

SWANA BREAK OUT SESSION: Achieving 75% and Beyond

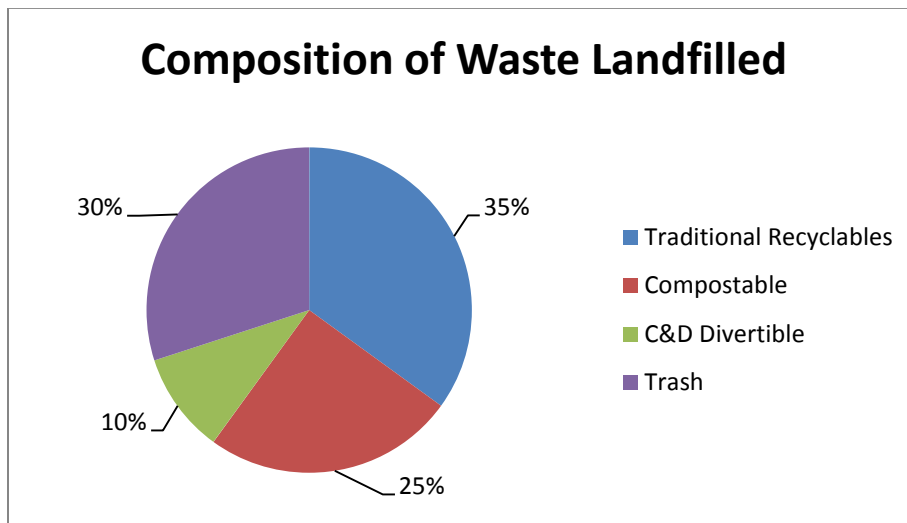
Mission: You are the solid waste system leaders for Swannarft County, Florida. Usually a peaceful community nestled in wherever Florida, your BOCC has just demanded to know what your plan is for the solid waste system of Swannarft County over the next decade, and how much your plan will cost. The BOCC is aware of the State's 75% diversion by 2020 mandate and they want to know if the County will meet it. Some commissioners, particularly committed to sustainability, also want to know how far beyond 75% Swannarft County can take diversion. Be aware that County budgets are tight and some commissioners have directed you to pay particular attention to cost while developing and implementing the solid waste plan. There are several VERY vocal constituents in Swannarft County that are not afraid to call their commissioners to advocate for their varying positions. You will meet these constituents shortly, and you must do your best to consider their points of view.

Craft the best path forward for Swannarft County, Florida. Can you meet and exceed the 75% recycling goal? At what cost?

SWANNARFT COUNTY ASSUMPTIONS:

- Population: 1,000,000
- Annual total tons generated (1.84 tons per capita): 1,840,000
- Annual tons disposed at Swannarft County Landfill (60% of total): 1,104,000
- Annual tons recycled via single stream processing contract with private operator (30% of total): 552,000
- Annual tons of yard waste mulched and composted at the landfill (5% of total): 92,000
- Annual tons of C&D diverted through pre-processing at Swannarft County Landfill(5% of total): 92,000
- Current diversion rate: **40%**

Swannarft County Landfilled Waste Composition:



Instructions:

- Using the table on the back, determine which strategies you will implement in Swannarft County.
- Your budget is \$200, unless you dare to exceed your budget in order to divert as much as possible. If you do exceed your budget, be prepared to explain yourself to your BOCC.
- You must account for your landfill cost in your \$200 budget (see the last section on the table) once you've decided on diversion strategies.

Strategies, by material/option type	Additional Diversion Achievable from tons currently landfilled		Incremental Effect on Current 40% rate	Item Cost	Track Cost for Strategies Selected
	Percent	Tons			
Traditional Recyclables	<i>Total of 386,400 tons (35%) of Currently Landfilled Waste</i>				
Increase Education	2%	7,728	0.5%	\$ 10	
Mandatory Recycling Ordinance (all generator sectors)	15%	57,960	3.5%	\$ 15	
Material Bans w/ Enforcement	30%	115,920	6.5%	\$ 20	
Organics/ Compostable	<i>Total of 276,000 (25%) of Currently Landfilled Waste</i>				
Compost Bin Distribution	5.0%	13,800	1.0%	\$ 15	
Commercial food scraps composting at the landfill	35%	96,600	5.5%	\$ 30	
Anaerobic digestion	70%	193,200	10.5%	\$ 60	
C&D Divertible	<i>Total of 110,400 tons (10%) of Currently Landfilled Waste</i>				
Fee structure change for source separated loads	20%	22,080	1.5%	\$ 10	
Mandatory 50% C&D Diversion Ordinance (generator focused)	50%	55,200	3.0%	\$ 20	
C&D Debris Recycling System	70%	77,280	4.5%	\$ 45	
Facilities/Technologies	<i>Total of 331,200 (30%) of Currently Landfilled Waste.</i>				
Build a Mixed Waste Processing Facility (300,000 tons per year)	70%	210,000	11.5%	\$ 55	
Waste to Energy/Conversion	<i>Total of 90% of EfW processible waste (Trash, Organics and Traditional Recyclables)</i>				
Build a WTE Facility	Just residuals	552,000	15%	\$ 130	
	Residuals and leftover organics	634,800	17%	\$ 140	
	Residuals, leftover organics, leftover recyclables	905,280	25%	\$ 160	
Build Alternative Technology (gasification, pyrolysis, etc.)	Residuals, leftover organics, leftover recyclables	905,280	25%	\$ 250	
Total Additional Diversion from Strategies Selected					
Landfill (MUST SELECT ONE BASED ON WORK ABOVE)					
Additional Diversion Effect Of:	40-60%			\$ 15	
Additional Diversion Effect Of:	30-40%			\$ 25	
Additional Diversion Effect Of:	0-30%			\$ 40	
Total Overall System Costs					