



Independent coverage of composting, wood recycling and organics management



# Composting News

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Market Intelligence

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## Federal food waste bills promote composting

By Ken McEntee

**F**ood waste reduction bills introduced to the U.S. House and Senate late last month contain provisions that encourage composting as a conservation practice eligible for support under USDA's conservation programs, which include loans and grants.

On July 27, Rep. Chellie Pingree (D-Maine) introduced H.R. 3444, the Food Recovery Act, which aims to reduce food waste in stores and restaurants, schools and institutions, on farms and in American homes. The bill was referred to the House Agriculture Committee and several other committees for consideration.

A companion senate bill, S. 1680, was introduced by Sen. Richard

*(See Legislation, page 5)*



## Austin expands curbside composting

**T**he city of Austin will expand its curbside composting collection program to about 38,000 additional homes in October. The program collects food scraps, yard trimmings and food soiled paper and converts them into nutrient-rich compost.

The program is part of the city's Zero Waste goal to divert 90 percent of materials from landfills by 2040.

Prior to this expansion, curbside composting was in a pilot phase, which included 14,000 homes throughout Austin. Austin Resource Recovery, a department of the city of Austin, plans to add all curbside customers to the service by 2020, pending funding approval by City Council in future years.

"During the pilot, the city collected more than 15,000 tons of compostable materials, including food scraps, yard trimmings and food-soiled paper such as pizza boxes," said Sam Angoori, interim director of Austin Resource Recovery. "As we add

*(See Austin, page 13)*



*Austin reduced its cart size to an optional 32-gallon size because residents said a 96-gallon cart was too large.*

*Photo: City of Austin*

## CalRecycle awards \$24 million in organic waste grants

**T**he California Department of Resources Recycling and Recovery (CalRecycle) has awarded \$24 million in grants to help convert more of the state's organic waste - food, green waste and wood - into renewable energy and compost.

CalRecycle said the grants are aimed at the state's efforts to slow and reverse the effects of climate change.

"These latest climate investments provide a much-needed boost to California's organic waste recycling capacity, which the state must roughly double to meet its greenhouse gas

reduction and 75 percent recycling goals," said CalRecycle Director Scott Smithline. "These infrastructure projects will diversify our local economies, creating durable green jobs that can't be outsourced."

CalRecycle helps fund construction,

*(See CalRecycle, page 5)*

### Highlights

- n **New Fed book touts benefits of organic agriculture**
- n **National compost prices**

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**Agriculture**

# New Fed book touts benefits of organic agriculture

The significant and long-lasting economic benefits that organic agriculture can offer local communities are featured in a new book released this month by the Federal Reserve Bank of St. Louis and the U.S. Federal Reserve board of governors.

The book, *Harvesting Opportunity: The Power of Regional Food System Investments to Transform Communities*, is a compilation of research, essays and reports exploring how the growing popularity of locally sourced food can be harnessed to boost economic opportunities for rural and urban communities.

The feature chapter on organic, *Organic, A Solid, Beneficial and Sustainable Investment*, is co-authored by Dr. Edward Jaenicke, associate professor for agricultural statistics at Penn State University, and Maggie McNeil, senior editor at the Organic Trade Association (OTA). The authors detail the findings of a Penn State research paper about organic hotspots summarized last year in a white paper released by OTA, *U.S. Organic Hotspots and Their Benefit to Local Economies*, and give real-life examples of how successful investment in organic agriculture creates jobs and business opportunities at the local level and increases the economic possibilities available in a locality.

“Organic agriculture can play a key role in growing a community’s economy, and we were pleased to be able to discuss organic’s positive role in this important and timely

(See Fed, page 4)



9815 Hazelwood Avenue  
Cleveland, OH 44149-2305  
Phone: (440) 238-6603  
Fax: (440) 238-6712  
ken@recycle.cc  
www.compostingnews.com  
**Publisher/Editor:**  
Ken McEntee  
**Office Manager:**  
Amy McEntee

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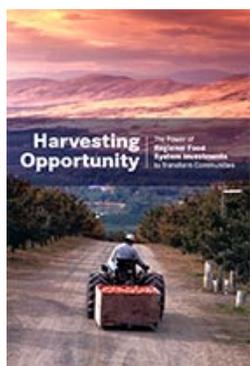
ApolloEquipment.net

## Agriculture

### Fed

From page 3

publication,” said Laura Batcha, OTA’s CEO and executive director. “We commend the St. Louis Fed, the Fed’s board of governors and the Department



of Agriculture for putting together this significant body of work on the importance of investing in and developing healthy and vibrant regional food systems.”

In the book’s forward, Federal Reserve Board Governor Lael Brainard and St. Louis Fed President James Bullard write, “Regional food systems represent a promising avenue for economic

growth for both rural and urban communities through the creation of new or the enhancement of existing jobs and businesses.”

The chapter on organic agriculture highlights the findings of the study on organic hotspots, which finds that on average, county poverty rates drop by 1.3 percentage points and median household income rise by more than \$2,000 in counties with high organic activity that neighbor other high-organic counties.

“We know that organic agriculture benefits our health and our environment,” said Batcha. “The groundbreaking organic hotspot research shows organic can also benefit our livelihoods and help support and revitalize our rural economies. Organic has come a long way on its own, but this research proves that if we invest in organic, the returns will be high for everyone.”

Two case studies of the broad positive implications for local

communities of successful investment into organic agriculture were featured in the chapter. Farmland LP, an investment fund based in San Francisco, buys conventional land and converts it to organic using a pasture and crop rotation, and then manages the farmland with local producers to deliver environmental, societal and financial returns. Farmland now manages more than 2,000 acres of certified organic land, with thousands more acres in transition.

The second, Keller Enterprises, is a Louisiana-based family company that transitioned its Inglewood Farm to organic and to what is now the largest certified organic farm in Louisiana. Through Inglewood and the family’s philanthropic funding and work with regional food projects in Louisiana, Keller Enterprises has become a major voice in the healthy food movement in the state.

Craig Wichner, Farmland LP managing partner, calls this a “virtuous

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cycle” – using sustainable agricultural practices to convert farmland to organic allows farmers to scale up and sell higher value crops; this boosts their incomes and enables them to spend more money in their local communities, stimulates the economy and all the while supporting the conversion of more land to organic.

Done in partnership with the U.S. Department of Agriculture’s agencies of Rural Development and the Agricultural Marketing Service, the book, in addition to organic, covers topics such as:

- The prospects available in the regional food systems sector;
- How to advance efforts to provide meaningful earnings and job opportunities for lower and middle-income households and communities;
- The vital partnerships that are key for deploying knowledge and capital to support the sector’s continued growth;

- Examples of communities who have used regional food strategies to advance economic and other community goals, and models of collaboration between policymakers, practitioners, and the financial community;

- Examples of the how improved access to healthier foods can boost community health and lead to a more productive workforce.

You can download the book at <http://tinyurl.com/yasakya> or by scanning the above code with your mobile device..



## Food waste

### Legislation

From page 1

Blumenthal (D-Conn.).

The bills are nearly, but not completely identical.

Every year in the U.S., Pingree said, 40 percent of food produced domestically goes uneaten. Meanwhile, domestic food production accounts for 50 percent of U.S. land use, 80 percent of fresh water consumption and 10 percent of the total energy budget. Food waste in landfills further harms the environment by contributing to the production of methane, she said.

H.R. 3444 encourages composting as a conservation practice by adding it to the U.S. Code (16 U.S.C. 3801(a)), which was created by the Food Security

(See Legislation, page 8)

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# National Compost Prices

The prices listed below are intended to indicate the value of mature compost products sold by compost producers and retailers in noted regions. Prices listed are based on surveys and publicly posted prices.

Your input on published prices is encouraged. Contact Ken McEntee, editor, at (440) 238-6603. Fax: (440) 238-6712. EMail: ken@recycle.cc. Address: 9815 Hazelwood Avenue, Cleveland, OH 44149. Notes on listings.

- Each listing includes a high price obtained, a low price obtained and an average of all prices obtained within a particular market.

- Market areas: Thirteen market areas have been targeted to provide a cross section of compost product markets in

the U.S. Where regions are not identified by a specific city, "Chesapeake" refers to the region stretching between Norfolk, Va. to Baltimore, Md. "Texas" incorporates several major cities in the state. "Northwest" represents the Seattle and Portland, Ore areas. "SF-Bay" refers to the San Francisco Bay area. SoCal is Southern California, including the Los Angeles and San Diego areas. Denver includes Colorado, Wyoming and Montana.

- "Food waste" compost: This category refers to compost products that include food waste, regional specialties and other feedstocks not specifically covered in other categories.

- Manures: Chicken manures may include other poultry

manures, such as turkey and duck manure. Cow manures may include manures marketed as steer and dairy manure. Horse manure is included in this category as well.

- Absence of a regional listing within a given category indicates not enough information for a valid listing.

Additional data will be added as more information is obtained.

- Bulk retail prices do not include municipal operations that give compost away for free.

## Bulk Retail (yard)

Yard waste compost	Average	High	Low
NE	\$ 31.36	\$ 77.00	\$ 17.50
Chesapeake	\$ 24.50	\$ 30.00	\$ 17.00
SE	\$ 21.88	\$ 29.95	\$ 16.00
Florida	\$ 16.42	\$ 26.00	\$ 10.50
Cleveland	\$ 19.90	\$ 28.00	\$ 12.50
Iowa	\$ 21.57	\$ 53.00	\$ 7.50
Minneapolis	\$ 17.09	\$ 28.00	\$ 8.00
Texas	\$ 28.75	\$ 40.00	\$ 15.00
Denver	\$ 20.31	\$ 31.00	\$ 12.00
Northwest	\$ 24.05	\$ 55.00	\$ 10.00
SF-Bay	\$ 21.92	\$ 30.00	\$ 10.00
SoCal	\$ 16.16	\$ 40.00	\$ 5.00

Food waste compost	Average	High	Low
NE	\$ 37.84	\$ 64.00	\$ 17.50
Chesapeake	\$ 23.00	\$ 30.00	\$ 15.00
SE	\$ 28.11	\$ 35.00	\$ 24.00
Florida	\$ 17.50	\$ 22.00	\$ 13.00
Iowa	\$ 25.00	\$ 65.00	\$ 15.00
Minneapolis	\$ 12.33	\$ 16.00	\$ 9.00
Texas	\$ 30.21	\$ 48.95	\$ 15.00
Denver	\$ 15.00	\$ 15.00	\$ 15.00
Northwest	\$ 20.55	\$ 30.00	\$ 15.00
SF-Bay	\$ 23.61	\$ 38.00	\$ 14.00
SoCal	\$ 30.50	\$ 45.00	\$ 16.00

Leaf humus	Average	High	Low
NE	\$ 24.98	\$ 30.00	\$ 19.95
Chesapeake	\$ 27.49	\$ 30.00	\$ 23.95
Cleveland	\$ 19.27	\$ 26.00	\$ 8.00

Composted biosolids	Average	High	Low
NE	\$ 30.00	\$ 40.00	\$ 20.00
Chesapeake	\$ 26.75	\$ 35.00	\$ 12.00
SE	\$ 12.10	\$ 28.00	\$ 4.00
Florida	\$ 13.14	\$ 22.00	\$ 8.00
Cleveland	\$ 24.77	\$ 30.00	\$ 19.50
Iowa	\$ 12.67	\$ 21.00	\$ 8.00
Texas	\$ 21.28	\$ 30.00	\$ 10.00
Denver	\$ 9.00	\$ 10.00	\$ 7.00
Northwest	\$ 17.91	\$ 26.00	\$ 7.00
SoCal	\$ 10.85	\$ 22.00	\$ 3.50

Composted chicken manure	Average	High	Low
NE	\$ 45.00	\$ 50.00	\$ 40.00
Chesapeake	\$ 25.00	\$ 25.00	\$ 25.00
SE	\$ 42.00	\$ 42.00	\$ 42.00
Minneapolis	\$ 17.00	\$ 17.00	\$ 17.00
Texas	\$ 37.23	\$ 47.50	\$ 26.95
Denver	\$ 25.65	\$ 28.00	\$ 24.00
SF-Bay	\$ 16.00	\$ 16.00	\$ 16.00
SoCal	\$ 44.00	\$ 75.00	\$ 27.00

Composted cow manure	Average	High	Low
NE	\$ 45.50	\$ 46.00	\$ 45.00
SE	\$ 31.33	\$ 45.00	\$ 12.00
Cleveland	\$ 24.00	\$ 24.00	\$ 24.00
Iowa	\$ 42.00	\$ 60.00	\$ 16.00
Minneapolis	\$ 29.33	\$ 32.00	\$ 26.00
Texas	\$ 28.47	\$ 47.50	\$ 15.00
Denver	\$ 21.71	\$ 30.00	\$ 12.00
Phoenix	\$ 20.00	\$ 20.00	\$ 20.00
Northwest	\$ 23.85	\$ 33.75	\$ 17.45
SF-Bay	\$ 26.00	\$ 26.00	\$ 26.00
SoCal	\$ 17.25	\$ 24.00	\$ 12.00

Wood waste mulch	Average	High	Low
NE	\$ 22.72	\$ 42.00	\$ 12.50
Chesapeake	\$ 21.13	\$ 28.00	\$ 12.00
SE	\$ 18.78	\$ 34.95	\$ 12.00
Florida	\$ 17.50	\$ 18.00	\$ 17.00
Cleveland	\$ 25.56	\$ 36.25	\$ 14.00
Iowa	\$ 32.50	\$ 40.00	\$ 25.00
Minneapolis	\$ 26.00	\$ 35.00	\$ 20.00
Texas	\$ 15.86	\$ 27.00	\$ 9.00
Denver	\$ 18.74	\$ 25.00	\$ 12.48
Phoenix	\$ 17.61	\$ 22.95	\$ 10.00
Northwest	\$ 19.00	\$ 35.00	\$ 7.50
SF-Bay	\$ 18.14	\$ 30.00	\$ 8.00
SoCal	\$ 20.50	\$ 50.00	\$ 6.00

Colored wood mulch	Average	High	Low
NE	\$ 28.00	\$ 28.00	\$ 28.00
Chesapeake	\$ 28.67	\$ 33.00	\$ 25.00
SE	\$ 27.13	\$ 42.00	\$ 15.00
Florida	\$ 20.33	\$ 22.00	\$ 19.00
Cleveland	\$ 24.87	\$ 28.99	\$ 21.95
Iowa	\$ 30.00	\$ 30.00	\$ 30.00
Minneapolis	\$ 36.80	\$ 49.00	\$ 30.00
Texas	\$ 26.08	\$ 32.50	\$ 18.00
Denver	\$ 33.28	\$ 33.28	\$ 33.28
Northwest	\$ 35.00	\$ 35.00	\$ 35.00
SF-Bay	\$ 34.00	\$ 36.00	\$ 28.00
SoCal	\$ 32.50	\$ 35.00	\$ 30.00

## Bulk wholesale (yard)

Yard waste compost	Average	High	Low
NE	\$ 19.82	\$ 48.00	\$ 11.00
Chesapeake	\$ 13.39	\$ 16.00	\$ 8.00
SE	\$ 16.66	\$ 25.00	\$ 8.65
Florida	\$ 9.75	\$ 13.00	\$ 8.00
Cleveland	\$ 12.50	\$ 15.00	\$ 10.00
Iowa	\$ 14.00	\$ 19.00	\$ 8.00
Minneapolis	\$ 12.00	\$ 17.00	\$ 7.00
Texas	\$ 17.50	\$ 24.00	\$ 9.00
Denver	\$ 13.05	\$ 14.10	\$ 12.00
Northwest	\$ 14.79	\$ 35.00	\$ 7.50
SF-Bay	\$ 13.71	\$ 22.00	\$ 7.00
SoCal	\$ 5.67	\$ 10.00	\$ 4.00

Food waste compost	Average	High	Low
NE	\$ 25.19	\$ 48.00	\$ 11.00
Chesapeake	\$ 12.00	\$ 15.00	\$ 8.00
SE	\$ 20.65	\$ 30.00	\$ 15.00
Florida	\$ 10.50	\$ 13.00	\$ 8.00
Iowa	\$ 13.40	\$ 20.00	\$ 10.00
Minneapolis	\$ 12.00	\$ 12.00	\$ 12.00
Texas	\$ 17.50	\$ 24.00	\$ 8.50
Denver	\$ 11.33	\$ 15.00	\$ 7.00
Northwest	\$ 17.25	\$ 20.00	\$ 15.00
SF-Bay	\$ 12.67	\$ 26.00	\$ 5.00
SoCal	\$ 8.00	\$ 12.00	\$ 6.00

Composted biosolids	Average	High	Low
NE	\$ 15.33	\$ 20.00	\$ 10.00
Chesapeake	\$ 10.89	\$ 15.00	\$ 5.00
SE	\$ 9.08	\$ 15.00	\$ 5.00
Florida	\$ 10.50	\$ 13.00	\$ 8.00
Texas	\$ 15.99	\$ 20.00	\$ 9.00
Denver	\$ 13.00	\$ 13.00	\$ 13.00
Northwest	\$ 16.75	\$ 21.00	\$ 12.00
SoCal	\$ 10.50	\$ 17.00	\$ 3.00

Composted cow manure	Average	High	Low
NE	\$ 36.00	\$ 36.00	\$ 36.00
SE	\$ 21.38	\$ 31.50	\$ 7.00
Iowa	\$ 35.00	\$ 35.00	\$ 35.00
Texas	\$ 20.33	\$ 25.00	\$ 18.00
Denver	\$ 12.05	\$ 14.10	\$ 10.00
Northwest	\$ 22.00	\$ 22.00	\$ 22.00
SF-Bay	\$ 34.25	\$ 34.50	\$ 34.00
SoCal	\$ 5.00	\$ 6.00	\$ 4.00

Wood waste mulch	Average	High	Low
NE	\$ 19.21	\$ 36.00	\$ 8.00
Chesapeake	\$ 15.80	\$ 17.00	\$ 13.00
SE	\$ 14.60	\$ 24.95	\$ 5.00
Florida	\$ 14.00	\$ 15.00	\$ 13.00
Iowa	\$ 30.00	\$ 40.00	\$ 20.00
Minneapolis	\$ 18.50	\$ 20.00	\$ 17.00
Texas	\$ 10.50	\$ 14.00	\$ 8.00
Denver	\$ 7.66	\$ 8.32	\$ 7.00
Northwest	\$ 15.00	\$ 15.00	\$ 15.00
SF-Bay	\$ 12.33	\$ 14.00	\$ 9.00
SoCal	\$ 9.25	\$ 15.00	\$ 5.00

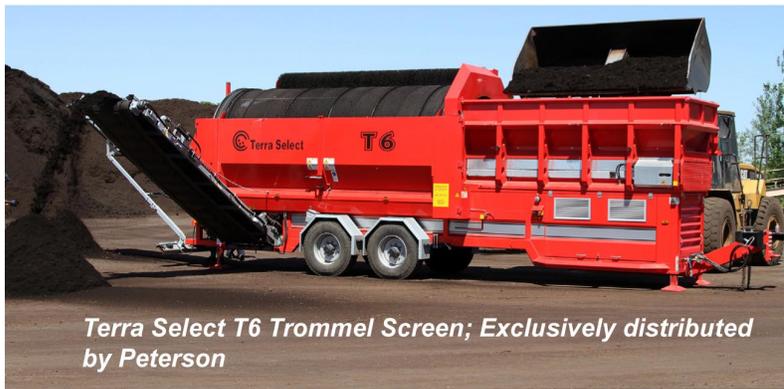
Colored wood mulch	Average	High	Low
NE	\$ 16.67	\$ 22.00	\$ 10.00
Chesapeake	\$ 20.50	\$ 22.00	\$ 19.00
SE	\$ 19.00	\$ 25.00	\$ 15.00
Florida	\$ 16.00	\$ 16.00	\$ 16.00
Iowa	\$ 25.00	\$ 25.00	\$ 25.00
Minneapolis	\$ 27.00	\$ 35.00	\$ 19.00
Texas	\$ 20.67	\$ 24.00	\$ 18.00
Denver	\$ 17.66	\$ 21.32	\$ 14.00
Northwest	\$ 22.00	\$ 22.00	\$ 22.00
SF-Bay	\$ 21.00	\$ 22.00	\$ 19.00
SoCal	\$ 22.50	\$ 25.00	\$ 20.00

## Bag Retail

Compost (40# bag)	Average	High	Low
NE	\$ 6.87	\$ 8.00	\$ 4.50
Chesapeake	\$ 3.73	\$ 5.49	\$ 2.15
SE	\$ 4.00	\$ 4.00	\$ 4.00
Florida	\$ 1.99	\$ 1.99	\$ 1.99
Cleveland	\$ 2.45	\$ 2.99	\$ 2.10
Iowa	\$ 3.12	\$ 7.99	\$ 1.50
Texas	\$ 4.25	\$ 6.99	\$ 1.99
Denver	\$ 3.59	\$ 4.75	\$ 1.73
Phoenix	\$ 4.71	\$ 5.99	\$ 2.77
Northwest	\$ 4.29	\$ 5.99	\$ 2.99
SoCal	\$ 5.39	\$ 6.25	\$ 3.90

Composted cow manure (40# bag)	Average	High	Low
NE	\$ 6.53	\$ 9.87	\$ 3.85
Chesapeake	\$ 5.97	\$ 7.95	\$ 3.99
SE	\$ 5.16	\$ 6.97	\$ 3.34
Florida	\$ 1.98	\$ 1.99	\$ 1.97
Cleveland	\$ 3.27	\$ 3.99	\$ 2.49
Iowa	\$ 2.18	\$ 2.49	\$ 1.75
Minneapolis	\$ 3.70	\$ 7.00	\$ 1.99
Texas	\$ 4.59	\$ 6.99	\$ 1.99
Phoenix	\$ 2.99	\$ 3.99	\$ 2.49
Northwest	\$ 3.99	\$ 3.99	\$ 3.99
SF-Bay	\$ 7.00	\$ 7.00	\$ 7.00

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## Food waste

### Legislation

From page 5

Act of 1985. Under the bill, “composting practice” is defined as an activity (including an activity that does not require the use of a composting facility) to produce compost from organic waste that is generated on a farm or brought to a farm from the nearby community; and the use of compost on a farm to improve water retention and soil health.

The bill also adds “composting practices” to the federal Conservation Stewardship Program created under U.S. Code 3838.

Presently, the USDA is authorized to make or insure loans to certain parties to provide for the application or establishment of soil and water conservation practices and certain related activities. H.R. 3444 amends the Consolidated Farm and Rural

Development Act to mandate that 5 percent of the amounts made available for each fiscal year are reserved for loans for municipal or county composting, anaerobic digestion food waste-to-energy projects and the conversion of animal waste products into industrial products or into raw materials that can be converted into finished products other than by anaerobic digestion or the production of bioethanol through fermentation. Loans are not available to an entity that will use the money for an anaerobic digester that uses solely manure as undigested biomass. Preference will be given to anaerobic digesters that use primarily nonedible food, crop waste or nonedible food and crop waste as undigested biomass.

The bill also calls for the USDA to establish a state grant program for construction of large-scale composting or anaerobic digestion food waste-to-energy projects. To receive the grants, a state would have to have in effect a

plan to limit the quantity of food waste that may be disposed of in landfills in the state.

Grants would not be used for an anaerobic digester that uses solely manure as undigested biomass. Preference would be given to anaerobic digesters that use primarily nonedible food, crop waste or nonedible food and crop waste as undigested biomass.

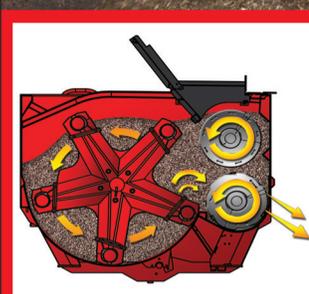
Composting provisions make up a small fragment of the 37-page bill that aims to:

- Reduce food waste at the consumer level through the inclusion of the Food Date Labeling Act to standardize confusing food date labels;
- Reduce food wasted in schools by encouraging cafeteria’s to purchase lower-price “ugly” fruits and vegetables, and by extending grant programs that educate students about food waste and recovery;
- Reduce wasted food throughout the

*(See Legislation, page 12)*

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## Compost Turners



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## Bagging/Packaging Equipment



### Grinder Crusher Screen Inc.

1772 Corn Road  
Smyrna, GA 30080  
Phone: 770.433.2440  
Fax: 770.433.2669  
Web: www.grindercrusherscreen.com  
Email: rick@grindercrusherscreen.com  
Contact: Rick Cohen



### Brown Bear Corp.

PO Box 29,  
2248 Avenue of Industry  
Corning, IA 50841  
Phone: 641.322.4220  
Fax: 641.322.3527  
Contact: Stan Brown  
Email: sales@brownbearcorp.com  
Web: www.brownbearcorp.com



### SCARAB International LLP

1475 County Road W  
White Deer, TX 79097  
Phone: 806.883.7621  
Fax: 806.883.6804  
Web: www.scarabmfg.com  
Email: info@scarabmfg.com



### Rotochopper

217 West Street  
St. Martin, MN 56376  
Phone: 320.548.3586  
Fax: 320.548.3372  
Email: info@rotochopper.com  
Contact: Jami Bestgen  
Web: www.rotochopper.com



### HCL Machine Works

15142 Merrill Ave.  
Dos Palos, CA 93620  
Phone: 209.392.6103  
Fax: 209.392.3000  
Email: sales@hclmachineworks.com  
www.hclmachineworks.com  
Contact: Sherrill Campbell  
Contact: Casey Campbell



### Grinder Crusher Screen Inc.

1772 Corn Road  
Smyrna, GA 30080  
Phone: 770.433.2440  
Fax: 770.433.2669  
Web: www.grindercrusherscreen.com  
Email: rick@grindercrusherscreen.com  
Contact: Rick Cohen

# Product/Equipment and Services Guide

## Consulting Firms



### Kessler Consulting Inc.

14620 N. Nebraska Ave., Bldg D  
Tampa, FL 33613  
Phone: 813-971-8333  
Fax: 813-971-8582  
Web: [www.kesconsult.com](http://www.kesconsult.com)  
Email: [info@kesconsult.com](mailto:info@kesconsult.com)  
Contact: Mitch Kessler

## Conveyor systems



### Patz Corporation

P.O. Box 7, 917 Business 141  
Pound, WI 54161  
Phone: 920-897-2251  
Fax: 920-897-2142  
Contact: Curtis Tisler  
Web: [www.patzcorp.com](http://www.patzcorp.com)  
Email: [curtistisler@patzcorp.com](mailto:curtistisler@patzcorp.com)

## Education



### Aeromaster

Midwest Bio-Systems  
28933 35 E Street  
Tampico, IL 61283  
Phone: 800-689-0714  
Fax: 815-438-7028  
Email: [info@midwestbiosystems.com](mailto:info@midwestbiosystems.com)  
[www.aeromasterequipment.com](http://www.aeromasterequipment.com)  
[www.midwestbiosystems.com](http://www.midwestbiosystems.com)  
Contact: Cary Richardson

## In-Vessel Composting



### Ag-Bag Environmental

92365 Riekkola Rd.  
Astoria, OR 97103-6656  
Phone: 503-325-2970  
Fax: 503-325-2985  
Contact: Debbie Linder  
Email: [dlinder@ag-bagfs.com](mailto:dlinder@ag-bagfs.com)  
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### Bandit Industries, Inc.

6750 Millbrook Road  
Remus, MI 49340  
Ph: 989.561.2270,  
800.952.0178  
Fax: 989.561.2273  
E. [sales@banditchippers.com](mailto:sales@banditchippers.com)  
Web: [www.banditchippers.com](http://www.banditchippers.com)  
Contact: Regional Sales Manager



### BASF/Colorbiotics

1725 Dayton Avenue, PO Box 647  
Ames, IA 50010  
888-663-6980  
Email: [kent.rotert@BASF.com](mailto:kent.rotert@BASF.com)  
Web: [www.colorbiotics.basf.us](http://www.colorbiotics.basf.us)  
Contact: Kent Rotert



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Phone: 770.433.2440  
Fax: 770.433.2669  
Web: [www.grindercrusherscreen.com](http://www.grindercrusherscreen.com)  
Email: [rick@grindercrusherscreen.com](mailto:rick@grindercrusherscreen.com)  
Contact: Rick Cohen



### Rotochopper

217 West Street  
St. Martin, MN 56376  
Phone: 320.548.3586  
Fax: 320.548.3372  
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Contact: Jami Bestgen  
Web: [www.rotochopper.com](http://www.rotochopper.com)

## Odor Control



### Aeromaster

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[www.aeromasterequipment.com](http://www.aeromasterequipment.com)  
[www.midwestbiosystems.com](http://www.midwestbiosystems.com)  
Contact: Cary Richardson

## Screening Systems & Trommels



### Grinder Crusher Screen Inc.

1772 Corn Road  
Smyrna, GA 30080  
Phone: 770.433.2440  
Fax: 770.433.2669  
Web: [www.grindercrusherscreen.com](http://www.grindercrusherscreen.com)  
Email: [rick@grindercrusherscreen.com](mailto:rick@grindercrusherscreen.com)  
Contact: Rick Cohen



### Komptech Americas LLC

10855 Dover Street Ste 1000  
Westminster, CO 80021  
Ph: 720.890.9090  
Fax: 720.890.5907  
EMail:  
[b.lapsys@komptechamericas.com](mailto:b.lapsys@komptechamericas.com)  
Web: [www.komptechamericas.com](http://www.komptechamericas.com)  
Contact: Brandon Lapsys

# Product/Equipment and Services Guide



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Smyrna, GA 30080  
Phone: 770.433.2440  
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Web: [www.screenusa.net](http://www.screenusa.net)  
Email: [rick@screenusa.net](mailto:rick@screenusa.net)  
Contact: Rick Cohen



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Eugene, OR 97404  
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Phone: 541.689.6520  
Fax: 541.689.0804  
E. [peterson@petersoncorp.com](mailto:peterson@petersoncorp.com)  
Web: [www.petersoncorp.com](http://www.petersoncorp.com)  
Contact: Michael Spreadbury



## West Salem Machinery

P.O. Box 5288  
665 Murlark Ave. NW  
Salem, OR 97304  
Phone: 800-722-3530  
or 503-364-2213  
Fax: 503-364-1398  
Web: [www.westsalem.com](http://www.westsalem.com)  
Email: [info@westsalem.com](mailto:info@westsalem.com)  
Contact: Bob DeSouza

## Thermometers & Monitoring Equipment



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[www.aeromasterequipment.com](http://www.aeromasterequipment.com)  
[www.midwestbiosystems.com](http://www.midwestbiosystems.com)  
Contact: Cary Richardson



## REOTEMP Instruments

10656 Roselle Street  
San Diego, CA 92121  
Ph: 858.225.1889  
Fx: 858.784.0720  
Contact: Nathan O'Connor  
Email: [compost@reotemp.com](mailto:compost@reotemp.com)  
Web: [www.reotemp.com/compost](http://www.reotemp.com/compost)

## Replacement Parts



## Aeromaster

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[www.aeromasterequipment.com](http://www.aeromasterequipment.com)  
[www.midwestbiosystems.com](http://www.midwestbiosystems.com)  
Contact: Cary Richardson



## ARMORHOG CW Mill Equipment -

14 Commerce Drive  
Sabetha, KS 66534  
Phone: 800-743-3491, 785-284-3454  
Fax: 785-284-2010  
Email: [sales@armorhog.com](mailto:sales@armorhog.com)  
Web: [www.armorhog.com](http://www.armorhog.com)  
Contact: Brian Bergman



## DynaHog CW Mill Equipment -

14 Commerce Drive  
Sabetha, KS 66534  
Phone: 800-743-3491,  
Phone: 785-284-3454  
Fax: 785-284-2010  
Email: [sales@dynahog.com](mailto:sales@dynahog.com)  
Web: [www.dynahog.com](http://www.dynahog.com)  
Contact: Jason Haug



## Hogzilla Grinders CW Mill Equipment -

14 Commerce Drive  
Sabetha, KS 66534  
Phone: 800.743.3491 or  
785.284.3454  
Fax: 785.284.3601  
Email: [hogzilla@cwmill.com](mailto:hogzilla@cwmill.com)  
Web: [www.hogzilla.com](http://www.hogzilla.com)  
Contact: Tim Wenger,  
Vice President & Sales Manager

## Wear Parts



## Apollo Equipment.net & Grinder Wear Parts

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Fax: 503.982.0881  
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Web: [www.GrinderWearParts.com](http://www.GrinderWearParts.com)  
E. [info@GrinderWearParts.com](mailto:info@GrinderWearParts.com)  
Contact: Wayne Brown



## Grinder Crusher Screen Inc.

1772 Corn Road  
Smyrna, GA 30080  
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Fax: 770.433.2669  
Web: [www.grindercrusherscreen.com](http://www.grindercrusherscreen.com)  
Email: [rick@grindercrusherscreen.com](mailto:rick@grindercrusherscreen.com)  
Contact: Rick Cohen

# Product/Equipment and Services Guide

## Wood Grinders & Shredders



**Bandit Industries, Inc.**  
6750 Millbrook Road  
Remus, MI 49340  
Ph: 989.561.2270,  
800.952.0178  
Fax: 989.561.2273  
E. sales@banditchippers.com  
Web. www.banditchippers.com  
Contact: Regional Sales Mgr.



**Diamond Z - A Division of Rule Steel**  
11299 Bass Lane  
Caldwell, ID 83605  
Phone: 208.585.2929  
Fax: 208.585.2112  
Email:  
kevin.mayhugh@rulesteel.com  
Web: www.diamondz.com  
Contact: Kevin Mayhugh



**DuraTech Industries**  
Box 1940  
Jamestown, ND 58401  
Phone: 701.252.4601  
Fax: 701.252.0502  
Email:  
ind.sales@duratechindustries.net  
Web: www.duratechindustries.net  
Contact: Bob Strahm



**Grinder Crusher Screen Inc.**  
1772 Corn Road  
Smyrna, GA 30080  
Phone: 770.433.2440  
Fax: 770.433.2669  
Web: www.grindercrusherscreen.com  
Email: rick@grindercrusherscreen.com  
Contact: Rick Cohen



**Hogzilla Grinders  
CW Mill Equipment -**  
14 Commerce Drive  
Sabetha, KS 66534  
Phone: 800.743.3491 or  
785.284.3454  
Fax: 785.284.3601  
Email: hogzilla@cwmill.com  
Web: www.hogzilla.com  
Contact: Tim Wenger,  
Vice President & Sales Manager



**Komptech Americas LLC**  
10855 Dover Street Ste 1000  
Westminster, CO 80021  
Ph: 720.890.9090  
Fax: 720.890.5907  
EMail:  
b.lapsys@komptechamericas.com  
Web: www.komptechamericas.com  
Contact: Brandon Lapsys



**Peterson**  
PO Box 40490  
Eugene, OR 97404  
Phone: 800.269.6520  
Phone: 541.689.6520  
Fax: 541.689.0804  
E. peterson@petersoncorp.com  
Web: www.petersoncorp.com  
Contact: Michael Spreadbury



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217 West Street  
St. Martin, MN 56376  
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Email: info@rotochopper.com  
Contact: Jami Bestgen  
Web: www.rotochopper.com



**West Salem Machinery**  
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## Food waste

### Legislation

From page 8

federal government through the establishment of a food recovery liaison at USDA to coordinate federal efforts, and by requiring companies that contract with the federal government to donate surplus food to organizations such as food banks and soup kitchens;

- Reduce wasted food through research by directing the USDA to develop new technologies to increase the shelf life of fresh food, and by requiring the USDA to establish a standard for how to estimate the amount of wasted food at the farm level.

“After feeding hungry people and animals and reducing food waste, the next step for any business or home should always be to make sure food scraps get recycled,” said Patrick Serfass, executive director of the American Biogas Council, which supports the bill. “This bill will address all of those priorities and help create new food recycling infrastructure, such as biogas systems, which will better manage our waste, catalyze new capital investments and generate good paying middle class jobs.”

### Austin

From page 1

more residents to the curbside composting program, we look forward to keeping even more material out of the landfill and creating nutrient rich compost which can be used to fertilize plants, gardens and other outdoor areas in our community.”

A 32-gallon capacity cart will be available when the new collection begins.

“We reduced the cart size based on feedback we received from customers in the pilot areas, said Richard McHale, interim assistant director of Austin Resource Recovery. “We heard that the 96-gallon cart was too large and have adjusted to better meet customers needs.”

Additionally, BPI (Biodegradable Products Institute)-certified compostable bags will now be accepted in the cart,” McHale said. “This will address residents’ concerns about the ick factor by minimizing odors in the cart. Pilot customers will receive a postcard in the mail in August with instructions on how to request a smaller 32-gallon green composting cart, if they choose to downsize. New customers will receive a 32-gallon cart before their service begins.”

The postcard will include an invitation to an informational open house. At the open house, attendees will learn about curbside composting, what to put in and keep out of their new green cart and will receive a free kitchen food scraps collector and compostable bags.

The city said a recent study showed that almost half of everything residential customers send to the landfill is

compostable material. When buried in a landfill, compostable materials do not break down as they would in nature or in a compost pile. They decompose anaerobically, without oxygen, and in the process become the number one source of human-caused methane released into



Austin Resource Recovery Interim Assistant Director Richard McHale. Photo: City of Austin

the atmosphere, the city said. Instead of going to a landfill, organic materials placed in the green carts are transported to a local composting facility, where they break down into compost. Compost helps soil retain water, and fertilizes lawns and gardens without using chemicals.

In addition to contributing to Austin’s Zero Waste goal, Curbside Composting may help residents save money on their utility bills, the city said. After putting food scraps and food-soiled paper in their green carts, customers will have less trash to throw away each week. This may allow them to downsize to a smaller, less expensive trash cart. Austin Resource Recovery offers four trash cart sizes – the smaller the cart, the less it costs each month.

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The Resource Recycling Conference, now in its seventh year, is the must-attend event for recycling leaders looking to connect with the people, companies and concepts that are shaping the future of materials recovery. Held in partnership with the National Recycling Coalition, the conference offers unique networking opportunities, expertly curated education sessions and ancillary events that can be found nowhere else.

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## Facilities

### CalRecycle

From page 1

renovation, or expansion of facilities in California that recycle organic material into value-added products like compost or renewable energy.

CalRecycle's Organics Grant program is part of California Climate Investments, a statewide program that puts billions of cap-and-trade dollars to work reducing greenhouse gas emissions, strengthening the economy and improving human health and the environment, particularly in disadvantaged communities.

Of the \$24 million allocated to CalRecycle's Organics Grant program in 2016-17:

- \$12 million was dedicated to compost operations, \$3 million of which was allocated specifically for projects in rural areas. The maximum award was \$3 million;

- \$12 million was dedicated to digestion projects, which turn organic waste into renewable energy and soil amendments. The maximum award was \$4 million.

CalRecycle said the demand in the Organics Grant Program well exceeded the \$24 million in available funds for 2016-17, with 35 eligible applicants requesting \$88.6 million. CalRecycle granted funds to the 10 highest scoring applicants based on criteria of greenhouse gas reductions, the amount of organic material diverted from landfills, benefits to disadvantaged communities and project readiness.

Many infrastructure project proposals included funding for food rescue efforts to recover landfill-destined, edible food for Californians in need. Food waste prevention remains the most environmentally beneficial way to reduce greenhouse gas emissions, CalRecycle said. While food rescue was not among the scoring criteria for the organics grant, it was a

consideration for evaluating benefits to disadvantaged communities.

Here are the grant recipients and a brief description of their projects:

### Compost Projects

- **City of San Diego**, San Diego County (\$3 million): Equipment upgrade of current windrow composting facility to a covered aerated static pile system. Will enable regional expansion of food waste composting program. Includes dedicated funds for partnership with Kitchens for Good.
- **Mid Valley Recycling LLC**, Fresno County (\$1.875 million): Expansion of current aerated static pile composting system to support new organic waste recycling programs in the community.
- **Salinas Valley Solid Waste Authority**, Monterey County (\$1.342 million): Expansion of

(See CalRecycle, page 17)

## waste & recycling expo

CANADA

[www.cwre.ca](http://www.cwre.ca)

## municipal equipment expo

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## Compost product news

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Manufacturers and distributors: Send your product news to [ken@recycle.cc](mailto:ken@recycle.cc) (preferred) or mail to Composting News, 9815 Hazelwood Avenue, Strongsville, OH 44149; Fax: (440) 238-6712.



Peterson 3310 drum chipper

### Peterson debuts 3310 drum chipper

Peterson Pacific Corp. recently introduced its new 3310 drum chipper at the 2017 ConExpo-Con/Agg show in Las Vegas. With a 540 hp Caterpillar engine, the 3310 has the power to handle up to 24-inch diameter logs. The fully enclosed engine compartment keeps things clean, but is easily serviced by large access doors on both sides of the machine, Peterson said.

“The all-new 3310 is the third and smallest model in Peterson’s lineup of drum chippers,” Larry Cumming, president of Peterson. “Like the other larger Peterson drum chippers, the 3310 is equipped with sizing screens and an intelligent control system that provide superior fuel economy and the most consistent chip quality. The 3310 is a high capacity small chipper with a 23-inch diameter log capacity. It was designed for biomass energy producers around the world that will benefit from the efficient feeding and flexible van loading options that are provided by this unique design.”

At just under 24-feet long, the 3310 utilizes a transverse-feed design allowing for a much smaller operations deck than typical drum chippers. The rotatable end load or optional top load spout design allows for trailers to be loaded in a variety of positions,

depending on the demands of the job site. Not only does the compact size allow for easy maneuverability, but it can even be transported in a 40-foot high cube container for overseas shipment.

Using the proven drum and knife design used on the larger 4300-series drum chippers, the 3310’s main components are robust and offer long life, Peterson said.

The Peterson 3310 drum chipper is *Peterson+* enabled - a new remote monitoring solution providing machine owners access to real-time and historical data of their machine’s performance and location. Peterson specializes in developing delivery and processing equipment that turns low-grade organic materials into high value products.

For more information, visit [www.petersoncorp.com](http://www.petersoncorp.com)

### Rotochopper announces Generation 2 colorizer

Rotochopper, the manufacturer of the only patented Grind & Color system, has launched its new Generation 2 Colorizer.

“We set the bar for grinding and coloring efficiency with our patented colorizer,” said Art de St. Aubin, Rotochopper president and CEO. “Now we’re raising the bar with the Generation 2 Colorizer.”

The Generation 2 Colorizer builds on the success of the original Rotochopper patent by increasing throughput capacity without sacrificing single-pass coverage, the company said, adding that the original colorizer patent gives Rotochopper grinders the exclusive advantage of injecting colorant directly in the grinding chamber, using the force of the grinding process to evenly coat all

mulch particles.

The Generation 2 patent enhances this unique color application method by adding a secondary colorant atomization system directly behind the grinding chamber screen. The secondary spray manifold applies colorant to mulch particles while they are spaced apart and travelling at high speed, ensuring even coverage. By contrast, grind and color systems that spray onto the discharge conveyors apply colorant to only the uppermost particles, Rotochopper said. The ratio of primary and secondary colorant application can be easily adjusted to match different feedstocks and mulch specifications. The secondary spray bar allows for higher production rates without compromising color integrity, even with darker shades like black and brown. In addition to increased production capacity, the Generation 2 Colorizer provides unparalleled monitoring and control capabilities to deliver consistent mulch quality with minimized operating costs. The Generation 2 Colorizer allows high-volume mulch producers to monitor and fine tune all critical parameters, including colorant usage (by volume and weight), water, throughput, engine or motor load and infeed speeds.

“To maximize your margins in a premium mulch operation, you must not only optimize production rates and mulch quality on a day by day basis, but understand the numbers that drive your bottom line from year to year,” de St. Aubin said. “Our Generation 2 Colorizer allows mulch producers to track and fine tune the important numbers from the control panel, your loader cab, or your office. This system delivers a holistic view of your operation, and provides the insight you need to proactively grow your colored mulch business.”

The Generation 2 Colorizer is available for select grinders in 2017, with broader availability in 2018. Some of the components and functions described above are optional.

For more information, visit [www.rotochopper.com](http://www.rotochopper.com).

## Facilities

### CalRecycle

From page 15

current organic chip and grind facility to include a food waste composting operation. Includes equipment upgrades and dedicated funds for partnership with Food Bank for Monterey County.

- **Recology Yuba-Sutter**, Yuba County (\$2.873 million): First of three-phase project to design, build and operate new covered aerated static pile compost system to recycle regional green waste.
- **Napa Recycling & Waste Services LLC**, Napa County (\$541,700): Equipment upgrades to recover more food waste for grantee's existing compost operation. Includes dedicated funds for partnership with Emergency Food Bank of Stockton.
- **South Lake Refuse Company LLC**, Lake County (\$1.218 million): Equipment upgrades to expand existing green waste composting site to include food waste composting. Includes dedicated funds for partnership with Sacramento Food Bank and Family Services.
- **West Coast Waste, Madera County** (\$1.240 million): Design, build and operate new aerated static pile composting system to recycle regional organic waste. An on-site learning center is also planned.

#### Anaerobic digestion

- **County Sanitation Districts of Los Angeles County** (\$4 million): Equipment upgrades to complete organic food waste pre-processing and anaerobic digestion system. Grantee will convert regional food waste into renewable gas for transportation fuel. Includes dedicated funds for partnership with a local food rescue entity.
- **HZIU Kompogas SLO Inc.**, San Luis Obispo County (\$4 million): Design, build and operate a Kompogas anaerobic digestion facility. Grantee will convert regional organic waste

into renewable electricity and compost. Includes dedicated funds for partnership with Valley Food Bank.

- **Rialto Bioenergy Facility LLC**, San Bernardino County (\$4 million): Equipment upgrades to in-vessel digestion facility to process regional food waste into renewable electricity. Includes dedicated funds for partnership with Helping Hands Pantry.



### Compost Digest

Read these complete stories at [www.facebook.com/CompostingNews](http://www.facebook.com/CompostingNews).

- A liquid organic biofertilizer made from the material that is left over after manure or food waste is digested to create clean electricity compares favorably in nutrient value with commonly used synthetic materials in trials on canning tomatoes and corn.

A **University of California Davis** professor of biological and agricultural engineering designed an anaerobic biodigester nearly 10 years ago that is used to turn food waste from campus dining halls into clean energy. Several dairies have also invested in digesters to treat their manure, which would otherwise emit the greenhouse gas methane, and the California Department of Food and Agriculture offers grants to help defray the cost.

Cost is the major stumbling block to more widespread use of the technology, and the trial of a biofertilizer made in the campus digester is an attempt to see if the bottom line can be made just a little more favorable.

The liquid and pellet fertilizers made from the remains of food waste or manure that had been treated in a digester compared favorably with synthetic fertilizer in tomato and corn trials. Researchers developed a process for turning what is left of dairy manure and food waste after anaerobic digestion into biofertilizer products that are easier to move and use than compost. They used digestate from

both the UCD food waste digester and the New Hope Dairy manure digester in Galt to make nutrient-dense pellets and a concentrated liquid fertilizer that can be "fertiligated."

Solid food waste digestate pellets were successfully produced and applied to corn at a rate of 210 pounds of nitrogen an acre last summer.

One issue that must be resolved if this fertilizer product is to become widely used to defray the cost of using dairy manure or food waste to make electricity on a significant scale is finding an economical way to get the high level of sodium out of the digestate.

Under Senate Bill 1383, the California Air Resources Board has authority to establish goals for reducing methane emissions from dairy cow manure by 40 percent over the next 13 years, which could not be done without widespread use of digesters. - *Daily Democrat*, [www.dailydemocrat.com](http://www.dailydemocrat.com)

- Even as it has been battling with garbage disposal issues for the past few months, the **Pune (India)** Municipal Corporation (PMC) has admitted in an affidavit to the National Green Tribunal (NGT) that conversion of organic waste into compost in 24 hours is practically impossible, as it takes at least 30 days for the compost to be ready. Worse, the PMC has no space to store the processed garbage either.

This revelation has exposed the reality of the PMC's so-called garbage management plan, which was drafted following the strike at Uruli-Devachi and Phursungi villages in the presence of chief minister Devendra Fadnavis, to pacify the villagers in early May. Any further protest by the villagers would again cause the piling up of garbage all over the city as PMC does not have any facility to store this processed compost generated by its 13 wet garbage processing plants across Pune.

City-based Nagari Chetana Manch alleged that all the municipal organic and inorganic solid waste processing

(See Digest, page 18)



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plants installed by PMC at 13 places failed to comply with the required rules.

The organization also said the plants should be shut down since the compost is not in compliance with the specifications of the Municipal Solid Waste Rules.

Suresh Jagtap, joint commissioner of PMC solid waste management department, denied all the allegations and submitted that the compost generated from processing plant is as per standard laid down by law. However, he admitted that in the present case, the compost is matured for 30 days before it is used, so it should be tested after 30 days. - *Pune Mirror*, [punemirror.indiatimes.com](http://punemirror.indiatimes.com)

• Concerns about chemical use on marijuana have led to a composting revolution. Growers who compost tend to do so because they prefer chemical-free means of improving crops. One **California** compost producer says it has been unable to keep up with the demand for compost by organic cannabis growers in the last two years - they now account for 35 percent of the company's sales, equal to about \$1 million annually.

California, which has had a medical marijuana program in place for two decades, is only now planning to regulate pot growers' pesticide use starting in January 2018, when weed becomes legal recreationally.

Various organizations offer organic marijuana certifications, like Clean Green Certified and the Organic Cannabis Association, which provides different levels of certification—some growers use no chemicals while others certify only that there are no residual toxic traces in their products. For

consumers, there are sites like Honest Marijuana, which directs them to dispensaries selling organic weed.

The "green" weed market is targeting pot consumers willing to pay a premium for a more natural experience. In Santa Cruz county, Calif., organic weed costs more than twice as much as an equivalent grown with chemicals. - *Quartz Media*, [qz.com](http://qz.com)

• Scraps, a small-scale, bike-based composting company has been launched this year in **Denver**. Riders use bikes with trailers to collect food waste from restaurants and apartment building residents who otherwise would throw their extra food in the garbage. Then it's picked up by Alpine Waste & Recycling, which transports the waste to a compost processing facility where it's turned into hearty soil to be resold.

In her first month on the job, the company's founder collected 3,734 pounds of waste.

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Scraps is part of a growing movement to fill the gaps in Denver’s food waste management using bikes. Along with Denver Food Rescue, a nonprofit that saves food that would otherwise be thrown away from grocery stores and takes it directly to communities in need, Scraps offers hyperlocal solutions that the city and others may not provide. Both groups do the bulk of their work from bikes, allowing neighborhood-based programs and immediate deliveries without a middleman.

Despite expanding its composting services in recent years, Denver’s waste diversion rate is 20 percent, compared to the national average of 34. Denver composted nearly 6,000 tons of organic material in 2016, and this spring started two new compost pick-up routes. The city will add four more this fall, aiming to service almost all residential homes by the end of 2017. But Denver doesn’t offer composting to multifamily homes with more than seven units.

Scraps was created to fill the gap. - *Denver Post, www.denverpost.com*

• **Minneapolis** residents eagerly participated in the first year of the city’s new organics recycling program – the largest of its kind in the metro – but so far they’re tossing less than anticipated in the green curbside bins.

More than 45,000 households have signed up for the program since it expanded to the entire city last July, or 43 percent of the eligible single-family homes and small apartment buildings. The city had expected 40 percent of eligible households to participate.

Those residents sent nearly 4,000 tons of organic matter to be converted to compost at a Rosemount facility, rather than incinerated with other trash. But that’s about half what the city expected when it launched the

program a year ago, based on a consultant’s projections.

The city said people are generally tossing items most associated with composting – like fruit and vegetable scraps. They haven’t yet grown accustomed to recycling other materials the program accepts, like bones, meat, cheese, pizza boxes and soiled paper.

The Minneapolis organic waste goes to Specialized Environmental Technologies (SET) in Rosemount, where it is gradually broken down into nutrient-rich soil. SET said the organic waste coming from Minneapolis has very low contamination. That’s not always the case with other customers, including restaurants, schools, grocery stores and other commercial entities. - *Star Tribune, www.startribune.com*

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