





ANNUAL SOLID WASTE MANAGEMENT REPORT TRAINING

Suzanne Borroff
Jennifer Ciaravella

Division of Waste Management / Waste Reduction
Florida Department of Environmental Protection

Tallahassee, FL | March 8, 2024



SOLID WASTE MANAGEMENT REPORT OVERVIEW

Presentation Agenda

- **Recovered Materials**
- **Recovered Materials Dealers**
- **Construction and Demolition Debris**
- **Certified and Non-Certified Tons**
- **Workbook**
- **WasteCalc**
- **Re-TRAC**



SOLID WASTE MANAGEMENT REPORT OVERVIEW

Timeline

Feb 1: Recovered Materials Dealer, C&D and Class I/III annual reports due to FDEP.

Mar 1: Above reports submitted to the counties by FDEP.

Apr 1: County Annual Solid Waste Management Reports due to FDEP.

Jul 1: Annual Solid Waste Management Report published on FDEP website.



RECOVERED MATERIALS

- **Paper.**
- **Plastic.**
- **Metal.**
- **Glass.**
- **Textiles.**
- **Rubber (other than tires).**



RECOVERED MATERIALS DEALER

An entity that recovers & ships
600 Tons or more per year
of Recovered Materials.



RECOVERED MATERIALS PROCESSING FACILITY (RMPF)

Recovered Materials Processing Facility (RMPF)

- Only processes Recovered Materials.
- Does not require a solid waste permit.

Materials Recovery Facility (MRF)

- Processes solid waste.
- Requires a solid waste permit.



CONSTRUCTION AND DEMOLITION

- **Steel.**
- **Glass.**
- **Brick.**
- **Concrete.**
- **Asphalt roofing material.**
- **Pipe.**
- **Gypsum wallboard.**
- **Lumber.**



CONSTRUCTION AND 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 AND DEMOLITION

What Counts?

Basically, all C&D that has been **processed**, and **reused** or **shipped**.



CONSTRUCTION AND 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.



CERTIFIED TONS

Tons Reported to FDEP that FDEP Provides to the Counties:

- Recovered Materials Dealers Tons.
- Construction and Demolition Debris Tons.
- Class I & III Landfill Tons.



NON-CERTIFIED TONS

Tons that *You* can locate in addition to those certified by FDEP:

- Concrete.
- Food.
- Miscellaneous Retail.
- Household Hazardous Waste.
- Used Cooking oil.
- Used motor oil.
- Used auto batteries.



COMPLETING THE WORKBOOK

NON-CERTIFIED TONS TAB

Shipped Tons	Commodity	Company	concrete) ie. Landfill cover, fill, mulch, etc.	Address	City	Zip	Phone Number	Contact Name
0	Misc. Tab Total	Total from misc. worksheet tab						
	Processed Fuel	Total From Re-TRAC						
	White Goods	Total From Re-TRAC						

Ensure commodities match categories in the Re-TRAC Annual report:

- Paper.
- Plastic, Metals, Yard Trash.
- Processed fuel.
- Miscellaneous total.
- White goods.



COMPLETING THE WORKBOOK

MISCELLANEOUS TAB

County:							
Shipped Tons	Commodity	Company	Address	City	Zip	Phone Number	Contact Name

Anything that does not have a category in Re-TRAC such as batteries, paint, used cooking & motor oil, e-waste.

The Miscellaneous total will automatically populate in the Non-Certified Tons tab and the total goes in the Miscellaneous category in Re-TRAC.



COMPLETING THE WORKBOOK

LANDFILLED TONS TAB

Facility Name	Facility Type	County Owned?	Landfilled Tons	Comments
Certified C&D Tons	NA	NA		
COUNTY OWNED FACILITIES				
	Class I	Yes		
	Class III	Yes		
Landfilled/Disposed Tons Not Included Above				
Transferred Out of State		No		
		No		
		No		
		No		
		No		
		No		
		No		
		No		
		No		
		No		
		No		
		No		
		No		
Total Landfilled			0	

Account for **All** landfilled tons generated in your county which includes:

- 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 in Landfill Report tons minus the difference and why in comment section.



COMPLETING THE WORKBOOK

Where can you find additional uncertified tons?

- Concrete processors.
- Food banks.
- Big-box stores.
- County HHW collection events.
- Food service industry.
- Auto service industry.



STARTING THE REPORT IN Re-TRAC

Enter Certified RM
and C&D.

Enter Non-Certified
Materials Tons From
Workbook.

Enter MSW
Management Data.

MATERIAL	COLLECTED TONS	DEP CERTIFIED #’S	NON-CERTIFIED RECYCLING #’S	TOTAL RECYCLED TONS (DEP CERTIFIED #’S + NON-CERTIFIED RECYCLING #’S) [b]	% RECYCLED
Newspaper [c]					
Glass [c]					
Aluminum Cans [c]					
Plastic Bottles [c]					
Steel Cans [c]					
Corrugated Paper [c]					
Office Paper [c]					
Yard Trash [c]					
Other Plastics					
Ferrous Metals [d]					
White Goods [d]					
Non Ferrous Metal					
Other Paper					
Textiles					
C&D Debris					
Food					
Miscellaneous					
Tires					
Process Fuel [e][f]					

MSW Management

Landfilled (including Landfilled Combustor Ash): *

REQUIRED

tons

Gross Combusted (WTE Input): *

REQUIRED

tons

Landfilled Combustor Ash [g]: *

REQUIRED

tons

Combustor Material Recycled [h]:

0

tons

Renewable Energy (other than WTE) [ww]:

tons

Net Combusted Tons:

0

= (Gross Combusted + Renewable Energy - Landfilled Combustor Ash - Combuster Material Recycled)

Recycled Tons [b]:

tons



Re-TRAC

Workbook:

Non-Certified Total

=

Misc. Tab Total

=

Landfill Tab Total

=

Re-TRAC:

Non-Certified Column

Misc. Category

Landfilled Total



USING WASTE-CALC



WASTE-CALC PUBLIC REPORTS

Division of Waste Management

Estimate your county's waste composition data online

2019 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.

2019 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.

Should you have questions or comments about WasteCalc, please contact: Jennifer L. Simmons at 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://prodapps.dep.state.fl.us/wastecalc/>



USING WASTE-CALC

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.



USING WASTE-CALC

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

WASTECALC		
1	Current Year:	2022 ▾
2	Enter County:	▾
3	Enter County Population:	
4	Enter MSW Landfilled (in tons):	
5	Enter Collected C&D (in tons)*:	
6	Enter MSW Net Combusted by WTE (in tons):	
7	Enter MSW Net Combusted by Renewable Energy (not WTE) (in tons):	



WASTE-CALC TONS

WASTECALC		
1	Data Year (DON'T EDIT):	2015
2	Current Year:	2017 ▼
3	Enter County:	Alachua ▼
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
If not using US EPA MSW Data, enter your most recent recycling data (in tons)		
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



WASTE-CALC 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
Total Recycled	191,877		
Total MSW collected		100%	1,138,229



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.



THANK YOU

Suzanne Borroff

850-245-8933

Suzanne.Boroff@FloridaDEP.gov

Jennifer Ciaravella

850-245-8706

Jennifer.Ciaravella@FloridaDEP.gov

Division of Waste Management / Waste Reduction
Florida Department of Environmental Protection

