



Independent coverage of composting, wood recycling and organics management

# Composting News

October 2014

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Market Intelligence

Volume 23 Number 8

## Delaware closes Peninsula Compost Co.

After nearly five years of operation, the state of Delaware has ordered the closing of Peninsula Compost Co. LLC's Wilmington Organic Recycling Center. An October 20 order from David Small, secretary of the Department of Natural Resource and Environmental Control (DNREC), directed the company to immediately cease accepting any material at the facility and initiate steps to implement an orderly closure in compliance with a closure plan.

In addition to immediately ceasing accepting any waste into the facility, the order required all active composting of existing material onsite to be completed by Jan. 16, 2015. All compost and related waste must be removed from the facility by March 31, 2015.

"Peninsula Compost Company has placed an undue burden on the quality of life of residents in the city of

*(See Peninsula, page 8)*



## Using animal manure on your organic farm

By Lindsay Fernandez-Salvador

The use of manure in organic farming has been significant in the sustainable agriculture movement. Manure is a great source of many crop nutrients, including both micronutrients and macronutrients. Nitrogen is typically the nutrient with the most value, as well as the greatest potential for soil and water pollution. Quality and potential for contamination are both factors when selecting a manure source. Similarly, there are concerns with food safety when applying manure, and specific application guidelines have been designed to reduce the risk of pathogen contamination.

Nutrients are essential to proper growth of all plants, and farmers carefully plan to provide them, including finding the best source of manure for their nitrogen



Fernandez-Salvador

*(See Manure, page 12)*

## New climate protocol rewards ranchers for compost application

The American Carbon Registry (ACR) said it has approved standards that are designed to enlist ranchers in the fight against climate change. A new protocol, *Compost Additions to Grazed Grasslands*, provides a clear process for calculating the greenhouse gas reductions from applying compost to rangeland, ACR said. The organization said that by strategically applying compost to grasslands, ranchers have the opportunity to generate revenue from environmental stewardship through the sale of emission reductions

on voluntary carbon markets.

ACR is a nonprofit that oversees the creation of rigorous carbon offset protocols as well as the independent registration of carbon offset projects,

"This project rewards ranchers for stewardship activities that help store

*(See Ranchers, page 14)*

### Highlights

- n **Food waste bill introduced in New Jersey**
- n **National compost prices**

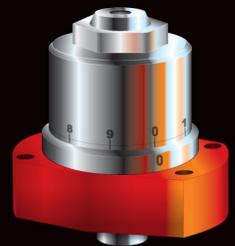
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**Food waste**

# Food waste bill introduced in New Jersey

By Ken McEntee

**A** New Jersey bill introduced this month would require composting or recycling of food waste by “large volume generators.” SB2494, introduced by Sen. Ray Lesniak, defines a large food waste

generator as any commercial food wholesaler, distributor, industrial food processor, supermarket, resort, conference center, banquet hall, restaurant, educational or religious institution, military installation, prison, hospital, medical facility or casino that produces at least 104 tons per year of food waste.

The bill would require large volume generators of food waste, by January 15, 2015, to send their waste for disposal to a composting facility or a food waste recycling facility, such as a facility that uses anaerobic digestion or an in-vessel food waste dehydrator.

The close deadline for the plan to go into effect - less than 90 days away - would seem to make the implementation of such a law unlikely. Lesniak did not return a phone call to discuss his intentions for the bill. The bill has been referred to Senate Environment and Energy Committee.

*(See New Jersey, page 14)*



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## Legislation/Regulation

### New Jersey

From page 3

During the first year of the program, the requirement would apply only if there is a composting facility or food waste recycling facility authorized or approved by the Department of Environmental Protection to accept food waste located within 25 miles of the large food waste generator. After one year, the requirement would apply to all large food waste generators.

## Biosolids

### Pennsylvania Supreme Court to review Synagro biosolids case

The Pennsylvania Supreme Court agreed to grant an appeal in a tort case involving the application of biosolids to farmland, the Washington D.C.-based Beveridge & Diamond law firm said. In the case, *Gilbert v. Synagro*, 34 plaintiffs allege that the land application of biosolids to farmland created a nuisance and caused health problems.

Beveridge & Diamond, representing Synagro in the case, said the court will rule on the question of whether a judge or jury should decide whether land application of biosolids is a “normal agricultural operation” that qualifies for protection from tort lawsuits under the Pennsylvania Right to Farm Act.

Land application of biosolids is a recycling practice used by thousands of towns and cities to manage the majority of the country’s sewage sludge. Beveridge & Diamond said the *Gilbert* case has attracted intense interest as eleven amici appeared in the Pennsylvania Superior Court to support the argument of Synagro and its farmer co-defendants that the application of the state’s Right to Farm

Act blocked this lawsuit and that a judge, not a jury, should interpret and apply the Act.

The plaintiffs sued Synagro and the farmers who used the biosolids in York County, Penn. in 2008, alleging that the biosolids constituted a nuisance and trespass. The trial court dismissed the case in 2012 because the plaintiffs did not file suit until more than a year after the biosolids were applied, entitling the defendants to the protection of the statute of repose for farm operations under the Right to Farm Act. A divided Superior Court reversed that ruling in April 2014, determining that a jury would have to decide whether using biosolids on a farm pursuant to a state permit was entitled to protection under the act.

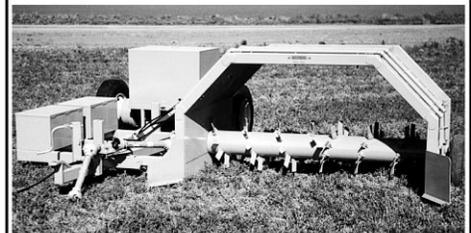
Specifically, Beveridge & Diamond said, the Right to Farm Act only protects farm activities that qualify as a “normal agricultural operation.” The defendants argued, and the trial court agreed, that the heavily regulated status of land application of biosolids and its use by a small but significant number of farmers qualified biosolids use for protection under the Right to Farm Act as a matter of law. The Superior Court’s 2-1 majority reversed the trial court, ruling that whether biosolids use was a normal agricultural operation was a question of fact for jury review. The Superior Court majority further ruled that the application of a statute of repose posed a jury question despite the purpose of a statute of repose to bar claims after a certain period of time.

The Right to Farm Act, and in particular the protections it provides from litigation for Pennsylvania farms through its statute of repose provisions, is important to Pennsylvania agriculture and to the Commonwealth’s cities and towns that depend on recycling their biosolids to farms as fertilizer, Beveridge & Diamond said. The eleven amici supporting the defendants in the Superior Court include the Pennsylvania Department of Environmental Protection, the state

Attorney General’s Office, the Pennsylvania Farm Bureau and the city of Philadelphia, who all filed briefs regarding the importance of biosolids recycling and the necessity of protecting it under the Right to Farm Act. The *Gilbert* case has been closely followed across the country because most states have similar right to farm laws and thousands of communities rely on applying their biosolids to farmland.

“We are pleased that the Supreme Court of Pennsylvania has decided to review this important issue regarding the protections of the Right to Farm Act,” said Lorrie Loder, a spokesperson for Synagro and president of the U.S. Composting Council. “We are hopeful that the court will agree with us and the many stakeholders around the commonwealth that the Right to Farm Act protects the valuable recycling practice of fertilizing farm fields with biosolids from communities around the state.”

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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

specialities 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	\$ 27.25	\$ 45.00	\$ 17.50
Chesapeake	\$ 24.15	\$ 30.00	\$ 17.00
SE	\$ 22.61	\$ 29.95	\$ 18.00
Florida	\$ 16.42	\$ 26.00	\$ 10.50
Cleveland	\$ 21.75	\$ 28.00	\$ 16.00
Iowa	\$ 22.81	\$ 53.00	\$ 7.50
Minneapolis	\$ 17.11	\$ 28.00	\$ 8.00
Texas	\$ 30.66	\$ 40.00	\$ 15.00
Denver	\$ 20.31	\$ 31.00	\$ 12.00
Northwest	\$ 23.98	\$ 55.00	\$ 10.00
SF-Bay	\$ 22.58	\$ 30.00	\$ 15.00
SoCal	\$ 15.05	\$ 24.00	\$ 8.00

Food waste compost	Average	High	Low
NE	\$ 38.77	\$ 60.00	\$ 17.50
Chesapeake	\$ 23.00	\$ 30.00	\$ 15.00
SE	\$ 28.55	\$ 35.00	\$ 24.00
Florida	\$ 17.50	\$ 22.00	\$ 13.00
Iowa	\$ 29.00	\$ 65.00	\$ 20.00
Texas	\$ 30.21	\$ 48.95	\$ 15.00
Denver	\$ 15.00	\$ 15.00	\$ 15.00
Northwest	\$ 22.48	\$ 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	\$ 27.50	\$ 35.00	\$ 20.00
Chesapeake	\$ 27.06	\$ 35.00	\$ 20.90
SE	\$ 11.50	\$ 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	\$ 21.60	\$ 30.00	\$ 10.00
Denver	\$ 9.00	\$ 10.00	\$ 7.00
Northwest	\$ 20.09	\$ 26.00	\$ 14.00
SoCal	\$ 12.25	\$ 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	\$ 51.00	\$ 75.00	\$ 27.00

Composted cow manure	Average	High	Low
NE	\$ 46.00	\$ 46.00	\$ 46.00
SE	\$ 30.60	\$ 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	\$ 22.22	\$ 33.75	\$ 17.45
SF-Bay	\$ 26.00	\$ 26.00	\$ 26.00
SoCal	\$ 19.00	\$ 24.00	\$ 15.00

Wood waste mulch	Average	High	Low
NE	\$ 22.17	\$ 35.00	\$ 12.50
Chesapeake	\$ 21.00	\$ 28.00	\$ 12.00
SE	\$ 19.09	\$ 34.95	\$ 12.00
Florida	\$ 17.50	\$ 18.00	\$ 17.00
Cleveland	\$ 25.56	\$ 36.25	\$ 14.00
Iowa	\$ 25.00	\$ 25.00	\$ 25.00
Minneapolis	\$ 27.50	\$ 35.00	\$ 20.00
Texas	\$ 17.00	\$ 27.00	\$ 9.00
Denver	\$ 18.74	\$ 25.00	\$ 12.48
Phoenix	\$ 17.61	\$ 22.95	\$ 10.00
Northwest	\$ 14.25	\$ 25.00	\$ 7.50
SF-Bay	\$ 17.83	\$ 30.00	\$ 8.00
SoCal	\$ 22.60	\$ 50.00	\$ 6.00

Colored wood mulch	Average	High	Low
NE	\$ 28.00	\$ 28.00	\$ 28.00
Chesapeake	\$ 26.50	\$ 28.00	\$ 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	\$ 34.75	\$ 49.00	\$ 30.00
Texas	\$ 27.13	\$ 32.50	\$ 22.00
Denver	\$ 33.28	\$ 33.28	\$ 33.28
SF-Bay	\$ 33.33	\$ 36.00	\$ 28.00
SoCal	\$ 35.00	\$ 35.00	\$ 35.00

## Bulk wholesale (yard)

Yard waste compost	Average	High	Low
NE	\$ 20.57	\$ 45.00	\$ 11.00
Chesapeake	\$ 12.79	\$ 15.00	\$ 8.00
SE	\$ 19.20	\$ 25.00	\$ 12.00
Florida	\$ 9.75	\$ 13.00	\$ 8.00
Cleveland	\$ 15.00	\$ 15.00	\$ 15.00
Iowa	\$ 19.00	\$ 19.00	\$ 19.00
Minneapolis	\$ 12.00	\$ 17.00	\$ 7.00
Texas	\$ 17.25	\$ 24.00	\$ 9.00
Denver	\$ 13.05	\$ 14.10	\$ 12.00
Northwest	\$ 12.39	\$ 19.00	\$ 7.50
SF-Bay	\$ 14.20	\$ 22.00	\$ 10.00
SoCal	\$ 6.00	\$ 6.00	\$ 6.00

Food waste compost	Average	High	Low
NE	\$ 25.75	\$ 45.00	\$ 11.00
Chesapeake	\$ 10.50	\$ 15.00	\$ 8.00
SE	\$ 21.28	\$ 30.00	\$ 15.00
Florida	\$ 10.50	\$ 13.00	\$ 8.00
Iowa	\$ 14.00	\$ 20.00	\$ 10.00
Texas	\$ 17.50	\$ 24.00	\$ 8.50
Denver	\$ 11.33	\$ 15.00	\$ 7.00
Northwest	\$ 18.00	\$ 20.00	\$ 15.00
SF-Bay	\$ 12.67	\$ 26.00	\$ 5.00

Composted biosolids	Average	High	Low
NE	\$ 15.00	\$ 20.00	\$ 10.00
Chesapeake	\$ 9.31	\$ 15.00	\$ 5.00

SE	\$ 11.33	\$ 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	\$ 5.50	\$ 8.00	\$ 3.00

Composted cow manure	Average	High	Low
SE	\$ 18.00	\$ 25.00	\$ 7.00
Iowa	\$ 35.00	\$ 35.00	\$ 35.00
Texas	\$ 25.00	\$ 25.00	\$ 25.00
Denver	\$ 12.05	\$ 14.10	\$ 10.00
SF-Bay	\$ 34.50	\$ 34.50	\$ 34.50

Wood waste mulch	Average	High	Low
NE	\$ 15.50	\$ 30.00	\$ 8.00
Chesapeake	\$ 16.50	\$ 17.00	\$ 16.00
SE	\$ 14.67	\$ 24.95	\$ 5.00
Florida	\$ 14.00	\$ 15.00	\$ 13.00
Iowa	\$ 20.00	\$ 20.00	\$ 20.00
Minneapolis	\$ 17.00	\$ 17.00	\$ 17.00
Texas	\$ 10.83	\$ 14.00	\$ 8.00
Denver	\$ 7.66	\$ 8.32	\$ 7.00
SF-Bay	\$ 11.50	\$ 14.00	\$ 9.00
SoCal	\$ 12.50	\$ 15.00	\$ 10.00

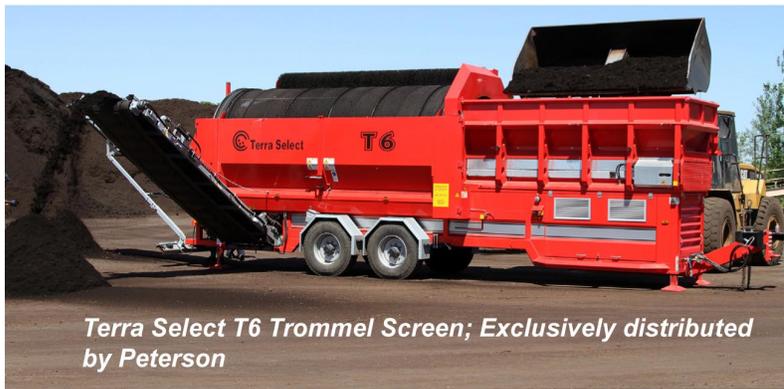
Colored wood mulch	Average	High	Low
NE	\$ 22.00	\$ 22.00	\$ 22.00
Chesapeake	\$ 22.00	\$ 22.00	\$ 22.00
SE	\$ 19.00	\$ 25.00	\$ 15.00
Florida	\$ 16.00	\$ 16.00	\$ 16.00
Iowa	\$ 25.00	\$ 25.00	\$ 25.00
Minneapolis	\$ 19.00	\$ 19.00	\$ 19.00
Texas	\$ 20.67	\$ 24.00	\$ 18.00
Denver	\$ 17.66	\$ 21.32	\$ 14.00
SF-Bay	\$ 20.50	\$ 22.00	\$ 19.00

## 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
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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## Facilities

### Peninsula

From page 1

Wilmington, parts of the city of New Castle and part of New Castle County – particularly those living in close proximity to the facility due to frequent uncontrolled odors,” Small said. “The company has been unable to maintain compliance with DNREC’s Beneficial Use Determination (BUD) permit.”

Peninsula began operating the Organic Recycling Center in December 2009 with approval from DNREC via a BUD permit. The BUD approved the company to accept and process hatchery waste, food waste, yard waste, wood waste and animal bedding in order to produce and market quality compost products at its facility. The company was processing about 115,000 tons of waste per year, DNREC said.

Since operations began at the facility, DNREC has coordinated with Peninsula Compost Company to improve operations and compliance. However, over time, the company has been unable to maintain compliance and minimize odors, the agency said. Some of the issues at the facility related to violations and odors include:

- Equipment has been non-operational, sometimes for extended periods of time.
- Time needed to produce finished compost takes longer than originally planned.
- Waste or finished compost have been stored onsite above approved quantities.
- Non-compostable residuals from the screening process and trash have been stored onsite above approved levels.
- Trench drains and wear of the paved composting pad have allowed for standing leachate onsite.
- Poor maintenance of stormwater

ponds and aeration systems.

- Gore Cover composting system has not been maintained appropriately.
- The mixture of food waste with yard waste/wood waste has been at a ratio that is too high.
- Feedstocks and composting windrows have been contaminated with non-compostable wastes.
- Occurrences of fires at the facility.
- Failure to develop markets to meet production demands.

“We remain committed to aggressively pursuing recycling opportunities to preserve our landfill capacity, create jobs and reduce our reliance on raw materials to manufacture products,” Small said. “Composting can be an effective process to recycle organics while minimizing impacts on the environment and the public.”

DNREC said quality compost is a valuable soil amendment that reduces

*(See Peninsula, page 12)*



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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)



### 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.



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Email: [cscoker@verizon.net](mailto:cscoker@verizon.net)  
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



### Gore Cover Systems North America W.L. Gore & Associates

105 Vieve's Way  
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Contact: Brian Fuchs

## Marketing/Public Relations

### The Write Company

9815 Hazelwood Avenue  
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Web: www.amerimulch.com



### 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



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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

# Product/Equipment and Services Guide

## Wear Parts



### Grinder Wear Parts & Apollo Equipment.net

2062 20th Avenue SE  
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#### Oregon Manufacturing

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Woodburn, OR 97071  
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Fax: 503.982.0881

Toll Free 800.827.0401

Web: [www.grinderwearparts.com](http://www.grinderwearparts.com)

E. [info@grinderwearparts.com](mailto:info@grinderwearparts.com)

Contact: Wayne Brown, VP

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Fax: 989.561.2273

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Web. [www.banditchippers.com](http://www.banditchippers.com)

Contact: Regional Sales Mgr.



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Phone: 208.585.2929

Fax: 208.585.2112

Contact: Pat Crawford

Email: [pat.crawford@rulesteel.com](mailto:pat.crawford@rulesteel.com)

Web: [www.diamondz.com](http://www.diamondz.com)



### DuraTech Industries

Box 1940

Jamestown, ND 58401

Phone: 701.252.4601

Fax: 701.252.0502

Email:

[ind.sales@duratechindustries.net](mailto:ind.sales@duratechindustries.net)

Web: [www.duratechindustries.net](http://www.duratechindustries.net)

Contact: Bob Strahm



### Hogzilla Grinders CW Mill Equipment -

14 Commerce Drive

Sabetha, KS 66534

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Fax: 785-284-3601

Email: [hogzilla@cwmill.com](mailto:hogzilla@cwmill.com)

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Contact: Tim Wenger, President,  
Sales Mgr.



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Contact: Michael Spreadbury



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Web: [www.rotochopper.com](http://www.rotochopper.com)



### Grinder Wear Parts & Apollo Equipment.net

2062 20th Avenue SE

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2785 N. Front Street

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Phone: 503.982-0880

Fax: 503.982.0881

Toll Free 800.827.0401

Web: [www.grinderwearparts.com](http://www.grinderwearparts.com)

E. [info@grinderwearparts.com](mailto:info@grinderwearparts.com)

Contact: Wayne Brown, VP



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Fax: 503-364-1398

Web: [www.westsalem.com](http://www.westsalem.com)

Email: [info@westsalem.com](mailto:info@westsalem.com)

Contact: John Snodgrass

## Facilities

### Peninsula

From page 8

the need for fertilizers and pesticides while improving moisture retention and restoring organic matter to soil. Quality compost is prized in home gardens, on lawns and turf, and in commercial agriculture. It is inexpensive compared to synthetic fertilizers.

## Organic gardening

### Manure

From page 1

needs. Different animals produce manure with variable nutrient content, and some manure sources are more readily available and cost effective than others. Manure from layer poultry, for example, provides nearly four times the nitrogen per ton as that from lactating cows. It also contains upwards of 12 times the potassium and phosphorous content of dairy manure. However, poultry manure is more costly than dairy manure, sometimes running twice the price. Poultry manure can also burn plants, due to the large quantity of nitrogen it contains, so it is generally composted or aged before being applied to a garden. Another option is to apply it to a fallow field months before planting, so the soil microorganisms can break down the nutrients and make them more available to the plant. Whatever method is used, it's important to note that under the best conditions only about 1/2 to 3/4 of the nitrogen in the manure is available to the crop in the year it is applied. The remaining nitrogen will become available over a period of years. That's why it's important to regularly sample the soil to determine nutrient needs for the year. It's also important to monitor crop nitrogen needs so that manure isn't over-applied, contributing to contamination of water by ammonia, organic matter, nutrients, and bacteria.

## Compost is good for gardens

By Fern Richardson  
Kellogg Garden Products, Ontario, Calif.  
[www.kelloggarden.com](http://www.kelloggarden.com)



**W**hy use compost in your garden? As Claire Splan, author of California Fruit & Vegetable Gardening puts it, "There's something so non-threatening about compost that even newbie gardeners can feel comfortable using it. You don't have to decode any NPK numbers or worry about spreading too much of it about and burning plants. It's pretty much a no-fail amendment."

We at Kellogg Garden Products agree wholeheartedly with Claire.

Compost is decayed organic material, usually made from leaves, small bits of food and animal droppings. In nature, all of these things collect on the top layer of soil and break down over time, naturally replenishing nutrients and improving soil texture. Gardeners can get the same benefits by making their own compost or using a store bought compost, such as Kellogg's N'Rich or Gardner & Bloome Soil Building Compost.

Adding compost to your garden is so easy!

If you are preparing a new garden bed, simply spread a 2-3 inch layer of compost over the entire bed and then use a spade or hoe to mix the compost thoroughly through the top 6 inches of soil. If you want to compost around existing plants, spread 1-3 inches of compost on the top of the soil. Don't till it in this time, as that might damage delicate plant roots.

So, how much compost do you need? Both N'Rich and Soil Building Compost come in 3 cubic foot bales that make them easy to bring home and provide good bang for your buck. A 3 cubic foot bale will cover 36 square feet with 1 inch of compost, or 18 square feet with 2 inches, or 9 square feet with 3 inches of compost.

Happy composting. Your plants will thank you.

*This article is reprinted from Compost: Way 2 Grow, at [www.way-2-grow.com](http://www.way-2-grow.com). The website discusses benefits of compost and helps consumers to buy high quality products made by professional compost and mulch producers. Compost producers and users may submit articles that demonstrate the value of compost to [ken@recycle.cc](mailto:ken@recycle.cc).*

Another factor to consider when selecting a manure source is potential contaminants. Some contaminants, such as heavy metals, can be avoided by requesting a laboratory analysis of the soil. Heavy metals are a concern in manure, since there can be high potential content and farmers may also use high application rates. Heavy metals present in manure may include cadmium, lead, zinc, and arsenic. Poultry manure is particularly at high risk for arsenic contamination, because nonorganic chickens are often fed arsenic to promote growth and weight gain. For this reason, poultry manure

from organic sources is popular.

Another way to avoid heavy metals in manure is to select an OMRI Listed manure product. OMRI requires heavy metals to be below a certain threshold before listing the product for use in organic production. Although other contaminants are present in manure, heavy metals are the easiest to avoid. Contaminants such as hormones and antimicrobials are difficult to even identify because they are so pervasive in the conventional manure supply, and there are no guidelines in place to control this contamination. Finding an organic source of manure is therefore

the best way to avoid many potential hazards.

The application of manure also has implications for food safety. Pathogens such as *Salmonella* and fecal coliform are the main concerns when applying manure to edible crops. The USDA organic regulations require that a harvest interval be followed after applying manure, where crops in contact with soil (carrots, potatoes, lettuce) may be harvested only after 120 days, and crops not in contact with soil (blueberries, apples, peppers) may be harvested after 90 days. The logic behind this harvest interval is that pathogens will likely be rendered unviable by soil microorganisms, and will no longer pose a threat to food safety.

Another way to avoid pathogens from manure is to compost it first. One can purchase raw manure and compost it, or it can be purchased already composted. Both methods are effective at reducing the risk of



pathogen contamination when applying these materials to an organic farm. However, it is sometimes difficult to determine whether a purchased compost product may pose a contamination hazard. The organic standards require a specific time period and temperature for composting, in order to ensure that any pathogens are in fact eliminated. Compost that does not meet these requirements is considered to be the same as raw manure, which means that application rates must meet the 90/120-day harvest interval requirements listed above. OMRI Listed products may fall into either category, so it can be helpful to research compost products on the *OMRI Products List*.

OMRI's restriction text will indicate whether the harvest interval periods must be observed.

Anaerobic digestion is a new technology that has been used to process manure into a composted product. The use of anaerobic digestion is especially growing on conventional livestock farms, where large amounts of manure are produced and increasing regulations require proper disposal. Typically, manure is gathered in a lagoon or tank, where microbes break it down in an oxygen-free environment. Some anaerobic digesters have external heating systems to achieve pathogen reduction, similar to traditional composts. Although anaerobic digestion is similar to composting, it must achieve the same time and temperature requirements in order to be used without a harvest interval. Before using an anaerobic digestion

(See *Manure*, page 14)

## Where educating your market COSTS YOU NOTHING

Why should I use compost on my garden?

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## Organic Farming

### Manure

From page 13

product, one should verify whether it was heated to at least 131°F for three or more days. If not, the harvest interval must be observed. The resulting components of the digestion process include a liquid effluent rich in nutrients, and dry matter that is great as a soil amendment or even as biodegradable planting pots. Methane is captured as a by-product and used as a renewable energy source, instead of being emitted into the environment as a greenhouse gas.

There's no doubt that manure is one of the best ways to provide nutrients in a well-managed organic farm or garden. It has many positives that make it worth the trouble of seeking out the best source and applying it with care. Manure use also contributes to the recycling of resources, which further reduces the environmental impact of livestock production in general. So the next time you bite into an organic pepper, be sure to thank the animals that provided the nutrients for your delicious snack.

*The author, Lindsay Fernandez-Salvador, is technical director of the Organic Materials Review Institute (OMRI). Founded in 1997, OMRI provides organic certifiers, growers, manufacturers, and suppliers an independent review of products intended for use in certified organic production, handling, and processing. OMRI is a 501(c)(3) nonprofit organization. When companies apply, OMRI reviews their products against the organic standards. Acceptable products are OMRI Listed and appear on the OMRI Products List or OMRI Canada Products List. OMRI also provides subscribers and certifiers guidance on the acceptability of various material inputs in general.*

*For more information, visit [www.omri.org](http://www.omri.org).*

## Climate

### Ranchers

From page 1

carbon in their soils, while improving soil health and the productivity of their land," said Robert Bonnie, USDA under secretary for natural resources and

the environment. "The American Carbon Registry's approval of this protocol supports the ability of innovative efforts like the Marin Carbon Project to identify conservation practices that increase productivity and create new sources of revenue for ranchers."

The new offset protocol is supported

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by research conducted over the past seven years by the Marin Carbon Project and the University of California, Berkeley on two locations in California. The research has demonstrated that a one-time application of compost can sequester almost 1,000 pounds of carbon per acre per year.

“The adoption of this protocol takes the research conducted in Marin and provides an incentive for others to model and implement it on lands throughout California and the western United States,” said John Wick, co-founder of the Marin Carbon Project.

The Marin Carbon Project, based in Marin County, Calif., seeks to enhance carbon sequestration in rangeland, agricultural, and forest soils through applied research, demonstration and implementation.

“Our vision is for landowners and land managers of agricultural ecosystems to serve as stewards of soil health and to undertake carbon farming



in a manner that can improve on-farm productivity and viability, enhance ecosystem functions, and stop and reverse climate change,” according to the project’s website.

ACR said that in addition to providing a sink for carbon, rangelands provide a wide variety of other natural benefits to society, including food, fiber, habitat, watershed health, open space and cultural value. Rangelands in the West are currently under pressure of conversion to other land uses, like urban development and croplands. Therefore, finding new revenue streams for ranchers helps

keep them on the ranch and enhances these valuable natural areas.

“This offset protocol is a new tool farmers and ranchers can use to mitigate and adapt to climate change and in a way that benefits their bottom line” said Robert Parkhurst, agriculture greenhouse gas markets director for the Environmental Defense Fund (EDF). “It also demonstrates the essential role working lands play in the fight against climate change.”

The protocol was developed by Terra Global Capital under a Conservation Innovation Grant to EDF from USDA’s Natural Resources Conservation Service. It has the potential to reduce emissions of carbon dioxide by 28 million metric tons per year if compost can be applied to just 5 percent of California’s rangelands, according to EDF.

“The approval of this protocol by ACR is the first step in providing

*(See Ranchers, page 16)*

Climate

Ranchers

From page 15

ranchers the opportunity to generate incremental income for the environmental assets they create through sustainable land-use management,” said Leslie Durschinger, founder and managing director of Terra Global.

The protocol allows ranchers to model the increase in carbon sequestration on their land, have it independently verified, and generate tradable offset credits.

“American Carbon Registry is pleased to add this protocol to our growing list of agriculture, forest, and land use protocols available to U.S. farmers and ranchers,” said John Kadyszewski, director of ACR. “Our approval of this protocol allows these working landowners to be paid for delivering environmental benefits from actions on their land.”



Compost Digest

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



• **Cincinnati** City Council this month authorized the cleanup of a Winton Hills compost site that was left to rot by its owners after the business collapsed. The total cost was \$300,000.

In August 2012 the city leased a portion of a former landfill to Compost Cincy, which promised to run a badly needed commercial food waste composting facility. It quickly became a nuisance, prompting the city to retake the land and shut the business down.

About 40,000 cubic yards of unfinished compost material and other waste remain at the site.

The city's Office of Environmental Services will finish the compost process. It plans to use the composted material to re-vegetate parts of the landfill and other city-owned

# Composting foundation launches appeal for funding

A third of the research and education budget for the foundation that leads U.S. composting research comes from putting your money where your compost is, the Composting Council Research and Education Foundation (CCREF) said. CCREF, which has headed groundbreaking projects such as the Composting Plastics Toolkit, the Soil and Water Connection and the Curb to Compost Toolkit, is recruiting donors to move forward future projects.

CCREF's *Two Cents for Compost* is a program that secures three-year commitments from boosters of compost research, who pledge two cents for every cubic yard of compost produced - either by composters themselves or by supporters who make a flat dollar pledge.

The contributions provide a sustaining budget that allows CCREF to facilitate research in key areas for the expansion of composting and compost markets; to conduct public education in significant compost issues such as compostable plastics purchasing; and to provide best practices guidance for compost initiatives such as food scrap diversion and collection.

“Without the Two-Cents program, CCREF staff could not be the engine to move forward the grants and programs that the composting community needs to expand,” said Ginny Black, chairwoman of the foundation. “The support of our community is vital to these projects moving forward.”

To make a donation or pledge, visit [www.compostingcouncil.org/ccref\\_donations](http://www.compostingcouncil.org/ccref_donations) or contact Leanne Spaulding, development officer, at 301-897-2715 for more information.



properties. - *Cincinnati Enquirer*, [www.cincinnati.com](http://www.cincinnati.com).

• Organic farmers in **California** are objecting to a state plan that would compel them to spray pesticides on their crops. The California Department of Food and Agriculture's said compulsory state pesticide spraying of organic crops would do no economic harm to organic producers, on the grounds that the growers could sell sprayed crops as non-organic instead.

“I would rather stop farming than have to be a conventional farmer. I think I am not alone in that,” said one organic farmer.

California Certified Organic Farmers is one of more than 30 agriculture groups, environmental organizations

and regional water agencies to file concerns about the agriculture department's pesticide provisions.

At issue is a California organic agriculture industry that grew by 54 percent between 2009 and 2012. California leads the nation in organic sales, according to statistics tracked by University of California-Davis agriculture economist Karen Klonsky, who says the state is responsible for roughly one-third of a national organic industry. The U.S. Department of Agriculture puts the overall value of the U.S. organic sector at \$35 billion.

Organic farmers are asking the state to give more consideration to non-toxic controls, including long-term methods to strengthen crops and habitats in advance against marauding

tropical species. - *KCBS, www.sanfrancisco.cbslocal.com.*

• **Douglas County, Neb.** and local groups want to build a compost site on the county's closed former landfill as a pilot project for turning local food waste into compost for organic farms.

The county would work with the non-profit organization No More Empty Pots, which promotes local, sustainable businesses that improve self-sufficiency and regional food security, and with Massena Farms, an organic farm outside Bennington.

They would use about two acres in the southeast portion of the old landfill site, which closed more than 20 years ago. The operation would be screened by berms and trees. There likely would be one truck delivery of food waste per day, the permit application says.

The pilot project would run roughly from June 2015 to July 2016. Food waste would be delivered to the site for several months, mixed in and then allowed to compost for several more months.

The county is seeking a grant from the Nebraska Environmental Trust to pay costs of collecting and hauling the food waste, and tending the pile.

The initial batches of compost probably would be given away, but compost from future operations may be sold. - *Omaha World-Herald, www.omaha.com.*

• The **Indiana** state chemist's office has been busy investigating complaints about piles of chicken and turkey manure since the adoption of a new manure-staging rule took full effect in 2013. The office has responded to at least 15 complaints in the past year, some of which resulted in fines or warnings in the case of first offenders.

Indiana CAFO Watch said the piles of manure, which are spread on farm fields as fertilizer, are no laughing matter. Any time there is not a berm of dirt around the manure or the pile is not covered, there is the potential for runoff to our streams and rivers, the group said.

Air pollution is another concern to neighbors. Indiana CAFO said the dust that blows off the piles has many pathogens and the smell is awful.

Farming, they said, should not have elevated rights over the health, well-being and quality of life of people who have lived in the area for years.

Indiana farmers have been warned or fined for piling turkey manure too

close to a public road; too close to a house; failing to apply two manure piles to fields within 90 days; failing to install a tarp or barrier around piles; transporting chicken manure without a license; and piling manure too close to two houses. Other complaints said the manure is the source of beetle infestation. - *Muncie Star Press, www.thestarpress.com.*



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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.



### Patz introduces new 1000 Series vertical mixer

Patz Corporation said it has added the 1000 Series Single Screw Vertical Mixer to its existing line of Proven Performers. Available as a pull-behind trailer, the 420 cubic-foot-capacity vertical feed/compost mixer can handle a wide variety of ingredients, including round or square bales, Patz said.

Equipped with the patent pending Vortex Screw, the 1000 Series mixes ingredients quickly without compromising quality-producing a consistent TMR/recipe regardless of batch size. The 1000 Series is built with a unibody mixer and trailer design for long life, low maintenance and trouble-free operation. The low height mixer is 97 inches high for loading with a skid-steer.

A wide variety of options allows multiple opportunities for customization. Customers will be able to choose a mixer screw design and discharge door locations that best fits the needs of their operation. An optional side extension is available to increase mixing capacity to 490 cubic feet and a patent pending Tub Mounted Magnet is offered to remove tramp metal from the ration. Additional options include the patented Raptor knives, hay retainer kits, front viewing platform, camera package and scale packages.

Established in 1948, Patz Corp. continues to manufacture and market material handling equipment for a variety of agricultural, industrial and commercial markets. Additional products include belt conveyors/feeders, silo unloaders, chain and flite conveyors, wastewater and manure pumps, agitators, SmartClean scraper systems, gutter cleaners and material choppers.

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

### Morbark celebrates National Manufacturing Day with Demo Days

More than 300 guests attended Morbark's Demo Days event, which was held in conjunction with National Manufacturing Day, on October 3. Morbark's Demo Days was the final stop of the Association of Equipment Manufacturers' (AEM) *I Make America* Harley Tour.

Morbark's Demo Days give the company's dealers, customers and guests the opportunity to not only watch the equipment in action, but also meet the people who build and support the equipment as they see firsthand the manufacturing processes utilized. Because this year's event coincides with National Manufacturing Day, guests included numerous state and local elected officials and



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Morbark 30/36 Whole Tree Drum Chipper

representatives from area schools, colleges and universities.

"Having this event on National Manufacturing Day allows us to showcase our manufacturing technology and the careers available at Morbark and throughout the country," said Morbark President Jim Shoemaker Jr. "Our Demo Days gives our guests a chance to see behind-the-scenes how Morbark builds our equipment, so having the event on National Manufacturing Day is a perfect fit."

The *I Make America* Harley Tour is part of the *I Make America* campaign, which advocates for public policies that advance the interests of employees, communities and companies of the equipment manufacturing industry.

Morbark's equipment demonstrations included the new Barracuda Slow-Speed Shredder, which made its debut in March at the CONEXPO trade show. Other equipment demonstrated included a redesigned 30/36 Whole Tree Drum Chipper and Morbark's new Portable Flat Deck Shaker Screen, which has just come off the company's research and development line.

Completing the demonstration lineup were the Beaver M20R Forestry chipper; the 40/36 Whole Tree MicroChipper, which debuted last year; the 3200 Wood Hog horizontal grinder; the 1300B Tub Grinder; and the 6600 Track Wood Hog horizontal grinder.

Morbark Inc., based in Winn, Mich., builds equipment that creates opportunities in the forestry, recycling, sawmill, bio-energy and tree care markets. For more information, visit [www.morbark.com](http://www.morbark.com).

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# COMPOST 2015

# ORGANICS ON THE RISE

US Composting Council Conference & Tradeshow  
Jan. 20-23, 2015 | Austin, TX

**WHAT:** Annual Conference & Tradeshow Event of the Organics Industry!

**WHERE:** Renaissance Hotel, Austin TX

**WHEN:** January 20-23, 2015 (3 days of tradeshow & sessions plus a day of field equipment demonstration)

### Keynote Speakers Include:



**Pashon Murray**  
Owner,  
Detroit Dirt



**John Wick**  
Co-founder,  
Marin Carbon Project

**TO REGISTER:** [www.compostingcouncil.org/register2015](http://www.compostingcouncil.org/register2015)



Independent coverage of composting, wood recycling and organics management

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