

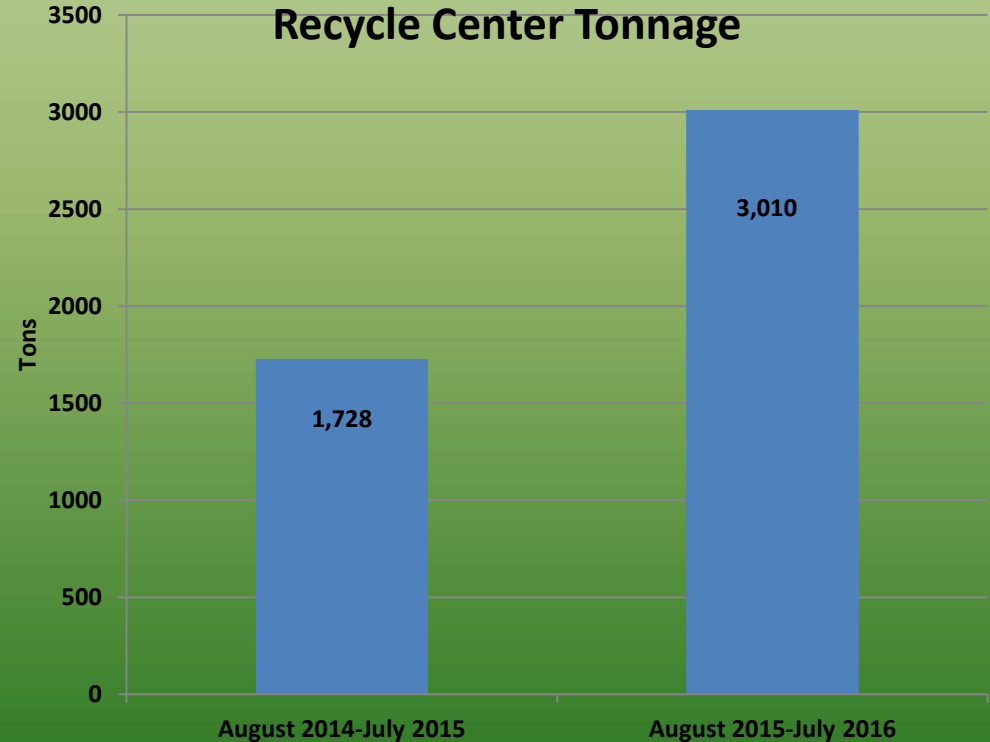
Sheridan Recycles



**Presented By:
City of Sheridan
Solid Waste Division**

Recycling Update

- Overall 74% increase in recycling



What are we doing to address increasing operational costs and declining revenues from materials?

- Economy of Scale
 - Curbside Collection has increased tonnages by 75%. Going from 1,728 tons to 3,010 tons annually
 - Cost of recycling is \$64.67/ton
 - Cost of landfill disposal \$79.50/ton
- Better Automation
 - Sort-Line (MRF) – (Cleaner Sorted Materials)
 - Dual Arm Side-Loader with low dump design
- Using Temp Service and Community Service Workers
- Using a monthly bidding system for brokers

What are we doing to address the quality of materials?

- Public Education
 - Many years of public preparation and education on clean materials going to the drop-sites (9 Years)
 - Reaching out to elementary and high schools
 - Earth Day events
 - Radio/Newspaper ads
 - Social Media
 - ReCollect App
- Sorting abilities at the sort line

What are we doing to address lightening of the “Recycling Stream”?

- Offering convenience to customers through curbside commingled recycling
- Educating and keeping the residents informed about:
 - The cost of recycling vs. landfilling
 - The cost to construct and operate new landfill cells

What are we doing to address Budget Issues?

- Better efficiency
- Automation (Dual Arm Truck)
- Material Recovery Facility (MRF)
- Public Education
- Develop and maintain a 10 year finance model that includes true cost accounting for all three sections of Solid Waste: Collection, Recycling, and Landfill

Best Management Practices (BMP)

- Identify best markets through competitive monthly bid process
- Sorting materials into better market commodities
- Redesigned the bale center into a MRF
- Restructured the routes and routing system

3 Ps (Public-Private Partnerships)

- We work in partnership with participating businesses by giving them a discount on sanitation fees if they recycle
- We have a strong relationship with some of the bigger entities (such as Sheridan College) to educate their staff
- We work with Senior Citizens groups to assist elderly with places to drop off materials
- We provided 4 drop-sites for county residents that don't have curbside recycling
- We work with private haulers in the county to provide curbside collection in the county
- Working with private haulers to provide education materials in the county
- Provide tours of Recycling Center & Landfill for interested parties

Contamination Issues

- Averaging 4.38% contamination before sorting and nearly contamination free after sorting.
- We use social media and other media to inform and educate the community
- We use the ReCollect app to message customers and to help them identify do's and don'ts of recycling

New Technologies

- Agbag System for composting green waste (SCADA system for temperature monitoring)
- Grinding and mixing C&D materials with Waste Water Treatment Plant bio-solids to get better compaction in the landfill
- Dual arm side-loader

Curbside Participation

<u>Curbside Recycling</u>	<u>Projected</u>	<u>Actual</u>
Pounds/Household	30	18
Number of Households	6145	6353
Participation:		
• Have Carts	100%	96%
• Actually Recycling	85%	56%



Commodity Sales

	As of July 2016	Program Estimates for FY 2016
Tons	3,010	2,297
Commodity Price	\$65	\$95
Commodity Revenue	\$195,650	\$218,215



Operational Successes & Challenges

Successes

- Successfully launched a major curbside recycling program
- Quality, efficient, and effective
 - Very low contamination – < 5%
 - Generating excellent commodities for market
 - Able to adjust separation strategies of commodities to get best market pricing
 - Maximizing use of our operating space and resources
- Sorting line, processing equipment and operations in one place
- Collecting and processing approximately 10 tons/day

Challenges

- Staff and effort to manage product through processing and baling
 - Increase in overtime
 - Additional laborers to manage commodities – 4 temporary laborers
 - Big drop in the commodity market – lowest we've seen in over 10 years
 - Operational space and temporary loose commodity storage

Curbside Recycling Goals

- Meet or Exceed Annual Recycling Goal
 - Increase 25% for each of next 2 years
- Complete Multi Family Implementation
 - By end of FY 2016
- Public Education and Awareness
- Continue the curbside program



Thank You

Questions on Recycling
Program?