



# Sustainability Office

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## Boulder County Resource Conservation Advisory Board Meeting Minutes – January 24, 2018

### Present:

Darla Arians – Boulder County (phone)  
Russ Callas – At-Large  
Jack DeBell – CU Recycling  
Michael Donovan – At-Large  
Brandon Hill – Resource Central  
Bryce Isaacson – Western Disposal  
Bridget Johnson – Town of Jamestown  
Charles Kamenides – City of Longmont  
Lisa Morzel – City of Boulder  
Roger Pacheco – Republic Services  
Chris Pelletier – Town of Nederland  
Tim Plass – At-Large  
Stephanie Walton – City of Lafayette  
Ken Wilson – At Large

### Active Members Not Present:

Chris Hanson – Town of Superior  
Suzanne Jones – Eco-Cycle  
Dan Matsch – Town of Lyons  
Mark Persichetti – City of Louisville

### RCAB Staff Liaison:

Tyler Kesler – Commissioners'  
Office/Sustainability  
Leigh Ratterman – Commissioners'  
Office/Sustainability

### Guests:

Kevin Afflerbaugh – Western Disposal  
Andrea Doukakis – City of Boulder Resident  
Chris Gallagher – LID Landscapes  
Rick Kattar – Boulder County RCD  
Lisa Knoblauch – City of Longmont  
Sustainability Coordinator  
Cody Lillstrom – Boulder County RCD  
Lisa Skumatz – SERA Consultant  
David Snapp – Town of Erie Resident  
Alex Richardson – Green Girl Recycling

### **1. Call to Order**

Chair Charles Kamenides called the meeting to order at 4:59 pm

### **2. Approval of October 25, 2017 Minutes**

Stephanie Walton motioned for approval and Lisa Morzel seconded; unanimous vote approved.

### **3. Community Updates & Public Comment**

- **Boulder County** – Is partnering with the City of Boulder to do an updated waste composition study. Boulder County Land Use Department is improving C&D data collection with help from the Sustainability Office. A proposed state bill is looking to kill the paint care program and Boulder County will be working with CAFR to formally oppose this. County Commissioners have already written a letter of response and opposition to these and appreciate RCAB's support.
- **City of Boulder** – Boulder's Bag Fee will be used for a new program call the "Free Green Bag Program" starting in February. Any Boulder-based business that applies and shows that they are Zero Waste compliant with Universal Zero Waste goals will be provided with 6 months-worth of compostable bags. City Council will continue focusing on 6400 Arapahoe facilities. Is there any interest in Styrofoam policies for RCAB to recommend to County Commissioners'? This initiative will be brought to the state legislative level, but the City of Boulder is hoping that championed by RCAB as well.

- **City of Lafayette** – The Waste Reduction Advisory Committee (WRAC) presented a proposal to adopt Zero Waste initiatives within the city to City Council in January and it was well-received.
  - **CU Recycling Center** – Jack is closing the loop on shrink-wrap recycling to be shipped to Indianapolis. In Denver, all of the CU campuses met for a summit and revealed a case study that allows communities to take advantage of bulk pricing. Jack will share that with RCAB and purchasing reps through Granger. CU used to have up to 62% recycled paper (75 million sheets) and now only 45% is being recycled. Jack is looking to bring increase this number.
  - **Resource Central** – Resource is launching a new website for their tool library. This will be an interactive live page to reserve and pick up tools. Brandon would like to demonstrate this new tool at the February RCAB Meeting.
  - **Town of Jamestown** – Has several roads still under construction and now they are moving utility poles in front of everyone’s houses – transportation is tricky. James Canyon work will pause through March and then pick up to be finished in the spring and summer. Boulder County’s Sustainability Grant will be used for a composting project on the second Saturday of each month. Jamestown is looking to secure funding to begin composting community-wide hopefully in September.
  - **Town of Nederland** – Sustainability Advisory Board created a resolution to become 100% Renewal Energy by 2025.
- 4. RCAB Bylaws Update & Vote:**  
The Bylaws have been modified after the RCAB Retreat discussion. Bridget motioned for approval and Lisa Morzel seconded; unanimous vote approved.
- 5. ReTRAC Update:**  
Cody Lillstrom presented. (see attached presentation)
- 6. Plastic Markets in China:**  
Rick Kattar presented. (see attached presentation)
- 7. Adjournment:** Charlie Kamenides called the meeting to a close at 6:30 pm



**Resource Conservation**



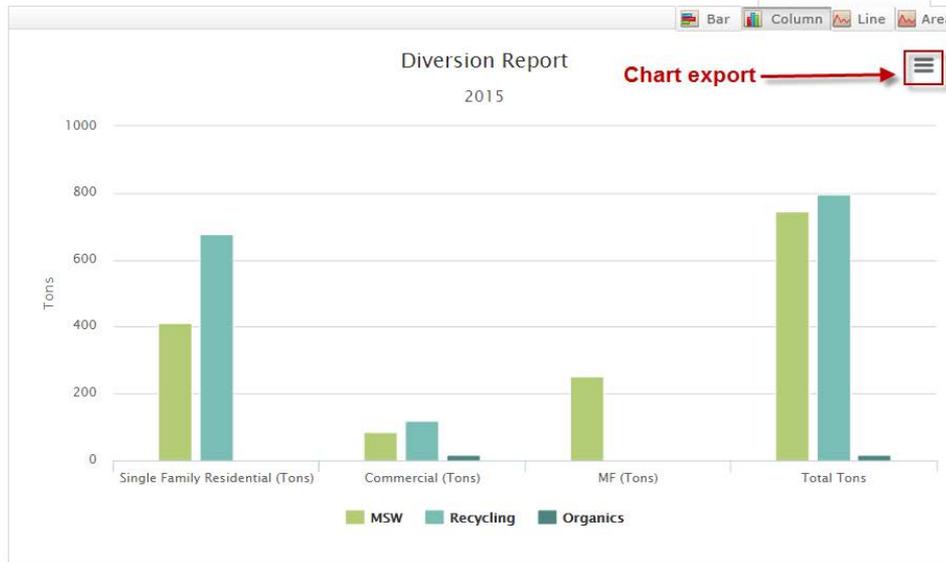
# ReTRAC for All!

- The City and County of Boulder have invested \$22,000+ to develop and maintain ReTRAC
- The City and County want to offer this software free of charge, contingent upon:
  - Your community passes (or updates) a hauler ordinance that requires reporting in ReTRAC
    - Use county's ordinance as a model or design your own



# Data Visualization Tool

# ReTRAC



**Table export** → Export as: CSV XLS

## Diversion Report

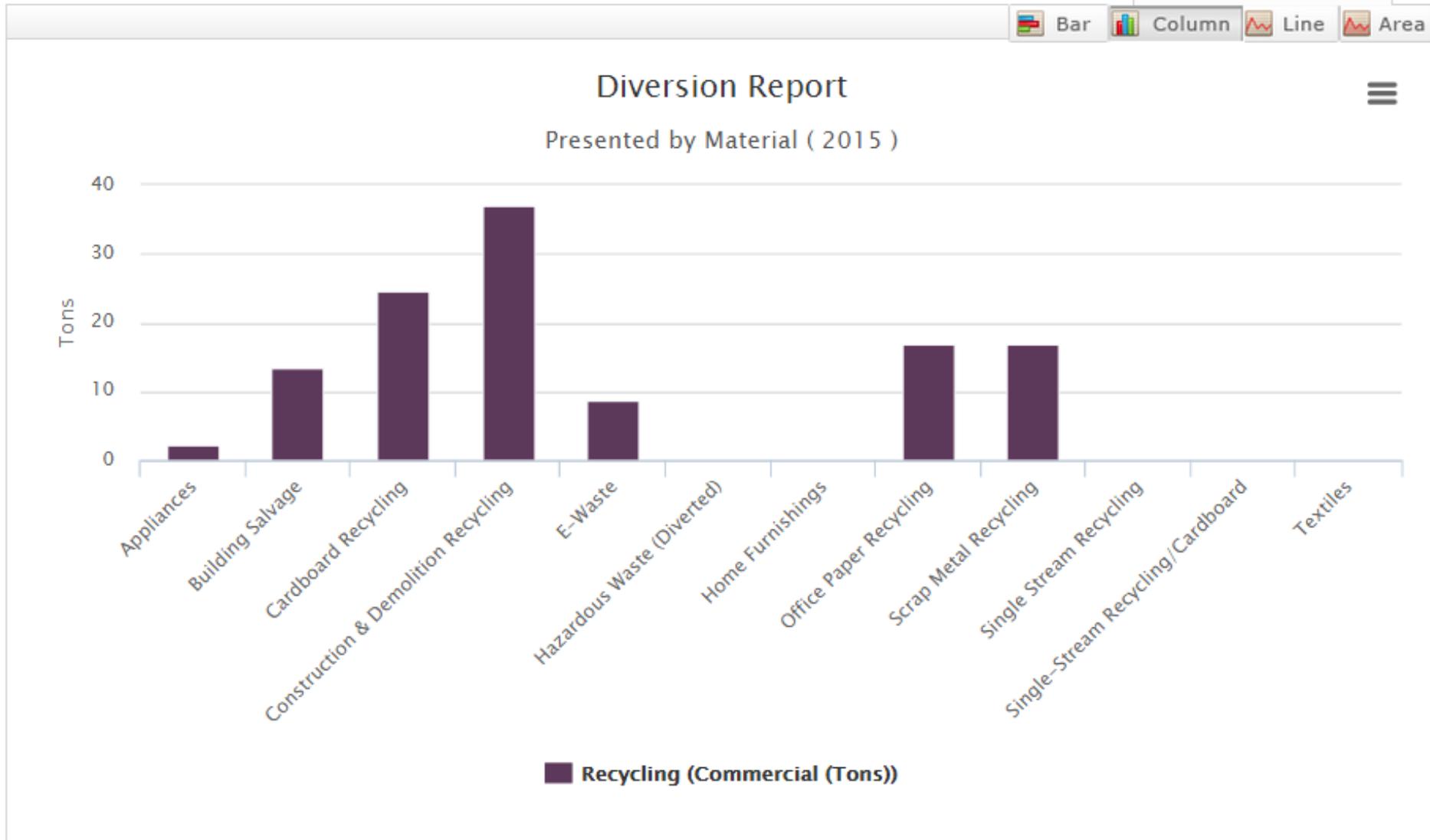
2015

Materials	Single Family Residential (Tons)	Commercial (Tons)	MF (Tons)	Total Tons	% of Category
<b>MSW</b>					
Landfill	411.0	84.3	251.0	746.3	100.0
Hazardous Waste (Disposed)	0	0	0	0	0
<b>MSW Total</b>	<b>411.0</b>	<b>84.3</b>	<b>251.0</b>	<b>746.3</b>	<b>N/A</b>
<b>% of All Sectors</b>	<b>37.8</b>	<b>38.2</b>	<b>100.0</b>	<b>47.9</b>	<b>N/A</b>
<b>Recycling</b>					
Appliances	0.7	2.2	0	3.0	0.4
Building Salvage	0	13.5	0	13.5	1.7
Cardboard Recycling	0	24.5	0	24.5	3.1
Construction & Demolition Recycling	0	36.9	0	36.9	4.6
E-Waste	2.9	8.6	0	11.5	1.4
Hazardous Waste (Diverted)	0	0	0	0	0
Home Furnishings	0	0	0	0	0
Office Paper Recycling	0	16.9	0	16.9	2.1



# Data Visualization Tool

# ReTRAC

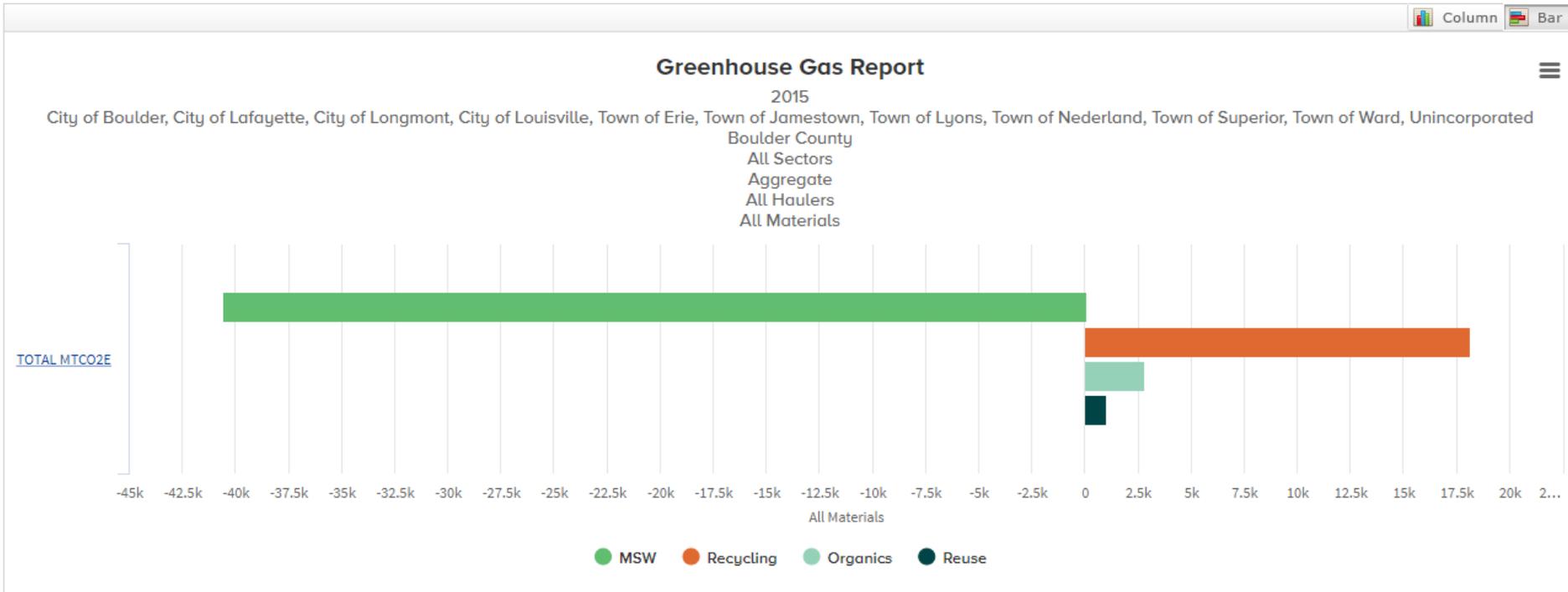




Resource Conservation

# Data Visualization Tool

# ReTRAC





# Data Visualization Tool

# ReTRAC

## Greenhouse Gas Report Resource Conservation

2015  
 City of Boulder, City of Lafayette, City of Longmont, City of Louisville, Town of Erie, Town of Jamestown, Town of Lyons, Town of Nederland, Town of Superior, Town of Ward, Unincorporated Boulder County  
 All Sectors  
 Aggregate  
 All Haulers  
 All Materials

20 results

Search:

ALL MATERIALS	% OF CATEGORY	TOTAL MTCO2E
<b>MSW</b>		
Landfill	100.00	-40,545.43
Hazardous Waste (Disposed)	0	0
<b>MSW Total MTCO2E</b>	<b>100.00</b>	<b>-40,545.43</b>
<b>Recycling</b>		
Appliances	0.76	137.72
Building Salvage	0	0
Cardboard Recycling	50.82	9,211.21
Construction & Demolition Recycling	0.09	16.64
E-Waste	1.03	186.38
Hazardous Waste (Diverted)	0.33	60.45
Home Furnishings	3.20	580.34
Office Paper Recycling	1.44	260.95
Scrap Metal Recycling	20.42	3,701.89
Single Stream Recycling	21.90	3,970.02
Textiles	0	0
<b>Grand Total MTCO2E</b>	<b>Not Applicable</b>	<b>-18,739.47</b>



# Resources

- RCD is here as a resource for you to help you use the ReTRAC program
- We will work with your community to help draft and/or pass an ordinance
- We provide ReTRAC training in person and via JoinMe

# Boulder County Recycling Center

*2017 Annual Report*

*January 24, 2018*

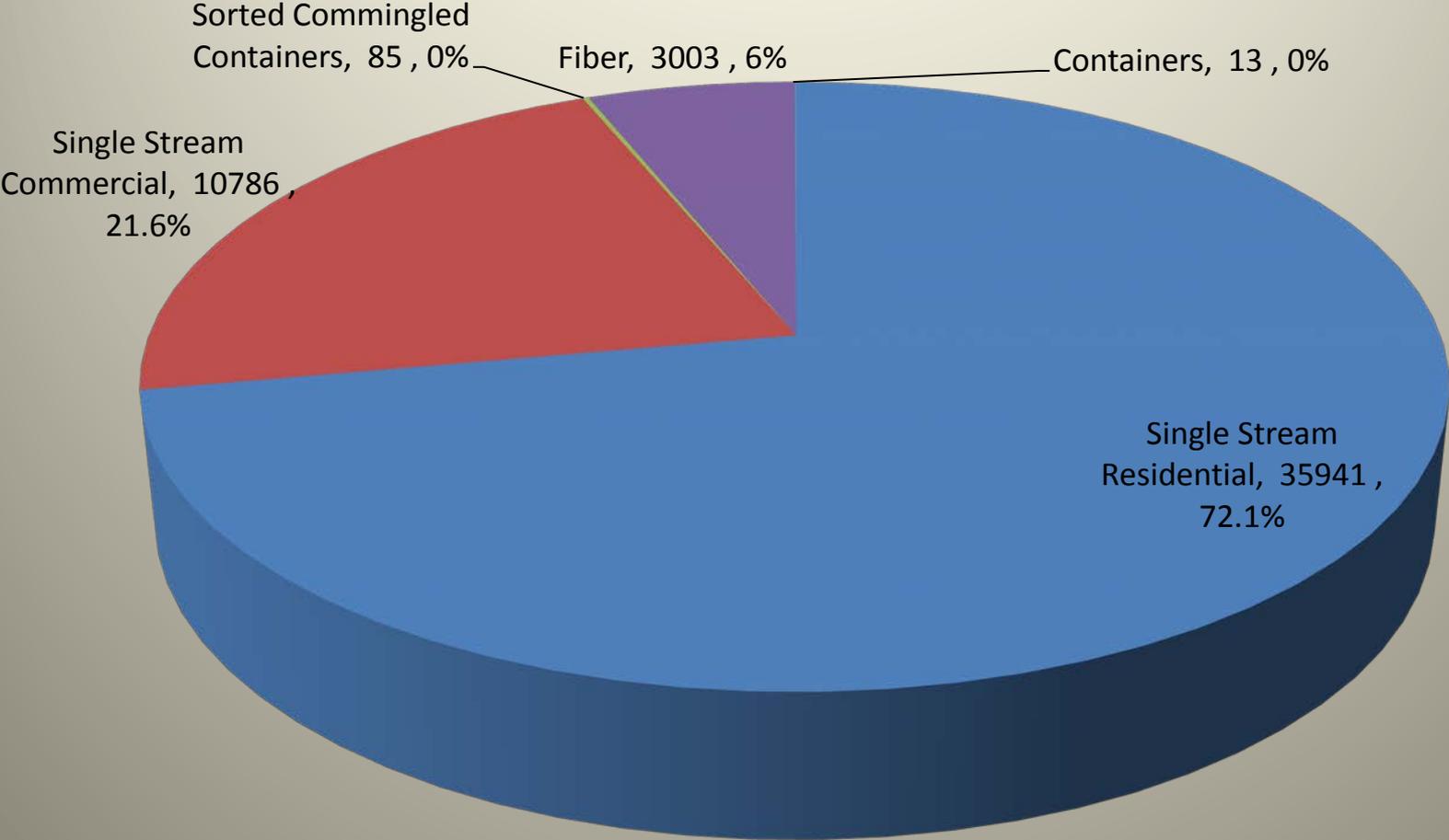
- Inbound Material Trend (2012-2017)
- Outbound Trend (2012-2017)
- Outbound Material Revenue Trend (2012-2017)
- Market Conditions
- Gate Fees
- Key Operating Performance Indicators
- Update On Optics Retro-fit



Resource Conservation



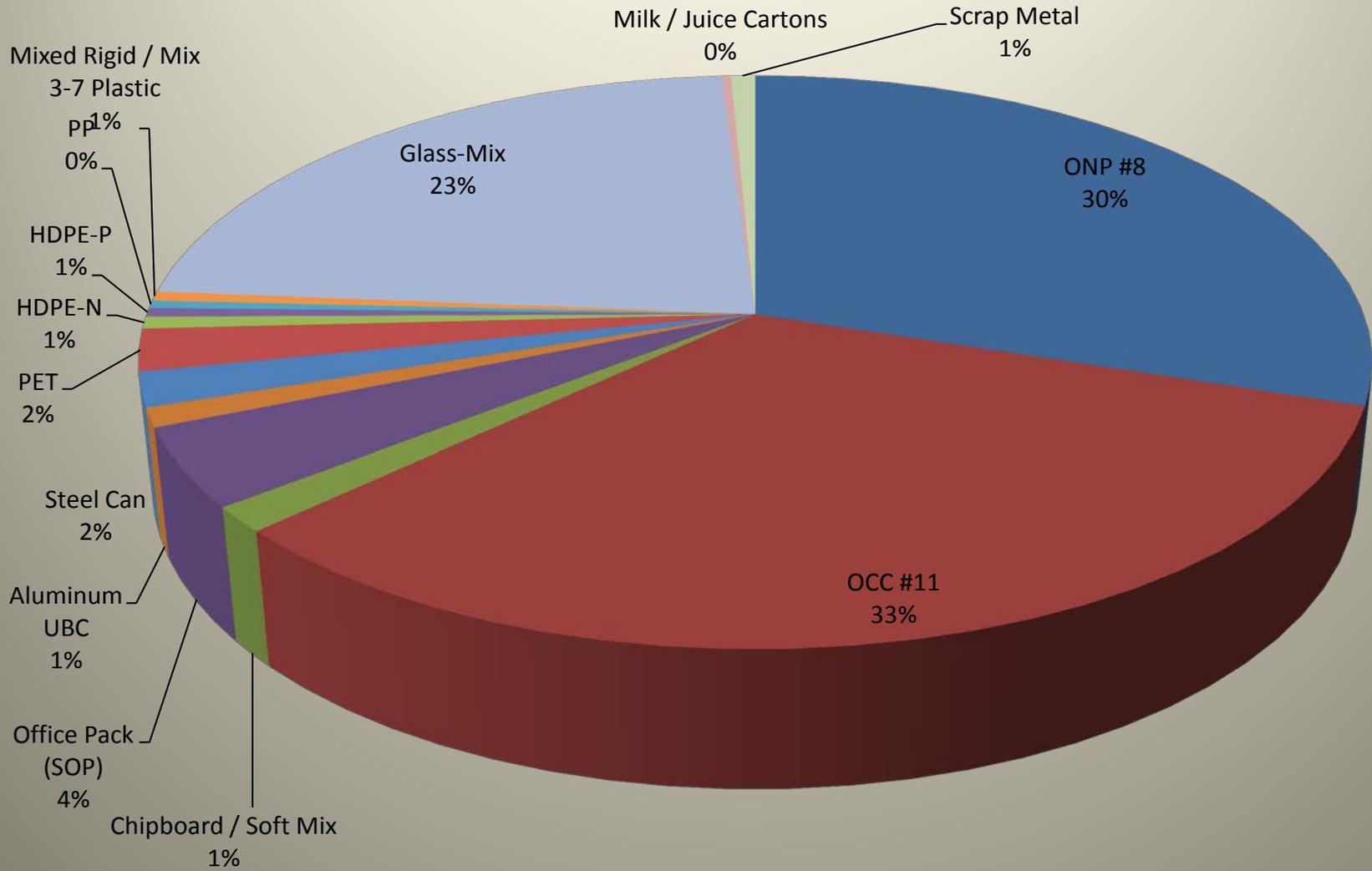
# Inbound Materials 2017 YTD



## Outbound Materials by Commodity by Year

Commodity	Tons/year					
	2012	2013	2014	2015	2016	2017
<u>Fiber Commodities</u>						
ONP #8	17,419	15,815	14,449	17,496	15,969	13,562
OCC #11	11,601	11,413	11,555	14,342	14,749	14,822
Chipboard / Soft Mix	1,012	1,060	488	607	625	645
Office Pack (SOP)	1,880	1,242	1,192	1,051	1,390	1,995
Other Fiber	50	371	555	540	566	0
<u>Container Commodities</u>						
Aluminum UBC	445	450	471	489	506	486
Steel Can	900	897	854	1,009	851	880
PET	880	1,080	1,200	1,267	1,220	1,076
HDPE-N	352	359	353	396	391	304
HDPE-P	305	326	301	347	320	288
PP	0	65	264	285	190	189
Mixed Rigid / Mix 3-7 Plastic	782	106	330	187	447	237
Glass-Mix	7,156	7,739	7,174	7,740	8,583	10,223
Milk / Juice Cartons	650	171	153	154	133	131
<u>Scrap Metal</u>	193	158	193	301	423	335
<b>Total</b>	<b>43,625</b>	<b>41,252</b>	<b>39,532</b>	<b>46,211</b>	<b>46,363</b>	<b>45,173</b>

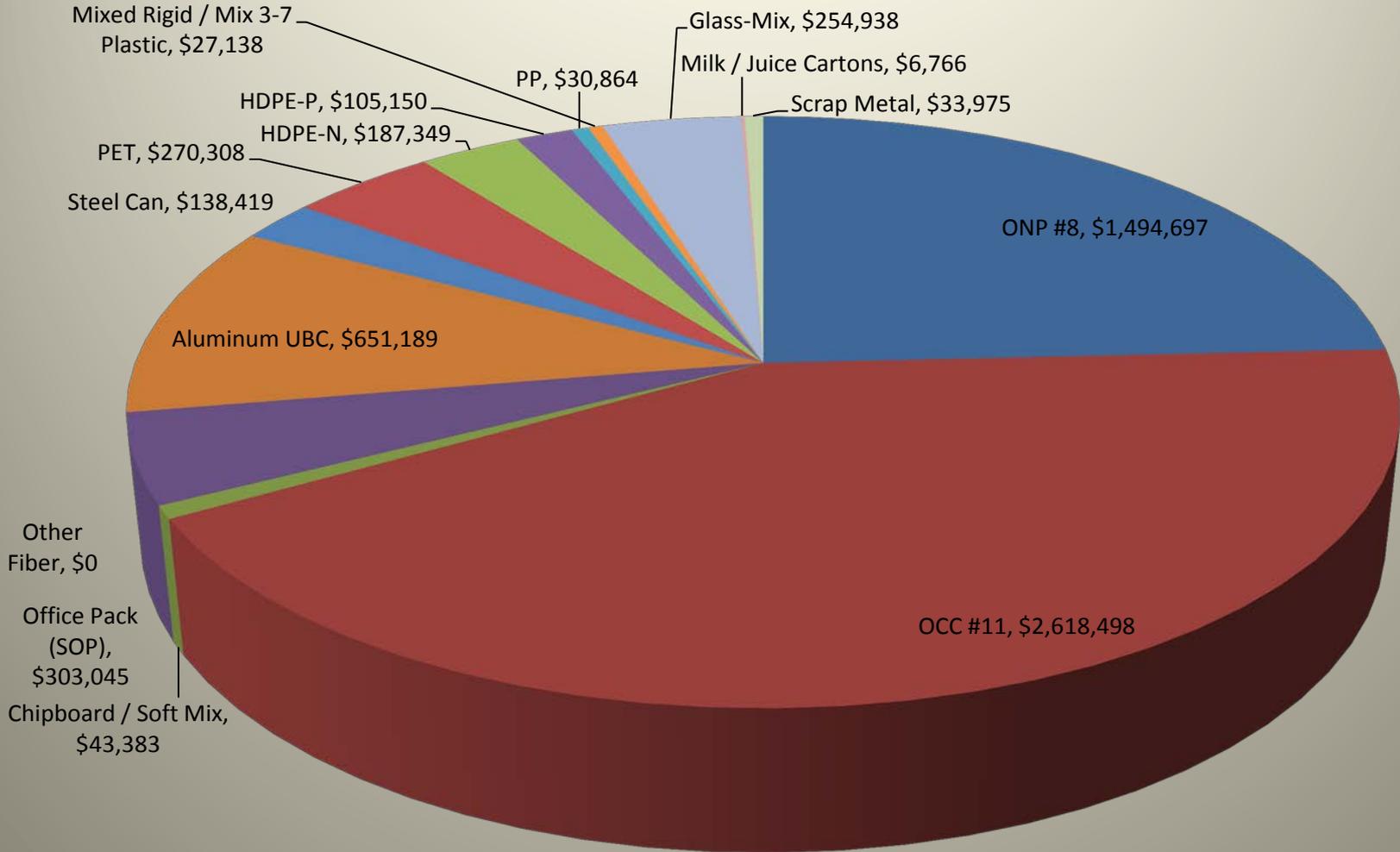
# Outbound Materials 2017 YTD



## Outbound Materials Revenue by Commodity by Year

Commodity	Tons/year					
	2012	2013	2014	2015	2016	2017
<u>Fiber Commodities</u>						
ONP #8	1,511,670	1,382,243	1,286,605	1,242,388	1,480,546	1,494,697
OCC #11	1,278,085	1,318,596	1,219,116	1,402,561	1,655,772	2,618,498
Chipboard / Soft Mix	61,973	63,852	25,864	26,875	38,470	43,383
Office Pack (SOP)	314,034	185,928	189,079	165,572	205,142	303,045
Other Fiber	12,173	28,245	28,893	24,919	34,895	0
<u>Container Commodities</u>						
Aluminum UBC	681,475	655,453	761,237	608,844	608,994	651,189
Steel Can	208,593	195,959	190,656	81,383	82,406	138,419
PET	418,471	409,535	384,675	258,125	190,719	270,308
HDPE-N	224,794	252,970	334,371	245,270	240,673	187,349
HDPE-P	157,270	146,902	185,635	166,103	128,918	105,150
PP	0	16,996	77,901	86,317	48,180	30,864
Mixed Rigid / Mix 3-7 Plastic	57,778	10,646	62,001	58,232	41,490	27,138
Glass-Mix	192,786	209,256	186,744	213,953	242,523	254,938
Milk / Juice Cartons	31,118	9,275	12,513	16,047	11,011	6,766
Scrap Metal	34,545	29,828	38,333	25,838	32,331	33,975
<b>Total</b>	<b>5,184,765</b>	<b>4,915,684</b>	<b>4,983,623</b>	<b>4,622,427</b>	<b>5,042,071</b>	<b>6,165,719</b>

# Outbound Materials Revenue 2017 YTD



# Market Forecast

## PLASTIC

*With oil prices trending up we had hoped that plastic pricing would follow. This has not been the case as supply for HD in particular remains higher than demand.*

- **HDPE** HD natural has remained flat while HD colored has declined in value.
- **PET and Poly Propylene (PP)** resins have remained in demand and pricing has aligned. PET continues to provide pricing support for the declining resins. It is our highest yieldable plastic by volume and helps mitigate the decline in blended value due to HD pricing declines.
- **Mixed Plastic and Mixed Rigid Plastic (MRP)** Although the mixed plastic fraction of our inbound stream is small it is currently at \$10.00/ton. MRP continues to be supported by HD pricing.

# Market Forecast

## METALS

- Aluminum – Should stay stable for next three months. Mill inventories are high and therefore movement has slowed.
- Steel – Has been increasing in price and should stay in current range through QTR 1.

## FIBER – OCC, ONP, MP

- OCC - Currently domestic mills have high inventories and their machine run rates are exceeding normal seasonal rates. Mills are running at above 98% capacity when normal run rates this time of year are under 95%. This has helped keep domestic prices from collapsing, albeit constrained, with China's import constraints.
- ONP pricing has stabilized and our current issue is slow movement. Trucking has become problematic for both exporters and domestic mills.
- MP continues to be a loser as supply is still greater than demand. Pricing has improved but still hovers in the \$0.00 to \$45.00/ton range.
- SOP quality requirements have increased such that we have been producing more MP to keep prohibitives out of the SOP to retain the value of this material.

# Gate Fees

Recycling Rebates (Gate Fees) are posted on the tenth day of each month at: <http://www.bouldercounty.org/env/recycle/pages/recyclingrebates.aspx>.

**Residential Single-Stream (RSS)** Although fiber markets are fluid due to China import policy on mixed paper, we are able to hold our SSR rate at **\$0.00 PT**. This is mainly due to our short-term ability to limit mixed fiber production related to this stream.

**Commercial Single-Stream (CSS)** We were forced to reduce our rebate to reflect that mixed paper is a growing fraction of this stream and that newly-established Sorted Office Paper (SOP) quality requirements have increased such that MP is produced at increased rates. Our CSS rate is now set at \$0.00 PT.

## Key MRF Performance Indicators

- Zero Safety Recordable Incidents
- Tons Per Run Hour – 25
- Tons Per Paid Hour – 24
- Uptime – 97%
- Residue – 8%

## Phase II Equipment Retrofit Underway

The County and Eco-Cycle are in planning and design discussions to implement the previously-awarded Phase II Equipment Retrofit with Machinex, which will help us better process the influx of additional commercial single-stream material as a result of the City of Boulder Universal Zero Waste Ordinance.

**Phase II includes:** Expanded presort station and related takeaway conveyance systems, triple-deck adjustable OCC screen, post-OCC screen quality control sorting stations and film plastic air system/baler.

These front end system improvements will also help our plant resolve what is referred to as the Amazon Effect. Our inbound composition has dramatically shifted due to this effect. Small OCC is inundating the MRF and our current OCC screen struggles to yield the small OCC and this is a significant loss of revenue.

## Contact

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Resource Conservation