



Independent coverage of composting, wood recycling and organics management

Composting News

January 2021

McEntee Media
Market Intelligence

Volume 29 Number 11

Herbicide contamination can tarnish a reputation

By Ken McEntee

In 2020, at least a few incidents of “killer compost,” or compost tainted with persistent herbicides, made the mainstream news. Incidents of garden plants being killed by contaminated compost has been one of the largest threats to the compost business during the past 10 to 15 years.

Last year, notable reports of persistent herbicide contamination damage involved McGill Compost, which supplies garden centers in the North Carolina area, Dean Innovations, which operates in Oregon, and the Rapid City, S.D. Solid Waste District.

Recently, McGill sponsored a U.S. Composting Council (USCC) webinar that dealt with the topic of persistent herbicide contamination.

(See *Herbicide*, page 14)



Kraft testing compostable Mac & Cheese cup

By Ken McEncheese

Kraft said it is developing and testing the first-ever recyclable fiber-based microwavable cup for its famous Mac & Cheese. Upon completion of its testings, the company said it will launch a new Kraft Mac & Cheese Shapes variety later this year using the new cup and design.

The fiber-based microwavable cup currently being trialed is microwave safe and will eliminate the plastic label through new direct print technology. The intent of the design change from plastic to fiber is to reduce plastic use and to be both recyclable and compostable in industrial composting facilities, Kraft said.

Kraft said it is working with outside partners to certify and incorporate the appropriate recycling labeling to help consumers know exactly what to do with the packaging after they have enjoyed their meal.

“Consumers are at the heart of everything we do and we know they’re looking for more sustainable packaging options without sacrificing the convenience or taste they love from Kraft Mac & Cheese,” said Matt Carpenter, marketing director at the Kraft



(See *Mac & Cheese*, page 14)

Biodegradable packaging poised for growth in 2021

Biodegradable packaging is among the largest growth sectors in North American manufacturing during the upcoming year, according to a new report from Thomas, a provider of product sourcing and supplier selection.

Thomas' new report, *2020 Q4 Top Manufacturing Trends*, projects that printing services, Covid related supplies and equipment, surveillance equipment and cold chain services will round out the year's top products sources by North American businesses.

Biodegradable packaging and

biodegradable bags are expected to grow by 7 to 10 percent. Thomasnet.com data shows that sourcing activity in 2019 and 2020 reflected substantially increased interest in sustainability. Thomas anticipates that this trend will continue

(See *Packaging*, page 14)

Highlights

- n **Treated wood waste now hazardous in California**
- n **National compost prices**

Visit Composting News online at www.compostingnews.com



Transactions

WeCare acquires Madden Bros.

Denali Water Solutions LLC, through its wholly-owned subsidiary, WeCare Denali, has acquired Madden Brothers Inc. compost, mulch and soil operations in Brunswick, Ohio, south of Cleveland.

WeCare Denali produces high-end compost, mulch and soil products that are marketed to the landscaping, construction and agricultural industries.

“Our purpose is to make the world a better place by handling waste responsibly,” said Jeffrey J. LeBlanc, president of Denali Water Solutions. “Joining forces with a team as respected as Madden Brothers aligns with our values and goals to expand our high-

quality products and service offerings to our valued customers across the United States. We are excited to have Brian Madden and the entire Madden Brothers team join WeCare Denali as we continue our growth strategy throughout North America.”

The Madden Brothers facilities produce high-quality landscaping products - compost, mulch, topsoil and custom blends - from recycled organic materials including leaves, wood, brush and food waste.

“As WeCare Denali leads the movement in developing and delivering next-generation environmentally conscious waste management solutions, we couldn’t be more excited,” Madden said. “We welcome the opportunity to help support the company’s growing ecosystem of resource sustainability across the nation.”

Wood processing

Treated wood waste now hazardous in California

California’s Alternative Management Standard (AMS), which allows waste haulers to accept treated wood waste (TWW) from residential and commercial customers, expired on December 31, 2020 when Gov. Gavin Newsome vetoed a bill to extend the statute (HSC 25150.7) and regulations (22 CCR 67386.1 et seq.).

That means TWW must now be treated as hazardous waste, Marin County said.

“Haulers in the county of Marin cannot accept TWW at their facilities, in their debris boxes and in the garbage, recycling



Bulk Mulch / Compost Loading System

For Customer Self-Loading of:

Compost • Mulch • Soil Products

Additional Equipment & Systems Customized to Your Specifications:

Bagging, Palletizing & Soil Blending Systems
Flow Feeders, Hammermills, Disc Separators & Conveyors

For more information, visit www.amadas.com or call 757-539-0231

or composting bins as treated wood is now considered hazardous waste,” the county announced.

Treated wood is wood typically used for foundation or landscape work and is treated with a chemical to resist insect attack and fungal decay. Treated wood does not include painted or stained wood.

Treated wood is readily available for purchasing at local lumber and home improvement stores.

“Marin Sanitary and Marin Resource Recovery are not able to take treated wood waste in any collection vehicles,” the county said. “This includes in Marin County residents’ garbage, recyclables or green organics carts and debris dumpsters ordered by homeowners or contractors.”

Currently, the Marin Household hazardous waste facility cannot accept TWW from residential or commercial generators.

“Unfortunately, due to space, training and budget constraints our facility is not able to take this material at this time,”

said Kathy Wall, program manager at the hazardous waste facility. “We are working with our partners, the county and San Rafael Fire Department, seeking further guidance from the state and will update our customers when we have more information. For the time being we encourage people to hold on to their treated wood scraps until the state identifies a local solution.”

Yard waste

Virginia county starts mandatory yard waste separation

Prince William County, Va. this year will begin mandatory separation and curbside collection of yard

(See Virginia, page 4)



9815 Hazelwood Avenue
Cleveland, OH 44149-2305
Phone: 440.238.6603
Fax: 440.238.6712
www.compostingnews.com
Facebook: CompostingNews
Twitter: CompostingNews

Publisher/Editor:
Ken McEntee
ken@compostingnews.com
Office Manager:
Amy McEntee

Copyright 2021 McEntee Media Corp. All rights reserved. Reproduction or transmission of Composting News, in whole or in part, without written permission of publisher, is prohibited. Composting News (ISSN 1064-1440) is published 12 times a year. Subscription price is \$83 per year; \$90 (U.S. funds) in Canada and Mexico; \$105 (U.S. funds) Overseas airmail. Single-issue: \$12.



McEntee Media Corporation

Composting News
The Paper Stock Report
Recycled Paper News
Paper Recycling Online
The Write Company PR & Marketing





COMPETITION

WHERE'S THE CARBIDE?

- DEEP BOLT HOLES
- BUILT-UP CORNERS
- 2X THE LIFE & 2X THE CARBIDE COMPARED TO THE COMPETITION



HAMMERHEAD™

WE GOT YOUR CARBIDE!



GRINDER
CRUSHER
SCREEN

LIST YOUR
EQUIPMENT
FOR FREE!

GRINDERCRUSHERSCREEN.COM

770-433-2670 EAST
971-344-0001 WEST



NEW EQUIPMENT



USED EQUIPMENT

Yard waste

Virginia

From page 3

waste. The yard waste program is seasonal, running from March through December, but will not take effect until October 2021 to allow waste haulers time to equip and staff appropriately, the county board of supervisors said.

Residents, businesses, apartments, landscapers and others will be required to arrange for a separate collection of yard waste, leaves and brush.

Once the program starts, residents may place yard waste in biodegradable paper yard waste bags or a personal container labeled for yard waste. The collected yard waste will be converted into a soil amendment product at the recently expanded Balls Ford Road Compost Facility.

In addition to yard waste collection, residents also will have access to Christmas tree recycling during the first

two weeks of January each year.

The board of supervisors said some of the benefits of a separate yard waste collection are:

- Diverts yard waste from the county landfill, which expands the landfill life by 10 to 15 years;
- Increases the county's recycling rate;
- Improves the quality of the compost product;
- Provides more dependable collection of yard waste material.

Food waste

Depackaging plant recognized for design

The Muscatine, Iowa Organic Recycling Center (MORC) this month received a pair of awards from the American Council of Engineering Companies (ACEC) of Iowa.

MORC, which opened in May 2020, received the grand prize in the water and wastewater category and the overall 2020 competition's Grand Conceptor award for the design by Stanley Consultants, a global provider of engineering, environmental and construction services.

The facility operates a depackaging machine that separates food waste from packaging.

Jon Koch, director of Muscatine's Water and Resource Recovery Facility, said businesses up to 200 miles away have expressed interest in hauling organic waste to Muscatine for recycling and noted that MORC is one of just three municipally owned facilities of its kind in the U.S. and the only one in the Midwest.

The ACEC competition is based on such elements as innovation, new applications of technology, enhanced public awareness and future value to the engineering profession.

The facility enables cost effective



MODEL 2460XP
24" Capacity Horizontal Grinder



Since 1983, Bandit has been providing equipment for a multitude of wood waste processing markets. Our vision since the beginning is to manufacture quality, highly productive, easy to maintain equipment providing years of dependable service. The commitment for quality, innovation and dedication is instilled in every Bandit employee and is one of the main reasons why Bandit became an Employee-Owned Company (ESOP) in 2018. These core values ensure each Bandit machine will leave the factory ready to exceed your expectations.

With the most diverse product line in the industry backed by our extensive parts, sales and service team supporting our highly trained global dealer network consisting of over 235 locations, we are a force to be reckoned with! For those who have joined, we thank you. If you are wondering what this could mean for your business we have one question:

Are you ready to join forces?



To locate an authorized Bandit Dealer in your area please visit www.banditchippers.com or call Bandit at 800-952-0178.

processing of packaged foods previously sent to the landfill due to prohibitively high labor costs to depackage the food. A depackaging machine uses spinning paddles to break open the packages and separate the packaging from the organic waste. The packaging is then either recycled or disposed of and the organic waste is pumped into a large treatment tank where it is blended and fed into the same anaerobic digesters that operate to clean the city's municipal wastewater.

Bacteria in the digesters break down the organic matter and generate biogas that is mostly methane, the primary component of natural gas. The process also produces biosolids, a nutrient rich fertilizer that is applied to farm ground to naturally replenish nitrogen and phosphorus to the soil.

According to Koch, based on projected revenue from tipping fees, the \$3 million project will pay for itself in four to six years. Stanley Consultants has been the prime consultant and engineer for the project for over six years.

Austin begins full city organics pickup

Austin Resource Recovery (ARR), a department of the city of Austin, said its fourth and final expansion of its curbside composting collection program to about 55,000 additional Austin households to begin in February. Currently, about 152,000 homes receive the curbside composting collection service.

The final expansion will provide the service to all remaining ARR customers after a four-year phased-in approach that began in 2017.

In previous years, ARR offered in-person open house events giving new curbside composting customers the opportunity to learn about the program, learn how to use the service and receive free resources to start composting.

"We are very excited to complete the

expansion of our curbside composting program," said Ken Snipes, Austin Resource Recovery director. "Keeping compostable items out of area landfills will extend the life of the landfills, improve Austin's air quality and reduce harmful greenhouse gases."

The city said a recent study showed that nearly half of material residential customers send to the landfill is compostable. The curbside composting program collects food scraps, yard trimmings and food-soiled paper and converts them into nutrient-rich compost. This program is part of Austin's zero waste goal to divert 90 percent of materials from landfills by 2040.

Customers included in this year's curbside composting expansion were mailed a notification postcard in early-January informing them of their new service and inviting them to participate in a virtual town hall meeting in late January. Curbside composting may help

(See Austin, page 8)

Designed for Composting Performance



Patented Staggered Rotor

Staggered Rotor Industrial Series Mixers feature superior blend with reduced maintenance and operating cost.

Available in Truck, Trailer or Stationary



www.rotomix.com
620.225.1142 620.338.0090 Cell



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

ALWAYS INNOVATING



Peterson
an Astec Industries Co.



AT PETERSON WE NEVER STOP DEVELOPING THE ULTIMATE INDUSTRY LEADING EQUIPMENT.

For over 35 years, we've built our business around building the most productive mobile chipping and grinding machines in the industry. Day after day, we partner with our customers by giving them the best tools for the job and exceptional support when they need us.

Visit us at www.petersoncorp.com today and see why Peterson is the industry leader for disc and drum chippers, horizontal grinders, blower trucks, screens and stacking conveyors.

Get the right sized product, sort it out, and stack it higher with Peterson!

Let us know how we can help grow your business!

4710D
Horizontal Grinder



3310
Drum Chipper



TS4280
Stacking Conveyor



PETERSON an Astec Industries Company

PO Box 40490 • Eugene, OR 97404 • Tel 800.269.6520 Fax 541.689.0804 • www.petersoncorp.com



Food waste

Austin

From page 5

Austinites save money on their utility bill. After putting food scraps and food-soiled paper in their green carts, customers will likely have less trash each week. This may allow them to downsize to a smaller, less expensive trash cart, the city said.

South Carolina schools get food waste grant

Students in a South Carolina school district are learning early about composting food scraps thanks to a grant from Dominion Energy. Lexington-Richland School District Five's Student Nutrition Department has received a \$5,000 grant to help fund the

district's comprehensive farm to school practices by introducing food waste recycling into the school lunch program.

The Dominion Energy Environmental Stewardship grant will be used towards the Farm to Five: Food Waste Challenge Project. The money will be used to purchase containers for food waste collection at the district's five pilot schools.

The project will implement pre and post-consumer food waste recycling at five schools for conversion into compost. The compost will be used in school gardens and farms, including the district's agricultural and biosystems sciences program, boosting the production of broccoli currently served in the district's school lunch program. Surplus compost will be sold with proceeds used to sustain farm to school efforts.

"Dominion Energy is committed to helping schools teach the importance of environmental stewardship and sustainability," said Stephanie Jones, of

Dominion Energy South Carolina's philanthropy team.

Farm to School Grants support a wide range of activities that increase the amount of local foods served in child nutrition programs and teach children about food and agriculture. School District Five is the only school district in the country to receive the Farm to School Grant on three separate occasions.

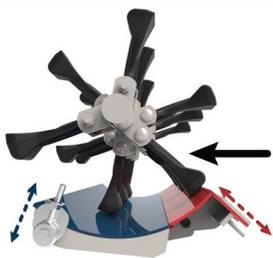
Marshall University to open composter

Marshall University, of Huntington, W. Va., will soon open the first commercial composting facility in the state of West Virginia.

The final piece of equipment, which is a large commercial digester, was

(See Marshall, page 13)

WIDE DISCHARGE, IMPROVED MATERIAL BREAKUP



Adjustable Hammer Shroud

SLC 100 SERIES PROTWIN® SLINGER®

- Wide discharge provides faster unloading, more consistent spreading
- Twin-auger design eliminates material bridging
- Fully enclosed oil bath for low maintenance and long life
- Optional scales for precise monitoring and nutrient tracking

3200, 4100 and 5000 gallon capacities • truck & trailer models



Contact your local KUHN Knight Dealer today for more information!

INVEST IN QUALITY®
www.kuhn.com    

Product/Equipment and Services Guide



Featuring the industry's leading vendors. This listing of the industry's leading vendors of products, equipment and services essential to the compost manufacturing, wood recycling and organics management business also is available online at compostingnews.com. Scan the QR code with your mobile device to go there. If your business is not listed, please contact ken@compostingnews.com.

Analytical Laboratory



Control Laboratories

www.controllabs.com
42 Hangar Way
Watsonville, CA 95076
Phone: 831.724.5422
Twitter: Controllabs
Contact: Assaf Sadeh
asadeh@controllabs.com

Anaerobic digestion



Control Laboratories

www.controllabs.com
42 Hangar Way
Watsonville, CA 95076
Phone: 831.724.5422
Twitter: Controllabs
Contact: Assaf Sadeh
asadeh@controllabs.com

Bagging/ Packaging Equipment



Rotochopper

www.rotochopper.com
217 West Street
St. Martin, MN 56376
Phone: 320.548.3586
Fax: 320.548.3372
YouTube: [rotochoppervideos](https://www.youtube.com/rotochoppervideos)
Twitter: [rotochopper](https://twitter.com/rotochopper)
Facebook: [Rotochopper](https://www.facebook.com/Rotochopper)
Contact: Nicole Klein
info@rotochopper.com

In-Vessel Composting



Ag-Bag Environmental

www.ag-bagfs.com
92365 Riekkola Road
Astoria, OR 97103-6656
Phone: 503.325.2970
Fax: 503.325.2985
Facebook: [ag-bag](https://www.facebook.com/ag-bag)
Forage Solutions
Contact: Debbie Linder
dlinder@ag-bagfs.com

Mulch Coloring Systems



Bandit Industries, Inc.

www.banditchippers.com
6750 Millbrook Road
Remus, MI 49340
Phone: 989.561.2270,
Phone: 800.952.0178
Fax: 989.561.2273
YouTube: [banditchippers](https://www.youtube.com/banditchippers)
Twitter: [banditchippers](https://twitter.com/banditchippers)
Facebook: [banditiindustries](https://www.facebook.com/banditiindustries)
Contact: Regional Sales Manager
sales@banditchippers.com



BASF/Colorbiotics

www.colorbiotics.basf.us
1725 Dayton Avenue, PO
Box 647
Ames, IA 50010
Phone: 888-663-6980
YouTube: [colorbiotics](https://www.youtube.com/colorbiotics)
Twitter: [Colorbiotics](https://twitter.com/Colorbiotics)
Contact: Nick Lincoln
nick.lincoln@BASF.com



Rotochopper

www.rotochopper.com
217 West Street
St. Martin, MN 56376
Phone: 320.548.3586
Fax: 320.548.3372
YouTube: [rotochoppervideos](https://www.youtube.com/rotochoppervideos)
Twitter: [rotochopper](https://twitter.com/rotochopper)
Facebook: [Rotochopper](https://www.facebook.com/Rotochopper)
Contact: Nicole Klein
info@rotochopper.com

Screening Systems & Trommels



Action Equipment Company Inc.

www.actionconveyors.com
2800 Hayes Street
Newberg, OR 97132
Phone: 503-537-1111
Fax: 503-537-1117
YouTube: [Action Conveyors](https://www.youtube.com/ActionConveyors)
LinkedIn: [Action-Equipment-Company-Inc.](https://www.linkedin.com/company/Action-Equipment-Company-Inc)
Contact: Andrew LaVeine
sales@actionconveyors.com

If your business is not listed in this directory, please contact ken@compostingnews.com

Product/Equipment and Services Guide

Screening Systems & Trommels (cont.)



Bandit Industries, Inc.

www.banditchippers.com
6750 Millbrook Road
Remus, MI 49340
Ph: 989.561.2270,
800.952.0178
Fax: 989.561.2273
YouTube: banditchippers
Twitter: banditchippers
Facebook:
banditiindustries
Contact:
Regional Sales Mgr.
sales@banditchippers.com



GrinderCrusherScreen Inc.

www.grindercrusherscreen.com
1772 Corn Road
Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
YouTube:
GrinderCrusherScreen
Twitter: GCS_Equipment
Facebook: GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrusherscreen.com



Screen USA Inc.

www.screenusa.net
1772 Corn Road
Smyrna, GA 30080
Phone: 770.433.2670
Fax: 770.433.2669
Contact: Rick Cohen
rick@screenusa.net



West Salem Machinery

www.westsalem.com
P.O. Box 5288
665 Murlark Ave. NW
Salem, OR 97304
Phone: 800.722.3530
Phone: 503.364.2213
Fax: 503.364.1398
YouTube:
West Salem Machinery
Facebook:
West Salem Machinery
Twitter:
West Salem Machinery
Contact: Patrick Lorenz
info@westsalem.com



West Salem Machinery

www.westsalem.com
P.O. Box 5288
665 Murlark Ave. NW
Salem, OR 97304
Phone: 800.722.3530
Phone: 503.364.2213
Fax: 503.364.1398
YouTube:
West Salem Machinery
Facebook:
West Salem Machinery
Twitter:
West Salem Machinery
Contact: Patrick Lorenz
info@westsalem.com

Shredders



GrinderCrusherScreen Inc.

www.grindercrusherscreen.com
1772 Corn Road
Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
YouTube:
GrinderCrusherScreen
Twitter: GCS_Equipment
Facebook: GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrusherscreen.com

Thermometers & Monitoring Equipment



REOTEMP Instruments

https://
reotempcompost.com
10656 Roselle Street
San Diego, CA 92121
Phone: 858.225.1889
Fax: 858.784.0720
YouTube: reotemp
compost
Twitter:
reotempcompost
Facebook: reotemp
Contact: Nathan
O'Connor
compost@reotemp.com

Replacement Parts



Agrisolutions Corp.

Trinity Hardware
Extended Life Solutions
www.agrisolutionscorp.com
2984 AAA Court
Bettendorf, IA 52722
Phone: 563-459-6341
Contact: Dan Zehnder
zehnder@agrisolutionscorp.com



ARMORHOG CW Mill Equipment -

www.armorhog.com
14 Commerce Drive
Sabetha, KS 66534
Phone: 800.743.3491
Phone: 785.284.3454
Fax: 785.284.2010
YouTube:
CWMillHogZilla
Facebook: HogZilla
Monster Grinders
Contact: Brian Bergman
sales@armorhog.com



DynaHog CW Mill Equipment -

www.dynahog.com
14 Commerce Drive
Sabetha, KS 66534
Phone: 800-743-3491,
Phone: 785-284-3454
Fax: 785-284-2010
Contact: Jason Haug
sales@dynahog.com

Product/Equipment and Services Guide



GrinderCrusherScreen Inc.

www.grindercrushercreen.com
1772 Corn Road
Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
YouTube:
GrinderCrusherScreen
Twitter: GCS_Equipment
Facebook: GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrushercreen.com



Hogzilla Grinders CW Mill Equipment -

www.hogzilla.com
14 Commerce Drive
Sabetha, KS 66534
Phone: 800.743.3491
Phone: 785.284.3454
Fax: 785.284.3601
YouTube:
CWMillHogZilla
Facebook:
HogZillaMonsterGrinders
Contact:
Tim Wenger, VP, Sales Mgr.
hogzilla@cwmill.com

Windrow Turners



Aeromaster Midwest Bio-Systems

www.aeromasterequipment.com
www.midwestbiosystems.com
28933 35 E Street
Tampico, IL 61283
Phone: 800.689.0714
Fax: 815.438.7028
YouTube:
midwestbiosystems
Twitter: compostingil
Facebook:
Contact: Cary Richardson
info@midwestbiosystems.com



Brown Bear Corp.

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



HCL Machine Works

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



SCARAB International LLP

www.scarabmfg.com
1475 County Road W
White Deer, TX 79097
Phone: 806.883.7621
Fax: 806.883.6804
YouTube: Scarab Manufacturing
Twitter: Scarabmfg
Facebook: Scarab International, LLLP
Contact: Richard Miller
info@scarabmfg.com

Wood Grinders - Horizontal



Bandit Industries, Inc.

www.banditchippers.com
6750 Millbrook Road
Remus, MI 49340
Ph: 989.561.2270,
800.952.0178
Fax: 989.561.2273
YouTube: banditchippers
Twitter: banditchippers
Facebook:
banditiindustries
Contact:
Regional Sales Mgr.
sales@banditchippers.com



Diamond Z

www.diamondz.com
11299 Bass Lane
Caldwell, ID 83605
Phone: 208.585.2929
Fax: 208.585.2112
YouTube: Diamond Z
Contact: Marcus Buntjer
MBuntjer@DiamondZ.com



DuraTech Industries

www.duratechindustries.net
Box 1940
Jamestown, ND 58401
Phone: 701.252.4601
Fax: 701.252.0502
YouTube:
Duratechindustries
Contact: Bob Strahm
indsales@duratechindustries.net



GrinderCrusherScreen Inc.

www.grindercrushercreen.com
1772 Corn Road
Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
YouTube:
GrinderCrusherScreen
Twitter: GCS_Equipment
Facebook: GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrushercreen.com

Product/Equipment and Services Guide



Featuring the industry's leading vendors. This listing of the industry's leading vendors of products, equipment and services essential to the compost manufacturing, wood recycling and organics management business also is available online at compostingnews.com. Scan the QR code with your mobile device to go there. If your business is not listed, please contact ken@compostingnews.com.

Wood Grinders - Horizontal (cont.)



Hogzilla Grinders CW Mill Equipment -

www.hogzilla.com
14 Commerce Drive
Sabetha, KS 66534
Phone: 800.743.3491
or 785.284.3454
Fax: 785.284.3601
YouTube:
CWMillHogZilla
Facebook:
HogZillaMonsterGrinders
Contact: Tim Wenger,
Vice President & Sales
Manager
hogzilla@cwmill.com



Rotochopper

www.rotochopper.com
217 West Street
St. Martin, MN 56376
Phone: 320.548.3586
Fax: 320.548.3372
YouTube:
[rotochoppervideos](https://www.youtube.com/user/rotochoppervideos)
Twitter: [rotochopper](https://twitter.com/rotochopper)
Facebook: [Rotochopper](https://www.facebook.com/Rotochopper)
Contact: Nicole Klein
info@rotochopper.com



West Salem Machinery

www.westsalem.com
P.O. Box 5288
665 Murlark Ave. NW
Salem, OR 97304
Phone: 800.722.3530
Phone: 503.364.2213
Fax: 503.364.1398
YouTube:
West Salem Machinery
Facebook:
West Salem Machinery
Twitter:
West Salem Machinery
Contact: Patrick Lorenz
info@westsalem.com

Wood Grinders - Tub



DuraTech Industries

www.duratechindustries.net
Box 1940
Jamestown, ND 58401
Phone: 701.252.4601
Fax: 701.252.0502
YouTube:
Duratechindustries
Contact: Bob Strahm
ind.sales@duratechindustries.net



GrinderCrusherScreen Inc.

www.grindercrusherscreen.com
1772 Corn Road
Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
YouTube:
GrinderCrusherScreen
Twitter: [GCS_Equipment](https://twitter.com/GCS_Equipment)
Facebook: [GrinderCrusherScreen](https://www.facebook.com/GrinderCrusherScreen)
Contact: Rick Cohen
rick@grindercrusherscreen.com



Hogzilla Grinders CW Mill Equipment -

www.hogzilla.com
14 Commerce Drive
Sabetha, KS 66534
Phone: 800.743.3491
Phone: 785.284.3454
Fax: 785.284.3601
YouTube:
CWMillHogZilla
Facebook:
HogZillaMonsterGrinders
Contact: Tim Wenger,
VP, Sales Mgr.
hogzilla@cwmill.com

Wear Parts



Agrisolutions Corp.

Trinity Hardware
Extended Life Solutions
www.agrisolutionscorp.com
2984 AAA Court
Bettendorf, IA 52722
Phone: 563-459-6341
Contact: Dan Zehnder
dzehnder@agrisolutionscorp.com



GrinderCrusherScreen Inc.

www.grindercrusherscreen.com
1772 Corn Road
Smyrna, GA 30080
Phone: 770.433.2440
Fax: 770.433.2669
YouTube:
GrinderCrusherScreen
Twitter: [GCS_Equipment](https://twitter.com/GCS_Equipment)
Facebook: [GrinderCrusherScreen](https://www.facebook.com/GrinderCrusherScreen)
Contact: Rick Cohen
rick@grindercrusherscreen.com

If your business is not listed in this directory, please contact ken@compostingnews.com

Food waste

Marshall

From page 8

scheduled for delivery on January 12.

The composting facility, designed and operated by the university's Sustainability Department, will be the second-largest university compost facility in the eastern U.S. and has the capacity to compost eight tons of organic waste per day, the university said.

The facility will accept food waste, lawn waste, white office paper and cardboard.

"As someone who has composted organic material on a daily basis for over 20 years, I can tell you that I am very excited about our new composting effort and proud of our new facility," said Jerome Gilbert, president of Marshall. "This will be a game changer for Marshall and the Huntington community."

Students in Marshall's specialty agriculture degree program within the College of Science will use the compost facility as an educational laboratory, which also will serve as a community outreach hub, hosting community composting and agriculture workshops.

Finished compost, branded as Herd Dirt, will be available for sale to the public as early as April 2021.

People

Coniglio replaces Sangiacomo at Recology

San Francisco-based Recology has appointed Sal Coniglio as CEO. Prior to this appointment, Coniglio was executive vice president and chief operating officer. He took over on January 1 as part of a transition plan executive in anticipation of the retirement of Recology's long-serving CEO Mike Sangiacomo on December 31.

Recology said Sangiacomo led the implementation of the country's first large scale curbside organics collection program.

"I have dedicated over three decades of my professional life to Recology and I am deeply proud of the work we have done together to reduce waste and promote recycling with a focus on sustainability," Sangiacomo said. "I have had the privilege of acting as a mentor to Sal over the course of his five years with Recology and I wish him and Recology every success going forward."

Coniglio has worked in the waste management industry since 2000.

Recology is a 100 percent employee-owned integrated resource recovery company that provides materials collection, processing, commodity sales and outreach and education to customers throughout California, Oregon and Washington.

Sangiacomo led an effort to add a third cart for the collection of organics, dubbing the larger program "the fantastic three." This move marked the nation's first large-scale curbside organics compost collection program and laid a foundation for further success using a three-cart system in San Francisco and beyond. Under Sangiacomo, Recology expanded composting programs to other jurisdictions in California, Oregon and Washington and embraced innovative technology for advanced materials processing, Recology said.

In April 2009, in an effort to redefine and expand Norcal Waste Systems as a geographically diverse business, Sangiacomo officially rebranded the company to Recology.

Brian Fleury elected USCC president

Brian Fleury, general manager of facilities at WeCare Denali LLC, a wholly-owned subsidiary of Denali Water Solutions LLC, has been elected 2021 president of the board of directors for the U.S. Composting Council (USCC).

Fleury has been on the board for more than eight years, serving in the roles of secretary, treasurer and vice president and has chaired multiple committees.

(See Fleury, page 14)

BATTLE READY...WEAR RESISTANT...BEST VALUE...

ARMORHOG®
Extreme Duty Grinder Parts

Quality Screens, Tips, Belts, & Many Other Parts for Your Rigid Hammer Style Tub or Horizontal Grinder, & Other Hammermill Applications.

Rotor Repair/Replacement & Digital Electronic Hammermill Balancing is available for All Brands.

ARMORHOG® uses NITROGRIT™, a proprietary blend of carbide found to best suit grinding applications.

ARMORHOG® now offers Grinder Insert Tips for A.R.E. Challenger Grinders & other similar style machines.

CUSTOM SCREENS!

Grinder Repair & Service for ALL BRANDS & Models of Grinders Including Bandit, CBI, Diamond Z, Morbark, Peterson, Vermeer, & More!

800.743.3491
sales@armorhog.com

ARMORHOG.COM

People

Fleury

From page 13

Fleury has served in various roles at WeCare Denali over the past 20 years, including sales and marketing, operations and project development. As general manager of facilities, he is responsible for operational excellence for all 20 WeCare Denali compost, mulch and soil facilities.

"I'm very proud to be elected to this role by my industry peers and look forward to working with the rest of the board, USCC's excellent staff and the various committees," Fleury said "Even with the difficulties many of us have faced in the past year, compost manufacturing and compost sales have been very strong throughout the country. We want to keep that momentum going and continue to grow the industry and train the professionals that work within it."

USCC advances compost manufacturing, compost utilization and organics recycling to benefit their members, society and the environment. The U.S. Composting Council believes compost manufacturing and compost utilization are central to creating healthy soils, clean air and water, a stable climate, and a sustainable society.

WeCare Denali operates a variety of technologies at compost facilities for some of the largest cities in the U.S. with contracts that include composting green waste, food waste, biosolids and other organics to manufacture WeCare Compost, WeCare Engineered Soils, WeCare Roofmix and other organic products.

Compostables

Mac & Cheese

From page 1

Heinz Co. "In our journey to develop our first recyclable fiber-based microwavable Kraft Mac & Cheese cup, it was critical to partner with fans who share our passion. Their invaluable feedback is helping to create packaging solutions with both

today's consumer and future generations in mind."

Kraft Heinz said it is committed to make 100 percent recyclable, reusable or compostable packaging by 2025.

Packaging

From page 1

into 2021 with a specific focus on biodegradable packaging and bags, with both categories increasing over the course of the first quarter.

Printing services are projected to see a 12-15 percent growth in 2021 relative to 2020. As demand increases for businesses nationwide in light of residual Covid-19 impacts, industrial printing businesses specializing in various services, including screen printing, digital printing and commercial printing, will see an uptick in sourcing, Thomas said.

Covid-19 vaccine-related supplies and equipment are projected to grow by 30-33 percent. As Covid-19 vaccine manufacturers like Moderna and Pfizer race through a carefully orchestrated logistics process to distribute their critical vaccines worldwide, Thomas anticipates a steady increase of industrial sourcing in categories essential to this endeavor over the next quarter. These categories include dry ice, ultra-low temperature freezers and cold storage services.

Security and surveillance equipment are expected to grow 15-18 percent. With numerous businesses nationwide closed because of Covid-19 related restrictions, Thomas expects industrial sourcing for security and surveillance related equipment, including security cameras, surveillance systems and surveillance cameras, to increase over the next three months as business owners look for additional ways to protect their businesses and safeguard their properties during closures.

The fourth quarter 2020 sourcing data report illustrates the continued reshaping of North American manufacturing, specifically how industry adapted to address urgent needs in the fight against Covid-19 and how sourcing

in 2021 will be impacted by the ongoing pandemic and associated vaccine rollout.

"While this past year has brought unprecedented challenges, the manufacturing sector at large continues to be a resilient force as it adapts to overcome rising obstacles – from diversifying its supply chain to combating the skills gap," said Tony Uphoff, Thomas' president and CEO. "Our unique data exemplifies how industry has pivoted to adjust to the COVID-19 pandemic as states and businesses forge ahead to implement safe and effective reopenings."

Product quality

Herbicide

From page 1

Noel Lyons, president of the company, said 5 percent of McGill's 300,000 yards of product was impacted last year and that testing of incoming feedstocks for persistent herbicides is very complicated and time consuming.

"In one season, persistent herbicide contamination can tarnish a reputation that took a quarter of a century to build up," he said.

When contaminated feedstocks pass persistent herbicides - such as clopyralid, aminopyralid and picloram - into compost, it creates multiple layers of victims, including compost manufacturers, buyers, resellers, end users and the environment itself.

USCC tracks maintains a database of incident reports involving compost tainted with persistent herbicides. Cary Oshin, associate director of the trade association said members submit four or five confidential reports during a typical year. In 2019, the council received 123 reports in seven different states, he said.

(In a letter to the U.S. EPA commenting on the agency's re-registration of clopyralid, USCC said incidents reported between 2015 and 2019 were lost "over several website transitions.")

Oshins and Fred Michel, professor at The Ohio State University's Department

of Food, Agricultural and Biological Engineering, said testing has shown that the use of activated charcoal, biochar and wood ash have shown some potential to absorb persistent herbicide from compost, but more research is needed.

Michel said tests have been done in which those materials were added to growing media at a 2 percent ratio. Activated carbon appeared to have the most profound impact on reducing the impacts of persistent herbicide in bioassays in which compost made up 20 percent of the media and aminopyralid was added to a ratio of 600 parts per billion (ppb).

Activated carbon protected plants at an aminopyralid contamination rate of 100 to 600 ppb. Wood ash provide protection at contamination rates of up to 100 ppb.

“Activate carbon would likely work even at less than a 2 percent application rate,” he said.

However, he said, activated carbon is expensive to apply.

Oshins said biochar has shown some potential for persistent herbicide mitigation and that he has contacted the International Biochar Initiative to discuss the issue. Michel said the particular biochar used in the testing didn’t show impressive results, but noted that biochar comes in a diversity of forms and that further research should be done.

Zeolite and Osorb also were other materials tested.

Lab testing for persistent herbicides in compost is a challenge. Oshins said only one private lab of six contacted and only one state lab of 17 contacted do testing for persistent herbicides. Three more state labs do testing on a “complaint basis.”

Further, according to USCC, in its letter to the EPA, research by Scotts Miracle-Gro indicated a “very low correlation between the herbicide concentrations reported through analytical testing and phytotoxicity symptoms observed on plants. For that reason, Scott has pivoted to relying on the use of bioassays to determine the presence of severity of herbicides in compost.

In its comments to EPA relating to re-registering of clopyralid, USCC called on the agency to:

- Limit the application of persistent herbicides like Clopyralid to non-harvested crops, and prohibit use on turf;
- Change the registration process for herbicides to require an evaluation of compostability and persistence in compost;
- Require the development of test methods for compost and similar difficult matrices that independent labs can use to affordably identify contamination by this class of herbicides at the 1 part per billion detection limit.;
- Assign liability to all members of the supply chain: pesticide applicator, land owner, property manager, and pesticide product distributor, for damages from compost contaminated by Clopyralid;
- Limit application of Clopyralid to professional licensed applicators;
- Require training for state extension agents and educators of licensed pesticide applicators on Clopyralid label restrictions;
- Require pesticide manufacturers to supply steps to remediate contaminated compost and garden soil.

compost.

Telling residents that the trash hauler would not pick up trash unless residents also put out a compost bin feels like “strong-arming,” one resident said.

Brick Ends Farm, of South Hamilton, will charge the town %\$40 per ton to pick up the compostables. - *The Salem News, salemnews.com*

• Starting Feb. 1, residents and businesses in **Jackson Hole, Wyoming** can bring food waste to a composting facility on the same property as the town’s trash transfer station. The tip fee will be \$65 a ton or about 3 cents per pound. A \$10 minimum applies to food waste as well as trash and yard waste. Teton County Integrated Solid Waste and Recycling stressed that the new program is for food only. That means no paper products and no compostable or biodegradable plates, cups or service ware. The food scraps will be composted by Terra Firma Organics. - *Jackson Hole Daily, jhnewsandguide.com*

Compost Digest
 Read these complete stories at compostingnews.com



• The chairman of the **Hamilton, Mass.** Board of Selectmen acknowledged during a meeting this month that residents are upset about a rule that bans organic waste from trash collected by the town. The chairman conceded that the plan to role the program out on Feb. 1 was unrealistic. The board was to consider May 1 as the date by which all homes will be expected to comply with the new rule.

Some residents said the new ban is too punitive in nature and said they would prefer to see the program remain voluntary. It’s believed that as many as half of the town’s residents already



SCARAB
INTERNATIONAL

Compost Windrow Turner
Built To Last



Custom Designs
 Lease Options

1475 County Rd W
 White Deer, TX 79097
 1-806-883-7621
salesmgr@scarabmfg.com
www.scarabmfg.com



Independent coverage of composting, wood recycling and organics management

Composting News

McEntee Media Corporation
9815 Hazelwood Avenue, Strongsville, OH 44149-2305
Phone: 440.238.6603
www.compostingnews.com

PRSR STD
U.S. POSTAGE
PAID
CLEVELAND, OH
PERMIT NO. 78

ADDRESS SERVICE REQUESTED

HOGZILLA

“Everything we do, compost and mulch, the first step is putting it through a Hogzilla. The Hogzilla grinders are a very integral part of what we do, and does better than any other’s we’ve used, that’s why we have 2, & another on the way.”

Jason Anderson, Missouri! Organic – Kansas City, MO
Missouri Organic commercially processes yard waste, tree trimmings, & food waste residuals recycled from the Kansas City area to make mulch, compost, and topsoil.

• DIESEL OR ELECTRIC
• TUB OR HORIZONTAL
• MONSTER PRODUCTION

HOGZILLA CW MILL EQUIPMENT CO., INC., Sabetha, KS, U.S.A.
Email: hogzilla@cwmill.com • 800-743-3491

Connect With Us!

We build your grinder how you want it. It's as simple as that.