



Independent coverage of composting, wood recycling and organics management

Composting News

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Market Intelligence

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PLA broke down faster than orange peels

Compostable plastics broke down well with food and garden waste (GFT) in the Dutch biowaste disposal system, according to new research done at Wageningen University & Research, in the Netherlands. Research showed no compostable plastics detected in the final compost, although conventional plastics were found.

In fact, researchers said, compostable products like plant pots made of polylactic acid (PLA) disintegrated faster than items like orange peels and paper, and could not be recovered even after one composting cycle of 11 days.

Wageningen Food & Biobased Research studied how compostable plastics behave in the current Dutch system for the treatment of GFT - source separated municipal biowaste. In a representative full scale practical test at one of the facilities processing GFT in the Netherlands, compostable versions

(See PLA, page 8)



Composting one scoop at a time

By Karen Woods

With 23 professional rodeos and more than 100 livestock shows, the annual National Western Stock Show, held in Colorado, is home to thousands of different animals during the 16-day event.

This means a lot of poop.

In fact, about 17,000 yards of manure is hauled off each year.

Upon the completion of the 2020 National Western Stock Show, B.O.S.S. Compost, of Fort Lupton, Colo., hauled all of the livestock manure overnight to US Bar Ranch to begin the composting process.

"We make our compost formulas from the highest quality organic materials so that we can meet the Rocky Mountain Organics Council's compost classification list and the U.S. Composting Council's TMECC testing standards," according to B.O.S.S. Compost.

After composting is completed it is shipped to different retail locations along the front range. Compost that includes sludge waste and biosolids will have its place in

(See Stock show, page 13)



Photo: National Western Stock Show

Farmers should monitor for salty soil, researcher says

Doctors often tell their patients to reduce their salt intake as part of a healthy lifestyle. When we start looking at food labels, we may find salt in surprising places – like baked goods, drinks and canned foods.

While you may try to keep an eye on your personal salt intake, you have probably never given much thought to how much salt there is in the soil under your feet. As many people are finding salt creeping into their diets, scientists are seeing increased levels of salt in water sources.

"There is a significant increase in salinity in freshwater systems, including water used for irrigation," said Meredith Steele, assistant professor of urban ecosystems and watershed biogeochemistry at Virginia Tech.

(See Salt, page 8)

Highlights

- n **Plastics bill would boost compost infrastructure**
- n **National compost prices**

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Acquisitions

National Storm Recovery acquires Mulch Manufacturing

National Storm Recovery Inc. (NSRI), of Apopka, Fla., said it has acquired Mulch Manufacturing Inc. (MMI), of Reynoldsburg, Ohio. NSRI said MMI is a 35-year-old industry leader and innovator. The acquisition, structured as a share exchange, provides NSRI with a significantly larger footprint in the mulch industry, NSRI said.

“With Mulch Manufacturing’s national and international distribution, its sales contracts with many big box

retailers and the increase in production and packaging capacity it provides, this strategic acquisition has positioned us as the sustainable green team,” said Tony Raynor, CEO of NSRI.

MMI’s CEO, Ralph Spencer, said the business combination has created an industry power house.

“With our combined strengths, it puts us in an ideal position to increase our sales and resulting margins as our combined operations benefit from the resulting vertical integration and economies of scale,” Spencer said. “Not only does this transaction make good economic sense, but we both share the same vision and commitment of providing environmentally friendly products to the public, such as Softscape, our next-generation mulch product. The importance of our shared belief that we are stewards of the environment should not be understated. National Storm’s strategic partnership with one of the

largest waste disposal companies in the country doesn’t just drive revenue while it secures mulch feedstock, the use of this feedstock has the environmental benefit of decreasing the volume of material that would otherwise continue to fill our nation’s landfills. These are just three more examples of why this business combination makes so much sense.”

Through its subsidiaries, NSRI provides tree services, debris hauling and removal, biomass recycling, mulch manufacturing, packaging and sales. The company was established with the objective of providing a solution for the treatment and handling of tree debris that has historically been disposed of in landfills, creating an environmental burden and pressure on disposal sites around the nation.

The company and its Sustainable Green Team’s solutions are founded in sustainability, based on vertically

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integrated operations that begin with collecting of tree debris through its tree services division, and collection sites, then through its processing division, recycling and using that tree debris as a feedstock that is manufactured in to a variety of organic, attractive, next-generation mulch products that are packaged and sold to landscapers, installers and garden centers.

The company plans to expand its operations through a combination of organic growth and strategic acquisitions that are both accretive to earnings and are positioned for rapid growth from the resulting synergistic opportunities identified, the company said. The company's customers include governmental, residential and commercial customers, and now big box retailers.

Headquartered in Reynoldburg, Ohio, and with an additional retail sales lot in Jacksonville, Fla., Mulch Manufacturing is one of the largest producers of packaged mulch products in the country.

The company harvests raw materials, processes mulch at several locations, package it and ship it when required in its own fleet of trucks or by contract carriers. MMI's products are distributed through the largest of mass merchandisers as well as small independent retailers.

TPG acquires Denali Water Solutions

TPG Growth, the middle market and growth equity platform of alternative asset firm TPG, has signed a definitive agreement to acquire Russellville, Arkansas-based Denali Water Solutions from Denali's management and the Firmament Group.

Denali is a market-leading provider of specialty waste and environmental

(See Denali, page 4)



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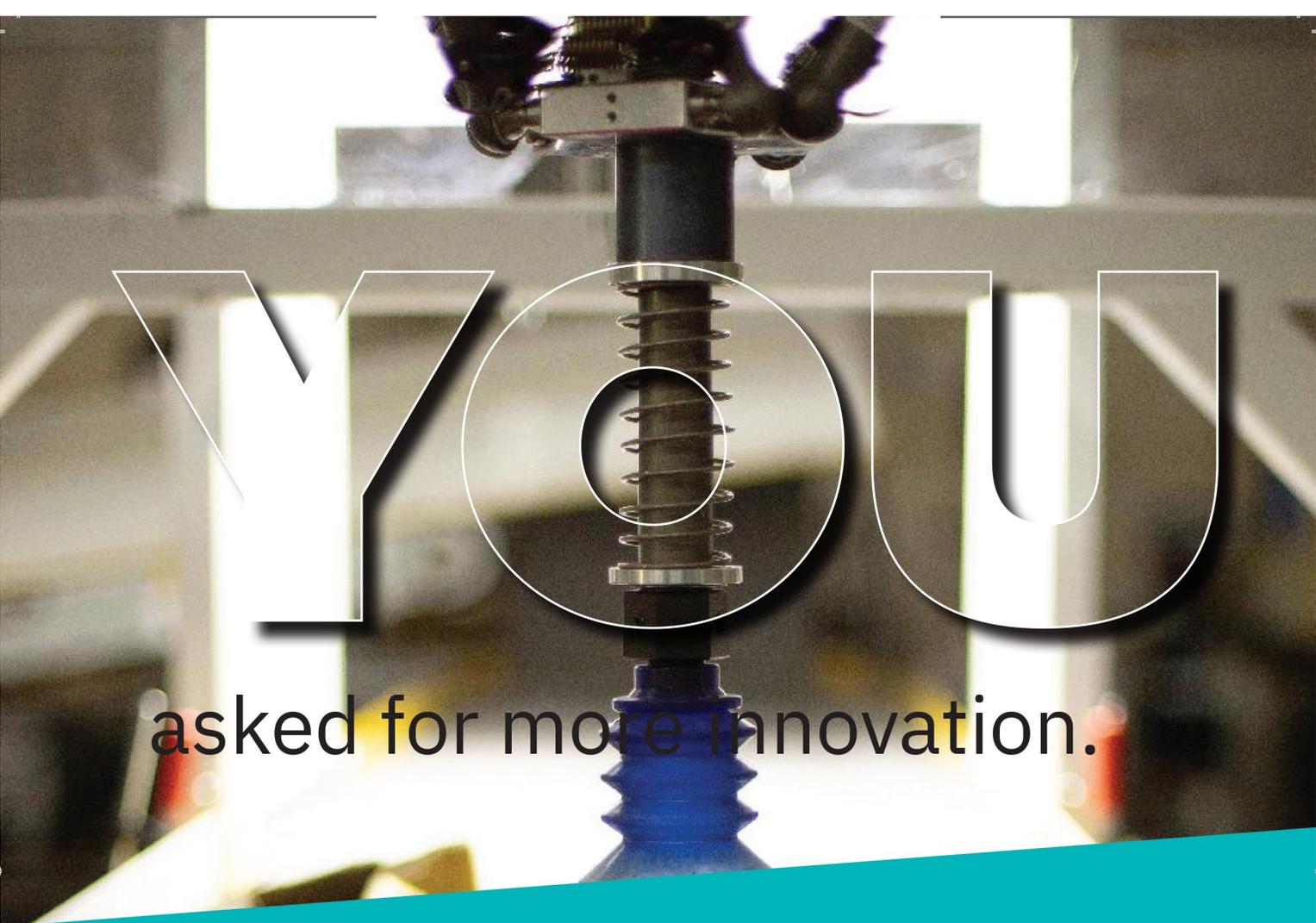
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Acquisitions

Denali

From page 3

recycling and disposal services in the U.S., including WeCare Denali LLC, one of the largest organics and residuals management companies in the U.S. Denali offers daily organic waste collection, processing, recycling and disposal for municipal, industrial food processing and downstream industrial customers.

Denali is a full-service provider throughout the organic waste management cycle - processed waste is dewatered then recycled through liquid and solid land applications, chemical treatment and composting. Beneficial use and recycling methods create sustainability benefits through fertilizing farmland, enhancing soil health with compost and generating clean water. Through an extensive network of permitted farmland and strategically

located organic waste processing facilities, Denali provides a strong value proposition to its customers through its easily accessible and cost-effective recycling and disposal methods, the company said.

“The Firmament Group has been an integral part of our expansion since they invested in Denali in 2014,” said Andy McNeill, CEO of Denali Water Solutions. “We are thankful for their partnership and support over the years. We are excited to welcome TPG Growth’s strategic approach and operational expertise and look forward to partnering with them to execute our shared vision for Denali’s future growth.”

Ransom Langford, partner at TPG Growth, said Denali has established a broad and diverse customer base by providing essential, best-in-class recycling and environmental services to a number of key industries.

“Through strategic acquisitions and organic expansion, Denali has built an extensive network of beneficial use

locations and firmly positioned itself as a top specialty waste provider to large industrial sub-sectors like the municipal market and industrial food processing market,” Langford said.

With about \$14.5 billion of assets under management, TPG Growth targets investments in a broad range of industries and geographies. The firm is backed by the resources of TPG, which has more than \$119 billion of assets under management.

Kurtz Brothers acquires garden supply store

Kurtz Bros. Inc., one of Northeast Ohio’s largest suppliers of compost and other landscape materials, has purchased the Landmark Lawn and Garden Supply store in

(See Kurtz, page 8)

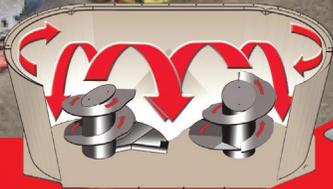
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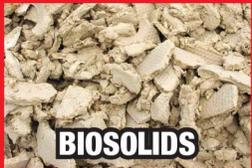
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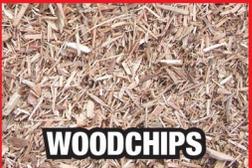





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National Compost Prices

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

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

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

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

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

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

- Manures: Chicken manures may include other poultry

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

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

Additional data will be added as more information is obtained.

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

Bulk Retail (yard)

Yard waste compost	Average	High	Low
NE	\$ 32.55	\$ 77.00	\$ 17.50
Chesapeake	\$ 24.50	\$ 30.00	\$ 17.00
SE	\$ 21.88	\$ 29.95	\$ 16.00
Florida	\$ 16.42	\$ 26.00	\$ 10.50
Cleveland	\$ 19.90	\$ 28.00	\$ 12.50
Iowa	\$ 21.57	\$ 53.00	\$ 7.50
Minneapolis	\$ 17.09	\$ 28.00	\$ 8.00
Texas	\$ 29.71	\$ 40.00	\$ 15.00
Denver	\$ 20.31	\$ 31.00	\$ 12.00
Northwest	\$ 24.05	\$ 55.00	\$ 10.00
SF-Bay	\$ 21.92	\$ 30.00	\$ 10.00
SoCal	\$ 14.75	\$ 24.00	\$ 8.00

Food waste compost	Average	High	Low
NE	\$ 39.12	\$ 64.00	\$ 17.50
Chesapeake	\$ 23.00	\$ 30.00	\$ 15.00
SE	\$ 28.11	\$ 35.00	\$ 24.00
Florida	\$ 17.50	\$ 22.00	\$ 13.00
Iowa	\$ 25.00	\$ 65.00	\$ 15.00
Minneapolis	\$ 12.33	\$ 16.00	\$ 9.00
Texas	\$ 30.21	\$ 48.95	\$ 15.00
Denver	\$ 15.00	\$ 15.00	\$ 15.00
Northwest	\$ 20.55	\$ 30.00	\$ 15.00
SF-Bay	\$ 23.61	\$ 38.00	\$ 14.00
SoCal	\$ 30.50	\$ 45.00	\$ 16.00

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

Composted biosolids	Average	High	Low
NE	\$ 30.00	\$ 40.00	\$ 20.00
Chesapeake	\$ 24.98	\$ 35.00	\$ 12.00
SE	\$ 12.14	\$ 28.00	\$ 4.00
Florida	\$ 13.14	\$ 22.00	\$ 8.00
Cleveland	\$ 24.77	\$ 30.00	\$ 19.50
Iowa	\$ 12.67	\$ 21.00	\$ 8.00
Texas	\$ 21.28	\$ 30.00	\$ 10.00
Denver	\$ 9.00	\$ 10.00	\$ 7.00
Northwest	\$ 17.91	\$ 26.00	\$ 7.00
SoCal	\$ 13.36	\$ 22.00	\$ 3.50

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

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

SF-Bay	\$ 26.00	\$ 26.00	\$ 26.00
SoCal	\$ 17.25	\$ 24.00	\$ 12.00

Wood waste mulch	Average	High	Low
NE	\$ 21.35	\$ 38.00	\$ 12.50
Chesapeake	\$ 21.13	\$ 28.00	\$ 12.00
SE	\$ 18.78	\$ 34.95	\$ 12.00
Florida	\$ 17.50	\$ 18.00	\$ 17.00
Cleveland	\$ 25.56	\$ 36.25	\$ 14.00
Iowa	\$ 32.50	\$ 40.00	\$ 25.00
Minneapolis	\$ 26.00	\$ 35.00	\$ 20.00
Texas	\$ 16.19	\$ 27.00	\$ 9.00
Denver	\$ 18.74	\$ 25.00	\$ 12.48
Phoenix	\$ 17.61	\$ 22.95	\$ 10.00
Northwest	\$ 19.00	\$ 35.00	\$ 7.50
SF-Bay	\$ 18.14	\$ 30.00	\$ 8.00
SoCal	\$ 20.50	\$ 50.00	\$ 6.00

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

Bulk wholesale (yard)

Yard waste compost	Average	High	Low
NE	\$ 21.50	\$ 48.00	\$ 11.00
Chesapeake	\$ 13.39	\$ 16.00	\$ 8.00
SE	\$ 16.66	\$ 25.00	\$ 8.65
Florida	\$ 9.75	\$ 13.00	\$ 8.00
Cleveland	\$ 12.50	\$ 15.00	\$ 10.00
Iowa	\$ 14.00	\$ 19.00	\$ 8.00
Minneapolis	\$ 12.00	\$ 17.00	\$ 7.00
Texas	\$ 17.25	\$ 24.00	\$ 9.00
Denver	\$ 13.05	\$ 14.10	\$ 12.00
Northwest	\$ 14.79	\$ 35.00	\$ 7.50
SF-Bay	\$ 13.71	\$ 22.00	\$ 7.00
SoCal	\$ 7.33	\$ 10.00	\$ 6.00

Food waste compost	Average	High	Low
NE	\$ 25.79	\$ 48.00	\$ 11.00
Chesapeake	\$ 10.50	\$ 15.00	\$ 8.00
SE	\$ 20.65	\$ 30.00	\$ 15.00
Florida	\$ 10.50	\$ 13.00	\$ 8.00
Iowa	\$ 13.40	\$ 20.00	\$ 10.00
Minneapolis	\$ 12.00	\$ 12.00	\$ 12.00
Texas	\$ 17.50	\$ 24.00	\$ 8.50
Denver	\$ 11.33	\$ 15.00	\$ 7.00
Northwest	\$ 17.25	\$ 20.00	\$ 15.00
SF-Bay	\$ 12.67	\$ 26.00	\$ 5.00

Composted biosolids	Average	High	Low
NE	\$ 15.33	\$ 20.00	\$ 10.00
Chesapeake	\$ 9.31	\$ 15.00	\$ 5.00
SE	\$ 10.93	\$ 15.00	\$ 5.00
Florida	\$ 10.50	\$ 13.00	\$ 8.00
Texas	\$ 15.99	\$ 20.00	\$ 9.00

Denver	\$ 13.00	\$ 13.00	\$ 13.00
Northwest	\$ 16.75	\$ 21.00	\$ 12.00
SoCal	\$ 10.50	\$ 17.00	\$ 3.00

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

Wood waste mulch	Average	High	Low
NE	\$ 15.75	\$ 33.00	\$ 8.00
Chesapeake	\$ 15.80	\$ 17.00	\$ 13.00
SE	\$ 14.60	\$ 24.95	\$ 5.00
Florida	\$ 14.00	\$ 15.00	\$ 13.00
Iowa	\$ 30.00	\$ 40.00	\$ 20.00
Minneapolis	\$ 18.50	\$ 20.00	\$ 17.00
Texas	\$ 10.83	\$ 14.00	\$ 8.00
Denver	\$ 7.66	\$ 8.32	\$ 7.00
Northwest	\$ 15.00	\$ 15.00	\$ 15.00
SF-Bay	\$ 12.33	\$ 14.00	\$ 9.00
SoCal	\$ 9.25	\$ 15.00	\$ 5.00

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

Bag Retail

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

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

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Acquisitions

Kurtz

From page 5

Strongsville, Ohio. The Strongsville store becomes Kurtz' ninth distribution location in the Cleveland area.

The transaction doesn't include the Landmark Lawn and Garden Supply store in Avon, Ohio, which will continue to be owned by the Fahey Group, which purchased Landmark in 2019.

"Kurtz Bros., Inc. has a strong track record of successful operations in the lawn and garden sector, and that's exactly what we were looking for in a buyer for the Strongsville store," said Logan Fahey, founder of Fahey Group. "The transaction will strengthen Fahey Group's position as an innovator in the lawn and garden market as we continue to focus our investment and resources on the robotics sector."

The Fahey Group also owns Robin Autopilot, which sells robotic lawn

mowers.

"At Kurtz Bros., Inc., our highest priority is to provide outstanding products and services for Ohio's landscaper and retail markets while protecting environmental interests," said John Ziss, Jr., executive vice president of Kurtz. "We are excited to continue the legacy the Fahey Group has created by growing Landmark's location in Strongsville into a premier destination for retail and wholesale landscape needs."

Ziss is president of the Ohio Organics Council, a state chapter of the U.S. Composting Council.

Kurtz has served the Northeast Ohio market since 1948, using specialized techniques in resource management and sustainability. Along with its Northeast Ohio locations, Kurtz also has three locations in the Columbus area.

Soil quality

Salt

From page 1

Steele thought if there is salt in irrigation water, there might be a buildup of salt in soil. High levels of salt can damage soil microbes and plants. Most research on soil salinity has focused on these situations. Steele wondered if small amounts of salt could change the chemistry or biology of soils.

To determine whether salt concentrations would change soil, Steele's team started with soil that had no history of salt exposure. The researchers compared soil watered without salt to soils watered with slight concentrations of one salt. The salts included sodium chloride (table salt), potassium chloride and calcium chloride. All of these salts are natural in our environment.

The research used salt concentrations common in nature. The salt concentrations in the experiment were 700 times less salty than seawater. In this way, the experiment demonstrated what could happen if soils are flooded by a nearby stream or if farmers irrigate fields using water nearby. The experiment ran for 90 days.

One thing the researchers measured was soil respiration. Soil respiration is the amount of carbon dioxide gas released from the soil. In this case, the carbon dioxide was from the microbes in the soil. Just like us, these microbes are living organisms that are 'exhaling' the carbon dioxide gas.

Steele and colleagues found soils irrigated with saltwater release more carbon dioxide. But, calcium chloride had less effect on the carbon dioxide emissions than the sodium chloride and potassium chloride. The small increase in potassium and sodium resulted in a 20 percent increase compared to the control, while the calcium chloride treatment only resulted in a 9 percent increase.

This research shows that farmers may need to monitor for salt in floodwaters, irrigation water and even fertilizers.

"This has really not been on our radar, especially in the eastern United States," Steele said. "In the eastern U.S., where there is more rain, there has been less concern about salt building up in the soil.

Carbon dioxide is a greenhouse gas some researchers believe contributes to global warming. Understanding this relationship between soils and saltwater is important for scientists studying climate change, Steele said.

Steele presented these results at the 2019 International Annual Meeting of the ASA, CSSA, and SSSA in San Antonio, Texas. This research was supported by USDA Hatch Project #160060.

Compostables

PLA

From page 1

of a series of plastic products were followed during the regular GFT treatment process.

Nine products from different suppliers were investigated, including biowaste collection bags, plant pots, tea bags, coffee pads, coffee capsules and fruit labels. To obtain useful compost, the waste treatment process involves a

(See PLA, page 13)



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Product/Equipment and Services Guide



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Contact: Jamie Klaue
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42 Hangar Way
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Contact: Assaf Sadeh
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Anaerobic digestion



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In-Vessel Composting



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Phone: 503.325.2970
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Contact: Debbie Linder
dlinder@ag-bagfs.com

Mulch Coloring Systems



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6750 Millbrook Road
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Phone: 989.561.2270,
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Fax: 989.561.2273
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Contact: Regional Sales Manager
sales@banditchippers.com



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Contact: Nick Lincoln
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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 above with your mobile device to go there.

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

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b.lapsys@komptechamericas.com



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Contact: Scott Haynes
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Thermometers & Monitoring Equipment



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https://reotempcompost.com
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Contact: Nathan O'Connor
compost@reotemp.com

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Facebook: HogZilla Monster Grinders
Contact: Brian Bergman
sales@armorhog.com



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Contact: Tim Wenger, VP,
Sales Mgr.
hogzilla@cwmill.com

Windrow Turners



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www.hclmachineworks.com
15142 Merrill Ave.
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Fax: 806.883.6804
YouTube: Scarab Manufacturing
Twitter: Scarabmfg
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Wood Grinders - Horizontal



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Diamond Z - A Division of Rule Steel

www.diamondz.com
11299 Bass Lane
Caldwell, ID 83605
Phone: 208.585.2929
Fax: 208.585.2112
YouTube: Diamond Z
Contact: Kevin Mayhugh
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DuraTech Industries

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Product/Equipment and Services Guide

(More) Wood Grinders - Horizontal



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Wood Grinders - Tub



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Compostables

PLA

From page 8

sieving step, in this case after a composting cycle of 11 days, in which the remains of not fully disintegrated biowaste, together with contaminants like metals, glass, stones and plastics are separated. Besides the final compost, the sieved fractions also were analyzed regarding the presence of conventional and compostable plastics.

About 20 percent of the biowaste leaving the reactor after a composting cycle of 11 days was sufficiently small (<10 mm) to be called compost, researchers reported. The largest sieving fraction (10-40 mm), which was about 70 percent of the mass leaving the composting reactor, consisted of slowly disintegrating biowaste such as branches, leaves, peels and paper, which is normally recirculated in the process and composted again.

In this fraction, about 1 percent of plastics were found, which consisted almost completely of conventional fossil based plastics.

Also the coarse sieving fraction (i.e. bigger than 40 mm), which was about 10 percent of the mass leaving the composting reactor, consisted mainly of slowly disintegrating biowaste. The plastics found in this fraction also consisted mainly of conventional fossil

plastics, although some residues of compostable biowaste collection bags were recovered. When these sieving fractions are recirculated into a next composting cycle, it is plausible that the conventional plastics will accumulate in the residue fraction whereas the compostable plastics will further disintegrate, researcher said.

PLA disintegrated faster than expected in the composting process

Based on all observations in this study the researchers concluded that compostable products which comply with the requirements in European standard EN 13432 disintegrate fast enough in Dutch GFT waste treatment systems. Nevertheless, the presence of conventional (non-compostable) plastics in GFT is a real problem for the Dutch biowaste treatment sector and needs to be solved.

Manure

Stock show

From page 8

fertilizing isolated highway median strips and reclaiming strip-mining land.

Compost with similar content used during Stock Show, like enzyme-rich animal feed, baby poultry bird bedding and high-quality horse bedding that contains flailed wood shavings, alfalfa and straw can be used for flowerbeds, tree planting, vegetable gardens or lawn

establishments.

“Compost is an excellent way to increase the water-holding power of root systems, which is vital to growth,” according to Denver Water, the city’s water utility.

In addition to saving money, recycling livestock manure is environmentally friendly. This is one of the many ways the Stock Show recycles these natural resources and continues to grow the future of agriculture, one scoop of poop at a time.

Karen Woods is senior director of marketing and public relations for the National Western Stock Show.



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New Peterson video features orchard cleanout

Every 25-years or so, many varieties of nut orchards are pulled up and replanted to increase quality and yield of their crops, Peterson Pacific Corp. said. In its new video, instead of burning the old trees, they are turned into mulch using a Peterson 6710D horizontal grinder.

The mulch will help replenish the soil and help retain moisture for the new saplings. Peterson horizontal grinders are ideal for this type of application.

Peterson said the 6710D Horizontal Grinder is Peterson's largest grinder, and is designed for operations that need the most durable, highest output machine. Powered by a 1125hp (839 Kw) Tier IV, Caterpillar C32 engine (or an export only Tier II engine), the 6710D is designed for the toughest jobs.

With a feed opening of 50 x 66 inches (127 x 168 cm), the 6710D can even process large stumps that used to be reserved for tub grinders. The grinder is particularly suited for land clearing operations or other applications where mobility is desired.

Track mounting also reduces material handling costs in conventional recycling yards as well. With the R+ package, the 6710D Horizontal Grinder can be configured as a mid-speed grinder to handle heavily contaminated piles, and easily converts back to a high speed grinder for typical land clearing operations.

Peterson's three-stage grinding

process with an up turning rotor and large grate area enables the 6710D Horizontal Grinder to produce materials to exact specifications. Our quick change multiple grate system makes it easy to customize grate configurations to produce a wide variety of finished materials. Grates are removed through an enlarged access door on the side wall.

Since 1981, Peterson has specialized in the developing of delivery and processing equipment that turns low-grade organic materials into high value products.



View the video on your mobile device

Vermeer introduces TR6400 trommel screen

Vermeer continued to expand its trommel screen product line with the introduction of the new TR6400 model, which is capable of separating up to 180 cubic yards (137.6 cu m) of material per hour with half-inch screens installed and a material moisture content of less than 40 percent.

The TR6400, with a compact, durable design for compost, topsoil and biomass applications, features a powerful 100-horsepower Deutz 3.6L Tier 4 Final Stage IV engine, a 6.5-foot diameter screen drum with variable speeds of zero to 33.1



Vermeer TR6400 trommel screen



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gallons per minute, a low hopper in-feed with a capacity of 6.5 cubic yards and various service and operating enhancements, Vermeer said.

The TR6400 complements the smaller Vermeer TR5300 trommel screen in the product line.

"The TR6400 trommel screen builds off the success of our recently introduced TR5300 model," said Jeff Bradley, product manager for recycling and forestry equipment at Vermeer. "Its compact design allows for ease of transportation and maintenance. With a large drum diameter, hopper capacity and increased horsepower, teams will be able to produce large volumes of finished material with the TR6400 day in, day out."

Vermeer said the drum of the TR6400 is designed for quick exchange with a side door that gives complete access to the drum body from the ground.

Also, the unit's quick-change screen, with the ability to tension it around the drum to add rigidity, can accommodate smaller gauge wire to aid with overall production even when running wet materials. And with various access points to critical areas and a foldout motor compartment that provides access to the backside of the engine, servicing the TR6400 is efficient.

To further enhance the performance of the TR6400 trommel screen, the user-friendly Vermeer ACS control system gives operators the flexibility to run the machine with the DP10 display mounted on the control panel or a handheld transceiver remote. From either control unit, the operator can adjust conveyor heights and drum speeds depending on incoming material and job site conditions.

For more information about the Vermeer TR6400 trommel screen, visit vermeer.com or contact your local Vermeer dealer.

Legislation

Plastics bill would boost compost infrastructure

Bicameral legislation that aims to reduce the production and use of single-use plastic products and packaging contains provisions that would:

- Spur massive investments in U.S. domestic recycling and composting infrastructure, while pressing pause on new plastic facilities until critical environment and health protections are put in place;
- Establish minimum recycled content requirements for beverage containers, packaging and food-service products while standardizing recycling and composting labeling.

The Break Free from Plastic Pollution Act of 2020 was introduced into the U.S. Senate on Feb. 11 as S. 3263 by Sen. Tom Udall, (D-N.Mex.) and into the House on the same date as H.R. 5845 by Rep. Alan Lowenthal (D-Calif.). Sponsors said the legislation would phase out unnecessary single-use plastic products, hold corporations accountable for wasteful products, reduce wasteful packaging and reform our broken waste and recycling collection system.

Udall said the legislation follows the release of a Greenpeace report that claims that very few plastic products can be accurately labeled as recyclable in the U.S., rendering many products recycling labels misleading to consumers.

"Too many companies are pretending their plastic products are recyclable when that is often just not true," Udall said.

For purposes of labeling, the legislation defines "compostable" as a product that meets an ASTM International standard specification for compostable products - D6400 or

D6868. The term "compostable" shall not apply to paper.

The legislation calls for the establishment of "Producer Responsibility Organizations" that would represent one or more producers of a particular product or beverage in carrying out the mandates of the legislation through "Product Stewardship Programs." Producers would pay a fee for management and cleanup of their particular product categories. At least half of those fees for the first 10 years after the legislation goes into effect would be used for the improvement and development of new market recycling or composting infrastructure, which may include installing or upgrading equipment at existing sorting and re-processing facilities to improve sorting of product waste or to mitigate the impacts of the product waste.

The legislation contains labeling requirements for compostable bags and other items.

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