



Independent coverage of composting, wood recycling and organics management

# Composting News

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Market Intelligence

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## Washington passes law on compostability labeling

By Ken McEntee

**M**anufacturers and suppliers of products that are falsely labeled as compostable will be liable for civil penalties of up to \$10,000 per violation once a newly passed Washington State law takes effect on July 1, 2020.

Gov. Jay Inslee this month signed Substitute HB 1569, regarding product degradability and labeling, into law. The bill had passed the state House of Representatives in March by a vote of 60-37, then passed the state Senate in April by a vote of 30-17.

The law mandates that products labeled as compostable, and sold or distributed for use in Washington, must meet ASTM standard specification D6400, D6868 or be made of wood or a

*(See Compostable, page 3)*



## U.S. organic sales reached record \$52.5 billion in 2018

**T**he U.S. organic market in 2018 broke through the \$50 billion mark for the first time, with sales hitting a record \$52.5 billion, up 6.3 percent from the previous year, according to the 2019 Organic Industry Survey released by the Organic Trade Association (OTA).

Sales of organic fruits and vegetables improved 5.6 percent in 2018 compared to 2017, to \$17.4 billion. By comparison, the overall fruits and vegetables category, including both organic and conventional products, grew by just 1.7 percent in 2018.

OTA said new records were made in both the organic food market and the organic non-food market. Overall organic food sales reached \$47.9 billion, for an increase of 5.9 percent. Sales of organic non-food products jumped by 10.6 percent to \$4.6 billion. The growth rate for organic continued to easily outpace the general market: In 2018, total food sales in the U.S. edged up just 2.3 percent while total non-food

*(See Organic, page 17)*



## Professional baseball field goes organic

**N**ortheast Delta Dental Stadium, home of Toronto Bluejays' AA affiliate New Hampshire Fisher Cats, will be the first organically managed baseball field in professional baseball, according to Stonyfield Organic, the Manchester, N.H.-based yogurt maker.

Stonyfield said it is teaming up with its hometown team to convert the ball field to organic grounds management. The field conversion is beginning this spring and will transition over two years.

The move is a part of Stonyfield's #PlayFree initiative, which aims to help

convert public parks and playing fields across the country to organic grounds management to ensure that community spaces are free from the use of harmful pesticides.

The issue of pesticides on public parks

*(See Baseball, page 16)*

### Highlights

n **Oregon restricts aminocyclopyrachlor**

n **National compost prices**

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Legislation/Regulation

# Oregon restricts herbicide, prohibits chemical in compost

The Oregon Department of Agriculture (ODA) has restricted the use of herbicide aminocyclopyrachlor (ACP) and has prohibited ACP-affected trees from being used on compost or mulch. ODA investigators concluded that ACP applications from 2013 to 2015 in central Oregon left more than 2,000 ponderosa and lodgepole pines dead and dying.

There are currently four known locations near Sisters exhibiting



herbicide damage attributed to the use of ACP.

After careful consideration of data and more than 5,000 written public comments and testimony at public hearings, ODA adopted the permanent rule preventing future widespread tree deaths statewide.

The permanent rule prohibits byproducts of ACP-affected trees from being used in compost, mulch or animal bedding that will be used in compost or mulch. The permanent rule was filed with the Oregon Secretary of State on

May 9 and is effective immediately.

ODA first adopted a temporary rule limiting the use of ACP in September 2018. ODA proposed a permanent rule in January 2019, which was scheduled to be adopted in March 2019. On March 20, 2019, ODA received a request from Bayer Crop Science LP, Environmental Science Division, the registrant for ACP products in Oregon, to postpone adoption of the permanent rule.

As required by law, ODA postponed the date of its intended action. ODA also reopened public comment. During this time, ODA received an additional 118 comments, which it considered when drafting the permanent rule. ODA is working to notify and educate affected parties regarding this new rule.

Aminocyclopyrachlor, which is used to control broadleaf weeds, has been identified as a chemical with the potential to negatively impact the compost-and-mulch-producing infrastructure.



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DuPont has marketed the chemical as Imprelis.

More information about the ACP rule is available at <https://oda.direct/Rulemaking>.

## Compostable

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fiber-based substrate. Products that meet the ASTM standards must also meet labeling requirements established under the Federal Trade Commission guides, and feature labeling that:

- Meets industry standards for being distinguishable upon quick inspection in both public sorting areas and in processing facilities;
- Uses a logo indicating the product has been certified by a recognized third-party independent verification body as meeting the ASTM standard specification; and
- Displays the word “compostable,” where possible, indicating the product has been tested by a recognized third-

party independent body and meets the ASTM standard specification.

- Compostable products must have distinctive color patterns of green and/or brown to help differentiate compostable items from non-compostable materials.

The legislation says that environmental marketing claims for plastic products, whether implicit or implied, should adhere to uniform and recognized standards for compostability and biodegradability because “misleading, confusing and deceptive labeling can negatively impact local composting programs and compost processors.”

Plastic products marketed as being “compostable” should be readily and easily identifiable, the bills says.

“Legitimate and responsible packaging and plastic product manufacturers are already properly labeling their compostable products, but

(See Compostable, page 4)



9815 Hazelwood Avenue  
Cleveland, OH 44149-2305  
Phone: 440.238.6603  
Fax: 440.238.6712  
[www.compostingnews.com](http://www.compostingnews.com)  
Facebook: CompostingNews  
Twitter: CompostingNews

**Publisher/Editor:**

Ken McEntee  
[ken@compostingnews.com](mailto:ken@compostingnews.com)

**Office Manager:**

Amy McEntee

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## Legislation/Regulation

### Compostable

From page 3

many manufacturers are not,” the bill says. “Not all compost facilities and their associated processing technologies accept or are required to accept compostable packaging as feedstocks. However, implementing a standardized system and test methods may create the ability for them to take these products in the future.”

Along with requirements for “compostable” labeling, the bill also addresses similar claims, prohibiting, with certain exceptions, manufacturers and suppliers to sell, offer for sale or distribute for use in Washington a plastic product that is labeled with the term “biodegradable,” “degradable,” “decomposable,” “oxo-degradable” or any similar form of those terms, or in any way imply that the plastic product will break down, fragment, biodegrade

or decompose in a landfill or other environment. This section doesn’t apply to biodegradable mulch film that meets the required testing and has appropriate third-party certifications.

Under the new law, upon the request by a person, a manufacturer or supplier must submit to that person, within 90 days, non-confidential business information and documentation demonstrating compliance with the law in a format that is easy to understand and scientifically accurate. Upon request by a commercial compost processing facility, manufacturers of compostable products are encouraged to provide the facility with information regarding the technical aspects of a commercial composting environment, such as heat or moisture, in which the manufacturer’s product has been field tested and found to degrade.

The state, acting through the attorney general, and cities and counties have concurrent authority to collect civil penalties for a violation of the law and

may impose a civil penalty in the amount of up to \$2,000 for the first violation, up to \$5,000 for the second violation and up to \$10,000 for the third and any subsequent violations. Penalties collected by the attorney general on behalf of the state would be deposited into a compostable products revolving account created by the bill.

## Washington is first state to approve human composting

As expected, Washington Gov. Jay Inslee last month signed legislation that made the state the first to allow human remains to be composted into soil (see *Composting News*, April 2019).

Katrina Spade, owner and CEO of Recompose, which has developed a

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patent-pending system that completes natural organic reduction in about a month, said she envisions a future where every human death helps create healthy soil and heal the planet.

“We asked ourselves how we could use nature - which has totally perfected the life/death cycle - as a model for human death care,” Spade said. “Why shouldn’t our deaths give back to the earth and reconnect us with the natural cycles? At the same time, we’re aiming to provide ritual to help people have a more direct and conscious experience around this really important event. As hard as it can be, the end of one’s life is a profound moment - for ourselves and for the friends and families we leave behind.”

Now that the bill has passed in Washington State, Spade said, the Department of Licensing is creating the regulatory structure for this new disposition option. At the same time, Recompose is actively working to lease property for Recompose|Seattle, the first facility in the world where the service

will be offered to the public.

In recent years, Recompose, formerly known as the Urban Death Project, worked with Washington State University (WSU) to research the composting of human remains using methods similar to those used to compost animal mortalities. The Recomposition Science Project, a 2018 research study at WSU, which Recompose co-sponsored, found that natural organic reduction is an effective and safe alternative to burial and cremation. Natural organic reduction with the Recompose System offers an additional choice for after-death care that is natural and sustainable. With significant savings in carbon emissions and land usage, it addresses increasing demand for green alternatives to burial and cremation.

Legislation to approve the composting of human remains had broad bi-partisan support, passing the state Senate 36-11 and the state House 80-16.

“What I think is remarkable is that this universal, human experience of

death remains almost untouched by technology,” said Sen. Jamie Pedersen (D-43), who sponsored the legislation. “In fact, the only two methods for disposition of human remains that are authorized in our statutes have been with us for thousands of years - burying a body or burning a body.”

Today, more than half of Americans – and 76 percent of Washington State residents - are cremated. But cremation is an energy-intensive process that releases greenhouse gases and particulates, emitting more than 600 million pounds of CO2 annually in the U.S., Spade said.

During his address to the Senate floor in February, Pedersen said that he would “make the claim that this bill will change the world.”

Recompose has built a broad community of supporters, and many Washington State residents took part in grassroots actions to help pass the bill.

*(See Human, page 8)*

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# National Compost Prices

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

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

- Each listing includes a high price obtained, a low price obtained and an average of all prices obtained within a particular market.
- Market areas: Thirteen market areas have been targeted to provide a cross section of compost product markets in

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

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

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

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

Additional data will be added as more information is obtained.

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

## Bulk Retail (yard)

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

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

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

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

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

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

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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**Legislation/Regulation**

**Human**

From page 15

Spade said that she was thrilled about the feedback from the community.

“I heard from one person in her 90s who called her senators and told them to please hurry on up and vote yes,” Spade said.

**Programs**

**Plan would reduce Central Ohio food waste**

Following nearly a year of community engagement and planning, the Solid Waste Authority of Central Ohio (SWACO) has announced a multi-faceted action plan to address food waste and leverage it for

the region’s benefit.

A food waste composting feasibility study to evaluate conditions, business models and partnership strategies for establishing the needed infrastructure to support larger-scale operations for composting food waste, is a part of the plan.

The Food Waste Action Plan is the result of contributions made by more than 60 organizations and businesses which participate in the Central Ohio Food Waste Initiative and aims to cut Central Ohio’s food waste in half by 2030 through waste prevention, food rescue and recycling.

In order to cut food waste in half over the next 11 years and leverage it to benefit our region, the plan outlines three areas of focus:

- Waste prevention;
- Rescue;
- Recycling.

“Throughout Franklin County and Central Ohio, meaningful work is being performed by various groups,

organizations and governments to support our local food system, stem hunger and reduce waste,” said Kyle O’Keefe, SWACO’s director of innovation and programs. “We applaud those efforts and appreciate all of the collaboration those partners have provided in regard to preventing food waste and the development of the Food Waste Action Plan. As Central Ohio’s population continues to grow, SWACO sought to bring these partners together to create a plan which identifies opportunities and solutions for the community to coalesce around and pursue and which will help SWACO fulfill its mission to improve the solid waste stream and increase diversion.”

As a result, the Food Waste Action Plan is not a comprehensive document but rather seeks to complement the existing work of others, including the Columbus-Franklin County Local Food Action Plan.

*(See Ohio, page 13)*

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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](http://compostingnews.com). Scan the QR code with your mobile device to go there. If your business is not listed, please contact [ken@compostingnews.com](mailto:ken@compostingnews.com).

## Analytical Laboratory



### Agricultural Analytical Svcs Lab

[www.aasl.psu.edu](http://www.aasl.psu.edu)  
Tower Road  
University Park, PA 16802  
Phone: 814.863.0841  
Fax: 814.863.4540  
YouTube: PennStateAgSciences  
Twitter: agsciences  
Facebook: agsciences  
Contact: Jamie Klauw  
[asaslab@psu.edu](mailto:asaslab@psu.edu)



### Control Laboratories

[www.controllabs.com](http://www.controllabs.com)  
42 Hangar Way  
Watsonville, CA 95076  
Phone: 831.724.5422  
Twitter: Controllabs  
Contact: Assaf Sadeh  
[asadeh@controllabs.com](mailto:asadeh@controllabs.com)

## Anaerobic digestion



### Control Laboratories

[www.controllabs.com](http://www.controllabs.com)  
42 Hangar Way  
Watsonville, CA 95076  
Phone: 831.724.5422  
Twitter: Controllabs  
Contact: Assaf Sadeh  
[asadeh@controllabs.com](mailto:asadeh@controllabs.com)

## Bagging/Packaging Equipment



### GrinderCrusherScreen Inc.

[www.GrinderCrusherScreen.com](http://www.GrinderCrusherScreen.com)  
1772 Corn Road  
Smyrna, GA 30080  
Phone: 770-433-2670  
Fax: 770-433-2669  
Contact: Rick Cohen  
[rick@GrinderCrusherScreen.com](mailto:rick@GrinderCrusherScreen.com)



### Rotochopper

[www.rototchopper.com](http://www.rototchopper.com)  
217 West Street  
St. Martin, MN 56376  
Phone: 320.548.3586  
Fax: 320.548.3372  
YouTube: rototchoppervideos  
Twitter: rototchopper  
Facebook: Rotochopper  
Contact: Nicole Klein  
[info@rototchopper.com](mailto:info@rototchopper.com)

## Consulting Firms



### Kessler Consulting Inc.

[www.kesconsult.com](http://www.kesconsult.com)  
14620 N. Nebraska Ave., Bldg D  
Tampa, FL 33613  
Phone: 813.971.8333  
Fax: 813.971.8582  
Contact: Mitch Kessler  
[info@kesconsult.com](mailto:info@kesconsult.com)

## Education



### Aeromaster

**Midwest Bio-Systems**  
[www.aeromasterequipment.com](http://www.aeromasterequipment.com)  
[www.midwestbiosystems.com](http://www.midwestbiosystems.com)  
28933 35 E Street  
Tampico, IL 61283  
Phone: 800.689.0714  
Fax: 815.438.7028  
YouTube: midwestbiosystems  
Twitter: compostingil  
Contact: Cary Richardson  
[info@midwestbiosystems.com](mailto:info@midwestbiosystems.com)

## In-Vessel Composting



### Ag-Bag Environmental

[www.ag-bagfs.com](http://www.ag-bagfs.com)  
92365 Riekkola Road  
Astoria, OR 97103-6656  
Phone: 503.325.2970  
Fax: 503.325.2985  
Facebook: agbagfs  
Contact: Debbie Linder  
[dlinder@ag-bagfs.com](mailto:dlinder@ag-bagfs.com)

## Mulch Coloring Systems



### Amerimulch - A member of the ChromaScape family of brands

[www.amerimulch.com](http://www.amerimulch.com)  
2055 Enterprise Park  
Twinsburg, OH 44087  
Phone: 330.425.4244  
Phone: 888.556.3304  
Fax: 330.425.4240  
Facebook: ChromaScape  
Contact: Eric Evangelista  
[erice@chromascape.com](mailto:erice@chromascape.com)



### Bandit Industries, Inc.

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



### BASF/Colorbiotics

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



### GrinderCrusherScreen Inc.

[www.GrinderCrusherScreen.com](http://www.GrinderCrusherScreen.com)  
1772 Corn Road  
Smyrna, GA 30080  
Phone: 770-433-2670  
Fax: 770-433-2669  
Contact: Rick Cohen  
[rick@GrinderCrusherScreen.com](mailto:rick@GrinderCrusherScreen.com)



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Contact: Nicole Klein  
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## Odor Control



**Aeromaster  
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28933 35 E Street  
Tampico, IL 61283  
Phone: 800.689.0714  
Fax: 815.438.7028  
YouTube: midwestbiosystems  
Twitter: compostingil  
Contact: Cary Richardson  
info@midwestbiosystems.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  
Contact: Andrew LaVeine  
sales@actionconveyors.com



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Smyrna, GA 30080  
Phone: 770-433-2670  
Fax: 770-433-2669  
Contact: Rick Cohen  
rick@GrinderCrusherScreen.com



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www.komptechamericas.com  
6345 Downing Street  
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Ph: 720.890.9090  
Fax: 720.890.5907  
YouTube: Komptech Americas  
Twitter: komptechamericas  
Facebook: komptechamericasllc  
Contact: Brandon Lapsys  
b.lapsys@komptechamericas.com



**Screen USA Inc.**  
www.screenusa.net  
1772 Corn Road  
Smyrna, GA 30080  
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Contact: Rick Cohen  
rick@screenusa.net



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Phone: 541.689.6520  
Fax: 541.689.0804  
YouTube: PetersonCorp  
Twitter: petersoncorp  
Facebook: PetersonPacific  
Contact: Michael Spreadbury  
peterson@petersoncorp.com



**Vermeer**  
www.vermeer.com  
1210 Vermeer Road East  
Pella, Iowa. 50320  
Phone: 641.628.3141  
YouTube: Vermeer  
Twitter: vermeerug  
Facebook: vermeerjobs  
Contact: Jay Sarver  
Email: salesinfo@vermeer.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: Scott Haynes  
info@westsalem.com

## Shredders



**GrinderCrusherScreen  
Inc.**  
www.GrinderCrusherScreen.com  
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Smyrna, GA 30080  
Phone: 770-433-2670  
Fax: 770-433-2669  
Contact: Rick Cohen  
rick@GrinderCrusherScreen.com



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Fax: 503.364.1398  
YouTube: West Salem Machinery  
Facebook: West Salem Machinery  
Twitter: West Salem Machinery  
Contact: Scott Haynes  
info@westsalem.com

## Shredders



**GrinderCrusherScreen  
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1772 Corn Road  
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Phone: 770.433.2440  
Fax: 770.433.2669  
YouTube: GrinderCrusherScreen  
Twitter: GCS\_Equipment  
Facebook: GrinderCrusherScreen  
Contact: Rick Cohen  
rick@grindercrusherscreen.com

## Thermometers & Monitoring Equipment



**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  
Contact: Cary Richardson  
info@midwestbiosystems.com



**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



**Aeromaster  
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YouTube: midwestbiosystems  
Twitter: compostingil  
Contact: Cary Richardson  
info@midwestbiosystems.com

# Product/Equipment and Services Guide

## Wear Parts



**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



**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



**Apollo Equipment.net &  
Grinder Wear Parts**  
www.GrinderWearParts.com  
2062 20th Avenue SE  
Largo, FL 33771  
*Oregon Manufacturing*  
2785 N. Front Street  
Woodburn, OR 97071  
Phone: 503.982-0880  
Phone: 800.827.0401  
Fax: 503.982.0881  
YouTube: ApolloEquipmentnet  
Twitter: GrinderWearPrts  
Facebook: GrinderWearPrts  
Contact: Wayne Brown  
info@GrinderWearParts.com



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Inc.**  
www.GrinderCrusherScreen.com  
1772 Corn Road  
Smyrna, GA 30080  
Phone: 770-433-2670  
Fax: 770-433-2669  
Contact: Rick Cohen  
rick@GrinderCrusherScreen.com

## Windrow Turners



**Aeromaster  
Midwest Bio-Systems**  
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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



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www.komptechamericas.com  
6345 Downing Street  
Denver, CO 80216  
Ph: 720.890.9090  
Fax: 720.890.5907  
YouTube: Komptech Americas  
Twitter: komptechamericas  
Facebook: komptechamericasllc  
Contact: Brandon Lapsys  
b.lapsys@komptechamericas.com



**Vermeer**  
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1210 Vermeer Road East  
Pella, Iowa. 50320  
Phone: 641.628.3141  
YouTube: Vermeer  
Twitter: vermeerug  
Facebook: vermeerjobs  
Contact: Jay Sarver  
salesinfo@vermeer.com



**SCARAB International  
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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,  
LLP  
Contact: Richard Miller  
info@scarabmfg.com



**GrinderCrusherScreen  
Inc.**  
www.GrinderCrusherScreen.com  
1772 Corn Road  
Smyrna, GA 30080  
Phone: 770-433-2670  
Fax: 770-433-2669  
Contact: Rick Cohen  
rick@GrinderCrusherScreen.com

## Wood Grinders - Horizontal



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



**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  
kevin.mayhugh@rulesteel.com

# Product/Equipment and Services Guide

## Wood Grinders - Horizontal (cont.)



### DuraTech Industries

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



### 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



### Hogzilla Grinders CW Mill Equipment -

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



### Komptech Americas LLC

www.komptechamericas.com  
6345 Downing Street  
Denver, CO 80216  
Ph: 720.890.9090  
Fax: 720.890.5907  
YouTube: Komptech Americas  
Twitter: komptechamericas  
Facebook: komptechamericasllc  
Contact: Brandon Lapsys  
b.lapsys@komptechamericas.com



### Peterson

PO Box 40490  
Eugene, OR 97404  
Phone: 800.269.6520  
Phone: 541.689.6520  
Fax: 541.689.0804  
E. peterson@petersoncorp.com  
Web: www.petersoncorp.com  
YouTube: PetersonCorp  
Twitter: petersoncorp  
Facebook: PetersonPacific  
Contact: Michael Spreadbury



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YouTube: rotochoppervideos  
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Facebook: Rotochopper  
Contact: Nicole Klein  
info@rototchopper.com



### Vermeer

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1210 Vermeer Road East  
Pella, Iowa. 50320  
Phone: 641.628.3141  
YouTube: Vermeer  
Twitter: vermeerug  
Facebook: vermeerjobs  
Contact: Jay Sarver  
Email: salesinfo@vermeer.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: Scott Haynes  
info@westsalem.com

## Wood Grinders - Tub



### Hogzilla Grinders CW Mill Equipment -

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

## Shredders



### GrinderCrusherScreen Inc.

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Twitter: GCS\_Equipment  
Facebook: GrinderCrusherScreen  
Contact: Rick Cohen  
rick@grindercrusherscreen.com



## 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](http://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](mailto:ken@compostingnews.com)

## Programs

### Ohio

From page 8

In each of the three areas of focus, the plan proposes a series of solutions and recommends the following action items as the best places to start:

- Promote existing services and programs;
- Support school curriculum and in-school diversion programs;
- Create a consumer in-home awareness education campaign.

Activities for each of these items are already underway.

#### Promoting existing services

Opportunities are available today for residents and businesses to begin taking action. Services and outlets for rescuing and redistributing edible food are available through organizations such as Mid-Ohio Foodbank, Food Rescue US and numerous food pantries.

Local food waste composters are now providing collection services to businesses throughout the region and from residents at designated drop-off locations. There is also a wealth of existing information and tools available on how to properly compost at home, tips to reduce food waste in the home and when cooking for a group or planning for a party and more.

All of those resources are now available on a new website COFWI.org which serves as a one-stop online resource for this information in the region.

Residents and businesses will be encouraged to utilize this to answer all of their food waste questions and Plan stakeholders will support the promotion of the website to increase its visibility.

#### School curriculum and food waste diversion programs

The plan identifies schools as an ideal platform for waste reduction and diversion efforts given their role in

educating future generations and serving as cornerstones of our communities.

To that end, SWACO has already begun working with a number of local school districts to implement these activities. Last year, SWACO received a grant from Kroger and the World Wildlife Foundation (WWF) to complete an in-school waste audit at four Columbus City Schools and to introduce WWF's Food Waste Warrior Curriculum.\

Additionally, last year, SWACO provided nearly \$10,000 to pilot a cafeteria food waste prevention and composting program which included the use of outdoor tumblers for composting, vermicomposting and helped to support the hiring of a collection service company to assist with composting cafeteria food waste.

SWACO has been working with Hilliard City Schools to implement food waste composting efforts within the school system.

*(See Ohio, page 14)*

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## Programs

### Ohio

From page 13

The outcomes of these projects will include food waste measurements, documentation and studies of the impacts and creation of new lesson plans and resources. SWACO and Central Ohio Food Waste Initiative members will make these resources available to schools throughout the region.

“It’s absurd the amount of food we waste, yet people go to bed hungry in Ohio,” said Amy McCormick, Kroger’s corporate affairs manager. “It is essential that we teach children to recognize this disparity early on, and more importantly, what they and their families can do to be a part of the solution. SWACO is a trusted partner in our Zero Hunger | Zero Waste journey, and we’re optimistic the new Food Waste Warrior Curriculum and Central Ohio Food Waste Initiative will begin to incrementally transform

households and communities across our city.”

### Consumer awareness campaign

Changing behaviors is proven to have significant impacts on reducing waste, SWACO said. Later this year, SWACO will launch a consumer awareness campaign aimed at changing the habits of individuals when it comes to how they purchase and consume food.

The campaign will define the barriers and benefits for consumers to change their behaviors, develop a brand for the campaign as well as a suite of educational materials and a multifaceted media plan with associated metrics and goals.

Beginning this month, the public was invited to participate in a survey about their current behaviors, approach to food waste and knowledge on the subject matter. Responses will be used to help shape the messages and direction of the educational materials.

In addition to helping to guide the work of the Central Ohio Food Waste Initiative in these three areas, SWACO said it is also completing a food waste composting feasibility study which will evaluate conditions, business models and partnership strategies for establishing the needed infrastructure to support larger-scale operations for composting food waste.

This study will help to inform the future work undertaken as a result of the plan. The composting feasibility study is expected to be complete in Summer 2019.

According to the USDA, the U.S.

wastes roughly one-third of all food produced, or about 133 billion pounds annually. SWACO estimates that 12.8 percent of all material landfilled by residents and businesses in Franklin County is food waste. That equates to almost one million pounds of food waste sent to the landfill each day.

The amount of food landfilled each year in Central Ohio also represents about 192 million meals being wasted. This is staggering when you consider that Mid-Ohio Foodbank estimates that 69 million meals are missed every year by residents that go hungry.

You can read the plan at [COFWI.org](http://COFWI.org).

## Food waste

### Vermont prisons compost 5.5 tons per week

Vermont’s correctional facilities compost nearly 11,000 pounds of food scraps each week, and annually, they keep 572,000 pounds of food waste out of the garbage, the Vermont Department of Corrections said.

At the facilities, inmates separate coffee grounds, banana peels and spoiled food before sending these items to compost facilities that feed the soil at farms and gardens throughout Vermont.

“We are very pleased to see Vermont Department of Corrections tackling the

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[casey@hclmachineworks.com](mailto:casey@hclmachineworks.com)



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food waste problem - the single largest part of Vermonter's trash, said Emily Boedecker, commission of the Vermont Department of Environmental Conservation. "We hope this inspires others to donate, divert and compost to reduce landfill volume and methane gas production,"

In 2013, inmates at the Chittenden Regional Correctional Facility (CRCF) proposed developing a recycling program. Bob Arnell, CRCF superintendent at the time, loved the idea and combined it with a composting program. This composting program became the first of its kind at the Corrections Department.

"We are proud to join other states and cities across the country whose correctional facilities are doing their part to reduce the amount of food scraps going to landfills and thereby slowing down the creation of greenhouse gases," said Bob Arnell, who is now the corrections facilities operations manager for the Vermont Agency of Human

Services. "We partnered with Vermont Buildings and General Services to get food scraps picked up at our first facility in 2013 and then added more facilities each year. The program has been going well. Now it seems strange to think we ever threw these food scraps in the trash,"

Solid waste management districts and haulers including Black Dirt Farm, Casella Waste Systems, Cloud's Path Farm, Grow Compost, Myers Container Service and TAM Waste Management have trained food service teams at the correctional facilities on the best practices for separating food scraps from trash. As a result, they are providing haulers and composters with very clean material.

"Our kitchen staff have set up an easy system to collect food scraps and separate them from the regular trash," said Bryan Mitofsky, Northeast Correctional Complex food service supervisor. "We are proud that instead of being wasted, these scraps are turned into something good for our farms. We also order

produce from local farms to help close the loop."

## Sibling composters recognized by General Mills

A Miami organic waste collection business started by a teenage brother and sister was awarded \$50,000 by General Mills. Ugo and Emma Angeletti, founders of Back2earth, have collected more than 15,000 pounds of food waste and produced more than 4,000 pounds of compost to nourish hyperlocal gardens by installing food waste drop-off stations and compost stations around the Miami community.

They were named winners of General

(See Miami, page 16)



*San Antonio*



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## Food waste

### Miami

From page 15

Mills' annual Feeding Better Futures Scholars Program. The program recognizes young people in North America who are doing great things to improve global food issues, such as fighting hunger, reducing food waste and advancing sustainable agriculture in their communities.

Back2earth provides weekly residential collection of food waste by supplying subscribers with collection buckets.

With the leadership and monetary support through the Feeding Better Futures program, the Angelettis plan to further their initiative by developing even more drop-off stations and local gardens, as well as distributing more compost kits for residents to use in their own homes.

"Back2earth's mission is to grow

gardens, not landfills, and with the help of General Mills, we'll be able to do just that," Ugo Angeletti said.

The siblings learned they were this year's grand prize winners after presenting their initiative to a panel of judges at the General Mills' headquarters in Minneapolis.

Two other Feeding Better Futures finalists each received \$10,000 to continue their hunger initiatives.

## Applications

### Baseball

From page 1

and fields is one that continues to gain national attention as the safety of widely-used pesticides like glyphosate are increasingly being called into question, Stonyfield said, adding that the World Health Organization's cancer agency, the International Agency for Research on Cancer (IARC), has identified glyphosate as a probable carcinogen.

"We're on a mission to convert parks and playing fields all across the country to organic grounds management, but we couldn't overlook our own backyard," said Gary Hirshberg, co-founder of Stonyfield. "Converting the home field of our hometown team was a natural fit and we're thrilled to help give our Fisher Cats the organic ball field they deserve. We hope it inspires other teams to do the same, for the health and safety of their players and fans."

Fisher Cats President Mike Ramshaw said the team did a lot of research during the off-season while working with a consultant.

"We're thrilled to collaborate with Stonyfield as we transition our field management from synthetic fertilizers to organic," Ramshaw said.

Stonyfield said it is the country's leading maker of organic yogurt.

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## Agriculture

### Organic

From page 1

sales rose 3.7 percent, OTA said.

Fruits and vegetables are the “stalwart” of the organic industry, OTA said.

Fruits and vegetables now account for 36.3 percent of all organic food sales. Organic fruits and vegetable make up close to 15 percent (14.6 percent) of all the produce sold in the U.S., and have nearly doubled their market share in the last ten years.

Produce, OTA said, is a gateway to organic for consumers, especially millennials and those with young families. Industry experts note that the more people learn about health and wellness, the more people buy fresh produce.

Popular in the organic produce aisles: the classics like carrots, greens, apples, bananas. Also hitting stride are organic

berries, avocados, Brussels sprouts, cauliflower and tropical fruits like mangoes and papayas. And outside the fresh produce section, the frozen, canned and dried vegetable and fruit sections also made gains.

OTA said millennials are pushing for transparency and integrity in the food supply chain, and they are savvy to misleading marketing.

“The USDA Organic seal is gaining new appeal as consumers realize that organic is a certification that is not only monitored and supported by official standards, but is the only seal that encompasses the spectrum of non-GMO, no toxic pesticides or chemicals, dyes or preservatives,” OTA said.

Organic is no longer a niche market, OTA said.

Almost 6 percent (5.7 percent) of the food sold in the U.S. is now organic, the association said. Today’s consumers can find organic products – food and non-food items – in every aisle of their grocery stores. They can choose organic in their

favorite big box store, their club warehouse store, even in their neighborhood convenience store and increasingly on the internet.

“Organic is now considered mainstream,” said Laura Batcha, OTA’s CEO and executive director. “But the attitudes surrounding organic are anything but status quo. In 2018, there was a notable shift in the mindset of those working in organic toward collaboration and activism to move the needle on the role organic can play in sustainability and tackling environmental initiatives. Activism is a natural reaction from an industry that is really close to the consumer. When we are in an environment where government is not moving fast enough, the industry is choosing to move to meet the consumer rather than get stalled.”

OTA said shoppers, especially young families, are increasingly seeking out products made from high-quality simple ingredients from brands committed to sustainable agriculture and its

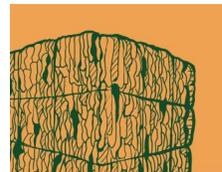



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## Agriculture

### Organic

From page 17

environmental benefits. Those shoppers turn to organic dairy as a trusted clean product free of antibiotics, synthetic hormones and chemicals. But growth in the U.S. dairy sector slowed for the second straight year due largely to shifting diet trends. Still the second-largest organic category, dairy and egg sales were \$6.5 billion in 2018, up 0.8 percent from 2017.

Many millennials also have moved away from livestock-based products toward plant-based foods and beverages. Experts said that to satisfy today's consumer, the importance of innovation in the organic dairy sector has never been greater. In 2018, the industry responded with milk beverages with increased protein, more full-fat dairy products, new flavors and grass-fed products.

Consumers are making the connection that the same reasons they choose to eat organic food apply to the non-food products they use—whether napkins for their dinner table, food for their pets, lotions they put on their skin or the supplements they ingest. Consumers want clean labels and to reduce the chemical load on their bodies, OTA said. Millennials also have a higher awareness around supply chain transparency and sustainability. All of these factors bode well for the future of the organic non-food industry, OTA said.

The outlook for organic, OTA said, is not without its challenges, but all expectations are that innovation and activism by the organic industry will continue to build as the sector works to maintain the credibility of the Organic seal and the trust of consumers.

“Organic is in a unique and tough environment,” Batcha said. “The government is slowing the advancement of the organic standard, but the positive news is that industry is finding ways to innovate and get closer to the consumer without walking away from the organic program. The sector is innovating yet

requiring that federal organic be in place. So, whether it's grass-fed, regenerative or Global Organic Textile Standard certified, they all have to be organic. The industry is committed to standards and giving consumers what they want.”

This year's survey was conducted from January through April 2019 and produced on behalf of OTA by Nutrition Business Journal (NBJ). More than 200 companies completed a significant portion of the in-depth survey.

## Facilities

### Q2Earth to oversee waste-to-energy plants, gets composting rights

**Q**2Earth Inc. has signed a services agreement to oversee the operational, legal and financial closing of the acquisition of two waste-to-energy plants in New England on behalf of its client, Community Eco Power LLC (CEP). Q2 also received the rights to build compost facilities on or around the sites over the next two years subject to permitting and other qualifications and to invest in future CEP funding rounds.

For its services to CEP prior to closing and over the following six months, Q2 will receive a fee of \$250,000.

The facilities purchased by CEP divert about 200,000 tons of municipal waste each year from landfills and produce more than 9.4 megawatts of electricity and 450 million pounds per year of steam, supporting their communities and local businesses. Using waste feedstock to produce this energy, the two plants offset the combustion of more than 43,000 gallons of oil each day and qualify for renewable energy credits.

“We are pleased to assist CEP complete this transaction, and to utilize the

experience of Q2's management in renewables and waste-to-energy operations during the forthcoming transition and integration period,” said Kevin Bolin, CEO. “As we expressed to our shareholders, we believe there are many opportunities like this one to create value from our managerial and sector expertise in a way that furthers our mission of doing good for planet Earth.”

Q2 said it is executing its plan to consolidate and manage leading manufacturers of compost and engineered soils created from recycled waste for the agriculture, horticulture, construction and infrastructure sectors. Through a plan of investments, acquisitions, strategic alliances, and organic growth focused on creating and marketing quality beneficial reuse end products, Q2Earth seeks to build the preeminent compost and soil company in North America, with international growth opportunities.



## Compost Digest

Read these complete stories at [compostingnews.com](http://compostingnews.com)

- Annapolis Compost, **Annapolis, Md.**, has expanded its food waste recycling business to the city of Crofton. Annapolis Compost started small two years ago, literally out of a Toyota Prius and now serves five areas around Annapolis and, now Crofton.

Customers receive a black, two gallon box to place on the counter in their kitchens and up to two, five gallon buckets with screw-top lids to be placed outside. When the counter box is full, the food scraps are then placed in the buckets. There are compostable bags in the counter box that keep odors out and the screw-top buckets prevents an issue with pests. The five gallon buckets are then picked up from homes once a week and a clean bucket is left in its place.

The company returns 20 to 25 pounds of soil back to its customers twice a year.

If a household doesn't want its soil, it is donated to Grow Annapolis, a nonprofit community garden.

On average, customers produce 10 pounds of food waste a week.

Annapolis Compost takes food waste to Prince George's County Organics Composting Facility. There the food waste is mixed with yard waste to create a more diverse, richer and more nutrient soil for plants. It takes three months to create soil from compost at the facility. - *Capital Gazette, capitalgazette.com*

- The city of **Buffalo, N.Y.** is looking to launch a food waste collection program to collect fruits, vegetables, coffee grounds, tea bags, egg and nut shells, which will go to the Buffalo River Compost site.

Last summer, the city launched a pilot program that resulted in nearly 2,000 pounds of food waste being kept out of landfills.

Buffalo River Compost already accepts all the city's green waste, like leaves, Christmas trees, trees, brush and shrubs. The city is looking to work with Natural Upcycling LLC to provide food waste collection services at five locations. - *WKBW-TV, wkbw.com*

- Compost Cats, a composting operation run by **University of Arizona** (UA) students, will close its facility at the San Xavier Co-op Farm and move to a larger facility. Its temporary closure, anticipated to start in June or July, is adding to the woes of Scraps on Scraps, a small company that picks up plant waste from homes and delivers it to Compost Cats.

In the meantime, there are two other efforts to increase the capacity to divert compostable materials from landfills.

Through the city of Tucson's FoodCycle program, food scraps from participating restaurants, groceries and other businesses were picked up and delivered to Compost Cats. Material from residents and Scraps on Scraps also fed the operation. The resulting compost was sold in bags or in bulk.

The UA program has outgrown its facility which doesn't have access to reliable water and electricity. The operation also needs newer and more equipment.

The operation stopped accepting material in March and plans to close once its remaining compost — about 1,000 cubic yards — is sold.

Compost Cats, which hopes to resume in the fall, needs to raise about \$1 million to buy equipment, like a water tank to get composting operations running, but the city is unlikely to pay for additional equipment it otherwise wouldn't use. - *Tucson.com, tucson.com*

- The **Penfield, N.Y.** Central School District has begun implementing a pilot program for composting at its elementary schools. All four of the elementary schools will begin composting waste from their cafeterias.

The district conducted a study with the New York State Pollution Prevention Institute (NYPPI), which found that the cafeteria was generating a significant amount of food waste.

Students will separate food and garbage into colored barrels with images showing which items go where. The district will send its food waste to Natural Upcycling, which will compost the material to create electrical energy for farms, as well as bedding for cows.

New York State schools generate about 30,000 tons of food waste every year. - *13WHAM-TV, wham.com*

- A new program in the city of **Fort Worth, Tex.** will let residents cut down on food waste and slow down a rapidly filling landfill. The new residential food scrap composting pilot program helps households to turn their food scraps into valuable composting material.

The composting program is part of the Comprehensive Solid Waste Management Plan, an initiative Fort Worth began in 2017. It was adopted from a similar program in Minneapolis.

About 30 percent of the city's residential waste is organic in nature and can be composted.

To participate, residents enroll their household online, pay a \$20 subscription fee and pick up a starter kit at an assigned drop-off station. The kit includes a kitchen countertop pail, a five-gallon sealable bucket, assorted educational

materials, and a refrigerator magnet explaining what materials can and cannot be composted.

Once the bucket is full it can be taken to the nearest food scrap collection site and emptied into a green composting cart. There are 10 local collection sites throughout the city, five of which are collecting food scraps only.

The \$20 subscription fee goes to the Keep Fort Worth Beautiful program, which is the local affiliate to the Keep America Beautiful anti-pollution plan. - *Fort Worth Culture Map, fortworth.culturemap.com*

- West Central Sanitation, the low bidder for the city of **Omaha, Neb.**'s trash contract offered three carts - one for trash, one for recyclables and one for yard waste. The city may go with a different vendor that offered a two-cart system that combined trash and yard waste into a single bin because the city had reservations about West Central Sanitation's small size.

Currently, West Central's largest contract covers 19,986 households, the city said. Omaha's contract covers nearly 150,000 households.

The city's mayor recommended the contract go to the second-lowest bidder, Spanish trash conglomerate FCC Environmental, citing the company's experience serving larger cities and its strong finances.

The FCC bid, \$22.7 million per year for 10 years, would provide residents with one 96-gallon cart for trash and yard waste, picked up weekly, and a second cart, for recyclables, picked up every other week.

West Central's three-cart bid, with separate yard waste, was for \$19.1 million per year. But that doesn't include the \$2.9 million cost of new carts or \$217,000 for seasonal clean-ups, which FCC offered to do at no additional cost. With those costs included, West Central's bid would be \$22.2 million, or about \$500,000 less than FCC's bid.

One councilman said many of his constituents want their yard waste composted, not thrown away. - *Omaha World Herald, omaha.com.*



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