



Independent coverage of composting, wood recycling and organics management

# Composting News

November 2015

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Market Intelligence

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## California organics mandate begins in January

January 1, 2016 will mark the first implementation date of California's mandatory commercial organics recycling law. The law, enacted in October 2014, sets January 1 as the date by which local jurisdictions in the state must have an organic waste recycling program in place.

The program must include outreach, education to inform businesses how to recycle organic waste in the jurisdiction and monitoring to identify those not recycling and inform them of the law and how to recycle organic waste.

Four months later, by April 1, 2016, businesses that generate eight cubic yards of organic waste per week must arrange for organic waste recycling services. That eight-yard threshold will be reduced to four yards per week by January 1, 2017.

The law that requires local jurisdictions to implement an organic waste recycling program to divert organic waste includes multifamily residential dwellings that consist of five or more units as well as businesses.

California disposes of about 30 million tons of waste in landfills each

*(See Mandate, page 5)*

## Compost use reduces human health impacts in strawberry study

Strawberry crops grown in compost and organic production systems resulted in "considerable reductions" in negative human health and environmental impacts compared to crops grown in conventional chemical systems, according to a team of researchers from North Carolina State University.

The researchers set out to provide strawberry growers in their region with information that could help them transition to more sustainable soil and pest management production practices. Their study, published in the August 2015 issue of *HortTechnology*, compared conventional, compost and organic strawberry production systems in the southeastern United States, and revealed good news for growers.

All three systems resulted in positive net returns. But, according to the authors,

*(See Strawberries, page 14)*



## Agromin opens new composting facility in California

Agromin Inc. has opened a new organics recycling facility in Chino, Calif. Agromin, one of the largest organics recyclers in California, said it hopes to produce 50,000 tons of compost per year at the facility. The company makes compost that is used by local growers and commercial landscapers.

The new five-acre Chino site receives green waste from residents and businesses in Burbank, Corona, Eastvale, Norco, Riverside and Mira Loma.

Agromin said it is producing three products in Chino: Compost 100, ES-2

cover mulch and Garden Humus. Its Compost 100 is approved for use in USDA certified organic production and food processing and is Organic Materials Review Institute (OMRI) listed. Agromin's ES-2 mulch is for orchard applications and for use in

*(See Agromin, page 12)*

### Highlights

- n **Science Committee chair demands NOAA climate documents**
- n **National compost prices**

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Legislation/Regulation

# Science Committee chair demands NOAA climate documents

Rep. Lamar Smith (R-Texas) this month demanded subpoenaed documents relating to climate change data from the National Oceanic and Atmospheric Administration (NOAA). Smith, chairman of the House Science, Space and Technology Committee, sent a letter to Kathryn Sullivan, administrator of NOAA, responding to the agency's "unjustified refusal to provide the committee with documents related to the agency's decision to alter historical climate data." After three previous letters

requesting the documents, Smith issued a subpoena on October 13 to obtain communications related to NOAA's decision.

The latest letter demanded that NOAA provide all of the documents covered under the subpoena by November 6 and also requested that NOAA make several employees available for transcribed interviews with the committee.

"To date, you have neither produced all documents responsive to the subpoena, nor invoked a valid legal privilege to justify withholding them," Smith wrote to Sullivan. "Your failure to comply with the committee's subpoena has delayed the committee's investigation and thwarted the committee's constitutional obligation to conduct oversight of the executive branch. Furthermore, your failure to comply with a duly issued subpoena may expose you to civil and/or

(See Warming, page 5)



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## Legislation/Regulation

### Warming

From page 3

criminal enforcement mechanisms.”

Smith said although NOAA failed to provide the committee with any justification for withholding documents, a NOAA spokeswoman was quoted in the media saying that the agency’s “internal communications are confidential and not related to what Smith is trying to find out.” As such, NOAA reportedly does not intend to provide the Committee with communications.

In his letter, Smith wrote: “Contrary to NOAA’s public comments, it is not the position of NOAA to determine what is, or is not, responsive to the committee’s investigation or whether certain communications are confidential.

NOAA has failed to fully explain the conditions surrounding its process and procedures for adjusting upward temperature readings that eliminated the ‘pause’ in global warming. Deficiencies in NOAA’s response to the committee’s request raises serious concerns about what role officials at NOAA, including political appointees, had in the decision to adjust the temperature data and widely publicize conclusions based on those adjustments.”

The committee is investigating NOAA for allegedly manipulating weather data to show recent global warming when there is none. According to the committee, satellite temperature readings clearly show no warming trend for the last 18 years, 8 months.

Earlier this year, NOAA scientists took part in a study that found that the pause in global warming from 1998 to 2013 didn’t exist based on agency revisions to the data instead of using actual satellite data, the committee charges.

Smith subpoenaed NOAA for research documents related to the study, but NOAA has refused to hand them over.

### Mandate

From page 1

year. About 30 percent of that could be used for compost or mulch, the state government said.

Full implementation of the mandatory organics diversion is scheduled to be in place by 2019. The law contains a 2020 trigger that will increase the scope of affected businesses if the state’s 50 percent organic waste reduction target is not met.

## Food Waste

### Volvo, college team up on food waste composting

**V**olvo Construction Equipment has created a partnership with Wilson College, of Chambersburg, Penn., to compost food waste from its corporate kitchen. Pre-kitchen waste from Volvo’s cafeteria will be shipped to Wilson to be composted and reused on the college’s organic farm.

The partnership, aimed at reducing the amount of waste going into landfills, is believed to be the first of its type in Pennsylvania.

Volvo said the partnership is a part of its initiative to become a zero-landfill facility, according to Mary Reid, an environmental consultant for the company’s Shippensburg, Penn. operation, which employs nearly 1,000 people.

“When we looked around for composting options and realized we could partner with a local college and make a contribution to the community, it just was the right path to take,” Reid said.

Wilson recently obtained a general permit for on-farm composting from the Pennsylvania Department of Environmental Protection’s (DEP)

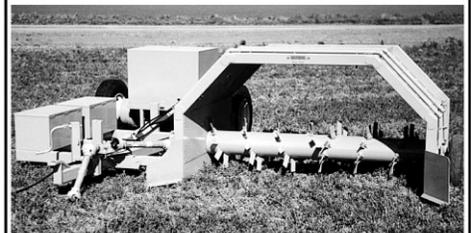
Bureau of Waste Management Division of Municipal and Residual Waste. The college has been collecting food scraps from its dining hall and composting them for use on its USDA-certified organic farm for more than 10 years. The new permit was required to allow it to accept food waste from an outside entity, said Jeff Olsen, solid waste program specialist with DEP.

“I think you could say this is a first in Pennsylvania that a college has actually gotten a general permit for on-farm composting for a partnership with an industry,” Olsen said.

Wilson’s permit allows it to produce up to 13 tons of compost per year, according to Chris Mayer, director of the college’s Fulton Center for Sustainable Living. She estimated that with pre-kitchen and cooked food scraps from the college dining hall and Volvo’s pre-kitchen waste and coffee grounds, about 7.8 tons of compost

(See Volvo, 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

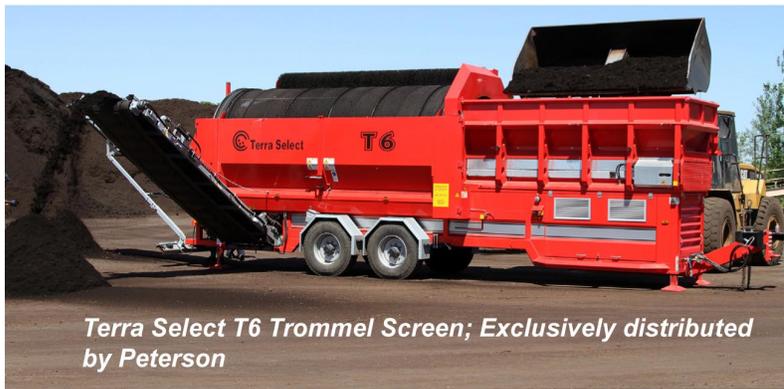
Colored wood mulch	Average	High	Low
NE	\$ 22.00	\$ 22.00	\$ 22.00
Chesapeake	\$ 20.50	\$ 22.00	\$ 19.00
SE	\$ 19.00	\$ 25.00	\$ 15.00
Florida	\$ 16.00	\$ 16.00	\$ 16.00
Iowa	\$ 25.00	\$ 25.00	\$ 25.00
Minneapolis	\$ 27.00	\$ 35.00	\$ 19.00
Texas	\$ 20.67	\$ 24.00	\$ 18.00
Denver	\$ 17.66	\$ 21.32	\$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

### Volvo

From page 5

will be produced annually.

“You have about a 75 percent reduction in volume after the material is composted,” said Mayer.

Mayer said the Volvo/Wilson partnership is beneficial in many ways, including in terms of supplementing the compost produced for the college farm.

“We need the compost to increase organic matter to address soil fertility (on the farm),” she said. “Before this we were buying additional compost, so we will see a cost savings.”

Prior to accepting Volvo’s pre-kitchen food waste, Wilson regraded its composting area at Fulton Farm to address water runoff concerns. In addition to paying for the regrading, Volvo has agreed to provide a \$1,000 grant each semester to a Wilson student

who will help tend to the farm’s compost area.

The college began accepting Volvo’s pre-cooked food scraps and coffee grounds. The Shippensburg Volvo plant manufactures soil and asphalt compactors, pavers, screeds and wheel-loaders.

## Organix unveils organics capturing technology

Organix Solutions recently announced its commitment to commercialize its BurCell Recovery Technology, which, the company said, is engineered to capture all organic waste from the municipal solid waste (MSW) stream, including food and compostable paper.

Organix, a Minnesota-based organics recovery and municipal waste



Organix Solutions demonstrates the BurCell at their Delano MN facility.

consultancy, said the BurCell can remove the smallest particles of food scraps that typically are left behind with current material handling practices.

“By incorporating this new technology we are reducing environmental impact by directing materials in the waste stream to the highest and best use,” said CEO Jim Wollschlager, while demonstrating the technology to more than 100 people, including state representatives, municipal officials and customers.

(See Capture, page 12)

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## Consulting Firms



### Coker Composting & Consulting

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Web: www.cokercompost.com  
Contact: Craig Coker

## Conveyer systems



### Patz Corporation

P.O. Box 7, 917 Hwy.141  
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Fax: 920-897-2142  
Contact: Curtis Tisler  
Web: www.patzcorp.com  
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# Product/Equipment and Services Guide

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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



**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



**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: Bob DeSouza

## 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



**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

## Thermometers & Monitoring Equipment



**REOTEMP Instruments**  
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San Diego, CA 92121  
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Fx: 858.784.0720  
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Email: rockyh@amerimulch.com  
Web: www.amerimulch.com

## Screening Systems & Trommels



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P.O. Box 1000  
Winn, MI 48896  
Phone: 800.831.0042  
Fax: 989-866-2280  
Web: www.morbark.com  
Email: inquire@morbark.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



**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



**Terra Select**  
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



**DynaHog CW Mill Equipment -**  
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Phone: 800-743-3491,  
Phone: 785-284-3454  
Fax: 785-284-2010  
Email: sales@dynahog.com  
Web: www.dynahog.com  
Contact: Jason Haug

# Product/Equipment and Services Guide



## Hogzilla Grinders CW Mill Equipment -

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Phone: 800.743.3491 or  
785.284.3454  
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Email: hogzilla@cwmill.com  
Web: www.hogzilla.com  
Contact: Tim Wenger,  
Vice President & Sales Manager



## Morbark Inc.

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Fax: 503.982.0881  
Toll Free 800.827.0401  
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E. info@GrinderWearParts.com  
Contact: Wayne Brown

## Wood Grinders & Shredders



## Bandit Industries, Inc.

6750 Millbrook Road  
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Fax: 989.561.2273  
E. sales@banditchippers.com  
Web. www.banditchippers.com  
Contact: Regional Sales Mgr.



## Diamond Z Manufacturing

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Caldwell, ID 83605  
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kevin.mayhugh@rulesteel.com  
Web: www.diamondz.com  
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## DuraTech Industries

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ind.sales@duratechindustries.net  
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Contact: Bob Strahm



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Contact: Bob DeSouza

## Food Waste

### Capture

From page 8

“Our technology can help cities and commercial entities meet the new recycling laws and reduce greenhouse gas emissions.”

The BurCell system was designed by Cornerstone Resources. Marathon Equipment, a brand within the Environmental Solutions Group (ESG), manufactures the BurCell system and has worked closely with Cornerstone and Organix Solutions to further enhance the BurCell design and thoroughly test the system for Organix Solutions’ targeted applications.

In 1995 the Minnesota legislature established a 50 percent recycling goal for its metropolitan counties by 2030. In 2010, the state mandated organics as a recyclable and exempted source separated compostable waste from solid waste management taxes. In 2014, Minnesota set a new 75 percent recycling and composting goal for the Twin Cities metro area by 2030. California and several Northeastern states have implemented organics recycling laws, while other states are developing laws for managing organics. Organics and non-recycled paper represent up to 60 percent of the MSW stream.

“We want to reverse the unsustainable and unprofitable disposal model in favor of a layered approach that is regenerative and restorative by design,” said Wollschlager. “Our solutions prevent this immense fraction of MSW from ever reaching a landfill.”

In addition to the BurCell Recovery Technology, Organix said it will expand the versatility of the Delano, Minn. materials recovery facility with an anaerobic digester slated to break ground in the spring. The anaerobic digester will operate as the fourth layer in the Organix system and will generate fuel for the hauler’s fleet. Organix is a wholly-owned subsidiary of Randy’s Sanitation.

## Facilities

### Waste Connections acquires Illinois composter

**W**aste Connections Inc. completed the acquisition of Rock River Environmental Services Inc., a Texas-based provider of solid waste collection, recycling, transfer and disposal services with total annual revenue of about \$75 million. The acquired operations service 19 counties in central and northern Illinois and include five collection operations, two landfills, one compost facility, one transfer station and one recycling facility.

“Rock River should provide us with a platform for additional organic and acquisition growth opportunities, potentially doubling its size within five years,” said Ronald J. Mittelstaedt, chairman and CEO of Waste Connections.

Texas-based Waste Connections is an integrated solid waste services company that provides waste collection, transfer, disposal and recycling services in mostly exclusive and secondary markets, serving more than two million residential, commercial, industrial and exploration and production customers from a network of operations in 32 states.

### Agromin

From page 1

public works locations and other landscape projects. It meets California Department of Transportation specifications. Garden Humus is designed for sandy soils as it adds structure, nutrients and microbes to the soil to promote healthy plant growth.

“Residents who put their green waste into their recycling bins are enabling



local farmers to grow organic, chemical-free produce,” said Bill Camarillo, Agromin CEO. “They are also helping cities to become more sustainable. Organic material that would have otherwise ended up in landfills emitting harmful gases will be transformed to become part of new residential and public landscaping.”

The opening follows a September zoning change that will enable Agromin to expand its composting facility near Santa Paula, Calif. The 15-acre site is located on property owned by the Limoneira Co., one of the largest providers of lemons and avocados in the United States. Agromin also has a nine acre composting yard in Oxnard, but plans to close the facility once the Santa Paula expansion is complete.

“Having a composting location that can handle all of the county’s green and food waste ensures that the county doesn’t not have to send its recyclable organic materials outside the area for composting or have it end up in landfills,” Camarillo said. “With new laws coming on the books that reduce how much cities can place in landfills, Ventura County and its cities will be in great shape to be in full compliance for years to come.”

Agromin said it would process about 300,000 tons of organic material at the expanded site each year - 200,000 tons would be green waste from homes and businesses and 100,000 would be food waste from restaurants and other food service facilities. Of the processed material, 60 percent will be used by Ventura County commercial farmers. The rest would be used in residential, commercial and municipal landscapes. Agromin also plans to capture the gases created by the composting process and turn it into clean biofuels that can be used by trucks, buses and other vehicles.

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## Compost Applications

### Strawberries

From page 1

the nonfumigated compost system and organic system evaluated resulted in reductions in negative environmental and human health impacts measured by a set of indicators.

“For example, the total number of lethal doses (LD50) applied per acre from all chemicals used in each system and measuring acute human risk associated with each system declined from 118,000 doses per acre in the conventional system to 6,649 doses per acre in the compost system and to 0 doses per acre in the organic system,” the authors said. “Chronic human health risk, groundwater pollution risk and fertilizer use declined as well in the compost and organic systems as compared with the conventional system.”

The three methods compared were

a conventional production system that is based on the current production practices implemented by growers; a nonfumigated compost system with summer cover crop rotations and beneficial soil inoculants; and an organic production system that includes practices approved for use under the National Organic Program (NOP).

The scientists said that the report can be a guide for strawberry growers in the region who want to improve soil management practices, those who are considering starting new strawberry enterprises or professionals who advise strawberry growers on business management decisions.

Although the compost system resulted in lower net returns than the conventional system (\$11,100 per acre as compared with \$14,979 per acre), the authors say it still has merits.

“We believe that the compost system should be considered as an economically viable transitional

alternative to proactive growers who are interested to improve their soil quality, especially given any possible future restrictions on the use of fumigation and further deterioration in soil quality in the conventionally managed system,” they said.

The complete study and abstract are available on the American Society for Horticultural Science (ASHS) *HortTechnology* electronic journal web site: <http://tinyurl.com/jje5g9j>

## Organizations

### Lamp'l to keynote USCC conference

Celebrity gardener Joe Lamp'l and EPA Assistant Administrator Mathy Stanislaus will be the keynote speakers at Compost2016, the annual conference of the U.S. Composting Council. The conference

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will be held January 25-28, in Jacksonville, Fla.

Lamp'l is the host of the popular Public Broadcasting System gardening show, "Growing a Greener World," and has served as USCC's celebrity spokesperson for the past year. He is an advocate of tested, certified STA compost and compost for many applications.

Stanislaus's group heads the EPA's Sustainable Materials Management approach, a change emphasizing recovery of resources over disposal methods. Organics recycling will also be a critical component of EPA's new 50 percent goal for reduction of food scraps.

"Two of the most important issues for our compost manufacturers and allied members are covered in the work of these two individuals," said Rod Tyler, outgoing president of the USCC.

"Whether you're a municipality in charge of picking up organics or a manufacturer working on selling the compost you've made, regulation and consumer education are make-or-break issues for our members."

For more information about the conference, visit [www.compostingcouncil.org/compost2016](http://www.compostingcouncil.org/compost2016).

## Loder to return as USCC president

Lorrie Loder, of nuTerra Management LLC, Jacksonville, Fla., has been elected president of the U.S. Composting Council (USCC). Loder, formerly of Synagro, served as chair and president of the USCC board in 2013-2014, before Rod Tyler, of

Filtrexx International, Grafton, Ohio, was elected to the position for 2015.

"Currently, there is a nationwide focus on diverting organic materials from disposal and the U.S. Composting Council is leading the way by promoting best management practices, establishing standards, educating professionals and the public about the benefits of compost manufacturing and compost utilization," Loder said.

- Other 2016 officers elected were:
- Vice president: Wayne King Sr., of EARTH Products, Plains, Ga.;
  - Treasurer: Clayton Leonard of New Earth Inc., San Antonio;
  - Secretary: Jeff Ziegenbein, Inland Regional Compost Authority, Rancho Cucamonga, Calif.;
  - Immediate past president: Tyler.
- Incoming board members elected

(See USCC, page 17)

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## Organizations

### USCC

From page 1

last month include:

- Brian Fleury, of WeCare Organics, Jordan, N.Y.;
  - Sarah Martinez, Eco-Products, Boulder, Colo.;
  - Greg Gelewski, Onondaga County Resource Recovery Agency, Syracuse, N.Y.;
  - Susan Thoman, Cedar Grove Composting, Maple Valley, Wash. Returning board members are:
  - Tim Goodman, Natureworks, Blair, Neb.;
  - Robert Michtisch, University of Wisconsin, Madison, Wisc.;
  - Patrick Geraty, St. Louis Composting, St. Louis, Mo.;
  - Tyler;
  - Matt Cotton, Integrated Waste Management Consulting, Nevada City, Calif.;
  - Frank Franciosi, Novozymes, Franklinton, N.C.;
  - Chuck Wilson, A1 Organics, Eaton, Colo.
- Three directors leaving the board are:
- Heidi Ringhofer, Western Lake Suburban Sanitary Commission, Duluth, Minn.;
  - Paul Sellow, Harvest Power, London, Ont.;
  - Rhodes Yepsen, Biodegradable Products Institute, New York.



## Compost Digest

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

• A study report by Tetra Tech Inc. said the proposed Compost USA composting facility in western **St. Lucie County, Fla.** would likely send nutrients, pathogens, bacteria and heavy metals into surrounding canals and “ultimately have a negative effect on water quality downstream” in the St. Lucie River and Indian River

## New equipment finance volume up 3 percent

**N**ew business volume in the equipment leasing and finance sector was up 3 percent for the year through October, according to the Equipment Leasing and Finance Association (ELFA). ELFA reports economic activity from 25 companies representing a cross section of the equipment finance sector.

Year to date, cumulative new business volume increased 3 percent compared to 2014. Overall new business volume in October was \$7.7 billion, down 8 percent from new business volume in October 2014. Volume was down 8 percent from \$8.4 billion in September. Receivables over 30 days were 1.0 percent in October, down from 1.1 percent the previous

month and down from 1.26 percent in the same period in 2014. Charge-offs were 0.27 percent, unchanged from the previous month.

Separately, the Equipment Leasing & Finance Foundation’s Monthly Confidence Index (MCI-EFI) for November is 60.2, an increase from the previous month’s index of 58.7.

“The markets continue to grow marginally year over year which is favorable,” said Anthony Cracchiolo, president and CEO, U.S. Bank Equipment Finance. “This points to a positive-leaning economy that also shows considerable inconsistency. Credit quality remains strong and at historical levels and the industry is well positioned for solid growth as the economy expands.”

Lagoon.

The proposed 189-acre facility would mix sewage sludge from municipal wastewater treatment plants with chopped yard waste and wood chips to make mulch, fertilizer and potting soil.

The report by Tetra Tech Inc., a worldwide engineering and consulting firm, was commissioned by the St. Lucie County Planning Department.

The report noted water samples collected from a retention pond at the Compost USA facility in Sumter County contained nitrogen, copper, arsenic, lead and several herbicides, including Heptachlor, which was banned in the late 1980s.

The metals weren’t at dangerous levels, the report noted, but they could accumulate in water and be released “to the surrounding environment.”

Compost USA said windrows would absorb most of the rain falling on them, and any trace amount of contaminants in the water leaching off the piles would be absorbed by vegetation in swales and a surrounding moat. The company

said runoff from the site would go into the nearby canal, but the water would contain no contamination such as phosphorus, nitrogen or coliform.

– *Treasure Coast Newspapers*, [www.tcpalm.com](http://www.tcpalm.com)

• **A Chesterfield Township, Mich.** composting operation has agreed to shut down, and the property is for sale, according to the township attorney.

Compost operator Triple R.D. and the township settled their legal dispute before the case was scheduled to go on trial in Macomb County Circuit Court in Mount Clemens.

Located on 99 acres of land, Triple R.D. agreed to a permanent injunction and will not accept any more grass clippings or yard debris.

Triple R.D. was cited by the state Department of Environmental Quality (DEQ) in August 2014 for violation of the Solid Waste Management of the Natural Resources and Environmental Protection Act. DEQ said the violation was for “mismanagement of yard

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clippings and the placement of solid waste into or on the land, thereby establishing an open dump.”

An engineering firm inspected the site and determined that Triple R.D. exceeded the maximum amount of compost it could maintain on the site by five times. The limit, by state law for a “farm operation,” as claimed by Triple R.D., is 5,000 cubic yards. The engineers said the site had more than 25,000 cubic yards.

Triple R.D. is owned a family that has engaged in many legal battles with local governments regarding their compost operations over the past two decades. - *The Voice, www.voicenews.com*

- Organics composter Harvest Power is seeking an air quality permit to increase its “authorized emissions” after significantly exceeding air and odor emissions for the past two years.

The **Richmond, B.C.**-based company, which composts most of Metro Vancouver’s food scraps, has asked the regional district to approve a permit based on “characterization

studies” over the past two years that show emissions were more significant than expected, in some cases 11 times higher for certain compounds.

Yet Metro has done nothing about it, mainly because the company had been operating under a temporary two-year contract, with requirements to “measure like crazy” its emissions over that time.

Metro acknowledged there has been a significant increase in emissions — and odor complaints — since the plant started accepting the region’s food scraps. In the past 2½ years there have 270 odor complaints from residents.

Under the permitting process, the company could face further emissions or pollution controls, such as limits on its emissions as well as the concentration and volume of certain contaminants, as well as strict measuring and monitoring requirements.

Harvest Power operates five locations in Metro Vancouver with a

(See Digest, page 19)



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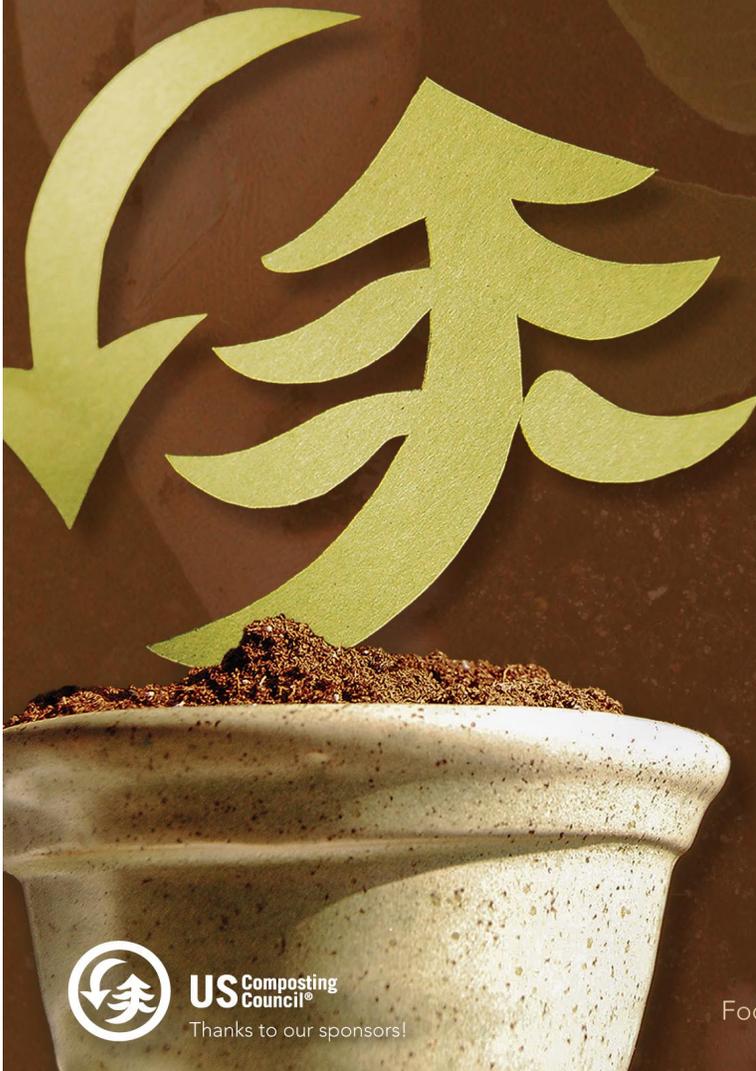
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From page 17

combined capacity to take in 200,000 metric tonnes of organic waste each year. The company collects most of the compost generated by Metro Vancouver, which has banned kitchen scraps from garbage cans, as part of a plan to divert 80 percent of compost and recyclables from the region's landfills by 2020. - *Vancouver Sun*, [www.vancouver.sun.com](http://www.vancouver.sun.com)

- City officials in **Cedar Rapids, Iowa** are working on an ordinance that would require builders and developers to leave a top layer of absorbent soil on new building sites.

Compost, a relatively inexpensive soil amendment, might become a key player.

The idea is that a healthy, deep top layer — rather than a cover of grass sod atop what often is cement-like compacted soil and clay — will help sustain lawns and hold in rain water, reducing the potential for flooding.

The measure also would create a market for compost made at Iowa's largest municipal compost operation — a behemoth of decomposition on 28 acres at the Mount Trashmore landfill.

In 2014, a flash flood damaged dozens of homes and sent two teens into a storm sewer, killing one.

In the fiscal year that ended June 30, the Cedar Rapids/Linn County Solid Waste Agency took in 38,215 tons of yard waste but sold or gave away only 13,338 tons of compost. About 100 tons of what comes in can create about 60 tons of compost.

Another 10,060 tons of wood material came to the compost operation in the last fiscal year. It was sold, not composted, as wood chips for \$4 a ton to a Wisconsin power plant,

which since has closed.

The agency estimated that it has 50,000 tons of compost in some stage of "curing," and another 2,500 tons that has gone through a final screening and is ready for sale or giveaway. - *The Gazette*, [www.thegazette.com](http://www.thegazette.com)

- It's against the law in **Illinois** to put yard waste, like leaves and sticks, into a landfill. But because of choices made by the city of **Chicago**, that is exactly where a lot of the city's yard waste is ending up.

The city says residents should place yard waste in a paper bag for pickup by a city truck. But a news crew watched as a bag of yard waste was thrown in a garbage truck, with the rest of the trash, headed to a landfill.

The Chicago Department of Streets and Sanitation said doing separate pick-up had gotten too expensive for Chicago, so residents must call 3-1-1 and specifically ask for yard waste pick-up. - *WBEZ 91.5FM*, [www.wbez.com](http://www.wbez.com).

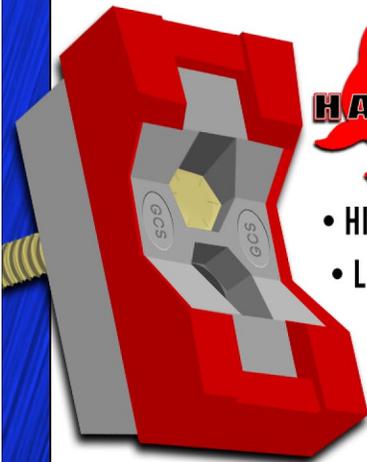
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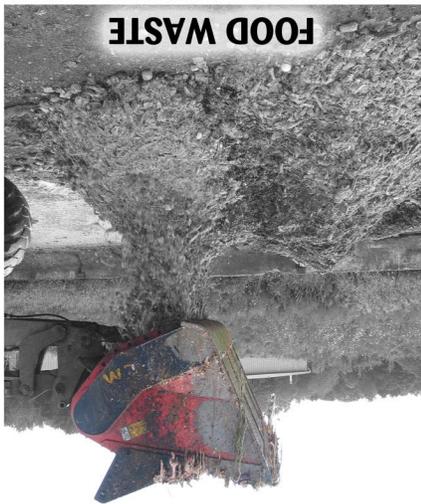
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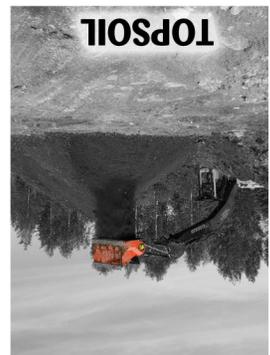
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