



# Florida Department of Environmental Protection

## Recycling Coordinator Training February 13, 2020

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# Recovered Materials

**WHAT  
ARE  
RECOVERED MATERIALS?**



# Recovered Materials

## 403.703, F.S Definitions

7) "*Recovered materials*" means *metal, paper, glass, plastic, textile, or rubber* materials that have known recycling potential, can be feasibly recycled, and have been diverted and source separated or have been removed from the solid waste stream for sale, use, or reuse as raw materials, whether or not the materials require subsequent processing or separation from each other, but does not include materials destined for any use that constitutes disposal. Recovered materials as described above are not solid waste.



# Recovered Materials

Paper

Plastic

Metal

Glass

Textiles

Rubber (other than tires)



# Recovered Materials

**WHO IS  
A  
RECOVERED MATERIALS  
DEALER?**



# Recovered Materials

- **62-722.200 Definitions.**
- (2) “Certified person” means any person who handles, purchases, receives, recovers, sells or is an end user of 600 tons or more per year of recovered materials, reports to, and is certified by the Department pursuant to this chapter. A person whose activities are limited strictly to the transportation of recovered materials is not considered to be a person who handles, purchases, receives, recovers, sells or is an end user of recovered materials.



# Recovered Materials

## 62-722.200 Definitions

(7) "***Nonexempt Generator***" means:

(a) any person who produces recovered materials; and

(b) annually transfers an amount in excess of 600 tons of recovered materials to any combination of in-state persons who make a product utilizing recovered materials as a raw material in place of, or in addition to, virgin raw materials, or

***to persons out of this state.***



## Recovered Materials

And.....

RECOVERS & SHIPS

OVER

600 TONS

PER YEAR





## Recovered Materials

**“CERTIFIED TONS”**

**TONS REPORTED TO FDEP BY CERTIFIED  
RECOVERED MATERIALS DEALERS**



## Recovered Materials

“NON-CERTIFIED TONS”

ADDITIONAL TONS THAT **YOU** LOCATE OTHER THAN THE  
CERTIFIED TONS PROVIDED BY FDEP



# Recovered Materials

## RECOVERED MATERIALS DEALERS REPORT:

**ANNUALLY BY FEB 1<sup>ST</sup> TO THE STATE AND COUNTIES  
OF ORIGIN**



# Construction & Demolition (C&D)

WHAT  
IS  
C & D ?



# Construction & Demolition

403.702(17) F.S. "***Construction and demolition debris***" means discarded materials generally considered to be not water-soluble and nonhazardous in nature, including, but not limited to, steel, glass, brick, concrete, asphalt roofing material, pipe, gypsum wallboard, and lumber, from the construction or destruction of a structure as part of a construction or demolition project or from the renovation of a structure,



# Construction & Demolition

403.702(17) F.S. cont. ...and including rocks, soils, tree remains, trees, and other vegetative matter that normally results from land clearing or land development operations for a construction project, including such debris from construction of structures at a site remote from the construction or demolition project site.



# Construction & Demolition

Mixing of construction and demolition debris with other types of solid waste will cause it to be classified as other than construction and demolition debris.

The term also includes :

Clean cardboard, paper, plastic, wood, and metal scraps from a construction project.



## Construction & Demolition

### WHO REPORTS C&D TONNAGES TO THE STATE?

- DEP PERMITTED Facilities
- C&D and CLASS III Landfills
- C&D and CLASS III Transfer Stations
- C&D and CLASS III MRF's





## Construction & Demolition

***62-701.200(15) "Clean debris"*** means any solid waste which is virtually inert and which is not a pollution threat to groundwater or surface waters and is not a fire hazard and which is likely to retain its physical and chemical structure under expected conditions of disposal or use. The term includes uncontaminated concrete, including embedded pipe or steel, brick, glass, ceramics, and other wastes designated by the department.



## Construction & Demolition

*CLEAN DEBRIS* processors (i.e. concrete crushers) are not required to be permitted and, therefore, do not report to FDEP.

**These are tonnages you must seek out on your own.**



# Construction & Demolition

## What Counts?

Basically all C&D that has been PROCESSED and REUSED or SHIPPED .



## Construction & Demolition

### WHAT DOES NOT COUNT?

Unprocessed C&D

Asphalt, concrete or other byproducts from road building or maintenance that are directly reused as part of an associated works project



# Processed Fuel Facilities

**Stone Container, Panama City**

**Okeelanta Sugar, South Bay**

**Osceola Farms Sugar, Pahokee**

**Forestry Resources, Ft. Myers**

**Buck-Eye Cellulose, Perry**

**Kenetech (Royal Oak Charcoal), Ocala**



# Florida Waste To Energy Facilities

**Bay County Resource Recovery**

**Broward County N. Resource Recovery**

**Broward County S. Resource Recovery**

**Dade County Resource Recovery**

**Hillsborough County SWE Recovery**

**Lake County Resource Recovery**

**Lee County SW Resource Recovery**

**McKay Bay Refuse to Energy Project**

**North County Regional Resource Recovery**

**Pasco County SW Resource Recovery**

**Pinellas County Resource Recovery**

**Ridge Generating Station\***



# Questions?





# County Solid Waste Management Report

**403.706(7), F.S.** In order to assess the progress in meeting the goal set forth in subsection (2), each county shall, by April 1 each year, provide information to the department regarding its annual solid waste management program and recycling activities.





# County Solid Waste Management Report

403.706(7)(a), F.S. The information submitted to the department by the county must, at a minimum, include:

1. The amount of municipal solid waste disposed of at solid waste disposal facilities, by type of waste such as yard trash, white goods, clean debris, tires, and unseparated solid waste;
2. The amount and type of materials from the municipal solid waste stream that were recycled; and
3. The percentage of the population participating in various types of recycling activities instituted.



# County Solid Waste Management Report

## GATHER INFORMATION NEEDED FOR THE REPORT

*Provided by FDEP:*

- *Certified Recovered Materials Report*
- *Certified C&D Report*
- *Landfilled Report*
- *Population Estimates*
- *Walmart, Sav-A-Lot, Target non-certified numbers*



# County Solid Waste Management Report

## GATHER INFORMATION NEEDED FOR THE REPORT

### *Provided by County:*

- WTE Combusted tons
- Combustor Material Recycled
- Ash Landfilled
- Yard Trash used as cover
- Other MSW (i.e. ash, glass, treated contaminated soil) used as cover



# County Solid Waste Management Report

## GATHER INFORMATION NEEDED FOR THE REPORT

**Non-Certified Recycled Tons (includes Miscellaneous Tons)**

**Renewable Energy tons**

**MWH generation**

**Generator Type Unit (Single Family, Multi-Family, Commercial) Numbers**

**Disposal Fees**



# The Workbook

**DO NOT** open Re-TRAC until the workbook is complete!

	A	B	C	D	E	F	G
1	County:						
2	Shipped Tons	Category	Commodity	Company	Use (specifically yard waste, compost and concrete) ie. Landfill cover, fill, mulch, etc.	Address	City
3	0		Misc. Tab Total	Total from misc. worksheet tab			
4			Processed Fuel	Total From Re-TRAC			
5			White Goods	Total From Re-TRAC			
6							

# The Workbook

## Non-Certified Tab

Commodities match the categories in the Re-TRAC Annual report

Paper, plastic, metals, yard trash, processed fuel, miscellaneous total, white goods, etc.

	A	B	C	D	E	F	G
1	County:						
2	Shipped Tons	Category	Commodity	Company	Use (specifically yard waste, compost and concrete) ie. Landfill cover, fill, mulch, etc.	Address	City
3	0		Misc. Tab Total	Total from misc. worksheet tab			
4			Processed Fuel	Total From Re-TRAC			
5			White Goods	Total From Re-TRAC			
6							

# The Workbook

## Miscellaneous Tab

Anything that does not have a category in Re-TRAC

Batteries, paint, used cooking oil, used motor oil, e-waste, etc.

The Miscellaneous total will automatically populate in the Non-Certified tab of the workbook and the total also goes in the Miscellaneous category in Re-TRAC

	A	B	C	D	E	F	G
1	County:						
2	Shipped Tons	Category	Commodity	Company	Use (specifically yard waste, compost and concrete) ie. Landfill cover, fill, mulch, etc.	Address	City
3	0		Misc. Tab Total	Total from misc. worksheet tab			
4			Processed Fuel	Total From Re-TRAC			
5			White Goods	Total From Re-TRAC			
6							

# The Workbook

## Landfill Tons Tab

Account for ALL landfilled tons generated in your county

- Certified C&D Landfilled tons from Certified C&D Report
- Tons transferred out of state
- Landfill Report

If there is a discrepancy in Landfill Report, put Landfill Report tons, minus the difference and why in comment section.



	A	B	C	D	E	F	G
1	County:						
2	Shipped Tons	Category	Commodity	Company	Use (specifically yard waste, compost and concrete) ie. Landfill cover, fill, mulch, etc.	Address	City
3	0		Misc. Tab Total	Total from misc. worksheet tab			
4			Processed Fuel	Total From Re-TRAC			
5			White Goods	Total From Re-TRAC			
6							

# The Workbook

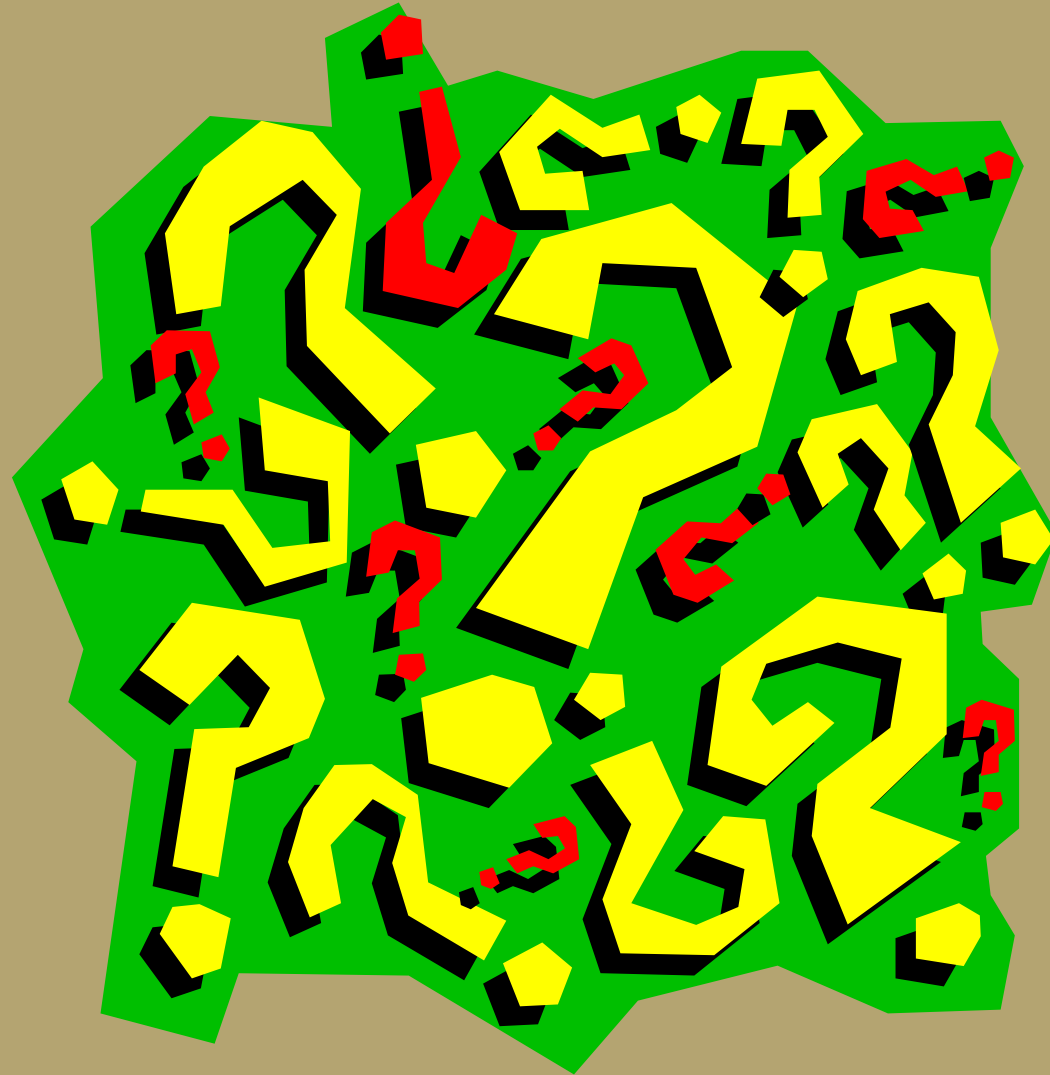
## Discussion

Where to find additional uncertified tons?

- Concrete Processors
- Food Banks
- Big Box Stores
- County HHW Collection
- Used Cooking oil
- Used motor oil
- Used auto batteries



# Questions?





# Re-TRAC

OKAY.....**NOW** you can go to  
the Re-TRAC Report



# Re-TRAC

Enter Certified RM and C&D into Re-TRAC

Enter Non-Certified Material Tons From Work Book

Enter MSW Management Data

- Gross Combusted
- Landfilled Combusted Ash
- Combustor Material Recycled
- Landfilled
- Renewable Energy



# Re-TRAC

## Workbook

Non-Certified Total

=

Misc. Tab Total

=

Landfill Tab Total

=

## Re-TRAC

Non-Certified Column

Misc. Category

Landfilled Total



# WASTE<sup>C</sup>ALC PUBLIC REPORTS

Division of Waste Management

## Estimate your county's waste composition data online

### 2018 WasteCalc Introduction:

Welcome to the Florida **Waste** Composition **Calculation** Model (**WasteCalc**), a user-friendly tool to estimate the composition of municipal solid waste (MSW) generated in Florida counties. The composition data generated by **WasteCalc** should prove useful for annual reporting purposes, as well as solid waste and recycling program planning.

**WasteCalc** was originally funded through a Florida Department of Environmental Protection (FDEP) innovative recycling grant, and was developed by Pinellas County, Franklin Associates, and Kessler Consulting in 2000. The University of Florida has updated the model by changing the estimation methods for some materials and utilizing US EPA waste generation data and waste composition data from Florida counties to provide more accurate MSW material composition results.

### 2018 WasteCalc Model

The 2018 WasteCalc model uses the same technique as the original WasteCalc model. It is used to estimate the percent MSW composition in a county's waste stream by using waste composition study data and US EPA generation data. The waste composition studies used were completed after 2002. The US EPA data was updated using the Characterization of Municipal Solid Waste in the United States: 2015 Update report, the most recent publishing. This is the most up-to-date model.

### US EPA Waste Composition Model (Coming Soon)

The US EPA Waste Composition model relates a county's population to the US EPA solid waste generation rates to estimate the percent MSW composition. This mode neglects the use of a county-specific data.

This is the most up-to-date model. Should you have questions or comments about WasteCalc, please contact: Jennifer L. Simmons at [Jennifer.L.Simmons@floridadep.gov](mailto:Jennifer.L.Simmons@floridadep.gov).

**Please be sure to open WasteCalc in Chrome, Firefox, or Edge web browsers for optimum functionality. This site is not supported by Internet Explorer (IE).**

Click on the button below to begin using **WasteCalc**.

WasteCalc

<https://prodlamp.dep.state.fl.us/wastecalc>



## WasteCalc

### Use *WasteCalc* To Calculate Re-TRAC Collected Tons

- Select year
- Select County
- Enter Population
- Enter MSW Landfilled Tons
- Enter TOTAL Collected C&D Tons
- Enter Combusted (WTE/Renewable Energy if any)
- Enter Total Recycled Tons by commodity


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# WasteCalc

Use Waste Calc results Collected tons or tons from your own county waste composition study to calculate Collected Commodity tons in Re-TRAC.

1	Select the Data Year	2016	▼
2	Select Your County	Alachua	▼
3	Enter County Population	0	
4	Enter MSW Landfilled (in tons)	0	
5	Enter MSW Combusted (if any) (in tons)	0	





SEARCH...

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# WasteCalc Tons

WASTECALC		
1	Data Year (DON'T EDIT):	2015
2	Current Year:	2017 <input type="button" value="v"/>
3	Enter County:	Alachua <input type="button" value="v"/>
4	Enter County Population:	600,000
5	Enter MSW Landfilled (in tons):	277,367
6	Enter Collected C&D (in tons):	102,219
7	Enter MSW Net Combusted by WTE (in tons ):	600,000
<b>If not using US EPA MSW Data, enter your most recent recycling data (in tons)</b>		
8	Newspaper	6,214
9	Glass	12,181
10	Aluminum Cans	1,478
11	Plastic Bottles	1,721
12	Steel Cans	1,260
13	Corrugated Boxes	11,277
14	Office Paper	1,227
15	Yard Trash	121
16	Other Plastics	3,547
17	Ferrous Metals	45,261
18	White Goods	45,261
19	Non Ferrous Metals	24,071
20	Other Paper	7,399
21	Textiles	1,213
22	C&D Debris	29,468
23	Food Waste	135
24	Miscellaneous	0
25	Tires	43
26	Process Fuel	0


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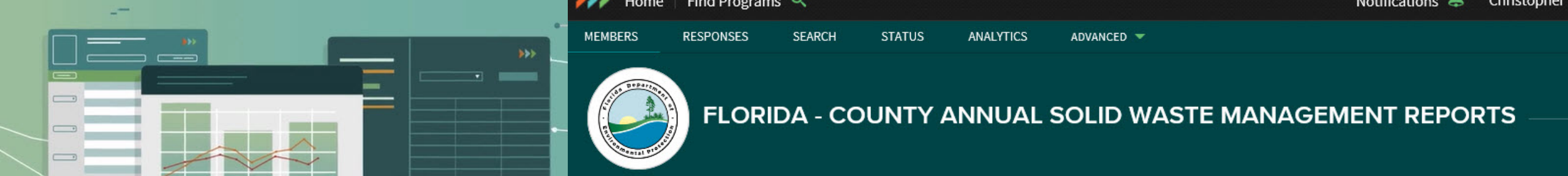

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# WasteCalc Percentages

Material	Total Recycled Tons	% of Total MSW Collected	Total MSW collected (in Tons)
Newspaper	6,214	0.95%	10,856
Glass	12,181	2.03%	23,079
Aluminum Cans	1,478	0.28%	3,198
Plastic Bottles	1,721	0.98%	11,105
Steel Cans	1,260	0.42%	4,818
Corrugated Boxes	11,277	10.6%	120,635
Office Paper	1,227	1.27%	14,399
Yard Trash	121	15.71%	178,843
Other Plastics	3,547	6.39%	72,715
Ferrous Metals	45,261	5.41%	61,523
White Goods	45,261	7.01%	79,754
Non Ferrous Metals	24,071	2.98%	33,894
Other Paper	7,399	11.26%	128,192
Textiles	1,213	2.25%	25,587
C&D Debris	29,468	10.78%	122,744
Food Waste	135	7.34%	83,529
Miscellaneous	0	14.01%	159,511
Tires	43	0.34	3,847
Process Fuel	0	0%	0
<b>Total Recycled</b>	<b>191,877</b>		
<b>Total MSW collected</b>		<b>100%</b>	<b>1,138,229</b>



# Re-TRAC

## Collected Tons

- **Collected Tons by commodity must equal Total MSW Collected Tons.**
- **If the totals are different, adjust Collected Miscellaneous amount to make them equal.**



# Re-TRAC

**Complete the Generator Type data:  
Single Family, Multi-Family, Commercial**

- **Total Units**
- **Residents Per Unit**
- **Collected Tons**
- **Recycled Tons**



# Re-TRAC

## County Average Solid Waste Disposal Fees

- Class I
- White Goods
- Asbestos
- Yard Trash
- C&D
- WTE



**YOU ARE DONE!!!!**