



Florida Department of Environmental Protection

Recycling in Florida Overview

Henry Garrigo

September 9, 2016





Recycling Goals

- 403.706, F.S.
 - The Legislature set a 75% statewide recycling goal for municipal solid waste by 2020.
 - Generated by residential, commercial, and institutional sources
 - Does not include industrial or manufacturing waste.)
 - For 2015, the milestone recycling rate was 50%. For 2016 and 2017, it increases to 60%. For 2018 and 2019, it goes to 70%. For 2020, it will be 75%.
 - The Legislature also set that same goal for all counties over 100,000 population.
 - The Legislature has directed all counties to report their recycling progress to DEP annually.



Recycling Authority

- 403.7032 (4), F.S. Develop a comprehensive recycling program to include:
 - Programs to identify environmentally preferable purchasing (DMS to report on green and recycled products purchased)
 - Programs to educate students in grades K-12
 - Programs for statewide recycling recognition
 - Program for municipalities and counties to develop and implement efficient recycling efforts
 - Programs to provide technical assistance to municipalities and counties
 - Programs to educate and train the public
 - Evaluation of how financial assistance can best be provided to municipalities and counties in support of recycling
 - Evaluation of why existing waste management and recycling programs have not been better used



Recovered Materials

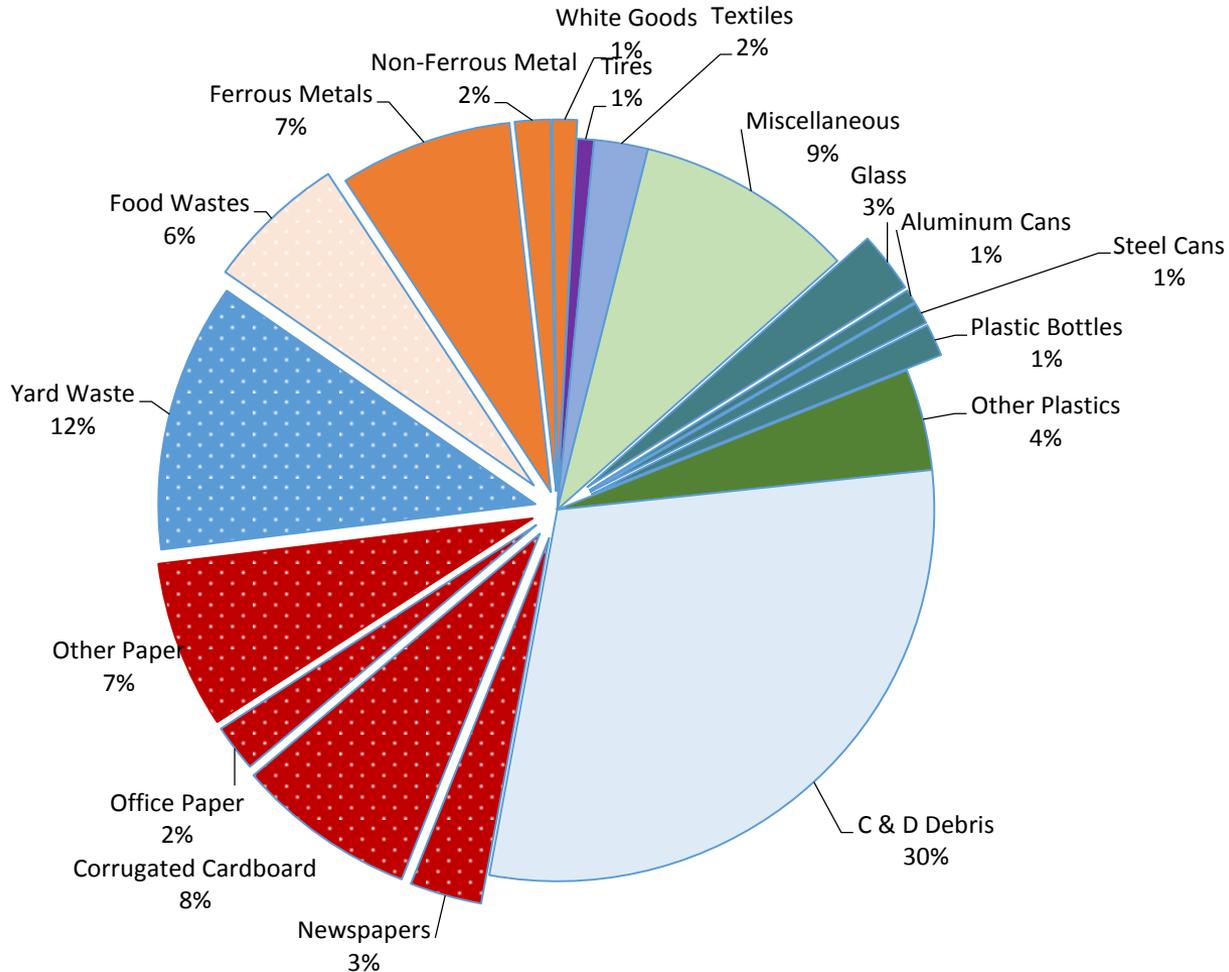
- “Recovered Materials” are...
 - Statutorily defined as the following materials:
 - Paper
 - Glass
 - Plastic
 - Metals/Aluminum
 - Textiles
 - Non-tire Rubber
 - Are not considered solid waste

Reference: 403.703(24), Florida Statutes
Form #: 62-722.400(9)(b), F.A.C.



Florida's MSW Waste Composition

Florida Municipal Solid Waste Collected (2015)
(32.5 million tons)

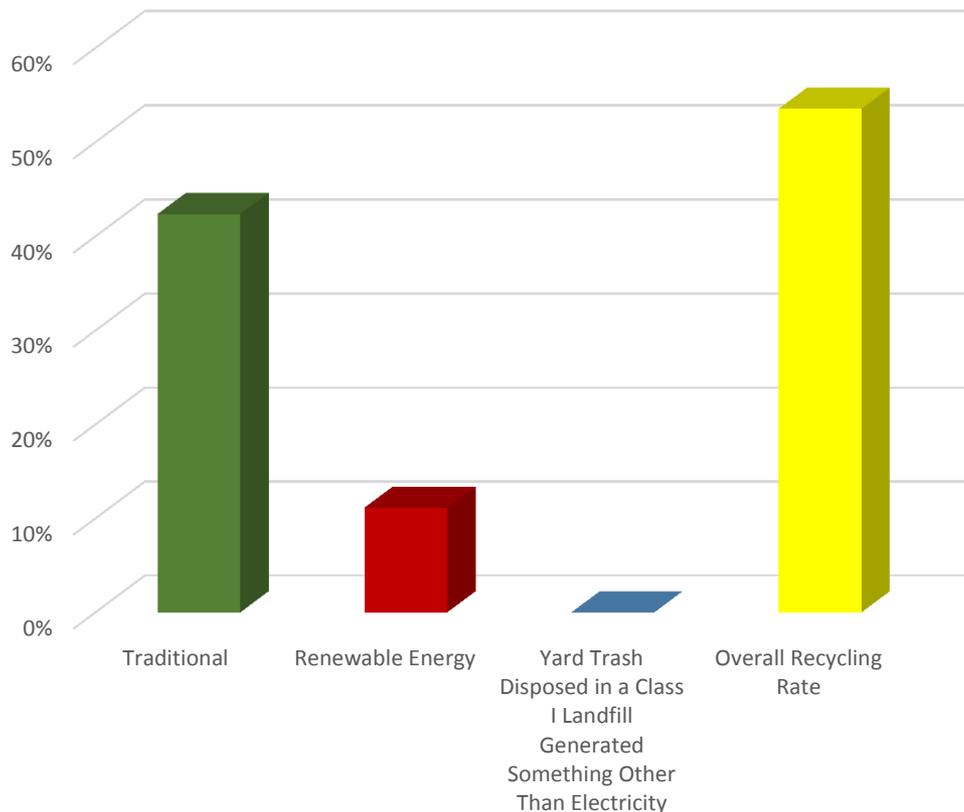




Florida's 2015 Recycling Rate

- The statewide **overall recycling rate, which includes renewable energy* recycling credits, increased from 50% (2014) to 54% (2015).**
 - The Legislature set an interim milestone recycling goal of 50% for calendar year 2014 and 60% for calendar year 2016.
- The statewide **traditional recycling rate, which excludes renewable energy recycling credits, increased from 39% (2014) to 42% (2015).**

Recycling Credit (%)



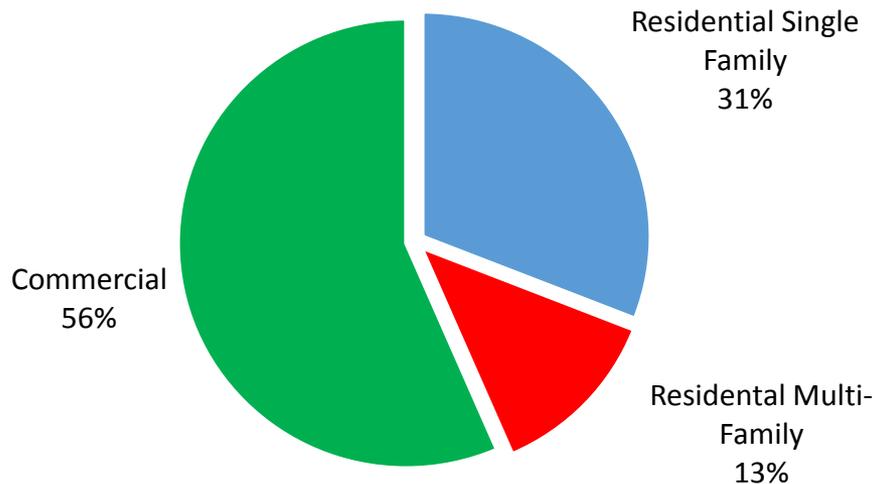
*Electricity produced from MSW or landfill gas



MSW Collected by Generator Type in Florida (2015)

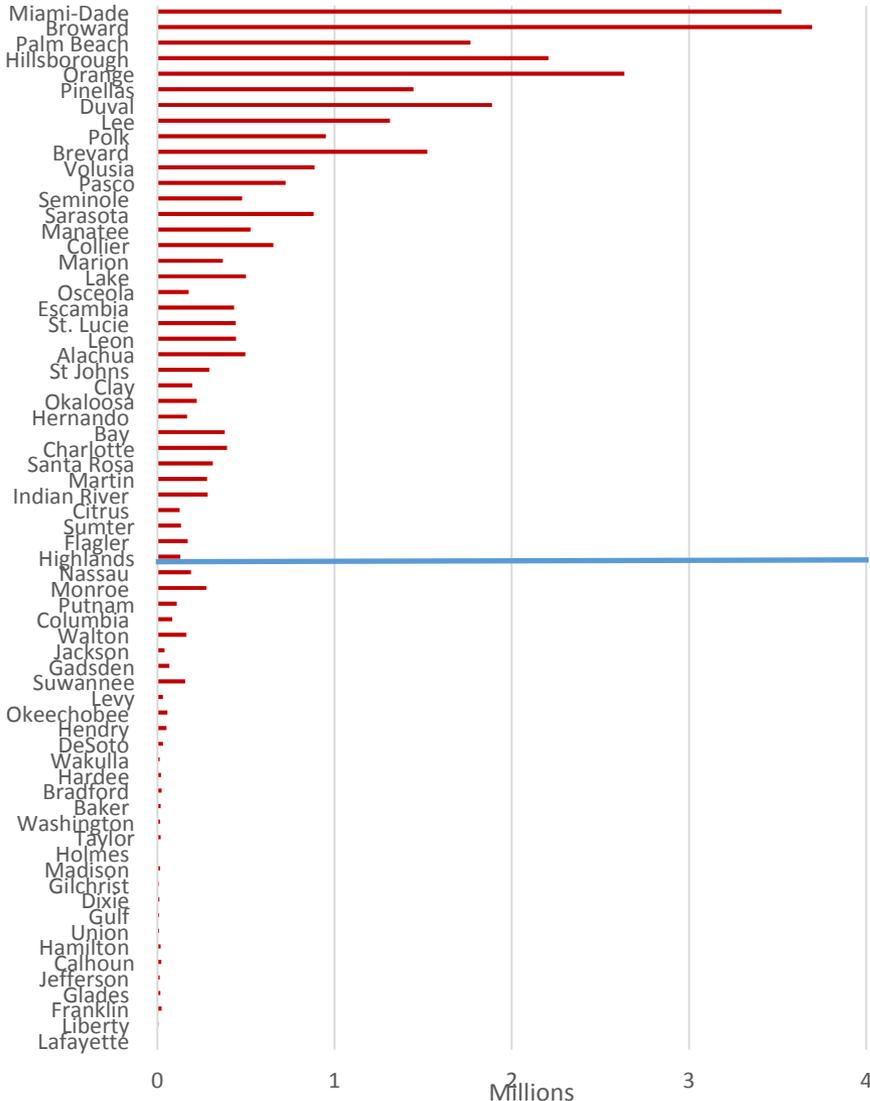
- The **commercial sector recycling rate** increased from 56% in 2014 to 58% in 2015 (this includes renewable energy recycling credits).
- The **residential single family recycling rate** increased from 43% to 44%.

MSW Collected by Generator Type in Florida
(2015)





2015 Tons Municipal Solid Waste (by decreasing population)



- About half of the counties (34 out of 67 total) are over 100,000 population.
- Those 34 counties have 95% of the state's population and generate 95% of the state's municipal solid waste.



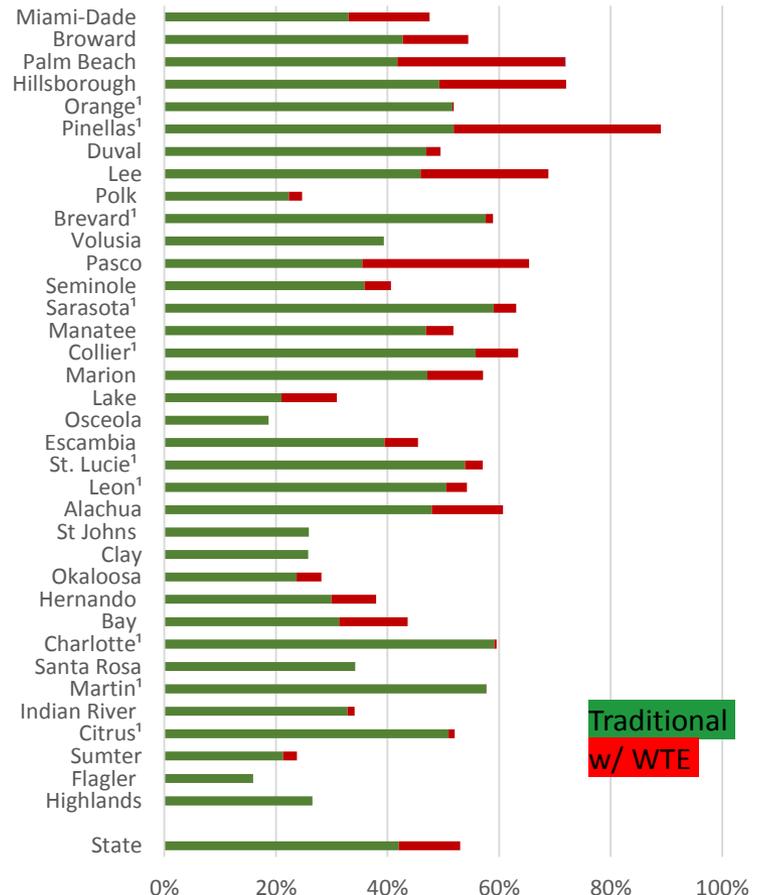
County Recycling Performance

- Large Counties not meeting the recycling goals are required to develop a plan to expand recycling programs to existing commercial and multifamily dwellings

- 2012- 14 counties did not reach the 40% goal
- 2013- 13 counties did not reach the 40% goal
- 2014- 17 counties did not reach the 50% goal
- 2015- 15 counties did not reach the goal

Reference: Section 403.706, Florida Statutes

County Recycling Credits
Large Counties
 (2015)



Traditional
 w/ WTE



Recycling Recognition Program

- Recycling Recognition Program
 - Encourage organizations and citizens to increase recycling
 - Data collection through DEP Business Recycling Tracking Tool (Re-TRAC)
- DEP's Recycling Recognition Program has focused on publicly recognizing **"outstanding" recycling efforts** from what is commonly called the **commercial sector**.
 - That sector includes businesses and institutions in both the public and private sector.
- DEP's definition of "outstanding" recycling efforts is tied to the **interim milestone recycling goals** established by the Legislature.
- In 2015-16 DEP has recognized 6 organizations include the Walt Disney World, Skanska Construction, Palm Beach County BOCC and Florida Gulf Coast University, Miami Marlins, Northrop-Grumman





Recycling Outreach

- Webinars
 - Hosted a series of webinars concerning various issues associated with recycling in Florida.
 - The series presented important and relevant information
 - over 20 presenters
 - over 300 recycling professionals participating
 - Topics
 - Contamination issues in single-stream recycling
 - Electronic waste in MSW
 - Organics in MSW (three part series)
- LISTSERV
 - Encourage discussion and dialogue of important topics amongst those that drive recycling in the state.
 - Florida Recycling Coordinator (frc@lists.dep.state.fl.us)
 - Closed group for county and city recycling coordinators
 - 75% by 2020 (75by20@lists.dep.state.fl.us)
 - Open group for all interested parties in recycling industry



Challenges for Meeting the Recycling Goals

- Single Stream Recycling
 - Contamination
 - Infrastructure
- Materials Recycling
 - Construction and Demolition Debris
 - Organics
- Challenges for Counties
 - County requirements
 - Contract renegotiation with cities
- Non-residential Recycling
 - Commercial/Institutional
 - Multi-family
- Markets
 - Value of evolving ton
 - Virgin materials costs
- Push-Pull growth



Future Trends

- Evolving Ton
 - Composition
- Markets
 - Commodity prices
 - Oil
- Sustainable Materials Management (SMM)
 - Extended Producer Responsibility (EPR)
 - Closed loop
- Contracting
 - Not Free
 - Reduced components
- Organics
 - Diversion
 - Recycling



Florida DEP

Henry Garrigo

henry.garrigo@dep.state.fl.us

850-245-8822

<http://www.dep.state.fl.us/waste/categories/recycling/default.htm>