



# American Recycler

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## FOCUS: Buyer's Guide

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## Avenues for food waste explored

by MAURA KELLER

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The U.S. is the global leader in food waste, discarding nearly 40 million tons of food every year according to the EPA. That's 8 billion pounds of food, more than \$160 billion or roughly 220 pounds of food waste per person within the country.

While these numbers are staggering, inroads are being made within food waste recycling programs across the U.S. As Arnold Bowers, business solutions director at ENGIE Impact explained, there are several emerging technologies in the marketplace today that are impacting how we engage with and tackle food waste, and anaerobic digestion is one tactic that has proven to be successful in certain settings,

"ENGIE Impact provides comprehensive consulting to both waste haulers and property owners to first audit waste streams in their current state and then deliver solutions that provide options like digesters to reduce both landfill tonnage and their overall carbon footprint," Bowers said. In 2018, ENGIE Impact recommended "on-site" aerobic digesters for certain property management clients in New York City who operated large venues with food court-style restaurants.

"One of our waste audit clients with more than two million square feet of retail food generation installed an aerobic digester, which reduced its amount of waste being sent to landfills by 50 percent," Bowers said.

Dan Meccariello, operations manager, Generate, said in the U.S. we are losing approximately 40 percent of our food to landfills, and the loss of restaurant demand made some of that food waste even worse. Generate is one of the largest owners of anaerobic digesters in North America and the company upcycles millions of tons of food waste annually into biogas that powers communities, and biomass that can be reused as natural fertilizer.

Anaerobic digesters utilize organic processes in which naturally occurring micro-organisms break down plant and animal materials, or biomass, inside a sealed tank or digester. This releases methane-rich biogas which is harnessed to produce renewable heat and electricity. Once waste has been processed, the remaining organic material is used as a natural fertilizer and organic soil amendment for thousands of acres of farmland each year.

As Meccariello explained, this unique electric generation process helps reduce fossil fuel dependency while diverting waste that would otherwise contribute to climate change in landfills. Digesters provide a sustainable and pro-



Alternatives for food waste that would otherwise be sent to landfills have been found.

ductive alternative for food waste that would otherwise be sent to landfills and contribute to climate change.

"Where many forms of renewable energy, like wind and solar, provide an intermittent source of power, anaerobic digesters provide consistent, baseload renewable energy capable of powering thousands of local homes and businesses," Meccariello said.

Generate is seeing a lot of growth in organic waste recycling generally because consumers are demanding that companies and stores where they shop make more sustainable choices with their waste. "Cities and communities are also increasingly passing regulation to demand food waste recycling, as many communities in Europe and Canada have already done," Meccariello said.

For example, cities are moving towards embracing food waste recycling to better their communities and the environment through policies aimed at reducing food waste. For example, the New York State Senate recently passed the New York Food Donation and Food Scraps Recycling Law. As of January 1, 2022, large generators of food scraps, like grocery stores, caterers and restaurants, must donate excess edible food and recycle all remaining food scraps if they are within 25 miles of an organics recycler (composting facility, anaerobic digester, etc.).

In addition to municipality initiatives, other companies are making inroads in handling food waste recycling in creative ways. Stefan Kalb, co-founder and chief executive officer of Shelf Engine and his team are on a mission to transform the food supply chain by helping grocery stores reduce waste through AI-driven predictive technology.

"We know firsthand just how underrepresented the true volume of food waste is in the grocery industry, so our number one priority is helping retailers better assess and track their food waste and spoilage rates," Kalb said. In other words, Shelf Engine specializes in decreasing losses and stopping waste higher up the supply chain, which is key to reducing waste at the retail and consumer level. That said, spoilage and loss are still inevitable at the individual store level at least to some degree.

"So, in the event food is lost and goes unsold, we work with Feeding America and other organizations like Divert to minimize downstream impact, protect the environment and ensure good food gets to those who need it most," Kalb says. "Divert, for example, uses innovative tracking technology and custom-designed solutions to bring accountability to retail recycling operations,

See FOOD WASTE, Page A4



# NJ DEP expands artificial reef

New Jersey's artificial reef network has been significantly expanded through a deployment of 6,000 tons of concrete on the Manasquan Inlet reef site, the New Jersey Department of Environmental Protection announced.

Material for the first deployment in October consisted of 74 concrete forms, measuring 40 feet x 8 feet x 1.5 feet each, donated by Maher Terminals in Elizabeth, Union County. Another 77 forms were deployed in November. The forms, once used by U.S. Customs to scan shipping containers, were no longer needed and were slated to be recycled.

"This beneficial collaboration gives new life to these materials, keeping it out of landfills and providing habitat for a wide array of marine life, including species important to New Jersey's world class commercial and recreational fishing sectors," said Department of Environmental Protection commissioner Catherine R. McCabe.

Artificial reefs are typically made up of concrete, steel, decommissioned ships and barges and provide a habitat for a variety of marine life. DEP studies have shown that these materials are colonized quickly with organisms such as algae, barnacles, mussels, sea stars, crabs, sponges and corals.

The structure of the reef, and the feeding opportunities provided by the animals growing on the reef, attract species such as black sea bass, tautog and lobster, and provide excellent opportunities for recreational anglers and divers.



"Maher Terminals recognizes the significant interconnection between providing efficient port and terminal-related services and our responsibility to the environment and communities where we operate and call home," said Gary Cross, chief executive officer of Maher Terminals. "The deployment of this reef off the New Jersey coast is part of our broader commitment to strengthening the local marine ecosystem and to investing in a greener future. We're excited to give these concrete platforms a second life as part of New Jersey's Artificial Reef Program."

Encompassing a total of 25 square miles of ocean floor, the New Jersey Artificial Reef Program began in 1984, and currently consists of 4 reefs in New Jersey waters and 13 in federal waters. The program is administered by the DEP's Division of Fish and

Wildlife's Marine Fisheries Administration. The program is sustained largely by donations of reef materials from private organizations and companies.

The new material adds nearly 1.25 acres of artificial reef habitat on what was formerly featureless sand bottom.

This new feature inside the Manasquan Inlet reef site will be called the Maher Terminals Reef in recognition of the donation of material. Maher Terminals has also committed to revisiting the reef site annually for several years to document the progression of material from bare concrete to a reef ecosystem.

Earlier this year, New Jersey deployed a 150 foot long caisson gate on the Deepwater reef site, a tugboat on the Sandy Hook reef site and a memorial reef on the Atlantic City reef.

# WM completes \$4.6 billion acquisition

Waste Management has completed its acquisition of all outstanding shares of Advanced Disposal, following the receipt of required regulatory approvals. The previously announced purchase price of \$30.30 per share in cash represents a total enterprise value of \$4.6 billion when including approximately \$1.8 billion of Advanced Disposal's net debt. Advanced Disposal stock will no longer be traded on the NYSE.

This acquisition grows Waste Management's footprint and allows the company to deliver unparalleled access to differentiated, sustainable waste management and recycling services to approximately 3 million new commercial, industrial and residential customers primarily located in 16 states in the eastern half of the U.S.

Immediately following the completion of the Advanced Disposal acquisition, Waste Management and Advanced Disposal completed the sale to GFL Environmental of all of the assets required by the U.S. Department of Justice to be divested in connection with the Advanced Disposal acquisition.

Waste Management funded the transaction using a combination of credit facilities and commercial paper. Waste Management expects to maintain a strong balance sheet and solid investment-grade credit profile with leverage ratios well within the financial covenants of its credit facilities.

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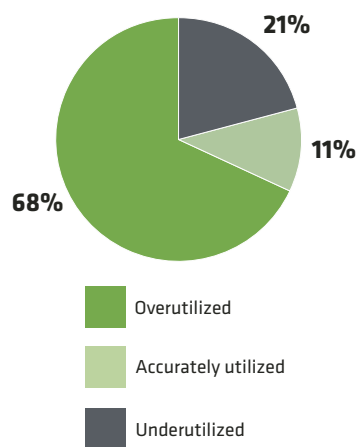
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# Amcor launches first recyclable shrink bag

Amcor, a packaging manufacturer, has launched Eco-Tite® R in Europe, the first designed to be recycled, PVDC-free shrink bag for fresh and processed meat, poultry and some cheeses. Amcor Eco-Tite R is designed to maximize shelf life, maintain food safety, reduce food waste and can be recycled in existing polyethylene (PE) plastic recycling streams. This means that more consumers will be able to recycle their meat, poultry and cheese packaging, while enjoying the benefits of longer lasting food.

“Through our packaging expertise and commitment to sustainability, the team has overcome a challenge for the

industry; developing a high performance shrink bag that's PVDC-free and recyclable, while maintaining food safety. This is a great step-forward for consumers and an example of how the removal of problematic materials from packaging – something the industry is increasingly focussed on delivering – can provide us with safe, secure and recyclable packaging,” said Rosalia Rosalinova, Marketing Manager for Meat and Fresh Produce at Amcor.

Amcor Eco-Tite R is a multi-layer, mono-PE packaging which maintains a high barrier to oxygen and water vapour even when exposed to high-moisture environments, such as cooler

cases and refrigerators. This solution provides European meat and cheese producers an alternative to PVDC packaging – which is not recyclable in mechanical or chemical recycling systems.

To validate recyclability in real-world conditions, Amcor Eco-Tite R has been certified by the cyclo-HTP institute, an independent testing lab. Consumers can recycle the bag where suitable infrastructure is in place, including Germany, France, Italy, The Netherlands, Norway, Austria and Spain. Recyclability of the new shrink bag will grow as infrastructure developments in additional countries.

## Food waste

■Continued from Page 1

from organics and problem material recycling to food rescue and other charitable donations.”

Kalb agreed that in general, municipalities and local governments are taking actionable, progressive steps towards reducing food waste. For example, Shelf Engine's hometown of Seattle prohibited food waste from the garbage in 2015, requiring all commercial businesses that generate food waste to subscribe to food and yard waste service, compost their food waste on-site, or self-haul their food waste for processing.

“To help facilitate this, there's a number of free recycling and composting resources available to Seattle business owners, including the Green Business Program provided by Seattle Public Utilities that offers recycling and conservation assistance. Many municipalities across the country are following suit,” Kalb said.

Jonathan Deutsch, Ph.D., professor, Department of Food and Hospitality Management, Drexel University and president of Upcycled Food Foundation said that some municipalities have added collection for post-consumer compost and return the finished compost to the community for gardening and landscaping.

“I would love to see this take off, both for its ecological value and also its educational benefit to let everyone know that food waste doesn't need to be a dead end,” Deutsch said. “Also, there is now an Upcycled Food Association, a trade association of food manufacturers who make food products from food that would otherwise have been wasted. This will divert waste but also raise consumer awareness of how much nutrition, flavor, and environmental inputs are in so much of the food currently entering the waste stream.”

### COVID's Impact on Food Waste

Experts agreed that the COVID-19 pandemic has increased the focus on disruptive shortcomings of our society. “With our lives being disrupted in such drastic ways over the last eight months, we have stepped back and asked ourselves what could we do better when life returns to normal,” Bowers said. “The focus on recycling food has increased during 2020.”

ENGIE Impact has several clients across diverse businesses like hospitality, QSR, property management and manufacturing that engage us regularly to support their goals of understanding and reducing food waste via ENGIE Impact's waste audits and “Zero Waste to Landfill” certification programs.

Municipalities are engaging in campaigns to educate their residents on how reducing food waste can achieve several goals. As Bowers explained, these goals include supporting food banks and soup kitchens that feed the undernourished, reducing food waste to keep the city clean and free of animal vectors that can carry disease, as well as the overall pursuit of environmental and social responsibility. The levels by which cities or municipalities engage in these campaigns varies across the U.S.

### Evaluating the Unknown

Technology and the tools that come with it will aid in the reduction and better usefulness of food waste in the next five years. Bowers said that as tools are developed and deployed to track and re-route unused or discarded food, we will better be able to capture it for human consumption, which should be our ultimate goal.

“Once that goal is met, we can divert the food to other causes, like animal feed and energy production,” Bowers said.

Bowers sees these innovations taking place at the retail and distribution levels, coming in the form of tracking devices that can divert food from becoming waste in the first place, as well as waste bin monitoring solutions that provide insight into exactly how much food actually makes it to the dumpsters.

“Additionally, converting to an anaerobic digestion of food waste will help deter the generation of methane gas in landfills. Lastly, the evolution of the circular economy will allow for front end tracking and diversion of food from where there is abundance to where there is scarcity or shortages, which is the ultimate win in the battle to reduce food waste in the U.S. and the world as a whole,” Bowers said.

Meccariello stressed that food waste recycling is the future as consumers want products that are made in a more sustainable fashion and more companies and cities are working toward zero-waste initiatives.

“This is similar to how recycling ultimately caught on and became commonplace,” Meccariello said. “We're excited about efforts by companies to use more compostable packaging, which would increase our options for processing food waste that is in packaging. We've invested in de-packaging technology to process more organic waste, but it is helpful for more food manufacturers to use packaging that is designed to be compostable.”

Kalb predicted consumers will shift from simply caring about sustainability to actually demanding it. Plus, they'll continue to show increased interest in seeing the specific impact their decisions making in terms of feeding families and diverting waste.

“On the company side, with new technology will come improved food waste recycling tracking and traceability, meaning retailers will be able to better report on their impacts, especially on a more granular level,” Kalb said. “The combination of growing consumer interest and company transparency means recycling programs will continue to flourish and become more widely accessible as demand rises.”



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## Events

### January 26th-27th

**VIRTUAL COMPOST2021.**  
[www.compostconference.com](http://www.compostconference.com)  
301-897-2715

### March 14th-17th

**Southeast Recycling Conference & Tradeshow/SERC.** Rosen Centre Hotel, Orlando, Florida.  
850-386-6280  
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### March 21st-23rd

**2021 C&D World Annual Convention.** AT&T Hotel and Conference Center, Austin, Texas.  
866-758-4721  
[www.cdrecycling.org](http://www.cdrecycling.org)

### March 30th-31st

**Northeast Recycling Council's Virtual Spring '21 Conference.** [www.nerc.org](http://www.nerc.org)



## RUBBER

# USTMA November forecast: U.S. 2020 tire shipment outlook improves from July

### NOVEMBER FORECAST: USTMA 2020 Projected Tire Shipments

ORIGINAL	2019	2020 Estimated	% Change	Units +/-
Passenger	46.3	36.8	-20.4	-9.5
Light Truck	5.9	4.8	-18.0	-1.1
Truck	6.5	4.6	-29.0	-1.9
<b>REPLACEMENT</b>				
Passenger	222.6	201.5	-9.5	-21.0
Light Truck	32.5	32.0	-1.8	-0.6
Truck	18.9	18.5	-2.1	-0.4
<b>TOTAL</b>	<b>332.7</b>	<b>298.3</b>	<b>-10.3</b>	<b>-34.4</b>

ALL SHIPMENTS IN MILLIONS. FIGURES ARE ROUNDED.

The U.S. Tire Manufacturers Association (USTMA) projects U.S. tire shipments will total 298.3 million units by the end of 2020, compared to 332.7 million units in 2019. This forecast represents a significant improvement of nearly 19 million units from the 2020 volume USTMA forecasted in July, reflecting industry resilience in the face of unprecedented challenges posed by the COVID-19 pandemic.

Compared to 2019, Original Equipment (OE) shipments for passen-

ger, light truck and truck tires are expected to decrease by 20.4 percent, 18.0 percent and 29.0 percent respectively, with a total reduction of 12.4 million units. Replacement passenger and light truck tire shipments are projected to decrease by 9.5 percent and 1.8 percent respectively, with truck tire replacement shipments showing a modest decline at 2.1 percent. The total unit reduction for replacement tires is projected to be 22.0 million units.

## Michelin to use RFID in all tires by 2023 for tracking

Michelin is using RFID to make tires that “communicate” by linking them to a more global ecosystem.

Michelin has been fitting some of its car tires with chips since mid-2019 and plans to equip every new car tire with the technology.

This condition monitoring will become increasingly important, especially for vehicles that are becoming more and more automated, according to Michelin.

The advantage of RFID technology is that it is a relatively cost-effective way of identifying tires throughout their lifecycle and very robust compared to many other smart sensors.

For example, RFID technology will enable advanced driver assistance systems to adapt to specific tire characteristics because of the reliable pairing of tire and vehicle. More specifically, a winter tire has different braking characteristics than a summer tire. These characteristics can have an influence on the driver assistance system, which attempts to prevent the vehicle from skidding at the limit in curves – both when understeering or oversteering – by braking individual wheels in a targeted manner, thus ensuring the driver remains in control.

RFID technology in the shop can help prevent incorrect fitting when changing tires, as each chip has an individual ID. This tire identification through the RFID chip ensures the correct tire dimension is transmitted to the onboard computer system. When the RFID chip is scanned, the tire data is displayed directly on the screen of the RFID reader and does not have to be checked by hand and eye. Finally, stock levels can be checked more efficiently by reading the tire data quickly, and the need for new tires can hence be adjusted more easily.

With the help of a RFID chip, errors in the production process – such as an incorrect tire/wheel/vehicle combination – can be tracked and production figures and stock levels compared in real time.

What is now taking hold in the car business has long been reality in the truck industry. Especially in the logistics industry, RFID technology has established itself as a perfect tool for checking the flow of goods and for effective tire management.

Michelin already equips up to 90 percent of all truck tires sold with identification technology and, in line with the car segment, all truck tires will be fitted with RFID chips by 2023.

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### BROKK OFFERS NEW DARDA MULTI CUTTER ATTACHMENT FOR STEEL

Brokk®, a manufacturer of remote-controlled demolition machines, offers a new steel cutting tool for mid-size Brokk machines. The MC300 Multi Cutter, manufactured by Brokk's sister company, Darda®, offers the highest cutting force with low weight.

The MC300 can be used on Brokk 200 and 300 models. It is 50" long, 12" wide and 21" high. Weighing in at only 639 lbs., it still has a cutting force of 60 tons. The MC300 also features a hydraulic 360° rotary drive for exact positioning and a 14" wide jaw opening to handle a variety of metals. The design also allows operators to sharpen rather than replace jaws.

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### DOOSAN OFFERS ITS LARGEST, MOST POWERFUL EXCAVATOR

Doosan Infracore North America has expanded its excavator lineup with its largest model yet. The new Doosan® DX800LC-7 excavator increases the company's footprint in the aggregate mining industry.

The crawler excavator's size makes it ideal for pit and quarry customers. It's also well-suited as a large machine for heavy construction and infrastructure work. It can efficiently remove overburden and load large amounts of material into trucks at quarries. On construction sites, the DX800LC-7 excavates, stockpiles or loads large amounts of material. The powerful machine makes these tasks go much faster.

**Doosan Infracore, LLC.**  
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### ELDAN SHRED SYSTEM DETECTS FOREIGN OBJECTS IN TIRE SHREDS

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The FOD system can detect both small and large metal objects and stones and the sensors can be adjusted to meet specific customer demands.

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### MECALAC SYSTEM ENABLES SPEED CONTROL FOR OPTIMAL USE

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## ALTERNATIVE ENERGY

# GE Renewable Energy signs agreement with Veolia to recycle wind turbine blades

GE Renewable Energy has signed a multi-year agreement with Veolia North America (VNA) to recycle blades removed from its U.S. based onshore turbines during upgrades and repowering efforts. Through this agreement, GE plans to recycle the majority of blades that are replaced during repowering efforts.

Veolia will process the blades for use as a raw material for cement, utilizing a cement kiln co-processing technology. VNA has a successful history of supplying repurposed engineered materials to the cement industry. Similar recycling processes in Europe have been proven to be effective at a commercial scale.

As a part of the agreement, blades that have been removed from turbines will be shredded at VNA's processing facility in Missouri and then used as a replacement for coal, sand and clay at cement manufacturing facilities across the US. On average, nearly 90 percent of the blade material, by weight, will be reused as a repurposed engineered material for cement production. More than 65 percent of the blade weight replaces raw materials that would otherwise be added to the kiln to create the cement, and about 28 percent of the blade weight provides energy for the chemical reaction that takes place in the kiln.

Anne McEntee, chief executive officer of GE Renewable Energy's Digital Services business, said "Sustainable disposal of composites such as wind turbine blades has been a challenge, not only for the wind turbine industry, but also for aerospace, maritime, automotive and construction industries. VNA's unique offering provides the opportunity to scale up and deploy quickly in North America, with minimum disruption to customers and significant benefit to the environment.

We look forward to working with them on this effort to create a circular economy for composite materials."

Wind turbine blades may be replaced through turbine improvement or 'repowering' efforts, when specific elements of the turbine are upgraded to improve the efficiency and lifespan of the turbine, without replacing the entire machine. Longer, lighter blades help the turbine to generate more energy every year, providing even more renewable energy to their end customers.

Bob Cappadona, chief operating officer for VNA's Environmental Solutions and Services division, said "By adding wind turbine blades which are primarily made of fiberglass to replace raw materials for cement manufacturing, we are reducing the amount of coal, sand and minerals that are needed to produce the cement, ultimately resulting in greener cement that can be used for a variety of products. Last summer we completed a trial using a GE blade, and we were very happy with the results. This fall we have processed more than 100 blades so far, and our customers have been very pleased with the product. Wind turbine blade repurposing is another example of Veolia's commitment to a circular economy and ecological transformation in which sustainability and economic growth go hand in hand."

Recycling decommissioned wind turbine blades into cement production will aid the cement industry in its efforts to decarbonize. Likewise, GE Renewable Energy is committed to reducing environmental impacts throughout the life cycle of its products, including by announcing an ambitious pledge in 2019 to decarbonize its operations and achieve carbon neutrality by the end of 2020.

**Q:** Why did the turkey cross the road twice?

**A:** To prove he wasn't a chicken!

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**AUTO**

# Motor fuel demand plunges 19.3 percent from 2019

U.S. motorists stayed off the road during the Thanksgiving holiday in overwhelming numbers as the coronavirus surged across the country, according to the latest weekly survey of retail fuel stations by OPIS, an IHS Markit company.

Gasoline sales fell a staggering 8.4 percent (nearly 185 million less gallons) from the previous week for the 7 day period ending November 28, bringing consumption to the lowest level for a Thanksgiving Week in 23 years, going back to 1997.

“As we come out of Thanksgiving and look ahead to Christmas and the New Year, gasoline sales show that additional waves of the coronavirus are very much impacting travel decisions,” said Tom Kloza, executive director, IHS Markit and a veteran analyst of North American fuel trends. “We’re heading toward a 90-day period where gasoline demand gets further crimped by winter weather and post-holiday cocooning. By January, we may regularly see demand numbers not witnessed since the last century.”

“This unprecedented drop in gasoline demand registers caution that has gripped the nation and led many people to avoid the traditional large family Thanksgiving dinner as the virus wave smashes across the country,” said Daniel Yergin, vice chairman, IHS Markit and author of *The New Map*. “We likely won’t see a turnaround until the wave breaks and the new vaccines are deployed.”

The OPIS survey tracks actual gallons moved out of retail stations and it features sharper losses than those reported by the Energy Information Administration (EIA). EIA measures movement of gasoline from primary stocks, while the OPIS survey tracks actual weekly sales at nearly 25,000 stations.

Year-on-year comparisons are even more dramatic at the regional level, with some regions seeing

declines of 20 percent or more from Thanksgiving Week 2019.

Data within the OPIS report shows considerable variation across the country.

•Northeastern gasoline sales dropped 10.1 percent during the week with the year-on-year loss at a gaping 25.9 percent.

•The Rockies saw the smallest slide (5.6 percent) but that is substantial enough to dramatically impact supply and demand balances as winter approaches.

•California was measured with a year-on-year loss of 17.3 percent, but that gap is likely to grow thanks to tough new stay-at-home restrictions. For decades, the Golden State led all U.S. states in consumption of gasoline, but that torch has been passed to Texas, which finds smaller year-on-year volume declines of 15.8 percent.

•New Jersey is the hardest hit state, with gasoline volumes plunging by nearly 30 percent from 2019.

•The Midwest was off 23.3 percent versus last year, led by Illinois which saw a year-on-year deficit of 26 percent.

•Only two states – Wyoming and Utah – are outliers with gasoline consumption rising year-on-year by 0.2 percent and 1.1 percent, respectively.

The data speaks to a major problem for the petroleum industry and oil prices as it recovers from unprecedented demand declines for most of 2020.

“A persistent rebound in global oil markets requires profitability in transportation products,” said Fred Rozell, president, OPIS by IHS Markit. “But that won’t happen until demand recovers.”

OPIS DemandPro updates gasoline retail sales every week and breaks it down nationally, regionally and by state. It is the only tool that enables North American traders, marketers and investors to measure actual gasoline demand on a granular level.

# Ford makes operational changes for quicker goal achievement

Ford is continuing to streamline and transform its global business, making changes in how the company is organized and operates to deliver executive excellence that benefits customers and delivers sustained profitable growth.

Ford plans to move with urgency to turn around its automotive operations and will grow by:

•Allocating more capital, resources and talent to its strongest businesses and vehicle franchises

•Expanding its leading commercial vehicle business with a suite of software services that drive loyalty and recurring revenue streams

•Offering compelling, uniquely Ford fully electric vehicles at scale around the world, including Transit, F-Series, Mustang, SUVs and Lincoln

•Adding more affordable vehicles to its global lineup, including in North America

Ford is making changes to its operating model to help deliver on these priorities, including:

•Concentrating decision making and accountability around product and customer groups in three regional business units – The Americas and International Markets; Europe; and China

•Accelerating innovation to be a leader in new businesses such as autonomous vehicles and mobility

•Harnessing expertise in industrial platforms to develop world-class connected vehicles

•Unleashing technology and software in ways that set Ford apart from competitors


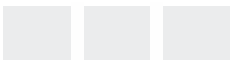
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# METALS

## Steel imports decrease

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
*Preliminary	OCT 2020*	SEP 2020	2020 (annualized)	2019 (12 months)	% Change 2020 Annual vs. 2019
<b>SOUTH KOREA</b>	146	124	1,997	2,576	-22.5%
<b>JAPAN</b>	78	59	798	1,242	-35.7%
<b>GERMANY</b>	67	52	710	1,043	-31.9%
<b>TURKEY</b>	68	7	595	328	-25.7%
<b>TAIWAN</b>	24	58	584	830	81.5%
<b>BRAZIL</b>	34	33	536	534	-29.6%
<b>NETHERLANDS</b>	28	33	391	550	0.4%
<b>CHINA</b>	33	20	382	544	-28.8%
<b>All Others</b>	765	782	10,340	13,405	-22.9%
<b>TOTAL</b>	1,244	1,167	16,334	21,051	-22.4%

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 1,502,000 net tons (NT) of steel in October 2020, including 1,244,000 NT of finished steel (up 19.6 percent and 6.6 percent, respectively, vs. September final data). Through the first 10 months of 2020, total and finished steel imports are 19,149,000 and 13,612,000 NT, down 22.8 percent and 25.9 percent, respectively, vs. the same period in 2019. Annualized total and finished steel imports in 2020 would be 23.0 and 16.3 million NT, down 17.7 percent and 22.4 percent, respectively, vs. 2019. Finished steel import market share was an estimated 18 percent in October and is estimated at 18 percent over the first ten months of 2020.

Key finished steel products with a significant increase in imports in October compared to September are oil

country goods (up 105.9 percent), reinforcing bars (up 95.4 percent), cold rolled sheets (up 41.2 percent), heavy structural shapes (up 37.1 percent), wire rods (up 35.8 percent), hot rolled bars (31.3 percent) and wire drawn (up 16.2 percent).

In October the largest volumes of finished steel imports from offshore were from South Korea (146,000 NT, up 17 percent from September final), Japan (78,000 NT, up 32 percent), Turkey (68,000 NT, up 943 percent), Germany (67,000 NT, up 31 percent) and Brazil (34,000 NT, up 5 percent). For the first ten months of 2020, the largest offshore suppliers were South Korea (1,664,000 NT, down 25 percent vs. the same period in 2019), Japan (665,000 NT, down 39 percent), Germany (592,000 NT, down 35 percent), Turkey (496,000 NT, up 75 percent) and Taiwan (487,000 NT, down 37 percent).

## Crude steel production increased in October 2020

World crude steel production for the 64 countries reporting to the World Steel Association (worldsteel) was 161.9 million tonnes (Mt) in October 2020, a 7.0 percent increase compared to October 2019. Due to the ongoing difficulties presented by the COVID-19 pandemic, many of this month's figures are estimates that may be revised with next month's production update.

In Asia, China produced 92.2 Mt of crude steel in October 2020, an increase of 12.7 percent compared to October 2019. India produced 9.1 Mt of crude steel in October 2020, up 0.9 percent on October 2019. Japan produced 7.2 Mt of crude steel in October 2020, down 11.7 percent on October 2019. South Korea's crude steel production for October 2020 was 5.9 Mt, down by 1.8 percent on October 2019.

In the European Union, Germany produced 3.4 Mt of crude steel in Octo-

ber 2020, up 3.1 percent on October 2019. Italy produced 2.1 Mt of crude steel in October 2020, down 4.6 percent on October 2019. Spain produced 1.1 Mt of crude steel in October 2020, down 7.7 percent on October 2019.

In North America, the U.S. produced 6.1 Mt of crude steel in October 2020, a decrease of 15.3 percent compared to October 2019.

In the C.I.S., production is estimated to be 8.4 Mt in October 2020, up 4.7 percent on October 2019. Ukraine produced 1.7 Mt of crude steel in October 2020, up 5.9 percent on October 2019.

Turkey's crude steel production for October 2020 was 3.2 Mt, up by 19.4 percent on October 2019.

In South America, Brazil produced 2.8 Mt of crude steel in October 2020, up 3.5 percent on October 2019.

## Demand for scrap metals is up

A recent uptick in prices for scrap metals along with a booming market for virgin metals signals a growing market. Prices for copper have risen to their highest level in almost eight years. Iron ore, the main ingredient of steel, is one of the best-performing assets in 2020. Other raw materials, such as aluminum and zinc, have added roughly 15 percent since the end of September and 40 percent or more since mid-May reported Waste Business Journal.

Demand for scrap metals should be helped by an increased focus on sustainability as more companies seek to tout their use of recycled material in their products and structures. Second-

ary aluminum production has a carbon footprint five to 25 times lower than primary metal production.

Industrial metals are the building blocks of construction. Their prices are particularly sensitive to manufacturing activity in China because the country accounts for roughly half of global demand for copper and other materials. The faster-than-expected recovery there has sparked a reversal in prices, which had languished in recent years due to trade tensions. The Standardization Administration of China recently approved previously published definitions for grades of ferrous and stainless-steel scrap that will reclassify them from a "waste" to a "resource."

## New Day Aluminum launches strategic initiatives at their refinery

New Day Aluminum Holdings and its parent company, DADA Holdings, are in discussions with a number of potential global partners on various strategic initiatives to materially expand its capabilities and further secure the long term sustainability of its Louisiana-based alumina refinery.

These initiatives range in scope from a major shift in its bauxite residue capabilities on its path to becoming a


zero-residue refinery, to a number of potential ventures with major industry players to continue to build on Gramercy's metallurgical and non-metallurgical product capabilities and capacities. While most of these initiatives are associated with its refinery, some would potentially involve the company's Jamaican bauxite operations and specialty businesses in the U.S. and Europe.




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$275.00	289.00	290.00	315.00	387.00
#1 Bundles	per gross ton	264.00	286.00	245.00	281.00	362.00
Plate and Structural	per gross ton	284.00	271.00	305.00	279.00	364.00
#1 & 2 Mixed Steel	per gross ton	198.00	263.00	275.00	261.00	330.00
Shredder Bundles (tin)	per gross ton	131.00	135.00	179.00	159.00	175.00
Crushed Auto Bodies	per gross ton	131.00	135.00	179.00	159.00	175.00
Steel Turnings	per gross ton	97.00	97.00	98.00	135.00	169.00
#1 Copper	per pound	2.99	2.89	3.14	3.16	3.29
#2 Copper	per pound	2.71	2.67	3.03	2.91	3.12
Aluminum Cans	per pound	.49	.51	.55	.57	.56
Auto Radiators	per pound	1.49	1.45	1.74	1.78	1.85
Aluminum Core Radiators	per pound	.49	.47	.51	.41	.53
Heater Cores	per pound	1.05	1.07	1.20	1.09	1.61
Stainless Steel	per pound	.56	.57	.59	.57	.63

All prices are expressed in USD. Printed as a reader service only.

**DISCLAIMER:** American Recycler (AR) collects pricing and other information from experienced buyers, sellers and facilitators of scrap metal transactions throughout the industry. All figures are believed to be reliable and represent approximate pricing based on information obtained by AR (if applicable) prior to publication. Factors such as grades, quality, volumes and other considerations will invariably affect actual transaction prices. Figures shown may not be consistent with pricing for commodities associated with a futures market. While the objective is to provide credible information, there is always a chance for human error or unforeseen circumstances leading to error or omission. As such, AR is not responsible for the accuracy or completeness of the information provided, or for outcomes arising from use of this information. American Recycler disclaims any liability to any person or entity for loss or damage resulting from errors or omissions, including those resulting from negligence of AR, its employees, agents or other representatives.



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## PAPER

## DS Smith to launch virus resistant packaging

DS Smith, a sustainable packaging company, announced an exclusive partnership with the company Touchguard to develop a new range of sustainable cardboard packaging to protect consumers against potentially harmful bacteria.

While there is no evidence of virus transfer from cardboard, Touchguard's patented technology is effective against a number of bacteria and viruses, including envelope viruses, of which COVID-19 is a member. The coating can be applied at scale across a range of applications, providing an additional layer of protection for consumers and workers throughout the supply chain.

Recent surveys by DS Smith have found growing retail and consumer interest in products with hygienic packaging, especially amid the pandemic that has boosted e-commerce nationwide and increased demand for shipping boxes.

The product has not been tested on COVID-19 cultures at this stage, but on feline coronavirus, part of the same family of viruses as COVID-19 in which its outermost layer and spikes attach and replicate to host cells. Touchguard disrupts the envelope to prevent the virus from replicating, effectively mitigating the risk of person-to-person transfer.

It has a proven kill rate of 99.5 percent in under 15 minutes on bacteria

types and envelope viruses and eliminates the risk of person-to-person transfer of infections, such as MRSA and E. coli.

DS Smith is looking to use the technology across its operations in North America and Europe. As more shoppers flock online for their holiday shopping, this proven technology will further build consumers' confidence around handling packaging in their homes.

"Our partnership with DS Smith provides us with an opportunity to bring our patented Touchguard technology to the market at scale through its sustainable packaging offer. With its manufacturing reach across Europe and the U.S. and an extensive e-commerce and fast-moving consumer goods customer base, we will be able to offer a range of solutions to support changing consumer habits," said Julian Dugdale, the inventor and chief executive officer of Touchguard, based in the UK.

The new range promises to support the sustainable packaging market with potential scope across a variety of areas, including e-commerce and food packaging, while still being 100 percent recyclable. The Touchguard coating and packaging will hold certification to AATCC100 (MOD), ISO18184:2019 (MOD) and complies with BfR36 recommendations for food-contact materials.

## AF&PA updates paper reports

The American Forest & Paper Association released its October 2020 U.S. paper reports.

### Containerboard

Total Containerboard production in October increased three percent compared to October 2019. It was up four percent when compared to the same 10 months of 2019.

•October 2020 production of containerboard for export decreased 13 percent compared to the same month last year; it was up 15 percent year-to-date.

### Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased 24 percent in October compared to October 2019. U.S. purchases of total printing-writing papers decreased 21 percent in October compared to the same month last year. Total printing-writing paper inventory levels decreased two percent when compared to September 2020.

•U.S. purchases of uncoated free sheet (UFS) papers in October decreased 18 percent compared to last October while the inventory level decreased two percent compared to September 2020. UFS imports and exports both decreased compared to September 2019, down seven percent and 38 percent respectively.

•Coated free sheet (CFS) paper shipments decreased 16 percent compared to October 2019 while the inventory level decreased four percent compared to September 2020. CFS

imports and exports both decreased compared to September 2019, down 34 percent and 14 percent respectively.

•U.S. purchases of coated mechanical (CM) papers in October decreased 40 percent compared to last October while the inventory level decreased four percent compared to September 2020. CM imports decreased 20 percent while exports increased 35 percent in September 2020.

### Boxboard

Total Boxboard production in October decreased two percent compared to October 2019. It was down three percent when compared to the same 10 months of 2019. The boxboard operating rate was 93.6 percent, up 0.8 points from October 2019 and down 0.6 points year-to-date.

•Solid Bleached Boxboard production in October increased one percent compared to October 2019. It was down six percent when compared to the same 10 months of 2019.

•Recycled Boxboard production in October decreased five percent compared to October 2019. It was down two percent when compared to the same 10 months of 2019.

### U.S. Packaging Papers & Specialty Packaging

Total packaging papers & specialty packaging shipments in October increased four percent compared to October 2019. They were up four percent when compared to the same 10 months of 2019.

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# EQUIPMENT SPOTLIGHT

## Conveyors

by **MARY M. THORNTON**

*maryt@americanrecycler.com*

Organic material can be recycled into soil amendments like compost, mulch and liquid fertilizers, as well as biofuel – a renewable natural gas. This helps to keep valuable materials out of landfills. About 30 percent of what we usually throw away is organic, including food scraps and food-soiled paper products. Specialized recycling facilities use an array of equipment to process these materials. Conveyors are often among the equipment involved, as they are a robust and versatile method of transporting large amounts of bulk material.

Since 1972, Action Equipment Company has been designing and manufacturing vibratory conveyors, feeders and screeners for the wood products and recycling industries. Action's complete line of heavy duty vibratory conveyors is custom designed by dedicated engineers to perform in the toughest of environments. Action's vibratory conveyors are efficient machines for feeding a variety of process equipment like chippers, hogs, grinders, and shredders. Custom spouts can be made to fit all of the aforementioned equipment to eliminate spillage at the transfer point.



Action Equipment Company, Inc.

"Every unit we manufacture is specifically designed with the customers' needs in mind. Conveyors are sized per application to fit the quantity of material being handled, incorporate material processing needs, and to fit the space available for the equipment," explained Jai Cook, sales vice president. He also described how the trough design of their equipment conveyance surface allows units to carry bulk materials without spillage. The trough also allows for the incorporation of screens, magnetic traps, fiberglass sections for metal detection, dividers for product separation, fins for orientation, and nonferrous sections for overhead magnetic separators, hooding, and many more customizable options. Made in America, conveyors can also be balanced and isolated to eliminate vibration in the floor and surrounding equipment. Run off a single electric motor, the vibratory conveyor is energy efficient and has very low maintenance.

Andela Products offers pulverizers, crushers, trommel screens and conveyors, along with stands, supports/platforms, electrical controls and magnets. All items can be integrated for use as part of a complete sys-



Andela Products

tem. "We provide solutions, not just equipment," stated Cynthia Andela, president. "Our unique technology will selectively reduce glass, ceramics, gypsum board and compost overs into fine products. Via the trommel screen, the plastics, paper and metals in their original form are separated from the finer material. Andela's flexible and purpose driven design for recycling equipment includes durability and ease of maintenance. If you need a reasonable price on a durable conveyor that will last in an abrasive, wet, and corrosive environment, we can provide you with equipment designed for your unique operations and products. We provide conveyors as an integral part, sold individually or as part of a complete system with processing capacities ranging from 1 ton per hour to 20 tons per hour."

Andela noted that the recycling industry continuously strives to process materials that often are still also sent to a landfill, when instead those materials could be used to make products that could be beneficial to communities. As an example, compost can be an important soil amendment because it can be combined with recycled glass sand to make an organics-based blended soil.

Glass sand is produced by Andela glass pulverizer systems and can add angular, hard, high-filtration rate "sand" to compost. "We provide solutions for the waste glass and organics industries. We've manufactured recycling equipment for over 25 years here in America and we offer parts and service as well," Andela said.

Redwave, a plant builder for the recycling and mining industries, manufactures acceleration conveyors for sensor based sorting systems. "We offer a line of troughed (MGF), sliding belt (GGF) and chain belt (KGF) conveyors for material handling tasks throughout an entire recycling plant. Depending on the material to be conveyed and the application, our conveyors can carry anywhere from a few hundred pounds to over 40 tons per hour and can be supplied in lengths of over 170 ft. long. As a recycling plant builder, we are able to design and build conveyors to accommodate existing plant space constraints using modular construction, which also provides flexibility for future changes in recycling processes. This results in a significant reduction of a plant footprint. Our experience in plant design enables

See CONVEYORS, Page 14

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—Manufacturers List Continued

**ACTION**  
VIBRATORY EQUIPMENT



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& Separate with **ACTION!**  
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# BUSINESS BRIEFS

## Timken invests in wind and solar energy markets

■ The Timken Company, a leader in engineered bearings and power transmission products, announced more than \$75 million in capital investments through early 2022 to increase the company's renewable energy capabilities across its global footprint.

To serve Timken's global renewable energy customers, the company has developed an extensive network of engineering and innovation centers and manufacturing facilities located throughout the U.S., Europe and Asia. Timken will use the announced \$75 million investment to:

- Expand its state-of-the-art and LEED-certified manufacturing facility in Xiangtan, China, where it makes engineered bearings for wind turbines.

- Continue to scale-up its production capacity at sites in Wuxi, China and Ploiesti, Romania, where Timken manufactures engineered bearings for wind turbines.

- Consolidate multiple sites into a new, larger campus in Jiangyin, China, to increase production capacity, broaden the product range and improve productivity for precision drives used in the solar energy market.

Timken's wind energy product portfolio includes engineered bearings, lubrication systems, couplings and more. Timken has been active in the wind market for more than 10 years and is now a critical design and manufacturing partner to many of the world's largest turbine and drive manufacturers.

## Mike Huycke named vice president at Leadpoint

■ Leadpoint Business Services, a provider of work teams and operations support services to the recycling industry, announced recycling industry veteran Mike Huycke has joined the company as vice president, business development.

Huycke has extensive experience in recycling and waste industry operations, including nearly 25 years with Republic Services. Most recently, he was senior vice president of human resources at Republic, where he oversaw all aspects of the company's vast talent organization. He previously served as Republic's Northwest area president with responsibility for operations, market development, compliance and labor relations, safety and customer experience.

Huycke is a graduate of Willamette University where he earned his Bachelor of Science degree in business economics. Huycke is based at Leadpoint's Phoenix headquarters.

## BIR appoints chairman of E-Scrap Committee

■ BIR president Tom Bird has appointed Dr. Helmut Kolba of Remondis Electrorecycling GmbH as chairman of the E-Scrap Committee.

Dr. Kolba is managing director of Remondis Electrorecycling GmbH, which he joined in 2010. He also worked for Sony Austria as managing director as well as for UFH, Austria's largest compliance scheme for WEEE. During his time with UFH he also served as chairman of the WEEE Forum. Dr. Kolba is a trained lawyer and started his professional career working for insurance groups Allianz and UNIQA.

Remondis is one of the largest recycling, service and water companies. With over 30,000 employees and 900 business locations on 4 continents, the group serves more than 30 million people and many thousands of companies.

## Kevin Dempsey appointed Steel Association CEO

■ The American Iron and Steel Institute (AISI) board of directors named Kevin Dempsey as president and chief executive officer of the AISI.

Dempsey had been serving as interim president and chief executive officer since June when he was appointed to succeed Thomas J. Gibson. Prior to that appointment, Dempsey had served as AISI's senior vice president for public policy and general counsel since 2009.

Before joining AISI, Dempsey was a partner at Dewey & LeBoeuf, a global law firm, and its predecessor Dewey Ballantine LLP., and had served on Capitol Hill as counsel to Senator John C. Danforth (R-MO) and the U.S. Senate Committee on Commerce, Science and Transportation.

## Yanmar selects new commercial director

■ Yanmar Compact Equipment North America announced Tate Johnson as commercial director. Johnson will be responsible for channel development, sales and national accounts for Yanmar and ASV compact equipment in North America. He will focus on expanding the availability of compact equipment products and brings more than 20 years of experience to the organization.

# Conveyors

Continued from Page 13



Redwave Solutions US

us to provide the best possible system for efficient and trouble free operation. As a service provider for customer plant maintenance, we appreciate the need for equipment with a high degree of ease of maintenance. Removable cladding panels, under belt guards and auto lubrication systems are just a few of the elements we incorporate to achieve this goal," said Parker Pruett, sales manager.

Pruett continued, "With the uncertain nature of recycled commodities pricing, equipment cost is always key to customer needs. However, total cost of ownership is ultimately the most important value. Most recycling companies expect equipment to have a usable service life of 10 to 20 years. To achieve this, equipment must withstand the challenging environment of recycling facilities. Heavy duty belting, stainless steel slider beds and frames engineered for high torsional rigidity provide long lasting operation with minimum maintenance.

Our latest conveyor developments are focused on integrating our AI platform Redwave Mate, to optimize performance in customer plants. Additional sensors for our Mate AI

suite are integrated in slider bed conveyors for real-time scanning of conveyed materials to monitor and adjust sorting, based on changes in input materials. Durability, innovation and ease of use should all be considered when choosing conveying equipment for your plant and at Redwave, we believe in technological advancement through progress for every element in the modern recycling system."

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## MANUFACTURERS Continued

**Redwave Solutions US**  
Parker Pruett  
470-699-1667  
www.redwave.com

**Screen Machine Industries, Inc.**  
Tim Miller  
740-927-3464  
www.screenmachine.com

**Sherbrooke O.E.M. Ltd**  
Ian Levasseur  
819-678-1370  
www.sherbrooke-oem.com



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## Material Handlers

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## Miscellaneous

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## Shredders

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200 hp Shredder + Magnetic Drum Separator + 3 Conveyors

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FOB Milwaukee



**EQUIPMENT INTERNATIONAL  
303-699-7766**

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## Glass Processing

### American Pulverizer Jaw Crusher



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## Containers

### BomacCarts

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## Material Handlers

### 2003 E-Z Crusher Auto Logger



Side-load auto logger in good shape!

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### 2012 Harris 60 x 90 Hammermill Shredder



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## FEBRUARY

FOCUS:  
**Rubber**

EQUIPMENT SPOTLIGHT:

**Derimmers/Shears**

Close Date: 01/18

## MARCH

FOCUS:  
**Automotive**

EQUIPMENT SPOTLIGHT:

**Auto Crushers**

Close Date: 02/15

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20 YEARS OF EXPERIENCE



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15 YEARS OF EXPERIENCE



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**LARRY DONNAY, SALES EASTERN STATES**  
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**KELLY DANDELKE, PLANT MANAGER**  
20 YEARS OF EXPERIENCE



**JERRY SCHMIDT, SHIPPING & RECEIVING**  
15 YEARS OF EXPERIENCE



**DENNIS HUHN, SERVICE SPECIALIST**  
25+ YEARS OF EXPERIENCE



**PETER VOSSEN, SPECIAL PROJECTS MANAGER**  
30 YEARS OF EXPERIENCE



**JEFF STUCKELBERG, ROBOTICS WELDER**  
15 YEARS OF EXPERIENCE





# AMERICAN RECYCLER BUYER'S GUIDE

SECTION B

www.AMERICANRECYCLER.com

JANUARY 2021

## Aluminum & Steel Processing

### BALERS & CRUSHERS

Al-Jon by C&C Mfg  
 American Baler Company  
 CPM Di Piu Systems  
 DeHart Recycling Equipment, Inc.  
 DJS Enterprises, LLC  
 Ely Enterprises Inc.  
 E-Z Crusher/R.M. Johnson Company  
 Grigas Brothers, Inc.  
 Harris Equipment  
 International Baler  
 Iron Ax  
 Langston Companies, Inc.  
 National Association Supply  
 Co-Operative, Inc. (NASCO-OP)  
 OBC Industrial  
 S3 Software Solutions  
 Sebright Products Inc.  
 Sierra International Machinery, LLC  
 Vortex De-Pollution & Recycling Equipment

### DENSIFIERS & FLATTENERS

CPM Di Piu Systems  
 DeHart Recycling Equipment, Inc.  
 DJS Enterprises, LLC  
 Ely Enterprises Inc.  
 E-Z Crusher/R.M. Johnson Company  
 Harris Equipment  
 International Baler  
 Maren Balers & Shredders  
 OBC Industrial  
 Sicon America LP  
 Sierra International Machinery, LLC  
 SP Industries Inc.  
 Vortex De-Pollution & Recycling Equipment

### SHREDDERS

Al-Jon by C&C Mfg  
 American Cutting Edge  
 BCA Industries  
 CM Shredders  
 DADE Auctions, Inc.  
 DeHart Recycling Equipment, Inc.  
 DJS Enterprises, LLC  
 Ely Enterprises Inc  
 Granutech-Saturn Systems  
 Harris Equipment  
 National Association Supply  
 Co-Operative, Inc. (NASCO-OP)  
 OBC Industrial  
 Shred-Tech  
 Sicon America LP  
 UNTHA America  
 Vortex De-Pollution & Recycling Equipment  
 WEIMA America, Inc.

### OTHER ALUMINUM & STEEL PROCESSING

Bateman Manufacturing  
 Bomac Carts  
 CM Shredders  
 CPM Di Piu Systems  
 Crow Environmental  
 DeHart Recycling Equipment, Inc.  
 DJS Enterprises, LLC  
 Ely Enterprises Inc  
 E-Z Crusher/R.M. Johnson Company  
 Granutech-Saturn Systems  
 Langston Companies, Inc.  
 Mallin Companies, Inc.  
 OBC Industrial  
 Philippi-Hagenbuch  
 Recycling Services Intl, LLC  
 ScrapGo LLC  
 Sierra International Machinery, LLC

## Auctions

### AUCTIONS

DADE Auctions, Inc.  
 Rosen Systems

## Automotive Recycling

### BALERS & CRUSHERS

Al-Jon by C&C Mfg  
 DJS Enterprises, LLC  
 Ely Enterprises Inc.  
 Equipment International  
 E-Z Crusher/R.M. Johnson Company  
 Imabe of America  
 Interstate Batteries Recycling, LLC  
 Iron Ax  
 National Association Supply  
 Co-Operative, Inc. (NASCO-OP)  
 OBC Industrial  
 OVB Holdings LLC dba OverBuilt  
 Recycling Services Intl, LLC  
 S3 Software Solutions  
 Sicon America LP  
 Sierra International Machinery, LLC

### OTHER AUTOMOTIVE RECYCLING

Al-Jon by C&C Mfg  
 Bateman Manufacturing  
 Blackburn OEM Wheel Solutions  
 Bomac Carts  
 Builtrite Manufacturing  
 Bunting  
 Burco Inc.  
 Crow Environmental  
 DJS Enterprises, LLC  
 Equipment International  
 E-Z Crusher/R.M. Johnson Company  
 Harris Equipment  
 Imabe of America  
 Interstate Batteries Recycling, LLC  
 Iron Ax  
 Kobelco Construction Machinery USA  
 National Association Supply  
 Co-Operative, Inc. (NASCO-OP)  
 OBC Industrial  
 S3 Software Solutions  
 SAS Forks  
 ScrapGo LLC  
 Supershear, Inc.  
 swissRTec America, Inc.  
 UNTHA America  
 Vortex De-Pollution & Recycling Equipment  
 WEIMA America, Inc.

## Conveyors

### BELTS

Andela Products  
 Bunting  
 Coperion  
 Ely Enterprises Inc.  
 Excel Manufacturing, Inc.

Harris Equipment  
 Karl Schmidt Manufacturing, Inc.  
 Mallin Companies, Inc.  
 Maren Balers & Shredders  
 National Association Supply  
 Co-Operative, Inc. (NASCO-OP)  
 OBC Industrial  
 Precision Husky  
 Redwave Solutions US LLC  
 Sebright Products Inc.  
 Sierra International Machinery, LLC  
 Van Dyk Recycling Solutions  
 Virtus Equipment  
 Vortex De-Pollution & Recycling Equipment  
 Warren & Baerg Manufacturing, Inc.  
 Zerma-America

### BULK HANDLING EQUIPMENT

Action Equipment Company Inc.  
 BCA Industries  
 Bunting  
 CM Shredders  
 Coperion  
 DJS Enterprises, LLC  
 Ely Enterprises Inc.  
 Hallco Industries, Inc.  
 International Baler  
 Karl Schmidt Manufacturing, Inc.  
 Kenco Corporation  
 Maren Balers & Shredders  
 OBC Industrial  
 Redwave Solutions US LLC  
 Sherbrooke OEM  
 Van Dyk Recycling Solutions

### PNEUMATIC

Coperion  
 Ely Enterprises Inc.  
 Mallin Companies, Inc.  
 OBC Industrial  
 Vortex De-Pollution & Recycling Equipment

### VIBRATING

Action Equipment Company Inc.  
 BCA Industries  
 Bunting  
 CM Shredders  
 Coperion  
 Ely Enterprises Inc.  
 Mallin Companies, Inc.  
 OBC Industrial  
 Precision Husky

### OTHER CONVEYORS

Action Equipment Company Inc.  
 American Baler Company  
 BCA Industries  
 CM Shredders  
 Coperion  
 Ely Enterprises Inc.  
 Hallco Industries Inc.  
 Imabe of America  
 International Baler  
 Karl Schmidt Manufacturing, Inc.  
 Keith Manufacturing Co.  
 National Association Supply  
 Co-Operative, Inc. (NASCO-OP)  
 OBC Industrial  
 Precision Husky  
 Sierra International Machinery, LLC  
 Warren & Baerg Manufacturing, Inc.

## E-Scrap Processing

### AUTOMATED SORTATION

Ely Enterprises Inc.  
 OBC Industrial  
 Redwave Solutions US LLC  
 Sicon America LP

Van Dyk Recycling Solutions

### CRT EQUIPMENT (GLASS CUTTING & SEPARATION)

Andela Products  
 OBC Industrial  
 Sicon America LP  
 swissRTec America, Inc.  
 UNTHA America

### SHREDDERS

BCA Industries  
 OBC Industrial

### OTHER E-SCRAP PROCESSING EQUIPMENT

American Cutting Edge  
 Andela Products  
 BCA Industries  
 Bomac Carts  
 DJS Enterprises, LLC  
 Ely Enterprises Inc.  
 Granutech-Saturn Systems  
 International Baler  
 Langston Companies, Inc.  
 OBC Industrial  
 Philippi-Hagenbuch  
 Sicon America LP  
 swissRTec America, Inc.  
 TOMRA Sorting Recycling  
 UNTHA America

## Glass Processing

### CRUSHERS

Andela Products  
 OBC Industrial  
 Sebright Products Inc.

### PROCESSING PLANTS

Andela Products  
 CM Shredders  
 OBC Industrial  
 Redwave Solutions US LLC  
 Sherbrooke OEM  
 Van Dyk Recycling Solutions

### PULVERIZERS & GRINDERS

Andela Products  
 Granutech-Saturn Systems  
 OBC Industrial  
 Shred-Tech  
 TORXX Kinetic Pulverizer Limited

### OTHER GLASS PROCESSING

Andela Products  
 Bomac Carts  
 CM Shredders  
 OBC Industrial  
 Philippi-Hagenbuch  
 TOMRA Sorting Recycling

## Loaders & Forks

### AUTO SALVAGE FORKS

Bateman Manufacturing  
 National Association Supply  
 Co-Operative, Inc. (NASCO-OP)  
 SAS Forks

### BUCKET FORKS

Kenco Corporation  
 Mecalac North America  
 SAS Forks

### MINI LOADERS

Mecalac North America  
 SAS Forks

### WHEEL LOADERS

Mecalac North America  
 SAS Forks

SEE ALPHABETICAL COMPANY DETAILED LISTINGS STARTING ON PAGE B3.

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high capacity balers

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 marenengineering.com + sales@marenengineering.com



**SKID STEER LOADERS & FORKS**

Bateman Manufacturing  
Mecalac North America  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)

**OTHER LOADERS & FORKS**

Bateman Manufacturing  
Bomac Carts  
CPM Di Piu Systems  
Kenco Corporation  
Mecalac North America  
Precision Husky  
SAS Forks  
Sellick Equipment LTD.

**Material Handlers  
& Processing****AIR CLASSIFIERS**

Action Equipment Company Inc.  
Ely Enterprises Inc.  
Mallin Companies, Inc.  
SICON America LP  
Van Dyk Recycling Solutions

**AIR KNIVES**

Action Equipment Company Inc.  
SICON America LP

**GRAPPLES**

Bateman Manufacturing  
Builrite Manufacturing  
Equipment International  
Indeco North America  
Iron Ax  
Kenco Corporation  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
Precision Husky  
Sierra International Machinery, LLC

**MAGNETS & MAGNETIC SEPARATORS**

Action Equipment Company Inc.  
BCA Industries  
Bateman Manufacturing  
Bunting  
CM Shredders  
Ely Enterprises Inc.  
Equipment International  
Iron Ax  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
OBC Industrial  
Puritan Magnetics, Inc.  
Sennebogen LLC  
Sherbrooke OEM  
SICON America LP  
Van Dyk Recycling Solutions

**OPTICAL SORTERS**

OBC Industrial  
Redwave Solutions US LLC  
Sherbrooke OEM  
SICON America LP  
TOMRA Sorting Recycling  
Van Dyk Recycling Solutions

**SCREENS**

Action Equipment Company Inc.  
Andela Products  
BCA Industries  
Ely Enterprises Inc.  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
OBC Industrial  
Sherbrooke OEM  
SICON America LP  
Van Dyk Recycling Solutions

**WEIGHING & HANDLING EQUIPMENT**

Builrite Manufacturing  
Cardinal Scale Manufacturing Co.  
Coperion  
Equipment International  
Kobelco Construction Machinery USA  
Maren Balers & Shredders  
OBC Industrial  
Sennebogen LLC

**OTHER MATERIAL HANDLING & PROCESSING**

Bateman Manufacturing  
Bomac Carts  
DADE Auctions, Inc.  
Ely Enterprises Inc.  
International Baler  
Interstate Batteries Recycling, LLC  
Iron Ax  
Kenco Corporation  
Langston Companies, Inc.  
Leadpoint Business Services  
Mecalac North America  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
OBC Industrial  
Philippi-Hagenbuch  
SAS Forks  
Sennebogen LLC  
UNTHA America

**Metal Processing****BALERS (VERTICAL & HORIZONTAL)**

AI-Jon by C&C Mfg  
American Baler Company

Andritz ASKO Inc.  
DJS Enterprises, LLC  
Ely Enterprises Inc.  
Harris Equipment  
International Baler  
Iron Ax  
Maren Balers & Shredders  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
OBC Industrial  
OVB Holdings LLC dba OverBuilt  
Sierra International Machinery, LLC  
Sebright Products Inc.  
Vortex De-Pollution & Recycling Equipment

**METAL SORTING SYSTEMS**

BCA Industries  
Bunting  
DJS Enterprises, LLC  
Ely Enterprises Inc.  
Imabe of America  
Mallin Companies, Inc.  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
OBC Industrial  
Redwave Solutions US LLC  
S3 Software Solutions  
Sherbrooke OEM  
Sicon America LP  
swissRTec America, Inc.  
TOMRA Sorting Recycling  
Van Dyk Recycling Solutions  
UNTHA America

**SERVICES & YARDS**

DJS Enterprises, LLC

**SHEARS (ALLIGATOR & GUILLOTINE)**

AI-Jon by C&C Mfg  
American Cutting Edge  
Andritz ASKO Inc.  
DJS Enterprises, LLC  
Ely Enterprises Inc.  
Equipment International  
Imabe of America  
Iron Ax  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
OBC Industrial  
Sierra International Machinery, LLC  
Vortex De-Pollution & Recycling Equipment

**SWEAT FURNACES**

Recycling Services Intl, LLC  
DJS Enterprises, LLC

**WEAR PARTS**

American Cutting Edge  
Ely Enterprises Inc.  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
OBC Industrial  
SICON America LP

**OTHER METAL PROCESSING**

American Cutting Edge  
BCA Industries  
Bomac Carts  
CM Shredders  
CPM Di Piu Systems  
Crow Environmental  
DADE Auctions, Inc.  
DJS Enterprises, LLC  
E-Z Crusher/R.M. Johnson Company  
Granutech-Saturn Systems  
Imabe of America  
Kenco Corporation  
Mallin Companies, Inc.  
OBC Industrial  
OVB Holdings LLC dba OverBuilt  
Philippi-Hagenbuch  
Recycling Services Intl, LLC  
SAS Forks  
Sellick Equipment Limited  
Supershear, Inc.  
swissRTec America, Inc.  
UNTHA America  
WEIMA America, Inc.

**Miscellaneous****COMPUTER SOFTWARE**

DJS Enterprises, LLC

**DUST CONTROL**

Air Cleaning Blowers, LLC  
Buffalo Turbine  
Ely Enterprises Inc.  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
Philippi-Hagenbuch  
Recycling Services Intl, LLC  
SICON America LP  
Van Dyk Recycling Solutions  
WEIMA America, Inc.

**SAFETY PRODUCTS**

Buffalo Turbine  
Crow Environmental  
Industrial Netting  
Intercomp Scales  
National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
Recycling Services Intl, LLC

**OTHER MISCELLANEOUS**

Advance Tire

Aero Industries  
Bomac Carts  
Cardinal Scale Manufacturing Co.  
Delmar Communications Corp  
Equipment International  
Industrial Netting  
Kenco Corporation  
Kobelco Construction Machinery USA  
Leadpoint Business Services  
Philippi-Hagenbuch  
RecycleGuard Insurance Program  
Recycling Services Intl, LLC  
ScrapGo LLC  
Sterner Consulting  
Supershear, Inc.

**Organics & Composting****CHIPPERS**

American Cutting Edge  
ArmorHog  
BCA Industries  
DuraTech Industries International Inc.  
DynaHog  
Hogzilla  
Precision Husky

**SHREDDERS, GRINDERS & HOGS**

ArmorHog  
BCA Industries  
DuraTech Industries International Inc.  
DynaHog  
Ely Enterprises Inc.  
Indeco North America  
OBC Industrial  
Precision Husky  
Shred-Tech  
TORXX Kinetic Pulverizer Limited  
UNTHA America

**TUB GRINDERS**

ArmorHog  
CM Shredders  
DuraTech Industries International Inc.  
DynaHog  
Hogzilla  
Precision Husky

**OTHER ORGANIC PROCESSING**

BCA Industries  
Bomac Carts  
CPM Di Piu Systems  
Imabe of America  
Philippi-Hagenbuch  
Van Dyk Recycling Solutions

**Paper Processing****BALERS**

American Baler Company  
CPM Di Piu Systems  
Ely Enterprises Inc.  
Excel Manufacturing, Inc.  
Harris Equipment  
Imabe of America  
International Baler  
JM Hydraulics, Inc. (Baletch)  
Maren Balers & Shredders  
OBC Industrial  
Sebright Products Inc.  
Sierra International Machinery, LLC  
SP Industries Inc.  
Van Dyk Recycling Solutions

**BALING WIRE SYSTEMS & SUPPLIES**

Ely Enterprises Inc.  
Langston Companies, Inc.  
Maren Balers & Shredders  
OBC Industrial

**SORTING LINES**

Bomac Carts  
Ely Enterprises Inc.  
Imabe of America  
Langston Companies, Inc.  
Leadpoint Business Services  
Redwave Solutions US LLC  
TOMRA Sorting Recycling  
Van Dyk Recycling Solutions

**OTHER PAPER PROCESSING**

BCA Industries  
Bomac Carts  
CM Shredders  
CPM Di Piu Systems  
Excel Manufacturing, Inc.  
Imabe of America  
Leadpoint Business Services  
OBC Industrial  
UNTHA America  
WEIMA America, Inc.

**Plastic Processing****CLEANING SYSTEMS**

CPM Di Piu Systems  
OBC Industrial

**DENSIFIERS**

Amandus Kahl USA Corporation  
American Cutting Edge  
CPM Di Piu Systems  
Ely Enterprises Inc.

Harris Equipment  
OBC Industrial  
Sebright Products Inc.  
Sierra International Machinery, LLC  
Warren & Baerg Manufacturing, Inc.

**EXTRUDERS & PELLETIZERS**

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American Cutting Edge  
CPM Di Piu Systems  
Coperion  
OBC Industrial  
Warren & Baerg Manufacturing, Inc.

**GRANULATORS**

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BCA Industries  
CM Shredders  
DynaHog  
Ely Enterprises Inc.  
Granutech-Saturn Systems  
Herbold Meckesheim USA  
OBC Industrial  
Shred-Tech  
UNTHA America  
Virtus Equipment  
WEIMA America, Inc.  
Zerma-America

**MECHANICAL SEPARATION**

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Ely Enterprises Inc.  
Imabe of America  
OBC Industrial  
Van Dyk Recycling Solutions  
Virtus Equipment  
Zerma-America

**OTHER PLASTIC PROCESSING**

American Baler Company  
American Cutting Edge  
BCA Industries  
Bomac Carts  
CM Shredders  
Coperion  
Ely Enterprises Inc.  
Granutech-Saturn Systems  
Imabe of America  
International Baler  
Langston Companies, Inc.  
Leadpoint Business Services  
OBC Industrial  
Philippi-Hagenbuch  
Sierra International Machinery, LLC  
TOMRA Sorting Recycling  
VZN Group, LLC  
Virtus Equipment  
Zerma-America

**Services****DADE Auctions, Inc**

DADE Capital Corp.  
DJS Enterprises, LLC  
RecycleGuard Insurance Program  
Rosen Systems  
Sterner Consulting  
VZN Group, LLC

**Tire & Rubber Recycling****BALERS**

AutoDrain  
Ely Enterprises Inc.  
E-Z Crusher/R.M. Johnson Company  
International Baler  
Langston Companies, Inc.  
Maren Balers & Shredders  
OBC Industrial  
Sebright Products Inc.  
Sierra International Machinery, LLC  
Vortex De-Pollution & Recycling Equipment

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American Cutting Edge  
CM Shredders  
Granutech-Saturn Systems  
OBC Industrial  
Shred-Tech  
Virtus Equipment  
Vortex De-Pollution & Recycling Equipment  
Zerma-America

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AutoDrain  
CM Shredders  
Ely Enterprises Inc.  
Granutech-Saturn Systems  
OBC Industrial  
Shred-Tech  
Virtus Equipment  
Vortex De-Pollution & Recycling Equipment  
Zerma-America

**OTHER TIRE & RUBBER RECYCLING**

AutoDrain  
BCA Industries  
Bomac Carts  
CM Shredders  
Coperion  
DADE Auctions, Inc.  
E-Z Crusher/R.M. Johnson Company



Granutech-Saturn Systems  
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Demco  
Industrial Netting  
ScrapGo LLC

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Demco  
Hallco Industries Inc.  
Keith Manufacturing Co.

### TRUCKS

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Demco  
Philippi-Hagenbuch  
ScrapGo LLC

### OTHER TRUCKING EQUIPMENT

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Aero Industries  
Brothers Equipment  
Cardinal Scale Manufacturing Co.  
Demco  
Industrial Netting  
Intercomp Scales  
Philippi-Hagenbuch  
ScrapGo LLC  
Smartlift USA  
Talbert Manufacturing

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National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
Schaefer Systems International, Inc.  
Smartlift USA

### MULTI-FAMILY EQUIPMENT SYSTEMS

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IPL Inc.

### ROLL-OFF TRAILERS & HOOK-LIFT SYSTEMS

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National Association Supply  
Co-Operative, Inc. (NASCO-OP)  
Smartlift USA

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Demco  
Hallco Industries Inc.  
Keith Manufacturing Co.

### TRUCKS

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Shred-Tech

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American Baler Company  
Bomac Carts  
Demco  
Intercomp Scales  
IPL Inc.  
Sebright Products Inc.  
Shred-Tech  
Sierra International Machinery, LLC

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### USED EQUIPMENT

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DADE Capital Corp.  
DJS Enterprises, LLC  
Ely Enterprises Inc.  
Equipment International  
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**MAREN BALERS & SHREDDERS**

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