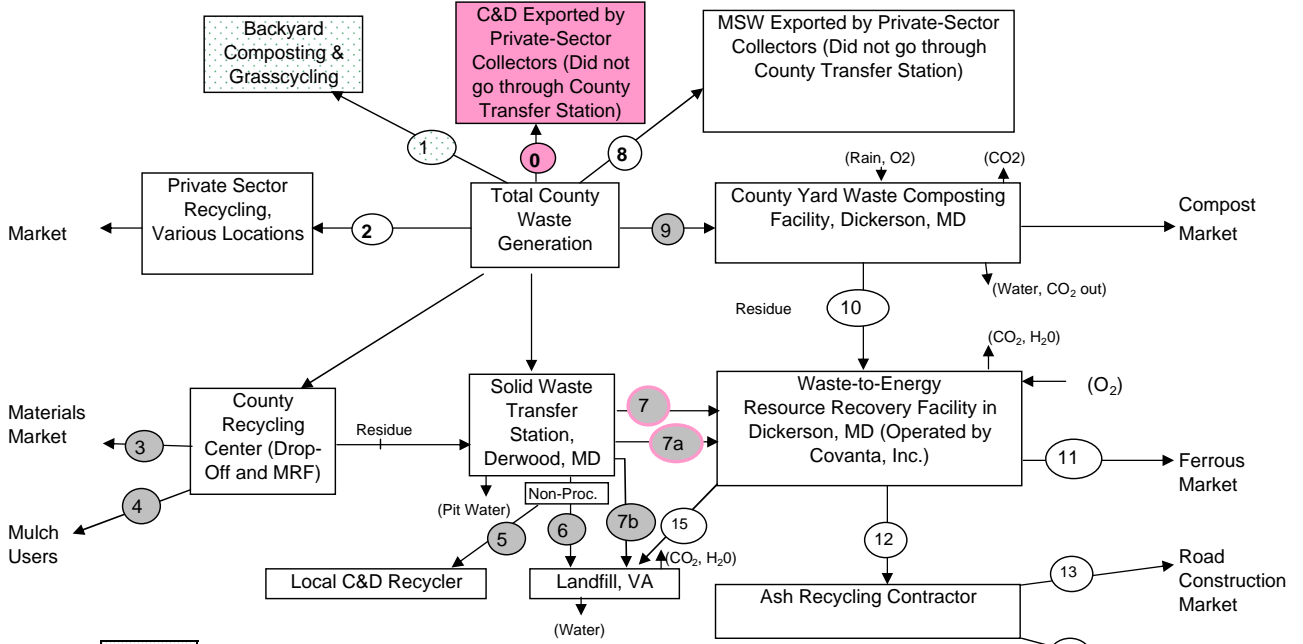


MATERIAL FLOW DIAGRAM

Fiscal Year 2008



KEY:

1	Calculated by netting measured collection from estimated yard waste generation.
2, 8	Audited or otherwise documented. Often based on truck scales of others.
	Data is from State-certified County truck scales Owned by County.
	Data is from State-certified truck scales, privately operated under contract to County.
	This color indicates C&D waste, which is not MSW, not eligible for recycling and is not to be included in recycling rate calculation.*

Total Waste Generation, Including C&D Exported by Private Sector	1,488,636
County-Managed Waste (CMW) = 1 + 2 + 3 + 4 + 5 + 6 + 7+7a+7b + 8 + 9 =	1,359,977
MSW Generated (above less streams 5, 6 and 7a)	1,249,376

Stream No.	Material Description	Sources of Data	Total (tons/yr)	Comments
0	Construction & Demo Debris Private Export	Licensed Collector Reports under ER 92-59	128,660	Not County-managed and not eligible for recycling
1	Yard Waste Source Reduction	Calculated w/ estimates & measurements	80,617	17.5% of MSW less leakage less yard waste facility tons
2	Recycled via non-County Facilities	Collector, Processor, Business & Self-Hauler Rpts.	246,585	Filtered to avoid double-counting
3	County Recycling Facility Material Sales	County TS & MRF Scales, Outbound	101,584	Outgoing to Market from County Recycling Center
4	Mulch Loaded Out From TS	County Transfer Station (TS) Scale Records	36,453	Scaled Out As Taken to Mulch Preserve Locations
5	Non-Processibles Recycled**	County TS Scale Out Records	5,057	
6	Non-Processibles Land filled**	County Trans. Stat'n. & Covanta Scale Records	75,424	
7	Loaded on Rail to RRF (MSW burned)	Covanta Scales as Loaded	549,541	Total Tons Loaded on Rail to RRF Net of 7a
7a	Loaded on Rail to RRF (C&D Burned)	County Transfer Station (TS) Scale Records	30,119	In-Bound C&D less Outbound Non-Processibles Landfilled
7b	By-pass (Accepted Processible Land filled)	County TS Scale Out Records	-	
8	Refuse Disposed Out of County	Audited 6-Mo. Hauler Reports	160,556	Private Sector MSW Collection not delivered to County TS
9	All Incoming Leaves and Grass	Compost Facility & TS Scale Records	74,040	Includes 0 to Backup Composters
10	Composting Residue to RRF	Covanta Scale Records	-	
11	Ferrous recovered at RRF	Covanta Scale Records	14,222	
12	Ash Loaded to Ash Recycling Contractor	No ash recycling at this time.	-	No ash recycling at this time.
13	Non-Metal Outgoing from ash Recycler	No ash recycling at this time.	-	No ash recycling at this time.
14	Metals (Fe, Cu, Brass, Coins)	No ash recycling at this time.	-	No ash recycling at this time.
15	All ash not recycled	Covanta Scale Records	183,441	

Recycling Rate Calculations		Numerator	Denominator	Rate
County Recycling Rate	$(1 + 2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 5 - 6 - 7a) =$	553,501	1,249,376	44.3%
County Recycling Rate "Without Ash"	(Same as above but without Stream 13)	553,501	1,249,376	44.3%
State Recycling Rate	$(2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 1 - 5 - 6 - 7a) =$	465,111	1,161,006	40.1% ***
State Recycling & Reduction Rate	$(2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 1 - 5 - 6) + 5.0% =$	465,111	1,161,006	45.1% ***
EPA Recycling Rate	$(2 + 3 + 4 + 9 - 10 + 11 + 14) / (CMW - 1 - 5 - 6 - 7a) =$	465,131	1,161,006	40.1% ***

Notes:

- ** Nonprocessibles are Construction & Demolition-type materials: not eligible for recycling credit, but are County-managed solid waste.
- *** For State and EPA methods, numerator and denominator exclude motor oil

Nomenclature:

- "C&D" means "Construction and Demolition" waste, exclusive of MSW, traditionally managed by the private sector, but much now comes to County TS.
- "CMW" means "County Management Waste". It includes all MSW, whether or not exported by private sector collectors, but only C&D delivered to TS.
- "MSW" stands for "Municipal Solid Waste", and represents the waste eligible for recycling under the State recycling law, regulations and guidelines.
- "TS" stands for the County's "Transfer Station", located in Derwood, Maryland, just south of Gaithersburg.