

Contractor's Report to the Board

Significant Tables and Figures

Statewide Waste Characterization Study

December 2004

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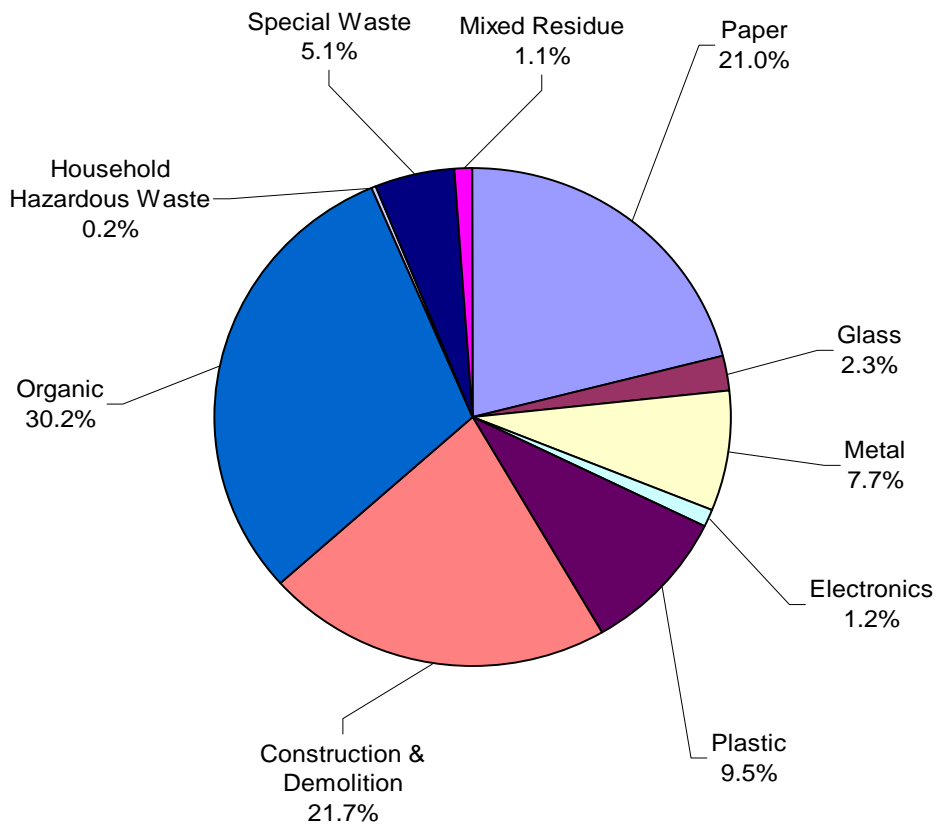
The tables and figures in this document are excerpted from the Targeted Statewide Waste Characterization Study: Waste Disposal and Diversion Findings for Selected Industry Groups, California Integrated Waste Management Board Publication #340-04-005. The table and figure names and numbers match those in the full report. For other data and more information, see the [complete study](#) or the [Executive Summary](#), available at www.ciwmb.ca.gov/Publications/default.asp?pubid=1097. A list of the material types and their definitions used in this study can be found in Appendix B of the study report.

Table 5: Statewide Tonnage and Percentage of Disposed Waste Stream by Sector, 2003

	Est. Percentage of Disposed Waste Stream	Est. Tons Disposed Statewide
Commercial	47.0%	18,924,058
Residential	31.6%	12,721,055
<i>Single-family residential</i>	23.4%	9,403,504
<i>Multifamily residential</i>	8.2%	3,317,551
Self-hauled	21.3%	8,590,215
<i>Commercial self-hauled</i>	17.3%	6,963,322
<i>Residential self-hauled</i>	4.0%	1,626,894
Totals	100.0%	40,235,328

Numbers may not total exactly due to rounding.

Figure B: Overview of California's Overall Disposed Waste Stream, 2003



Numbers may not total exactly due to rounding.

Table 6: Ten Most Prevalent Material Types in California's Overall Disposed Waste System, 2003

Material Type	Est. Pct.	Est. Tons	Cumulative Pct.
Food	14.6%	5,854,352	14.6%
Lumber	9.6%	3,881,214	24.2%
Uncoated Corrugated Cardboard	5.7%	2,312,147	29.9%
Remainder/Composite Paper	5.7%	2,274,433	35.6%
Remainder/Composite Organics	4.4%	1,752,803	40.0%
Leaves and Grass	4.2%	1,696,022	44.2%
Remainder/Composite Construction and Demolition	3.6%	1,452,009	47.8%
Other Miscellaneous Paper	3.5%	1,400,526	51.3%
Bulky Items	3.4%	1,348,224	54.6%
Remainder/Composite Metal	2.5%	1,018,242	57.1%

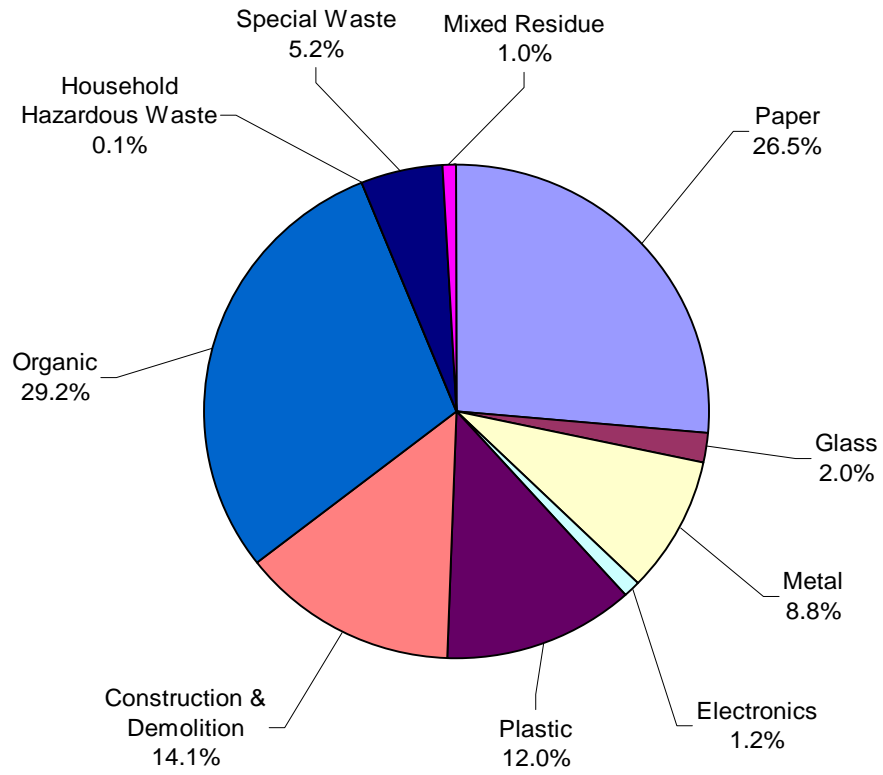
Any differences between *cumulative percent* figures and the sum of *estimated percent* figures are due to rounding.

Table 7: Composition of California's Overall Disposed Waste Stream, 2003

	Est. Pct.	+ / -	Est. Tons		Est. Pct.	+ / -	Est. Tons
Paper	21.0%		8,445,989	Organic	30.2%		12,166,452
Uncoated Corrugated Cardboard	5.7%	1.2%	2,312,147	Food	14.6%	2.6%	5,854,352
Paper Bags	1.0%	0.5%	386,097	Leaves and Grass	4.2%	1.0%	1,696,022
Newspaper	2.2%	0.4%	887,091	Prunings and Trimmings	2.3%	0.6%	920,356
White Ledger	1.1%	0.3%	447,516	Branches and Stumps	0.3%	0.2%	119,754
Colored Ledger	0.1%	0.0%	20,583	Agricultural Crop Residues	0.0%	0.0%	0
Computer Paper	0.1%	0.0%	20,845	Manures	0.1%	0.0%	36,506
Other Office Paper	0.7%	0.2%	296,203	Textiles	2.4%	1.3%	947,789
Magazines and Catalogs	0.8%	0.2%	311,143	Carpet	2.1%	0.7%	838,869
Phone Books and Directories	0.2%	0.1%	89,403	Remainder/Composite Organics	4.4%	0.8%	1,752,803
Other Miscellaneous Paper	3.5%	0.6%	1,400,526				
Remainder/Composite Paper	5.7%	0.7%	2,274,433	Construction & Demolition	21.7%		8,732,074
Glass	2.3%		934,926	Concrete	2.4%	0.9%	966,607
Clear Glass Bottles and Containers	0.9%	0.1%	356,467	Asphalt Paving	0.0%	0.0%	10,414
Green Glass Bottles and Containers	0.4%	0.1%	180,570	Asphalt Roofing	1.9%	1.0%	767,981
Brown Glass Bottles and Containers	0.3%	0.0%	104,568	Lumber	9.6%	1.4%	3,881,214
Other Colored Glass Bottles and Containers	0.0%	0.0%	3,106	Gypsum Board	1.7%	0.8%	676,430
Flat Glass	0.4%	0.4%	151,344	Rock, Soil, and Fines	2.4%	1.0%	977,419
Remainder/Composite Glass	0.3%	0.1%	138,870	Remainder/Composite Construction and Demolition	3.6%	0.8%	1,452,009
Metal	7.7%		3,115,357	Household Hazardous Waste	0.2%		73,599
Tin/Steel Cans	0.8%	0.2%	323,540	Paint	0.0%	0.0%	19,203
Major Appliances	1.5%	2.1%	616,663	Vehicle and Equipment Fluids	0.0%	0.0%	1,000
Used Oil Filters	0.0%	0.0%	1,376	Used Oil	0.0%	0.0%	548
Other Ferrous	2.4%	0.5%	969,676	Batteries	0.1%	0.0%	34,021
Aluminum Cans	0.2%	0.0%	74,851	Remainder/Composite Household Hazardous	0.0%	0.0%	18,827
Other Non-Ferrous	0.3%	0.1%	111,008				
Remainder/Composite Metal	2.5%	0.6%	1,018,242	Special Waste	5.1%		2,038,431
Electronics	1.2%		481,353	Ash	0.1%	0.1%	60,160
Brown Goods	0.1%	0.0%	41,394	Sewage Solids	0.0%	0.0%	0
Computer-related Electronics	0.3%	0.2%	119,917	Industrial Sludge	0.0%	0.0%	0
Other Small Consumer Electronics	0.2%	0.1%	93,273	Treated Medical Waste	0.0%	0.0%	15,367
Television and Other Items with CRTs	0.6%	0.5%	226,769	Bulky Items	3.4%	1.2%	1,348,224
Plastic	9.5%		3,809,699	Tires	0.3%	0.2%	126,633
PETE Containers	0.5%	0.1%	216,134	Remainder/Composite Special Waste	1.2%	1.6%	488,047
HDPE Containers	0.5%	0.1%	189,549				
Miscellaneous Plastic Containers	0.5%	0.1%	206,470	Mixed Residue	1.1%	0.3%	437,448
Plastic Trash Bags	1.0%	0.2%	390,460				
Plastic Grocery and Other Merchandise Bags	0.4%	0.0%	147,038				
Non-Bag Commercial and Industrial Packaging Film	0.7%	0.3%	290,331				
Film Products	0.2%	0.2%	93,073				
Other Film	2.1%	0.6%	826,757				
Durable Plastic Items	1.4%	0.2%	561,543	Totals	100.0%		40,235,328
Remainder/Composite Plastic	2.2%	0.3%	888,343	Sample count:	550		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

Figure C: Overview of Commercial Disposed Waste, 2003



Numbers may not total exactly due to rounding.

Table 9: Ten Most Prevalent Material Types in Commercial Disposed Waste, 2003

Material Type	Est. Pct.	Est. Tons	Cumulative Pct.
Food	18.8%	3,565,086	18.8%
Uncoated Corrugated Cardboard	8.3%	1,565,842	27.1%
Lumber	7.9%	1,498,863	35.0%
Remainder/Composite Paper	7.0%	1,319,968	42.0%
Other Miscellaneous Paper	4.3%	822,247	46.4%
Remainder/Composite Organics	3.3%	618,265	49.6%
Other Film	3.2%	611,527	52.9%
Major Appliances	2.8%	534,565	55.7%
Remainder/Composite Plastic	2.7%	511,069	58.4%
Remainder/Composite Special Waste	2.5%	478,141	60.9%

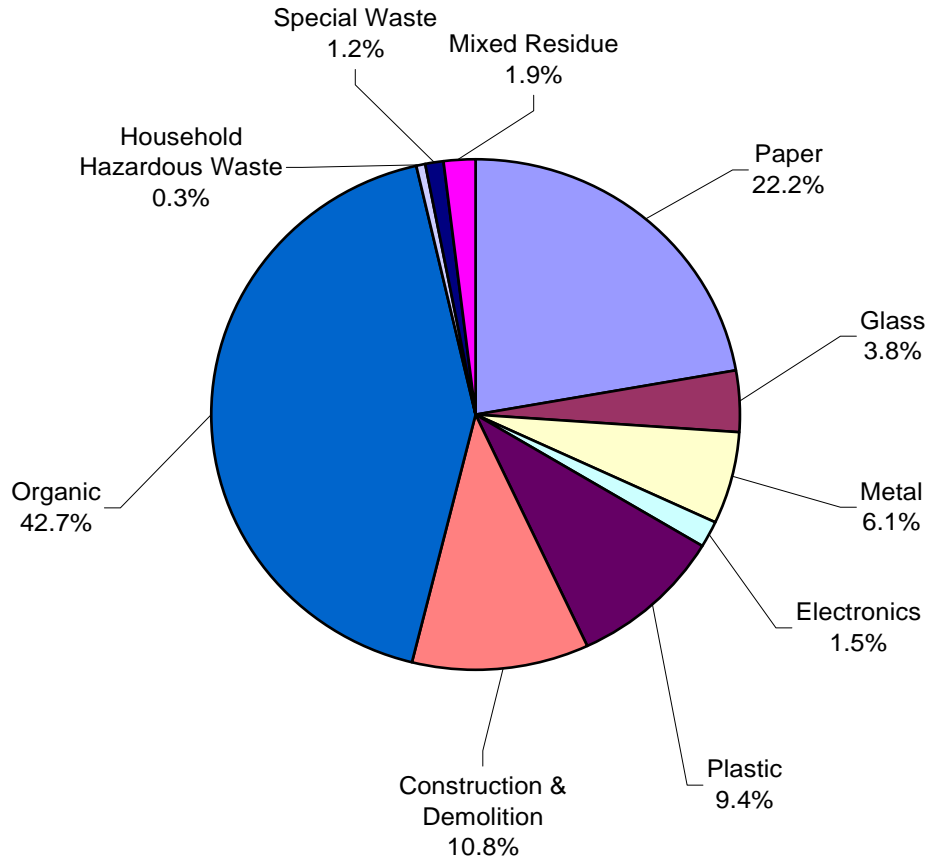
Any differences between *cumulative percent* figures and the sum of *estimated percent* figures are due to rounding.

Table 10: Composition of Commercial Disposed Waste, 2003

	Est. Pct.	+ / -	Est. Tons		Est. Pct.	+ / -	Est. Tons
Paper	26.5%		5,010,261	Organic	29.2%		5,531,661
Uncoated Corrugated Cardboard	8.3%	2.3%	1,565,842	Food	18.8%	5.4%	3,565,086
Paper Bags	1.5%	1.0%	281,423	Leaves and Grass	2.4%	1.3%	456,781
Newspaper	2.1%	0.7%	401,257	Prunings and Trimmings	0.7%	0.3%	139,999
White Ledger	1.2%	0.5%	234,511	Branches and Stumps	0.2%	0.3%	35,316
Colored Ledger	0.1%	0.0%	11,616	Agricultural Crop Residues	0.0%	0.0%	0
Computer Paper	0.1%	0.1%	17,679	Manures	0.0%	0.0%	973
Other Office Paper	1.0%	0.4%	187,577	Textiles	2.3%	2.5%	433,989
Magazines and Catalogs	0.7%	0.3%	138,555	Carpet	1.5%	0.9%	281,252
Phone Books and Directories	0.2%	0.1%	29,586	Remainder/Composite Organics	3.3%	1.4%	618,265
Other Miscellaneous Paper	4.3%	1.2%	822,247				
Remainder/Composite Paper	7.0%	1.5%	1,319,968	Construction & Demolition	14.1%		2,670,504
				Concrete	1.8%	1.0%	344,379
Glass	2.0%		370,098	Asphalt Paving	0.0%	0.0%	7,030
Clear Glass Bottles and Containers	0.6%	0.2%	117,439	Asphalt Roofing	0.8%	0.9%	153,859
Green Glass Bottles and Containers	0.3%	0.2%	57,410	Lumber	7.9%	1.8%	1,498,863
Brown Glass Bottles and Containers	0.1%	0.0%	10,684	Gypsum Board	0.4%	0.3%	70,779
Other Colored Glass Bottles and Containers	0.0%	0.0%	67	Rock, Soil, and Fines	1.1%	0.9%	209,758
Flat Glass	0.7%	0.9%	137,827	Remainder/Composite Construction and Demolition	2.0%	0.7%	385,835
Remainder/Composite Glass	0.2%	0.2%	46,671				
				Household Hazardous Waste	0.1%		21,000
Metal	8.8%		1,656,648	Paint	0.0%	0.0%	7,052
Tin/Steel Cans	0.9%	0.3%	169,014	Vehicle and Equipment Fluids	0.0%	0.0%	0
Major Appliances	2.8%	4.5%	534,565	Used Oil	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	Batteries	0.0%	0.0%	8,040
Other Ferrous	2.4%	0.8%	452,411	Remainder/Composite Household Hazardous	0.0%	0.0%	5,908
Aluminum Cans	0.1%	0.0%	24,993				
Other Non-Ferrous	0.3%	0.2%	63,525	Special Waste	5.2%		975,182
Remainder/Composite Metal	2.2%	1.0%	412,140	Ash	0.1%	0.2%	25,894
				Sewage Solids	0.0%	0.0%	0
Electronics	1.2%		236,190	Industrial Sludge	0.0%	0.0%	0
Brown Goods	0.0%	0.0%	6,344	Treated Medical Waste	0.1%	0.1%	14,926
Computer-related Electronics	0.3%	0.3%	62,884	Bulky Items	1.8%	1.2%	348,301
Other Small Consumer Electronics	0.2%	0.2%	38,039	Tires	0.6%	0.4%	107,920
Television and Other Items with CRTs	0.7%	0.9%	128,923	Remainder/Composite Special Waste	2.5%	3.5%	478,141
Plastic	12.0%		2,272,432	Mixed Residue	1.0%	0.5%	180,083
PETE Containers	0.5%	0.1%	96,945				
HDPE Containers	0.4%	0.1%	78,641				
Miscellaneous Plastic Containers	0.6%	0.3%	117,921				
Plastic Trash Bags	1.4%	0.4%	269,352				
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	38,930				
Non-Bag Commercial and Industrial Packaging Film	1.0%	0.5%	188,833				
Film Products	0.4%	0.4%	72,077				
Other Film	3.2%	1.4%	611,527				
Durable Plastic Items	1.5%	0.5%	287,135	Totals	100.0%		18,924,058
Remainder/Composite Plastic	2.7%	0.7%	511,069	Sample count:	200		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

Figure D: Overview of Overall Residential Disposed Waste, 2003



Numbers may not total exactly due to rounding.

Table 11: Ten Most Prevalent Material Types in Overall Residential Disposed Waste, 2003

Material Type	Est. Pct.	Est. Tons	Cumulative Pct.
Food	17.3%	2,199,406	17.3%
Leaves and Grass	7.8%	996,295	25.1%
Remainder/Composite Organics	7.0%	892,219	32.1%
Remainder/Composite Paper	6.7%	854,422	38.9%
Prunings and Trimmings	5.3%	673,405	44.1%
Lumber	4.2%	532,179	48.3%
Other Miscellaneous Paper	3.9%	495,245	52.2%
Newspaper	3.7%	464,919	55.9%
Uncoated Corrugated Cardboard	3.6%	459,622	59.5%
Textiles	3.5%	446,522	63.0%

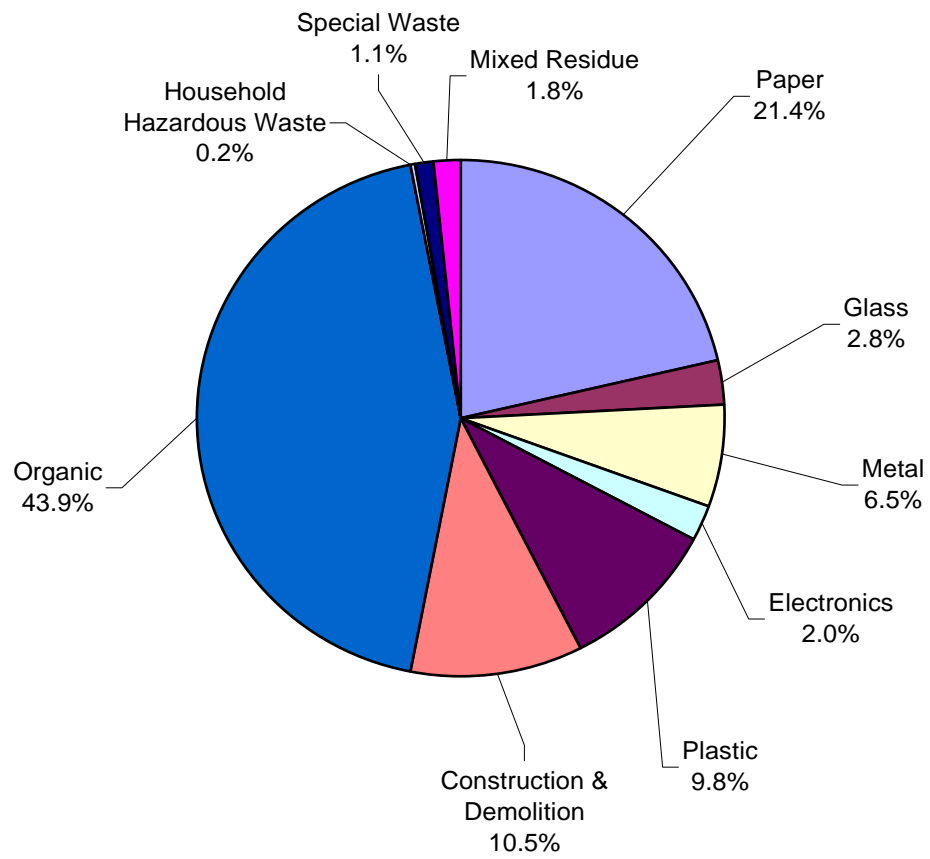
Any differences between cumulative percent figures and the sum of estimated percent figures are due to rounding.

Table 12: Composition of Overall Residential Disposed Waste, 2003

	Est. Pct.	+ / -	Est. Tons		Est. Pct.	+ / -	Est. Tons
Paper	22.2%		2,825,640	Organic	42.7%		5,433,236
Uncoated Corrugated Cardboard	3.6%	0.7%	459,622	Food	17.3%	1.4%	2,199,406
Paper Bags	0.7%	0.1%	95,320	Leaves and Grass	7.8%	1.9%	996,295
Newspaper	3.7%	0.5%	464,919	Prunings and Trimmings	5.3%	1.6%	673,405
White Ledger	1.2%	0.3%	158,781	Branches and Stumps	0.1%	0.1%	16,428
Colored Ledger	0.1%	0.0%	7,595	Agricultural Crop Residues	0.0%	0.0%	0
Computer Paper	0.0%	0.0%	2,457	Manures	0.3%	0.1%	35,534
Other Office Paper	0.7%	0.1%	84,767	Textiles	3.5%	1.3%	446,522
Magazines and Catalogs	1.2%	0.2%	151,465	Carpet	1.4%	0.8%	173,427
Phone Books and Directories	0.4%	0.2%	51,047	Remainder/Composite Organics	7.0%	0.8%	892,219
Other Miscellaneous Paper	3.9%	0.4%	495,245				
Remainder/Composite Paper	6.7%	0.6%	854,422	Construction & Demolition	10.8%		1,374,362
Glass	3.8%		478,692	Concrete	0.7%	0.9%	92,642
Clear Glass Bottles and Containers	1.6%	0.3%	208,314	Asphalt Paving	0.0%	0.0%	0
Green Glass Bottles and Containers	0.9%	0.2%	116,732	Asphalt Roofing	0.1%	0.0%	7,305
Brown Glass Bottles and Containers	0.7%	0.1%	91,309	Lumber	4.2%	1.3%	532,179
Other Colored Glass Bottles and Containers	0.0%	0.0%	1,766	Gypsum Board	1.2%	0.8%	153,826
Flat Glass	0.1%	0.1%	10,243	Rock, Soil, and Fines	2.7%	1.5%	338,515
Remainder/Composite Glass	0.4%	0.1%	50,328	Remainder/Composite Construction and Demolition	2.0%	0.8%	249,895
Metal	6.1%		770,009	Household Hazardous Waste	0.3%		43,975
Tin/Steel Cans	1.0%	0.1%	130,196	Paint	0.1%	0.1%	10,856
Major Appliances	0.0%	0.0%	0	Vehicle and Equipment Fluids	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	1,376	Used Oil	0.0%	0.0%	466
Other Ferrous Metal	1.6%	0.4%	203,679	Batteries	0.2%	0.1%	23,684
Aluminum Cans	0.4%	0.1%	47,280	Remainder/Composite Household Hazardous	0.1%	0.0%	8,968
Other Non-Ferrous Metal	0.2%	0.0%	28,127				
Remainder/Composite Metal	2.8%	0.9%	359,351	Special Waste	1.2%		156,330
Electronics	1.5%		195,171	Ash	0.1%	0.1%	8,463
Brown Goods	0.2%	0.1%	27,019	Sewage Solids	0.0%	0.0%	0
Computer-related Electronics	0.3%	0.5%	43,640	Industrial Sludge	0.0%	0.0%	0
Other Small Consumer Electronics	0.2%	0.3%	26,834	Treated Medical Waste	0.0%	0.0%	441
Television and Other Items with CRTs	0.8%	1.1%	97,678	Bulky Items	1.0%	0.9%	122,730
				Tires	0.1%	0.1%	16,125
				Remainder/Composite Special Waste	0.1%	0.0%	8,570
Plastic	9.4%		1,201,588	Mixed Residue	1.9%	0.4%	242,051
PETE Containers	0.9%	0.1%	110,004				
HDPE Containers	0.8%	0.1%	104,480				
Miscellaneous Plastic Containers	0.7%	0.1%	85,276				
Plastic Trash Bags	0.9%	0.1%	112,668				
Plastic Grocery and Other Merchandise Bags	0.8%	0.1%	104,895				
Non-Bag Commercial and Industrial Packaging Film	0.0%	0.0%	2,684				
Film Products	0.1%	0.1%	16,420				
Other Film	1.6%	0.2%	199,769				
Durable Plastic Items	1.3%	0.2%	166,402	Totals	100.0%		12,721,055
Remainder/Composite Plastic	2.4%	0.3%	298,992	Sample count:	150		

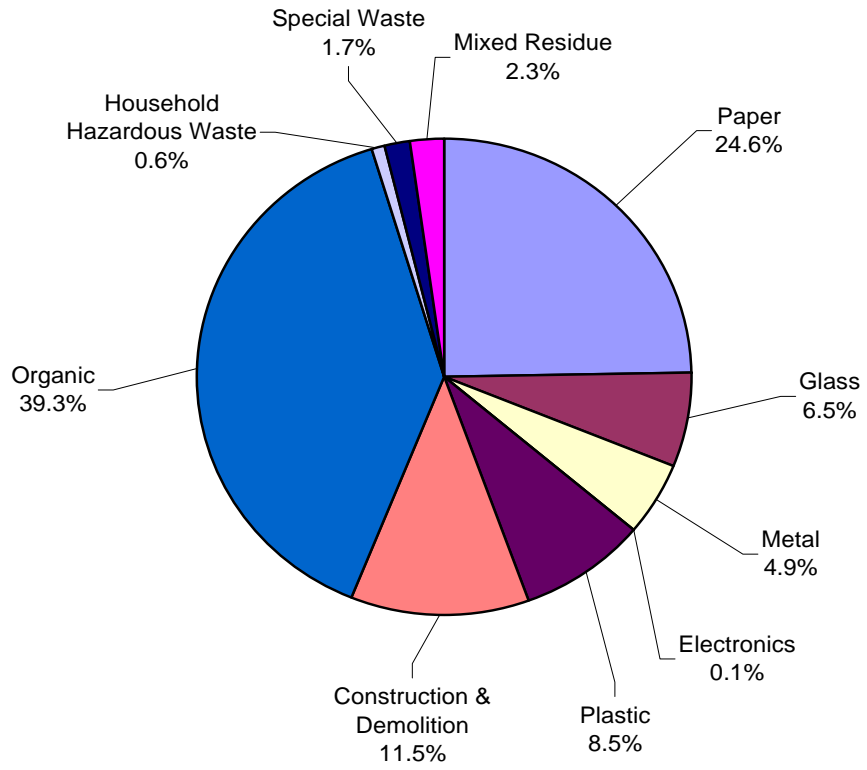
Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

Figure E: Overview of Single-Family Residential Disposed Waste, 2003



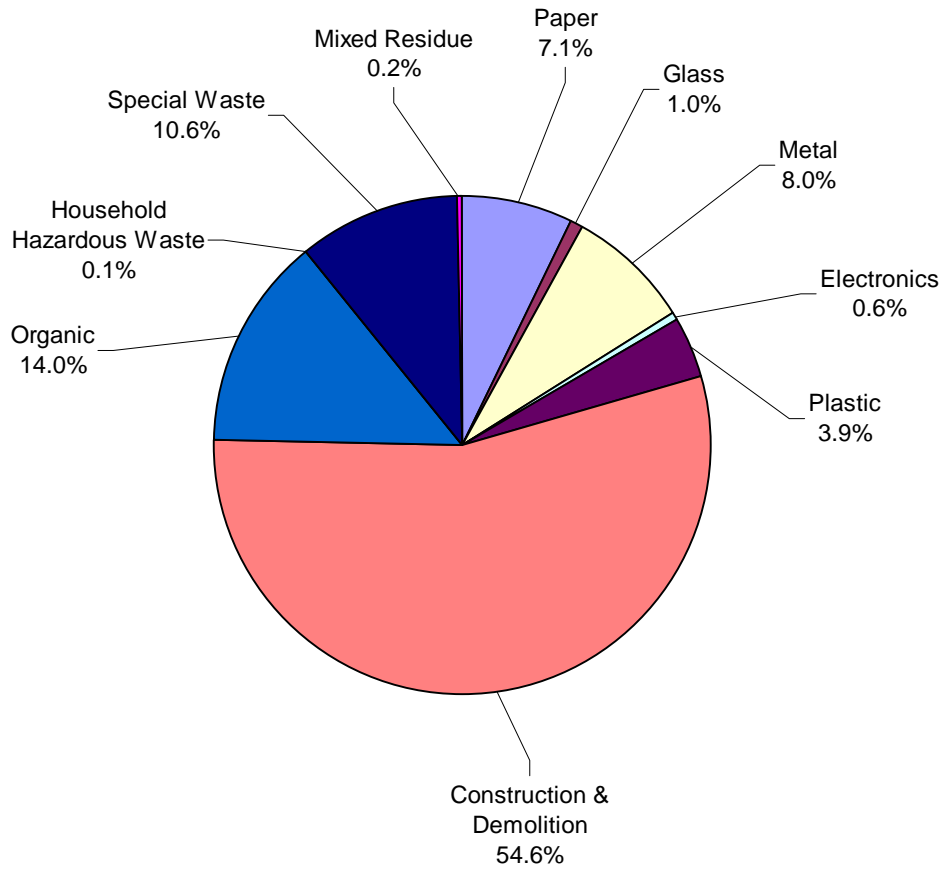
Numbers may not total exactly due to rounding.

Figure F: Overview of Multifamily Residential Disposed Waste, 2003



Numbers may not total exactly due to rounding.

Figure G: Overview of Overall Self-Hauled Disposed Waste, 2003



Numbers may not total exactly due to rounding.

Table 21: Ten Most Prevalent Material Types in Overall Self-Hauled Disposed Waste, 2003

Material Type	Est. Pct.	Est. Tons	Cumulative Pct.
Lumber	21.5%	1,850,171	21.5%
Bulky Items	10.2%	877,193	31.7%
Remainder/Composite Construction and Demolition	9.5%	816,279	41.3%
Asphalt Roofing	7.1%	606,817	48.3%
Concrete	6.2%	529,586	54.5%
Gypsum Board	5.3%	451,825	59.7%
Rock, Soil, and Fines	5.0%	429,146	64.7%
Carpet	4.5%	384,190	69.2%
Other Ferrous Metal	3.7%	313,585	72.9%
Uncoated Corrugated Cardboard	3.3%	286,683	76.2%

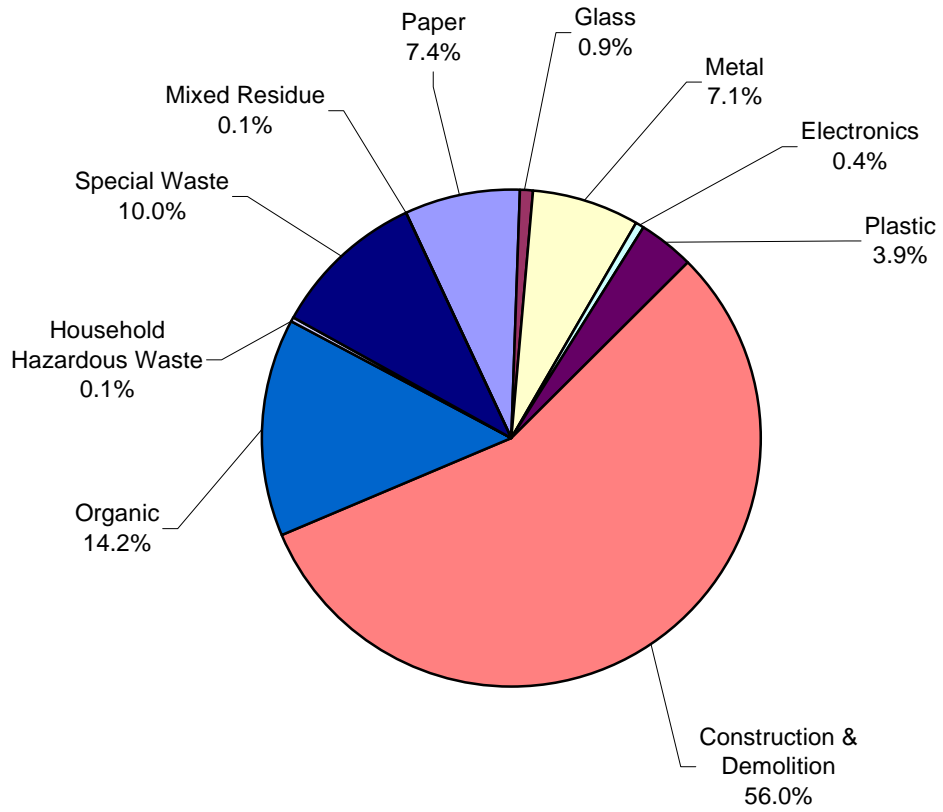
Any differences between *cumulative percent* figures and the sum of *estimated percent* figures are due to rounding.

Table 23: Composition of Overall Self-Hauled Disposed Waste, 2003

	Est. Pct.	+ / -	Est. Tons		Est. Pct.	+ / -	Est. Tons
Paper	7.1%		610,088	Organic	14.0%		1,201,555
Uncoated Corrugated Cardboard	3.3%	1.2%	286,683	Food	1.0%	0.8%	89,860
Paper Bags	0.1%	0.0%	9,353	Leaves and Grass	2.8%	2.6%	242,946
Newspaper	0.2%	0.1%	20,915	Prunings and Trimmings	1.2%	0.7%	106,952
White Ledger	0.6%	0.8%	54,224	Branches and Stumps	0.8%	0.8%	68,009
Colored Ledger	0.0%	0.0%	1,373	Agricultural Crop Residues	0.0%	0.0%	0
Computer Paper	0.0%	0.0%	709	Manures	0.0%	0.0%	0
Other Office Paper	0.3%	0.2%	23,860	Textiles	0.8%	0.4%	67,278
Magazines and Catalogs	0.2%	0.2%	21,123	Carpet	4.5%	2.5%	384,190
Phone Books and Directories	0.1%	0.1%	8,771	Remainder/Composite Organics	2.8%	1.6%	242,319
Other Miscellaneous Paper	1.0%	0.4%	83,035				
Remainder/Composite Paper	1.2%	0.5%	100,043	Construction & Demolition	54.6%		4,687,209
Glass	1.0%		86,136	Concrete	6.2%	3.2%	529,586
Clear Glass Bottles and Containers	0.4%	0.2%	30,713	Asphalt Paving	0.0%	0.1%	3,384
Green Glass Bottles and Containers	0.1%	0.1%	6,428	Asphalt Roofing	7.1%	4.3%	606,817
Brown Glass Bottles and Containers	0.0%	0.0%	2,576	Lumber	21.5%	4.6%	1,850,171
Other Colored Glass Bottles and Containers	0.0%	0.0%	1,273	Gypsum Board	5.3%	3.5%	451,825
Flat Glass	0.0%	0.0%	3,275	Rock, Soil, and Fines	5.0%	3.7%	429,146
Remainder/Composite Glass	0.5%	0.5%	41,871	Remainder/Composite Construction and Demolition	9.5%	3.4%	816,279
Metal	8.0%		688,699	Household Hazardous Waste	0.1%		8,625
Tin/Steel Cans	0.3%	0.3%	24,331	Paint	0.0%	0.0%	1,294
Major Appliances	1.0%	0.8%	82,098	Vehicle and Equipment Fluids	0.0%	0.0%	1,000
Used Oil Filters	0.0%	0.0%	0	Used Oil	0.0%	0.0%	82
Other Ferrous	3.7%	1.6%	313,585	Batteries	0.0%	0.0%	2,298
Aluminum Cans	0.0%	0.0%	2,578	Remainder/Composite Household Hazardous	0.0%	0.0%	3,951
Other Non-Ferrous	0.2%	0.1%	19,357				
Remainder/Composite Metal	2.9%	1.0%	246,751	Special Waste	10.6%		906,920
Electronics	0.6%		49,992	Ash	0.3%	0.4%	25,802
Brown Goods	0.1%	0.1%	8,031	Sewage Solids	0.0%	0.0%	0
Computer-related Electronics	0.2%	0.2%	13,393	Industrial Sludge	0.0%	0.0%	0
Other Small Consumer Electronics	0.3%	0.2%	28,400	Treated Medical Waste	0.0%	0.0%	0
Television and Other Items with CRTs	0.0%	0.0%	168	Bulky Items	10.2%	4.7%	877,193
				Tires	0.0%	0.0%	2,589
				Remainder/Composite Special Waste	0.0%	0.0%	1,336
Plastic	3.9%		335,679	Mixed Residue	0.2%	0.2%	15,314
PETE Containers	0.1%	0.1%	9,185				
HDPE Containers	0.1%	0.0%	6,428	Totals	100.0%		8,590,215
Miscellaneous Plastic Containers	0.0%	0.0%	3,273	Sample count:	200		
Plastic Trash Bags	0.1%	0.1%	8,440				
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	3,213				
Non-Bag Commercial and Industrial Packaging Film	1.2%	1.2%	98,813				
Film Products	0.1%	0.0%	4,576				
Other Film	0.2%	0.1%	15,461				
Durable Plastic Items	1.3%	0.5%	108,007				
Remainder/Composite Plastic	0.9%	0.3%	78,282				

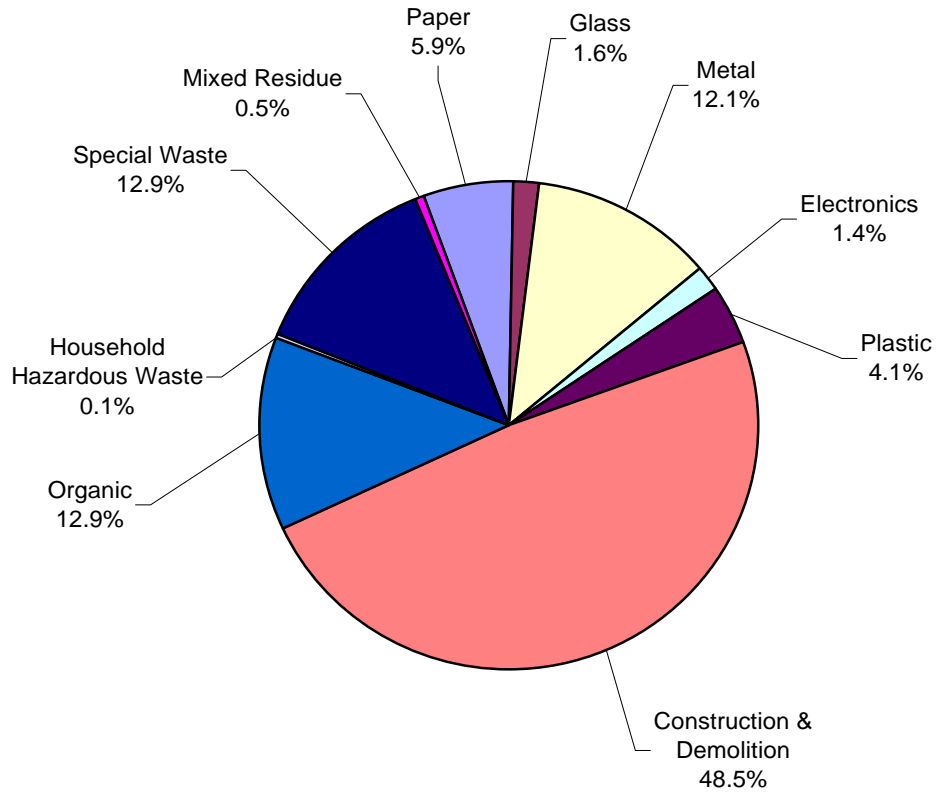
Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

Figure H: Overview of Commercial Self-Hauled Disposed Waste, 2003



Numbers may not total exactly due to rounding.

Figure I: Overview of Residential Self-Hauled Disposed Waste, 2003



Numbers may not total exactly due to rounding.