

Orange County Utilities

Orange County Recycling 2021

May 12, 2021

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Solid Waste Division Manager



Presentation Overview

- Recycling Overview
- Orange County Solid Waste Division
- Pursuit of a New MRF



Recycling Overview

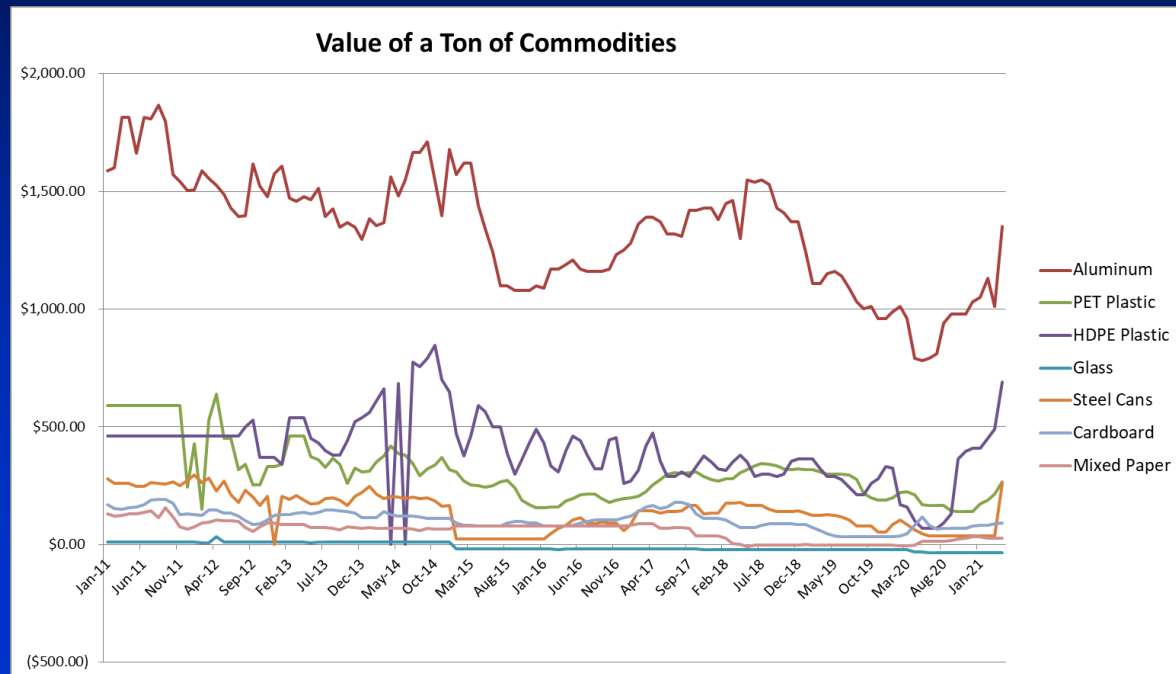
Who Manages Recycling?

- Private companies direct recycling of their materials
- Multiple companies competing to collect and process
- Report to state – certified recycling values
- Local governments cannot direct where recycling goes
- Local governments do collect (or contract) most residential



Recycling Overview

What Affects the Value of Recyclables?

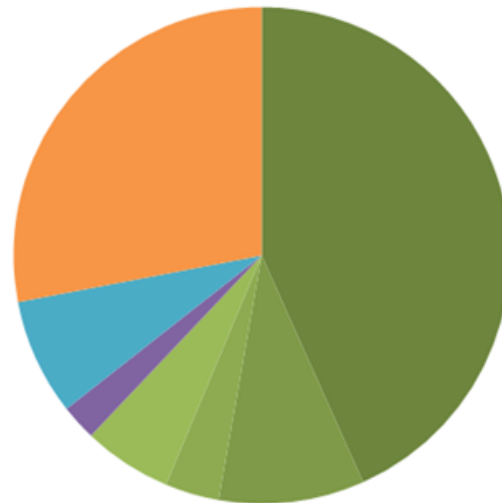




Recycling Overview

What Affects the Value of Recyclables?

Recyclables Composition

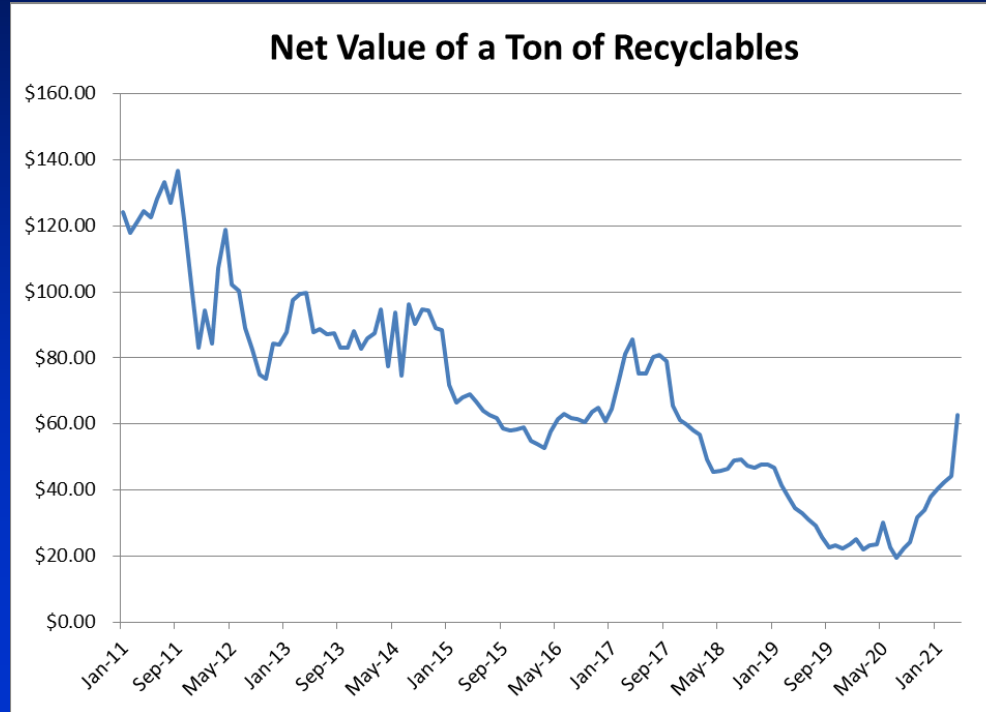


- Recyclable Paper
- Recyclable Plastic
- Recyclable Metal
- Recyclable Glass
- Non-recyclable Paper
- Non-recyclable Plastic
- Other Non-recyclables



Recycling Overview

What Affects the Value of Recyclables?

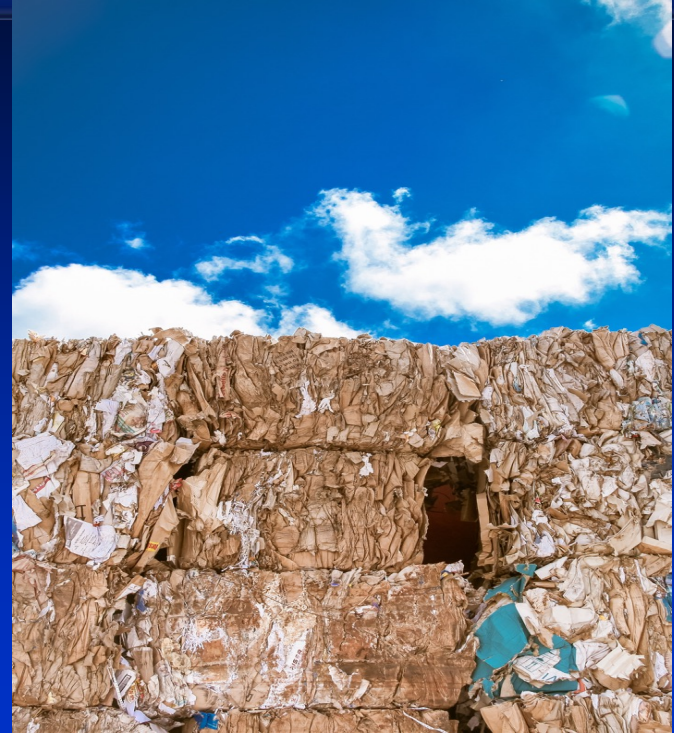




Recycling Overview

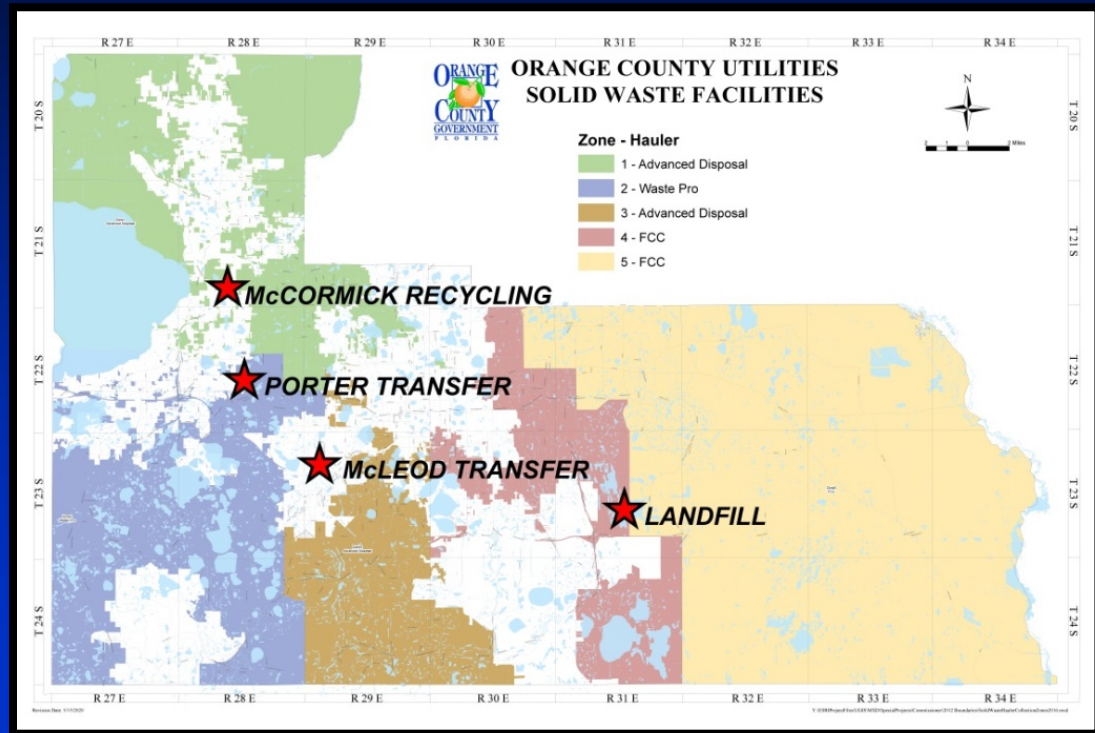
Factors Affecting Recycling

- Evolving and volatile global markets affect pricing
- Advancements in recovery technologies
- Sharing of commodity pricing risk
- Unmanaged material contamination affects all parties
- Florida beyond 2020



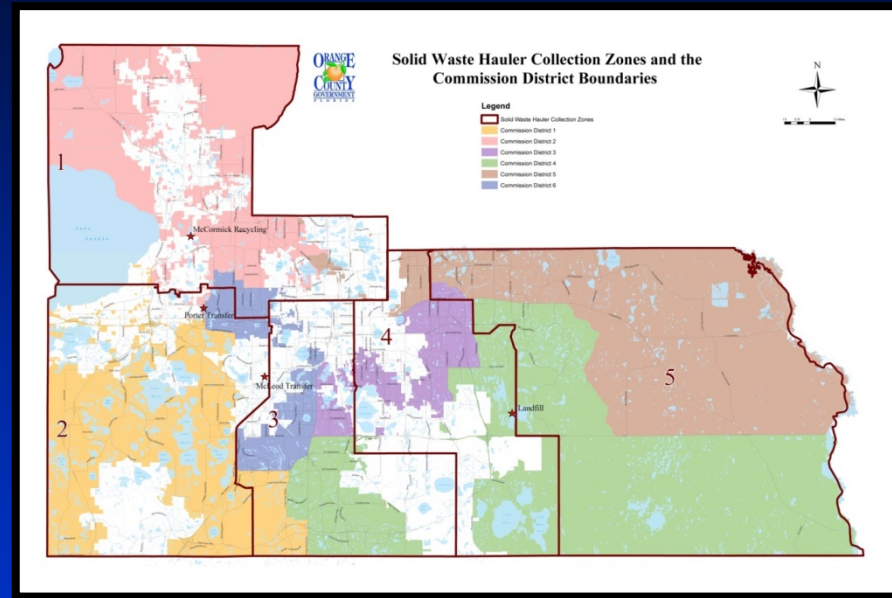
Orange County

- Landfill complex
- Three transfer stations
- 2.4 million tons of waste generated annually in county
 - 1 million tons managed by Orange County system
 - 1.4 million tons managed by private landfills in and out of county



Orange County

- Unincorporated - 227,000 residential households
- Weekly garbage cart, recycling cart, yard waste, and large item collections
 - 235,000 tons of waste
 - 66,000 tons of recyclables
 - 49,000 tons of yard waste
- Businesses, multifamily residences, and municipalities are not part of program



Orange County

- BCC adopted an ordinance in June 1990 requiring recycling in Orange County
- MRF began operations in August 1990
 - Upgrade in 2007
 - Shut down operation and began transfer in 2017





Pursuit of a New MRF

What is Needed to Improve Recycling in Orange County?

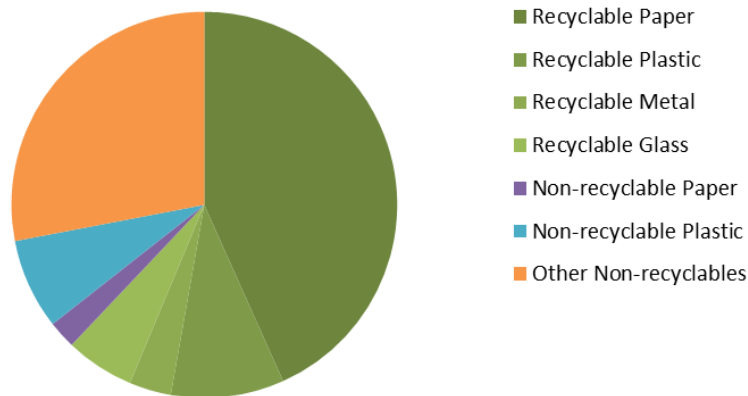
- Public-private partnership for a new MRF
- Public-public partnerships to support a new MRF
- Improve quality of residential recyclables collected



Pursuit of a New MRF

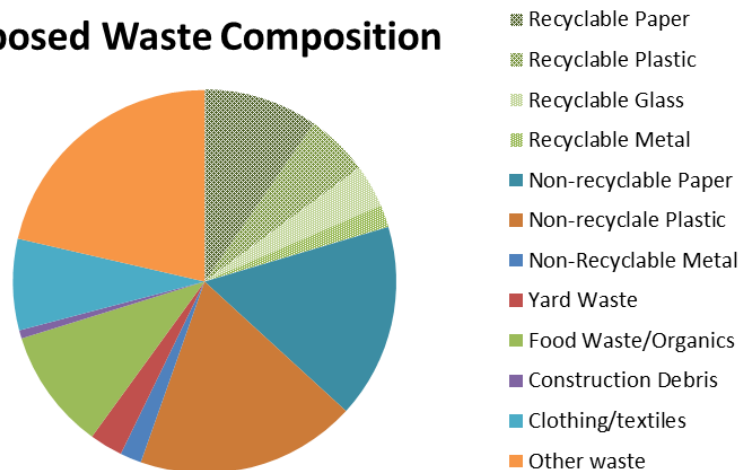
Challenges and Opportunities

Recyclables Composition



More than 30% of recyclables are garbage

Disposed Waste Composition



More than 20% of garbage is recyclables



Pursuit of a New MRF

- **Recycling collection**
 - Dual-stream manual collection (1990 – 2015)
 - Averaged 2,220 tons/month in 2015
 - Very low contamination
 - Single-stream automated collection (2016 – present)
 - Collecting over 5,000 tons/month
 - Much higher level of contamination





Pursuit of a New MRF

Recycling Quality Improvement Program





Pursuit of a New MRF



THANK YOU FOR RECYCLING THESE:

Empty & dry items only in the recycling cart | Solo artículos vacíos y secos en el contenedor de reciclaje

 Plastic Plástico	 Metal Latras/Botes	 Glass Vidrio	 Cardboard Cartón	 Paper Papel
				
Bottles & containers #1-5 Botellas y contenedores marcados #1-5	Metal, tin, steel, aluminum & empty aerosol cans Hojalata, aluminio, acero, y de aerosol vacías	Bottles & jars Botellas y jarras de vidrio	Cardboard boxes (flattened) Cajas de cartón aplanar	Junk mail & paperboard (cereal & shoe boxes) Incluye correo basura y cartón por ejemplo, cajas de cereales y de zapatos

NO!

				
DO NOT bag recyclables (leave items loose) NO coloque los reciclables en bolsas (deje los artículos sueltos)	NO plastic bags NO incluya bolsas de plástico	NO food or liquid (empty all containers) NO incluya alimentos o líquidos (vacíe todos los contenedores)	NO pizza boxes NO incluya cajas de pizza	NO foam NO poliestireno

TO LEARN MORE, visit www.ocfl.net/recycles or call 407-836-6601



GREAT JOB!



Items checked were in the cart. Please keep all non-recyclables out.

	
No net bag recyclables (leave items loose)	No plastic bags, film or wrap
	
No food or liquid (empty all containers)	No pizza boxes
	
No cords, hoses, chains or electronics	No large items
	
No yard waste	No foam/polyethylene

Other: _____

Think 5 and recycle only plastic bottles and containers, metal cans, glass bottles and jars, cardboard and paper.

Keep up the good work!

www.ocfl.net/recycles
407-836-6601
WHEN IN DOUBT, LEAVE IT OUT!



OOPS!



Your cart had items that cannot be recycled. Please leave these items out.

	
Do not bag recyclables (leave items loose)	No plastic bags, film or wrap
	
No food or liquid (empty all containers)	No pizza boxes
	
No cords, hoses, chains or electronics	No large items
	
No yard waste	No foam/polyethylene

Other: _____

Think 5 and recycle only plastic bottles and containers, metal cans, glass bottles and jars, cardboard and paper.

This cart will not be collected the next time wrong items are found.

www.ocfl.net/recycles
407-836-6601
WHEN IN DOUBT, LEAVE IT OUT!



OOPS!



Your cart had items that cannot be recycled. Please leave these items out.

	
Do not bag recyclables (leave items loose)	No plastic bags, film or wrap
	
No food or liquid (empty all containers)	No pizza boxes
	
No cords, hoses, chains or electronics	No large items
	
No yard waste	No foam/polyethylene

Other: _____

Think 5 and recycle only plastic bottles and containers, metal cans, glass bottles and jars, cardboard and paper.

This cart will not be collected until unaccepted items are removed.

www.ocfl.net/recycles
407-836-6601
WHEN IN DOUBT, LEAVE IT OUT!

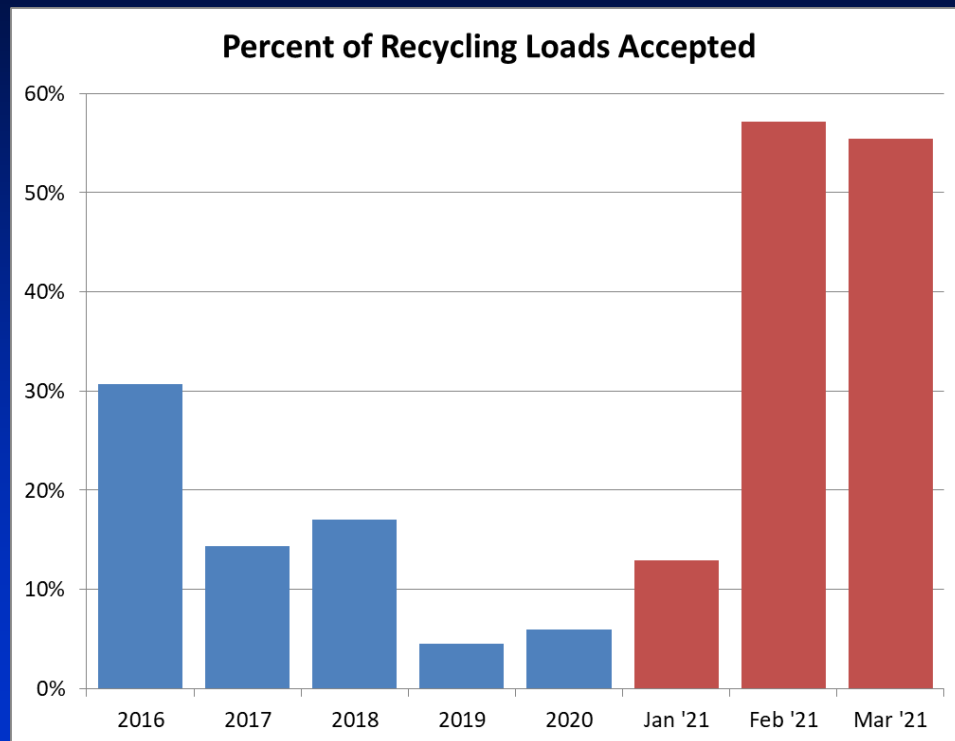




Pursuit of a New MRF

Recent Impacts

- Amended recycling contract to share risk
 - More loads accepted
- Recycling Quality Improvement Program
 - More than 70,000 households served so far





Pursuit of a New MRF

What Does Orange County Bring to the Table for a New MRF?

- 65,000 tons of improving residential recyclables
- Available land and existing infrastructure
- Long-term commitment of tonnage
- Commitment to sustainability – OCCC, economic development
- Additional public sector recycling tonnage
- Opportunity for commercial tonnage from region



Hinkley Center Commercial



Cisco Webex Meetings - Meeting: X +

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12	245	118	214
Partnering Universities	Research Projects	Partnering Researchers	Students Funded
Number of Partnering Universities	Total Research Projects Funded	Researchers the Center has funded	Students working on projects

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Questions & Answers

Orange County Utilities Solid Waste Division

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