



Independent coverage of composting, wood recycling and organics management

# Composting News

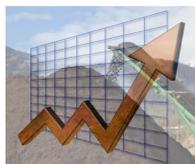
January 2015

McIntee Media  
Market Intelligence

Volume 23 Number 11

## Market points

Each month, *Composting News* surveys compost producers across the country to collect retail and wholesale prices (see page 4). Along with price quotations, the survey also invites comments about current markets. Here are some comments from our January survey.



To get on our survey list, or to offer a comment about the market in your area, drop an email to [ken@recycle.cc](mailto:ken@recycle.cc) with the subject line "Compost Market."

- Central New York has a very competitive market for wood waste and carbon with the addition of a biomass facility, growing composting operations, mature and expanding mulch markets and the need for material to be made for animal bedding. - *Central New York*

- We need to sell more. We are producing more than we can sell. - *Washington State*

- The local and state demand for compost is strong. Local demand for shredded wood mulch is weak. - *Iowa*

- Compost markets are finally developing in New York state with the New York State Department of Transportation's adoption of new specs and more facilities becoming U.S. Composting Council Seal of Testing Assurance (STA) members. - *New York*

(See *Market points*, page 14)

## Roadkill composting underway in Virginia

The Virginia Department of Transportation (VDOT) said composting is an environmentally-friendly and cost-efficient way to dispose of roadkill. Workers in VDOT's Hampton Roads District remove an average of 20 dead animals every week from state-maintained highways. They employees now have a new tool to dispose of roadkill in an environmentally friendly and cost-efficient way, VDOT said



This deer season, workers at VDOT's Windsor Area Headquarters are using new micro-aeration composting facilities, where air is pumped out from PVC pipes at the bottom of a contained compost bin. The air creates a host environment where microbes can thrive, helping to break down animal carcasses into compost in as little as six weeks. The compost then finishes maturing in a curing area for two months.

(See *Roadkill*, page 14)

## USCC partners with hunger activists on food waste initiative

The U.S. Composting Council (USCC) and the National Foundation to End Senior Hunger (NFESH) this month announced a partnership to take to a wider audience the message of the connection between the growing problems of food waste and hunger among America's seniors.



"Food waste is a serious problem in this country, and it has serious consequences for the millions of

seniors going without enough to eat as well as for the environment," said Enid Borden, NFESH president and CEO, "We see the two problems – hunger and food waste – as having one solution."

Al Rattie, USCC interim executive

(See *Hunger*, page 12)

## Highlights

- n **Canadian town chooses vendor for closed-loop organics processor**

- n **National compost prices**

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**Food waste**

# Iris Solutions chosen for closed loop biofuel plant

**I**ris Solutions has been selected as the preferred proponent by the city of Surrey, B.C. to finalize an agreement to design, build, partially finance, maintain and operate the previously announced Surrey Biofuels Processing Facility project. The city said the project the first closed-loop, fully-integrated organics waste management system in North America.

The city expects to finalize a fixed price, performance-based agreement with Iris Solutions in early 2015, with design-build activities getting underway shortly thereafter. The facility will be operational by late 2016.

The plant will convert kitchen waste and yard waste collected at curbside into renewable natural gas that will fuel the city's natural gas waste collection trucks. The facility will also produce a compost product that will be suitable for landscaping and agricultural applications, according to the city.

The facility will be designed to receive and process 115,000 metric tonnes of organic waste annually. When completed, the facility will be the largest of its kind in Canada with a capacity to process 100 percent of the city's organic waste, along with commercial organic waste, helping Metro Vancouver achieve its regional 70 percent waste diversion target.

Iris is a consortium of Netherlands-based Orgaworld Canada Ltd., a part of the Shanks Group; Smith Bros. Wilson (BC) Ltd., based in Vancouver; and Alberta-based Stantec Inc.

*(See Surrey, page 5)*



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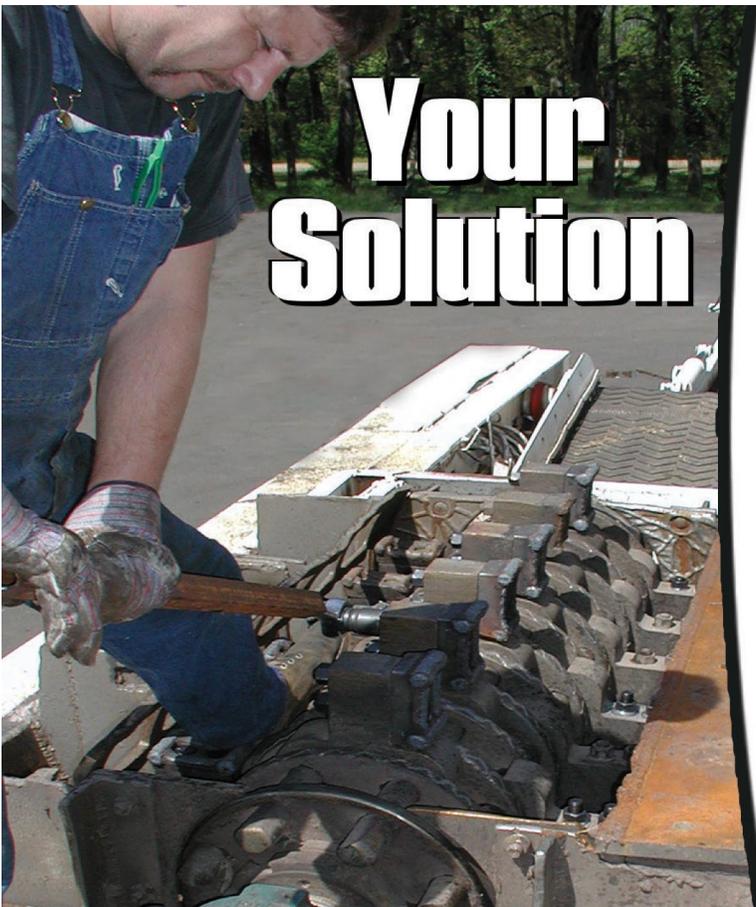
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## Food waste

### Surrey

From page 3

The city's approach to developing the facility is through a public-private partnership (P3), with the Government of Canada contributing 25 per cent of the capital costs through its P3 Canada Fund.

"We look forward to continuing Surrey's positive growth within clean energy industries, as laid out in our Sustainability Charter," said Councillor Bruce Hayne. The project, the city said, is integral to Surrey's Rethink Waste



program launched in October 2012. The program includes curbside organics collection and a fleet of compressed natural gas waste collection trucks. The Rethink Waste program has already led to a reduction of more than 40 percent in Surrey's residential garbage sent to the landfill, the city said.

## Anaerobic digestion growing in the U.K.

Anaerobic digestion has grown significantly in the U.K., according to the latest sector survey (ASORI), published last month by the Waste & Resources Action Programme (WRAP). WRAP said its study of the AD sector for the 2013 calendar year indicated that:

- The number of operational sites increased by 34 percent, from 87 in 2012 to 117;
- Operating capacity is up by 55 percent, from 2.07 million metric tonnes to 3.2 million metric tonnes;
- 51 percent more organic material is

being processed, from 1.69 million tonnes to 2.55 million tonnes; and

- Employment in the sector has increased by 36 percent, with 482 full-time equivalent jobs compared to 354 in 2012.

In addition, there has been an increase in all the types of feedstocks processed - separated solid food, liquids, manures and crops. However, food and drink waste continues to be the largest proportion of the material processed - with separated solid food accounting for 38 percent of the feedstocks reported in the survey and liquids 30 percent. Food manufacturers and processors provide the biggest proportion of the feedstock. However, the volume of material sourced from local authority collections, has increased by more than a third.

More than 1 tonnes of digestate - the product of AD - was applied to agricultural land in 2013 - that's 98 percent of total digestate use - demonstrating the benefits of readily available nutrients as well as potentially reducing the reliance on inorganic fertilizers.

WRAP said the survey complements the Scottish survey of the organics reprocessing industry, published on the same day by Zero Waste Scotland (see the following article).

"It's fantastic to see such positive results from this survey," said Ian Wardle, head of organics and energy at WRAP. "The industry is turning a wide variety of wastes into valuable renewable energy and digestate that can be used by farmers as a fertilizer. Each year we are seeing the sector grow and this year's data shows the AD industry is starting to make a marked contribution to the UK economy. Industry has always supported this survey and this year's excellent response is testament to that."

The report was commissioned by WRAP, working in partnership with the Renewable Energy Association's Organics Recycling Group (REAORG), Anaerobic Digestion and Bioresources Association (ADBA) and the

Environmental Services Association (ESA).

The full report can be downloaded at [www.wrap.org.uk/content/survey-uk-anaerobic-digestion-industry-2013](http://www.wrap.org.uk/content/survey-uk-anaerobic-digestion-industry-2013).

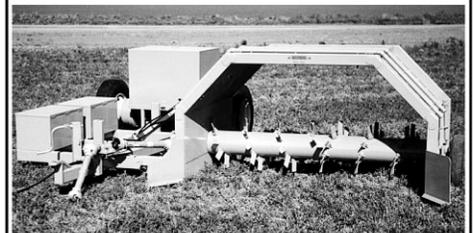
## Composting sites decline; AD sites hold in Scotland

The number of composting sites operating in Scotland in 2013 dropped from 33 to 29 in 2012, with a corresponding reduction in the amount of material processed, from 475,000 metric tonnes to 411,000 tonnes and a reduction in employment from 146 full-time-equivalents to 139, according to a report published last month by Zero Waste Scotland.

Meanwhile, the report said, although

*(See Scotland, 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	\$ 32.55	\$ 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	\$ 29.71	\$ 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	\$ 14.75	\$ 24.00	\$ 8.00

Food waste compost	Average	High	Low
NE	\$ 39.12	\$ 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	\$ 24.98	\$ 35.00	\$ 12.00
SE	\$ 12.14	\$ 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	\$ 13.36	\$ 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	\$ 29.33	\$ 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	\$ 21.35	\$ 38.00	\$ 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	\$ 16.19	\$ 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	\$ 21.50	\$ 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	\$ 17.25	\$ 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	\$ 7.33	\$ 10.00	\$ 6.00

Food waste compost	Average	High	Low
NE	\$ 25.79	\$ 48.00	\$ 11.00
Chesapeake	\$ 10.50	\$ 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

Composted biosolids	Average	High	Low
NE	\$ 15.33	\$ 20.00	\$ 10.00
Chesapeake	\$ 9.31	\$ 15.00	\$ 5.00
SE	\$ 10.93	\$ 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	\$ 25.00	\$ 25.00	\$ 25.00
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	\$ 15.75	\$ 33.00	\$ 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	\$ 10.83	\$ 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

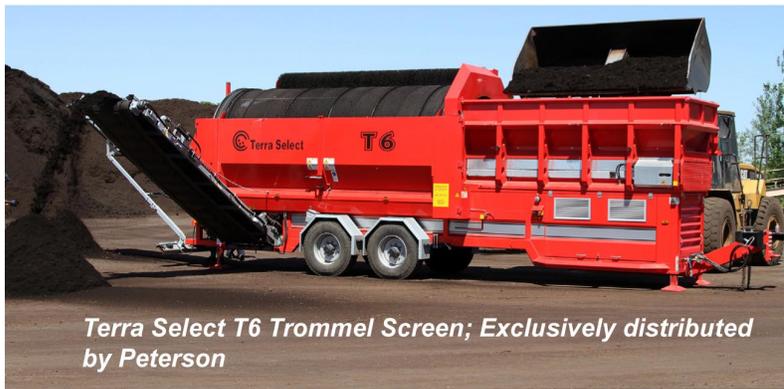
Colored wood mulch	Average	High	Low
NE	\$ 22.00	\$ 22.00	\$ 22.00
Chesapeake	\$ 20.50	\$ 22.00	\$ 19.00
SE	\$ 19.00	\$ 25.00	\$ 15.00
Florida	\$ 16.00	\$ 16.00	\$ 16.00
Iowa	\$ 25.00	\$ 25.00	\$ 25.00
Minneapolis	\$ 27.00	\$ 35.00	\$ 19.00
Texas	\$ 20.67	\$ 24.00	\$ 18.00
Denver	\$ 17.66	\$ 21.32	\$ 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
Iowa	\$ 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**

**Scotland**

From page 5

the number of anaerobic digesters in the U.K. increased by 34 percent in 2013, the number of AD sites in Scotland remained static at 11. That number reflects the reduction of one on-farm AD site and the additional of an additional industrial site.

The majority (60 percent) of material processed at composting sites continues to be processed using Open Air Windrow (OAW) and while the number of OAW processes in operation remained static, the number of IVC processes in operation decreased from nine to seven.

The majority (83 percent) of material processed by composting sites continues to come from local authority sources but this proportion is lower than in 2012 (91 percent) – a reduction of 50,000 tonnes. In

contrast, the quantity of material sourced from food manufacturers and processors increased from 2,000 tonnes in 2012 to 38,000 tonnes in 2013. This increase is likely to be due to businesses pre-empting a change in regulation requiring some food businesses to present food waste for separate collection from January 2014.

The reduction in scale of the composting sites is reflected in a reduction in the estimated total amount of compost produced from 233,000 tonnes in 2012 to 203,000 tonnes in 2013. This overall decrease in compost produced is reflected in lower quantities being supplied to three out of the seven individual end markets: agriculture, horticulture/growing media and landfill restoration. Conversely there has been a large proportional increase in the turf and landscaping/landscape development markets.

Using the same methodology as for 2012, the estimate for the market value

for compost produced in Scotland in 2013 is £690,000 compared with £566,000 in 2012, an increase of 22 percent despite the reduction of 13 percent in the amount of compost produced. This reflects the shift to higher value end markets.

Most (22 of the 26 surveyed) composters said that they were producing compost certified to PAS100 and all of these intend to maintain their certification.

In the anaerobic digestion sector, employment has risen from 62 full time equivalents in 2012 to 70 in 2013.

It is estimated that industrial sites co-located with drinks manufacturers, breweries and distilleries which process large volumes of liquid and discharge to sewer accounted for 2 million tonnes of throughput in Scotland in 2013. All other types of site processed an estimated 132,000 tonnes in 2013, an increase of 9 percent

*(See Scotland, page 12)*

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Email: [curtistisler@patzcorp.com](mailto:curtistisler@patzcorp.com)

## Compost Turners



### Aeromaster

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



### 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](mailto:sales@brownbearcorp.com)  
Web: [www.brownbearcorp.com](http://www.brownbearcorp.com)

### Quick Response (QR) Codes

The two dimensional "barcode" above each listing is a digital link to the company's website. The QR code can be read by the camera on mobile devices equipped with barcode readers. Just scan the code to access the website. For technical details, contact your mobile phone vendor.



### HCL Machine Works

15142 Merrill Ave.  
Dos Palos, CA 93620  
Phone: 209.392.6103  
Fax: 209.392.3000  
Email: [casey@unwiredbb.com](mailto:casey@unwiredbb.com)  
[www.hclmachineworks.com](http://www.hclmachineworks.com)  
Contact: Sherrill Campbell  
Contact: Casey Campbell



### Resource Recovery Systems International-KW

511 Pawnee Dr.  
Sterling, CO 80751  
Phone: 970.522.0663  
Fax: 970.522.3387  
Email: [rrskw@bresnan.net](mailto:rrskw@bresnan.net)  
Web: [www.rrskw.com](http://www.rrskw.com)  
Contact: Les Kuhlman, Ph.D.



### SCARAB International LLP

1475 County Road W  
White Deer, TX 79097  
Phone: 806.883.7621  
Fax: 806.883.6804  
Web: [www.scarabmfg.com](http://www.scarabmfg.com)  
Email: [info@scarabmfg.com](mailto:info@scarabmfg.com)

## Consulting Firms



### Coker Composting & Consulting

2186 Mountain Pass Road  
Troutville, VA 24175  
Phone: 540.874-5168  
Email: [cscoker@verizon.net](mailto:cscoker@verizon.net)  
Web: [www.cokercompost.com](http://www.cokercompost.com)  
Contact: Craig Coker

# Product/Equipment and Services Guide

## 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  
Web: www.ag-bagfs.com

## Marketing/Public Relations

### The Write Company

9815 Hazelwood Avenue  
Strongsville, OH 44149  
Phone: 440.238.6603  
Fax: 440.238.6712  
Web: www.thewriteco.com  
Email: ken@thewriteco.com  
Contact: Ken McEntee

## Mulch Coloring Systems



### Amerimulch - A member of the ChromaScape family of brands

2055 Enterprise Park  
Twinsburg, OH 44087  
Phone: 330-425-4244  
Fax: 330-425-4240  
Toll-Free: 888.556.3304  
Contact: Rocky Hatfield  
Email: rockyh@amerimulch.com  
Web: www.amerimulch.com

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The two dimensional "barcode" above each listing is a digital link to the company's website. The QR code can be read by the camera on mobile devices equipped with barcode readers. Just scan the code to access the website. For technical details, contact your mobile phone vendor.



### 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 Manager



### BASF/Colorbiotics

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



### Rotochopper

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

## Replacement Parts



### 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  
Web: www.armorhog.com  
Contact: Brian Bergman

## Screening Systems & Trommels



### 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  
Email: info@westsalem.com  
Contact: John Snodgrass

## Thermometers & Monitoring Equipment



### REOTEMP Instruments

10656 Roselle Street  
San Diego, CA 92121  
Ph: 800.648.7737  
Fx: 858.784.0720  
Contact: Nathan O'Connor  
Email: compost@reotemp.com  
Web: www.reotemp.com/  
composting-products.html

## Wear Parts



### Grinder Wear Parts & Apollo Equipment.net

2062 20th Avenue SE  
Largo, FL 33771  
**Oregon Manufacturing**  
2785 N. Front Street  
Woodburn, OR 97071  
Phone: 503.982-0880  
Fax: 503.982.0881  
Toll Free 800.827.0401  
Web: www.grinderwearparts.com  
E. info@grinderwearparts.com  
Contact: Wayne Brown

# 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 Manufacturing

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



### 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, President,  
Sales Mgr.



### 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



### Morbark Inc.

P.O. Box 1000  
Winn. MI 48896  
Phone: 800.233.6065  
Fax: 800-832-5618  
Web: www.morbark.com  
Email: inquire@morbark.com



### 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  
Phone: 320.548.3586  
Fax: 320.548.3372  
Email: info@rotochopper.com  
Contact: Monte Hight  
Web: www.rotochopper.com



### Rockster & Apollo Equipment.net

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Fax: 503.982.0881  
Toll Free 800.827.0401  
Web: www.grinderwearparts.com  
E. info@grinderwearparts.com  
Contact: Wayne Brown



### 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  
Email: info@westsalem.com  
Contact: John Snodgrass

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440.238.6603 or  
ken@recycle.cc**

## Food waste

### Scotland

From page 8

on 2012.

Excluding the industrial sites which discharge treated water to sewers, the majority of input to AD plants in 2013 was separated solid food (64 percent, increased from 54 percent in 2012) with almost all the rest (34 percent) being liquids (as opposed to manures or purpose grown crops, which account for 31 percent of inputs to AD in the U.K. as a whole).

Excluding the industrial sites which discharge treated water to sewers, an estimated 120,000 tonnes of digestate were produced in 2013 compared to 110,000 tonnes in 2012.

For the majority (76 percent) of outputs from the sites (whole digestate and separated fiber and liquor) the operator of the AD plant paid the end user to remove them and no Scottish operators reported selling outputs to the end user. For the U.K. as a whole the market for digestate is slightly more developed, with some sites supplying it free of charge or obtaining a price. Only one of the eight sites responding to the survey produced outputs certified to PAS110.

Zero Waste Scotland said the survey illustrates the mature nature of the composting industry in Scotland. There has been some contraction, in terms of number of composting sites and total quantity processed, but this has mostly been due to the disappearance of the 'lower tech' processes such as aerated static piles, the organization said. At the same time, there is evidence of the remaining composters gaining access to higher value end markets.

In contrast, the data from the AD sites indicates a sector which is smaller and less developed, with less evidence of commitment to certified quality assurance and capturing value through end markets for their digestate.

Both sectors contribute to the Scottish economy through

employment and the value of their outputs, both to the operators and to their end markets.

The purpose of the study was to quantify the processing of organic material in Scotland by means of surveying the operators of composting and AD sites.

A survey of the organics processing industry has been undertaken since the mid-1990s, originally by The Composting Association (with funding from the Environment Agency and WRAP support in later years) and more recently by WRAP with the support of the Anaerobic Digestion and Biogas Association (ADBA), the Renewable Energy Association (REA) and the Environmental Services Association (ESA). The report on the UK results (which are from a survey of the AD sector only) is available from the WRAP website.

A telephone survey was carried out between February and April of 2014, collecting data on the state of the sector in the calendar year 2013. Attempts were made to contact all of the known composting and AD sites in Scotland. Composting sites, including both In Vessel Composting (IVC) and windrow sites, were identified based on past surveys and the knowledge of the contractor.

The response rate for composting sites was 90 percent: 26 sites answered at least some of the survey questions, out of an operational population (during 2013) of 29 sites. This compares to a response rate of 76 percent (25 out of 33 operational sites) in the survey of 2012.

### Hunger

From page 1

director said the missions of the two organizations intersect: diverting resources that can contribute to world soil health, and ending food insecurity.

"Composting is a critical rung on the ladder of securing adequate food resources, because it is critical recapturing inedible food scraps to grow nutritious food through compost-

enhanced soil," Rattie said. "Compost is also part of the solution to the impact of climate change on world hunger by locking methane, a greenhouse gas."

USCC said from a scientific and environmental perspective, food scraps are the final frontier in organics recycling due to the challenges inherent in collecting and handling them. Advances in the U.S. composting industry mean more of these residuals are being manufactured into compost than ever before, returning them to the soil to grow more food. From an anti-hunger perspective, diverting food scraps from refuse to compost means cost savings, additional food and ultimately more meals for seniors in need. Working together, USCC and NFESH will bring these perspectives together to accomplish the complementary goals of eliminating food waste and composting food scraps, improving soil health through compost and addressing senior hunger, USCC said.

As the first formal activity of the new partnership Matt Levine, chief operating officer of NFESH, will participate in a panel on organics programs at COMPOST2015, the USCC's annual conference, in Austin, Tex., on Thursday, January 22. Levine's presentation, *What a Waste, Helping to End Senior Hunger*, will focus on NFESH's pioneering work through its *What a Waste* initiative to introduce waste reduction, composting and growing practices into the daily operations of nonprofit senior nutrition programs.

"We are pleased to have the opportunity to acquaint the composting industry with the issues that we in the anti-hunger world face," Borden said. "Once they hear our story, we are convinced that they will bring the same energy and dedication to assisting us in eliminating hunger as they do to addressing environmental concerns. That is a win for everyone."

Through research, education and community partnerships NFESH

(See *Hunger*, page 14)



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## Food waste

### Hunger

From page 13

works to create the tangible and replicable solutions necessary to reverse the escalating number of seniors in the lifecycle of hunger.

## Mortality

### Road Kill

From page 1

To get started, workers cover the bottom of the bin with a layer of sawdust and then place the carcasses inside. They are covered with an equal mix of compost material and sawdust. As the carcasses start to decompose, the resulting liquids, called leachate, drain into slots at the bottom of the bin, collecting into an underground septic tank.

Workers recycle the microbe-rich

liquids and spray it back onto the compost pile to help speed the decomposition. As more carcasses are added, additional layers of the compost-sawdust mix are placed on top, until the bin is filled.

The air, along with the continuous recycling of the microbe-rich liquid, helps temperatures in the compost pile reach up to 160 degrees.

Higher temperatures translate into increased microbial activity, reduced composting time and fewer health hazards. Extra sawdust is always available to prevent unwanted odors. When the process is complete, the fresh compost is ready to be recycled and used at VDOT facilities and along Virginia roadways.

The Windsor Area headquarters is one of four pilot test sites to start composting operations around Virginia. VDOT and its research division, the Virginia Center for Transportation Innovation and Research (VCTIR), have studied the

performance of these types of facilities and other composting methods for several years to provide additional effective carcass-management options that comply with environmental regulations.

Composting also can help reduce some of the costs associated with transporting roadkill to offsite disposal sites.

## Markets

### Market points

From page 1

- Market is stable for compost. The types of markets are broadening. – *Northern Virginia*
- Raw products being diverted to other markets will continue to drive costs up. – *Central Virginia*
- As of January 1, our wholesale price has risen to \$48 per yard from \$44.50 per yard. (The retail price in Vermont was as high as \$80 per yard.) - *Vermont*

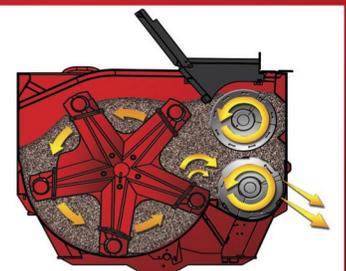


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Read these complete stories at [www.facebook.com/CompostingNews](http://www.facebook.com/CompostingNews).

- **Delaware** environmental regulators have rung out the old year with a new string of citations targeting an on-the-ropes composting plant in south Wilmington, flagging the company for multiple violations of a shutdown order issued in October.

Among the concerns listed in the 10-point Notice of Violation issued to Peninsula Compost LLC this month were weeks- and months-long failures to properly store and limit accumulations of compost, wood and trash residues, as well as failure to operate an odor-controlling system and a weeks-overdue, \$10,000 penalty payment.

Inspectors also noted the company was unable to document compliance with temperature-control rules aimed

at killing pathogens in compost piles along Christiana Avenue near the Port of Wilmington, despite state record-keeping requirements.

The Department of Natural Resources and Environmental Control gave the company a January 15 compliance deadline. (See more information in the October 2014 issue of Composting News.) - *Wilmington News Journal*, [www.delawareonline.com](http://www.delawareonline.com)

- The **Nebraska** Farmers Union is seeking a grant for a worm farm that would turn Lincoln school food scraps into useful compost.

The group applied for a grant of more than \$169,000 from the Nebraska Environmental Trust to fund the project. A grant decision is expected in April. The project goals are to reduce the waste that goes to the city landfill, to create a natural product that can be used to improve community and school gardens, and to give students

chances to learn the benefits of composting.

The project would be housed in a greenhouse-style structure that would include a 40-foot-long by 5-foot-wide bin that could house about a million worms. Picard said the facility could process between 250 and 375 pounds of food waste per day. He plans to start with about 100,000 worms, which can reproduce rapidly.

The Nebraska Farmers Union plans to give the compost to farmers, schools and community gardens. Eventually the organization would like to sell the product and, possibly, some red wigglers as well. - *Lincoln Journal Star*, <http://journalstar.com>.

- Yard waste recycling rules at the Deffenbaugh landfill, in **Shawnee, Kan.**, appear to be headed for more trouble with the state, even after changes the Johnson County

(See Digest, page 19)

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The Environmental Show of the South is sponsored by the Tennessee Department of Environment and Conservation's Division of Solid Waste Management.

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Why should I use compost on my garden?

If your business depends on answering that question, we encourage you to visit our Facebook page: [CompostWay2Grow](https://www.facebook.com/CompostWay2Grow).

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## Compost product news

Composting News publishes Product News as a service to its readers and is not responsible for the accuracy of information or claims made by manufacturers of products included.

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.



West Salem 4064BHP horizontal grinder

### West Salem horizontal grinder featured on video

West Salem Machinery recently published a YouTube video that shows its WSM Model 4064BHP horizontal grinder processing urban wood waste. West Salem said its horizontal grinding systems offer a full range of machine sizes for processing from 1 to 150 tons per hour, delivering superior processing performance while

minimizing horsepower and maintenance requirements.

West Salem Machinery builds industrial grinders and systems for the urban wood waste processing industry.

For more information, view the video at <http://youtu.be/pXAspfmMhQc>, or visit [www.westsalem.com](http://www.westsalem.com).

### Mulch coloring featured in Rotochopper YouTube

After more than 15 years as the benchmark for grind-&-color technology, the Rotochopper power application system continues to offer the most efficient means for producing color enhanced mulch, the company

said.

Rotochopper this month featured its B-66 horizontal grinder making "Perfect In One Pass" colored mulch in a YouTube video. The B-66 is a high-volume "Perfect In One Pass" solution for colored mulch, animal bedding and other engineered fiber products.

Rotochopper said the B-66 transforms a broad range of raw materials—whole trees, slabwood, railroad ties, asphalt roofing shingles, round and square bales, sorted C & D, wood chips and pallets—into engineered fiber commodities.

What separates the machine from other grinders in its class, the company said, is that it is designed not just for high production but also for "Perfect In One Pass" finished product control. So you get the fiber size, texture, and even color that you need from your raw materials.

Rotochopper said the B-66 simplifies high volume grinding with exclusive features designed to maximize uptime and end product control:

- Domed slat infeed conveyor
- Gap-less infeed transition
- Patented slab ramp adjustable shear plane
- Patented concentric powerfeed lift



Rotochopper B-66 horizontal grinder

- with internal radial piston drive
- Patented replaceable mount rotor
- Biomass rotor package for producing short fiber fuels from round wood (optional)
- Hydraulic screen installation system
- Crawler tracks with highway transport dolly (optional)
- Asphalt shingle grinding package (optional)
- Patented simultaneous grind & color system (optional)
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For more information view the video at <http://youtu.be/8FawpT4lQJQ>, or visit [www.rotochopper.com](http://www.rotochopper.com).



Komptech Topturn X55

### Komptech Topturn X55 makes maintenance easy

Maintenance is easy on the Komptech Topturn X55 compost turner, Komptech says. The machine is featured in a video posted last month at Komptech's YouTube site.

Komptech said the Topturn is one of the most widely used compost turners in the world.

"Inspired by our customers, this third generation of the Topturn offers top performance with complete comfort and convenience," the company said.

For more information, view the video at <http://youtu.be/Rkrlcp1RtMs>, or visit [www.komptech.com](http://www.komptech.com).

**Marketing**

# Washington student wins USCC compost poster contest

A high school senior from Maple Valley, Wash. has created the poster to promote this year's International Compost Awareness



The winning artist Emily Mozzone

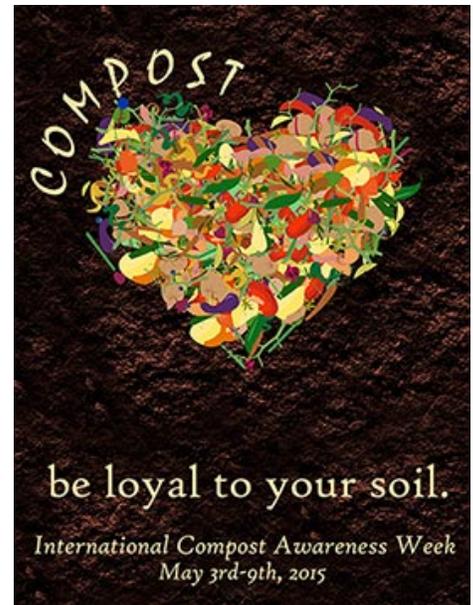
Week as part of an annual contest coordinated by the U.S. Composting Council (USCC). Emily Mozzone won the \$500 first prize for her conception of

this year's theme, *Be Loyal to your Soil*. Her design will be displayed on

posters, tee shirts and other ways of promoting International Compost Awareness Week, which will be recognized May 3-9, 2015. *Composting News* is among the sponsors of International Compost Awareness Week. Mozzone's conviction that increasing awareness of the benefits of recycling organics to convert them to useful materials caused her to enter the prize-winning poster, USCC said. The contest which drew a record 200 submissions.

"If people became more aware of the benefits of composting and began to recycle their food and yard waste products, organic wastes could easily be converted into a product that helps our planet, and the plants on it," Mozzone said. "I hope that my poster can show people how truly important composting is — and that the planet will thank them for it."

A theme running through many of the designs — showing compost on golf courses and roads and other uses—



The winning poster

indicated that awareness is growing not only about the diversion of organic materials, but also of their conversion

(See Awareness, page 19)



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## Marketing

### Awareness

From page 17

into beneficial and marketable products, said Jeff Ziegenbein, chairman of the USCC's International Compost Awareness Week Committee, and project manager for Inland Empire Regional Composting Authority, in California.

"This is good news for us as the compost manufacturing industry, because it shows that outside our industry, people are understanding the critical need for compost as soil amendment, erosion control and other valuable uses," Ziegenbein said.

International Compost Awareness Week is an annual multi-media publicity and education campaign that showcases composting and compost products, from backyards to large-scale composting facilities. Along with Composting News, sponsors of this year's campaign include: *BioCycle Magazine*, *BioBag*, *Filtrexx International*, *Full Circle Organics*, *Vonco II*, *WeCare Organics*, *City of Los Angeles*, *Reotemp Instruments*, *Grab 'N Gro Soil Products*, *Georgia Recycling Coalition*, *Natur-Bag* and *Erosion Control Magazine*.

result, the bureau is exploring options on what steps it can take, he said.

The county enacted restrictions on grass clippings, twigs and leaves in 2012 with the intention of saving space at the landfill. But the rules have been controversial with critics who say the program is too expensive and ineffective.

The Kansas Legislature recently got

into the act, passing a law that bars counties from enforcing restrictions on private landfills.

A plan like Johnson County's, requiring yard waste to be bagged and composted in a separate area of the landfill, might have an impact on other counties that also use the landfill, for example. - *Kansas City Star*, [www.kansascity.com](http://www.kansascity.com).



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From page 15

Commission made recently to comply with a state law.

The commission, on a 4-3 vote this month approved changes to its solid waste code to give the county more flexibility in enforcing its own yard waste rules. State regulators, who have been watching the high-profile issue closely, are not amused.

"We don't believe they did what they needed to do in response to the law," said Bill Bider, director of the state Bureau of Waste Management. As a



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