's most recent Waste Composition Study, yard trim materials accounted for less than 2% of the County's overall disposed waste stream, indicating that most yard trim is recycled through composting (via backyard/on-site, community, or composting facilities) or grasscycling. The County should evaluate the feasibility of encouraging residents to recycle food scraps through at-home, backyard, and community-scale composting programs.



- · Continue educational efforts on all forms of in-home, backyard, and community-scale composting, including providing compost training workshops and demonstrations on best practices for backyard and community-scale composting, as well as research and evaluation of other types of compost bins that are suitable for composting food scraps.
- · Conduct a coordinated inter-agency review of existing requirements and restrictions pertaining to backyard/community-scale composting, and recommend regulatory changes to County zoning and applicable County codes to clarify, and support activities to include food scraps.
- Consider implementation of regulatory changes or modifications to promote and encourage proper backyard and community-scale composting activities.
- Consider increased collaboration with community-based stakeholders and other pertinent groups (i.e., The Maryland-National Capital Park and Planning Commission - Montgomery Parks, Montgomery County Public Schools, and interested residents, multi-family properties, and businesses or organizations) to establish community-scale composting demonstration projects throughout the County.



Resources which may include staffing, operating, and/or capital funds that are needed to support these recommendations are dependent on the specific details that should be determined in the development of an implementation plan.



https://www.montgomerycountymd.gov/sws/foodwaste/

### MD Infrastructure Bill

### **HOUSE BILL 171** 7lr0704 CF SB 99 By: Delegates Robinson, Cassilly, Barkley, Carr, Fraser-Hidalgo, Gilchrist, Kelly, Kramer, Lam, Luedtke, Moon, Morhaim, Pena-Melnyk, Platt, Reznik, and Introduced and read first time: January 19, 2017 Assigned to: Environment and Transportation A BILL ENTITLED 1 AN ACT concerning Department of the Environment - Yard Waste and Food Residuals Diversion and Infrastructure - Study FOR the purpose of requiring the Department of the Environment, in consultation with certain persons, to study, review, explore, identify, and make recommendations regarding certain matters that relate to the diversion of vard waste from refuse disposal facilities, including certain infrastructure; requiring the Department to report its interim and final findings and recommendations to the Governor and the General Assembly on or before certain dates; and generally relating to yard waste and food residuals diversion and infrastructure. SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND, 12 That: (a) The Department of the Environment shall: (1) study the diversion of yard waste and food residuals from refuse 15 disposal facilities in the State, including any State laws or regulations governing the 16 diversion of yard waste or food residuals; (2) study the laws and regulations of other states governing the diversion 18 of yard waste or food residuals; review the status of infrastructure for the diversion of yard waste and 20 food residuals in the State and other states, including the availability of infrastructure in 21 relation to: 22 23 distribution; and large generators of food waste, identified by type and geographic

(4) explore ways to promote composting of yard waste and food residuals and other methods of organic waste reduction and diversion, including ways to encourage a decentralized and diverse infrastructure;



3

### What you can do... ideas to support home composting

- Partner with nonprofits to provide training and demo sites
- Support local business
- Encourage DIY bins
- Do not unnecessarily restrict community exchange of materials
- The potential to expand home composting is largely untapped but massive
- Be creative and innovative!



Seattle 2-bin DIY system



### What can you do... ideas to support distributed composting

- Support diversified infrastructure
- Technical assistance and tools for locally based systems
- Support locally based systems
- Support reasonable policies & regs
- Procurement of finished compost
- Renewed focus on SCHOOLS
- Equipment for community scaled systems
- Support training and well operated sites





**Photos: NYC Compost Project** 



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www.ilsr.org



"What Is Community Composting" video: https://ilsr.org/video-community-composting/

Need help designing your own home composting program or offering training?

Our **Neighborhood Soil Rebuilders Composter Training Program** can be adapted to your community!

Contact us at composting4community@gmail.com

