



Independent coverage of composting, wood recycling and organics management

Composting News

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Montana man busted in California digester scheme

A Montana man pleaded guilty to wire fraud, money laundering and identity theft charges for running a multimillion-dollar fraud scheme where he purported to turn cow manure into green energy, said U.S. Attorney Phillip A. Talbert, U.S. Attorney's Office, Eastern District of California.

Between March 2014 and December 2019, Ray Brewer, of Porterville, Montana, stole \$8,750,000 from investors by claiming to build anaerobic digesters on dairies in Fresno, Kern, Kings and Tulare counties, in California, as well as other counties in California and Idaho, Talbert's office said.

Brewer, 66, who was arrested in November 2020, acted primarily through his now defunct, Tulare, California-based CH4 Power.

Court records said Brewer made various misrepresentations to his investors. He took the investors on tours of dairies where he said that he was going to build the digesters and sent them forged lease agreements with the dairy owners. He also sent the investors altered agreements with banks that made it appear as though he had obtained millions of dollars in loans to build the digesters. Finally, he sent the investors

(See Ponzi, page 3)

Tomato virus deactivated in composting process

A recent study secured a new disposal method for spent stone wool, vines and other organic greenhouse waste infected with tomato brown rugose fruit virus (ToBRFV), Walker Industries and the Ontario Greenhouse Vegetable Growers (OGVG), Niagara Falls, Ontario, said. The companies said a multi-year study confirmed that Walker's Gore composting process successfully deactivated the virus that impacts tomatoes and peppers.

Greenhouse waste like stone wool (a soilless media used for cultivation) and vegetable vines are commonly discarded in landfills across Ontario over the concerns of spreading or reintroducing the plant pathogen into tomato greenhouses, Walker said. By safely composting the material, almost 39,000 tons of the material can be diverted into compost each year.

"Walker prides itself on being a leader in resource recovery through innovation," said Geoff Boyd, vice president, resource recovery at Walker. "This discovery will take the pressure off the province's waste management infrastructure by inserting



(See Virus, page 11)

Re-introduced legislation would promote food waste composting

Four federal composting and food waste bills that died in the last congress have been re-introduced.

In the House, Reps. Julia Brownley (D-California), Ann McLane Kuster (D-New Hampshire) and Chellie Pingree (D-Maine) introduced the Zero Food Waste Act (H.R.652) and the Cultivating Organic Matter through the Promotion Of Sustainable Techniques (COMPOST) Act (H.R.651), to reduce the amount of food wasted in the U.S. and to redirect food waste to composting projects.

Sen. Cory Booker (D-New Jersey) introduced companion legislation (S.177

and S. 179) in the Senate.

The COMPOST Act would add composting as a conservation practice for U.S. Department of Agriculture (USDA) conservation programs. Both the act of producing compost from organic waste and using compost on a farm would

(See Food waste, page 5)

Highlights

- **Biochar reduces farm methane emissions**
- **National compost prices**

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Anaerobic digestion

Ponzi

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forged contracts with multinational companies that made it appear as though he had secured revenue streams.

Brewer explained to investors that the digesters he planned to build would break cow manure and other biodegradable material down to produce methane that would be sold on the open market as green energy and earn RECs, which represent the property right to the reduction in greenhouse gas emissions achieved through green energy creation. Investors were led to believe that they would receive 66 percent of all net profits as well as tax incentives.

None of it was true, Talbert said. Brewer never actually built or even began construction on the digesters.

After Brewer received the investors'

money, he transferred the funds to multiple other bank accounts that he opened in the names of different entities, his family members and an alias. He used false descriptions for the transfers. He did so to conceal the location, source, ownership and control of the money before using it for personal expenditures.

Expenditures included two plots of land that were 10 or more acres each, a 3,700 square foot custom home and new Dodge Ram pickup trucks.

Brewer subsequently told his investors that the digesters were progressing when that was not the case. He did so by sending them fake construction schedules, fake invoices for project-related costs, fake power generation reports, fake Renewable Energy Credits (REC) from methane production and fake photos.

In some instances, Brewer purported to refund investors all or some of their

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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@compostingnews.com.

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	\$ 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
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
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

Anaerobic digestion

Ponzi

From page 3

money. The refunds, however, came from newly received money from other investors who had not authorized Brewer to use their money in this way. When Brewer's investors realized the fraud and obtained civil judgments against him, he moved to Montana and assumed a new identity. He later claimed to have been wrongfully arrested before admitting who he was, Talbert said.

The attorney general's office said the case was the product of an investigation by the Internal Revenue Service, Criminal Investigation, the FBI, and the Social Security Administration Office of Inspector General.

Brewer is scheduled to be sentenced in June by U.S. District Judge Jennifer L. Thurston.

Brewer faces a maximum statutory penalty of 20 years in prison and a fine of

\$250,000 for the wire fraud conviction. He also faces a maximum statutory penalty of 20 years in prison and a fine of \$500,000, or twice the amount of money involved for the money laundering conviction, whichever is the greater. Finally, he faces a mandatory two years in prison, consecutive to other counts, for the aggravated identity theft conviction. The actual sentence, however, will be determined at the discretion of the court after consideration of any applicable statutory factors and federal sentencing guidelines, which take into account a number of variables.

Legislation/Regulation

Food waste

From page 1

qualify as a conservation practice. It also would create new USDA grant and loan guarantee programs for composting infrastructure projects, including large-scale composting facilities as well as farm, home and community-based projects.

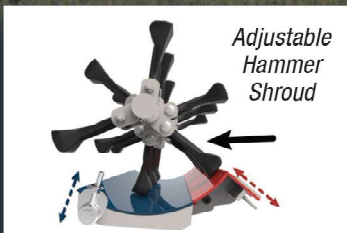
According to the bill, "composting is one of the most environmentally friendly means of disposing of food waste and other organic waste. Not only does composting emit a smaller quantity of greenhouse gasses compared to alternative disposal methods, it also yields a valuable soil additive that enhances soil health, which in turn makes the soil a better absorber of carbon, while also making the land more resilient to climate change-fueled disasters like wildfires and floods. Additionally, while there is growing interest by individuals and businesses across the country to compost food scraps and compostable packaging, there is not enough composting infrastructure in the U.S. to meet this demand."

"Americans waste more than 40 percent of the food they purchase," Brownley said. "Smart policies that curb food waste and promote composting will undoubtedly lessen the impacts of

(See Food waste, page 6)

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Legislation/Regulation7

Food waste

From page 5

climate change. The Zero Food Waste Act and COMPOST Act incentivize and encourage farmers to implement more sustainable farming practices and provide local governments with the resources to develop strategies that will reduce the amount of food waste that local communities generate. We must take bold action in the fight to protect our resources and our environment for future generations, including through the development of sustainable food systems.”

The Zero Food Waste Act would create a new EPA-administered grant program for state, local, tribal and territorial governments and for nonprofits, which would offer three types of grants:

- planning grants could be used to investigate the kinds of food waste mitigation projects or policies would be most impactful within a given community;
- measurement grants could be used to

better understand the amount of food waste generated in the state or community, and;

- reduction grants could be used to fund an assortment of different types of projects. For instance, food waste prevention projects could stop the generation of food waste. Recycling projects could reuse food waste as a feedstock for other non-food products, such as composting. Rescuing projects could redirect surplus food to places like food shelters. Upcycling projects could make new food from ingredients that would otherwise go to landfills. Additionally, localities could use the grant funding to implement food waste landfill disposal or incineration restrictions designed to stop food waste.

“Food waste has a massive environmental footprint and squanders perfectly good food as millions are going hungry,” said Pingree, co-founder of the bipartisan Congressional Food Recovery Caucus. She said the bills would reduce the chance that food waste ends up turning into methane in a landfill.

Dana Gunders, executive director of ReFED, a Long Island City, New York-

based nonprofit that is dedicated to ending food loss and waste. “Wasting less food can help alleviate rising food prices, climate change impacts and supply chain disruptions in one fell swoop.”

Brownlee said nearly half of all food produced in the U.S. is lost or wasted, which means an estimated \$408 billion is spent on growing, processing, transporting, storing and disposing of food that is never consumed. Landfills are the third-largest source of methane in the U.S. and food is the single largest input by weight in our landfills and incinerators.

H.R.651 was introduced January 31 and referred to the House Agriculture Subcommittee on Conservation, Research and Biotechnology on February 23.

H.R.652 was introduced and referred to the House Energy and Commerce Committee on January 31.

S.179 was introduced and referred to the Senate Agriculture, Nutrition and Forestry Committee on January 31.

S.177 was introduced and referred to the Senate Environment and Public Works Committee on January 31.



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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.

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Product/Equipment and Services Guide

Replacement Parts (cont.)



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CWMillHogZilla
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HogZillaMonsterGrinders
Instagram:
HogZilla Monster Grinders
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
Facebook:GrinderCrusherScreen
Contact: Rick Cohen
rick@grindercrusherscreen.com



Morbark, LLC

www.morbark.com
8507 S. Winn Rd.
Winn, MI 48896
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Phone 989-866-2381
Fax: 989-866-2280
YouTube: morbarkinc
Facebook: morbarkllc
Twitter: morbark
Contact:
Territory Sales Manager
inquire@morbark.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
LinkedIn:
Action-Equipment-Company-
Inc.
Contact: Andrew LaVeine
sales@actionconveyors.com



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www.screenusa.net
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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:
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Facebook:
West Salem Machinery
Twitter:
West Salem Machinery
Contact: Patrick Lorenz
info@westsalem.com

Wood Shredders



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Contact: Patrick Lorenz
info@westsalem.com

Product/Equipment and Services Guide

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

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: Stan Brown Corp
 Contact: Stan Brown
sales@brownbearcorp.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



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 Fax: 208-585-2112
 YouTube: Diamond Z
 LinkedIn: DiamondZ
 Twitter: DZGrinders
 Facebook: Grindingsimplified
 Contact: Tristan Kruger
tkruger@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
ind.sales@duratechindustries.net



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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
 Instagram: HogZilla Monster Grinders
 Contact:
 Tim Wenger, VP, Sales Mgr.
hogzilla@cwmill.com



Rotochopper

www.rototchopper.com
 217 West Street
 St. Martin, MN 56376
 Phone: 320.548.3586
 Fax: 320.548.3372
 YouTube: rotochoppervideos
 Twitter: rotochopper
 Facebook: Rotochopper
 Contact: Nicole Klein
info@rototchopper.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.)



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Precision Husky Corp.

www.precisionhusky.com
850 Markeeta Spur Road
Leeds, AL 35094
Phone: 205-381-7189
Fax: 205-640-1147
Contact: Steve Briscoe
steveb@precisionhusky.com



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Wood Grinders - Tub



DuraTech Industries

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Jamestown, ND 58401
Phone: 701-252-4601
Fax: 701-252-0502
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[Duratechindustries](https://www.youtube.com/Duratechindustries)
Contact: Bob Strahm
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Facebook: [GrinderCrusherScreen](https://www.facebook.com/GrinderCrusherScreen)
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Industry information

Composting News

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

Agriculture

Virus

From page 1

thousands of tons of recycled compost waste back into the circular economy and out of landfills."

The project concluded that Walker's standard eight-week Gore composting process is all that is required to ensure the safe management and reuse of infected greenhouse waste. This was attributed to the fact that the system achieved temperatures of more than 75°C for more than 40 percent of the compost residency time and remained above 55°C throughout the entire process.

"In Ontario, material such as stone wool slabs are one of the main substrates used in greenhouse vegetable production but have been thrown into landfills," said Erin Agro, growing media group manager at Walker. "This study creates an environmentally friendly solution and opens doors to other composting solutions."

The research was partially funded by the Greenhouse Competitiveness and Innovation Initiative, a cost-share program funded by the Ontario Government and delivered by the Agricultural Adaptation Council on behalf of the Ontario Ministry of Agriculture, Food and Rural Affairs.

Hawaii reimburses compost purchases

The Hawaii Department of Agriculture is accepting applications for its Compost Reimbursement Program for Fiscal Year 2023, which may reimburse agricultural producers for the cost of purchasing compost, including transportation costs.

The state legislature last year passed Act 302 relating to the reimbursement program funds totaling \$500,000 were released on November 30. Farming and

landscaping operations may apply for reimbursement of up to 50 percent of cost of compost purchased between July 1, 2022 and May 1, 2023.

Reimbursements under this program may not exceed \$50,000 per qualified purchaser.

"The cost of compost is a major expenditure for many farming operations," said Sharon Hurd, chairperson of the Hawaii Board of Agriculture. "This reimbursement program was originally established in 2018 and ran through part of 2020, however it was not able to be funded during the pandemic. The resumption of funding for the program will continue the needed support for Hawaii agriculture."

Under the reimbursement program, compost must be purchased from a certified processor, retailer or wholesaler licensed to do business in Hawaii.

Qualified agricultural operations include commercial agriculture, aquacultural facilities, livestock, poultry, apiary and landscaping activities.

Biochar reduces farm methane emissions, study shows

By Lorena Anderson

Adding even a small amount of biochar to a dairy's manure-composting process can reduce methane emissions by 84 percent, according to a recent study by University of California (UC) Merced researchers.

UC Merced said the dairy industry is one of the main sources of methane in California, making up half of the state's methane emissions.

"This is a wonderful example of an untapped climate solution," said Rebecca Ryals, life and environmental sciences professor. "Biochar reduces pollutant emissions from open burning of biomass and methane emissions from decaying biomass."

Though the dairy the researchers

worked on used an anaerobic digester to process livestock waste, it isn't typical for dairies to have that technology. The plan is for most dairies to have digesters by 2030 to meet climate goals.

Dairy manure is one of the largest sources of organic waste in the state. Farmers flush the waste from their barns and the liquids go into large, uncovered ponds, while the solids are piled up, said fourth-year graduate student Brendan Harrison. Sometimes farmers cover the ponds to capture methane gases, which are fed into generators and burned to produce electricity.

"It's actually a pretty good way to reduce methane emissions, given the technologies that are currently available," Harrison said. "But what it leaves out are all the solids, which is a problem because basically they either spread it on adjacent fields just to get rid of it or they store it in big mounds. You can see them when you go past a dairy, covered with white plastic held down with tires. They can build up so much heat they spontaneously catch fire."

The study looked at composting the manure with biochar instead of stockpiling it. Biochar also improves the composted manure so that it makes a better fertilizer for farmers to use on other parts of their land, said Gerardo Diaz, mechanical engineering professor.

"We were looking at how to reduce emissions but also how to provide some benefit to the community, especially underserved communities," Diaz said. "We looked at the possibility of developing a mobile unit that we could take to different sites to process some of the material there."

The study suggested small farmers would be able to use the improved fertilizer on their own farms to increase yield or sell it to others who need it.

"There's a pressing need to do something with that biomass because open-air burning is being banned starting in 2025," Diaz said.

The California Strategic Growth Council funded the study.

Anderson is senior writer and public information representative for UC Merced.

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