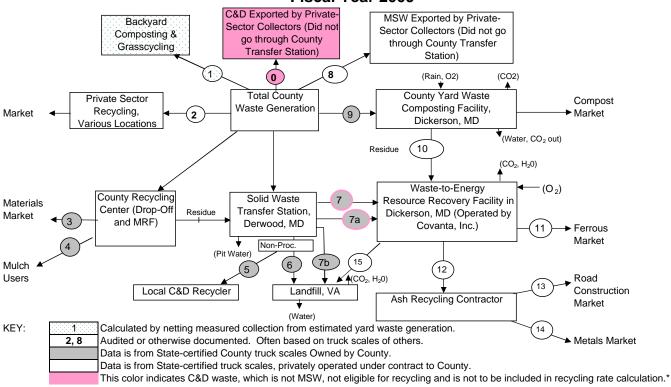
MATERIAL FLOW DIAGRAM Fiscal Year 2009



Total Waste Generation, Including C&D Exported by Private Secto	1,332,969
County-Managed Waste (CMW) = 1 + 2 + 3 + 4 + 5 + 6 + 7+7a+7b + 8 + 9 =	1,230,775
MSW Generated (above less streams 5, 6 and 7a)	1,121,364

Stream	Material	Sources of Data	Total			
No.	Description		(tons/yr)	Comments		
0	Construction & Demo Debris Private Export	Licensed Collector Reports under ER 92-59	102,193	Not County-managed and not eligible for recycling		
1	Yard Waste Source Reduction	Calculated w/ estimates & measurements	62,475	17.5% of MSW less leakage less yard waste facility tons		
2	Recycled via non-County Facilities	Collector, Processor, Business & Self-Hauler Rpts.	221,631	Filtered to avoid double-counting		
3	County Recycling Facility Material Sales	County TS & MRF Scales, Outbound	90,720	Outgoing to Market from County Recycling Center		
4	Mulch Loaded Out From TS	County Transfer Station (TS) Scale Records	39,754	Scaled Out As Taken to Mulch Preserve Locations		
5	Non-Processibles Recycled**	County TS Scale Out Records	23,554			
6	Non-Processibles Land filled**	County Trans. Stat'n. & Covanta Scale Records	33,265			
7	Loaded on Rail to RRF (MSW burned)	Covanta Scales as Loaded	487,814	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	52,593	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	151,041	Private Sector MSW Collection not delivered to CountyTS		
9	All Incoming Leaves and Grass	Compost Facility & TS Scale Records	67,928	Includes 0 to Backup Composters		
10	Composting Residue to RRF	Covanta Scale Records	-			
11	Ferrous recovered at RRF	Covanta Scale Records	12,862			
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	160,023			

Recycling Rate Calculations		Numerator	Denominator	Rate	
County Recycling Rate	(1 + 2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 5 - 6 -7a) =	495,371	1,121,364	44.2%	_
County Recycling Rate "Without Ash"	(Same as above but without Stream 13)	495,371	1,121,364	44.2%	
State Recycling Rate	(2+3+4+9-10+11+13+14) / (CMW-1-5-6-7a) =	426,457	1,052,462	40.5%	***
State Recycling & Reduction Rate	(2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 1 - 5 - 6) + 5.0% =	426,457	1,052,462	45.5%	
EPA Recycling Rate	(2 + 3 + 4 + 9 - 10 + 11 + 14) / (CMW- 1 - 5 - 6 -7a) =	426,469	1,052,462	40.5%	***
Notes:					

** Nonprocessibles are Construction & Demolition-type materials: not eligible for recycling credit, but are County-managed solid waste.

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.

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^{***} For State and EPA methods, numerator and denominator exclude motor oil