

## Overall Commercial Waste

The overall commercial composition is based on 366 hand sorted franchise-collected commercial samples and 623 visually characterized self-haul commercial samples for a total of 989 samples. Franchise-collected samples were refuse generated in San Diego and delivered in packer trucks, open-top drag-on containers, or compacted drag-on containers. The self-haul samples were either refuse or C&D materials generated both inside and outside the City limits. The substreams included in the overall commercial waste composition and their associated tonnages are shown in Table 9.

Table 9. Included Substreams and Tons, Overall Commercial Waste

Included Substreams	Tons
Franchise Collected Packer Trucks	225,076
Open-top Drag-on Containers	128,529
Compacted Drag-on Containers	106,249
Commercial Self-haul Flat Rate Vehicles	40,466
Commercial Self-haul Small Vehicles	33,462
Commercial Self-haul Large Vehicles	107,131
<b>Total Disposal in Substream</b>	<b>640,913</b>

## Key Findings

Figure 11 illustrates the recoverability of the overall commercial waste, which is approximately 74% recoverable (37% is Compostable/Potentially Compostable, 17% is Recyclable, shown in blue, and 20% is Potentially Compostable). Nearly two thirds of the overall commercial waste is in the **Construction and Demolition** (33%) material class or the **Organics** (31%) material class, as shown in Figure 12.

Figure 11. Composition by Recoverability Group, Overall Commercial, 2012

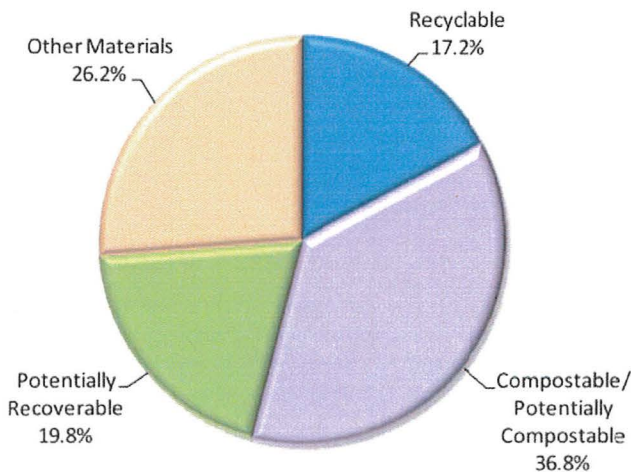
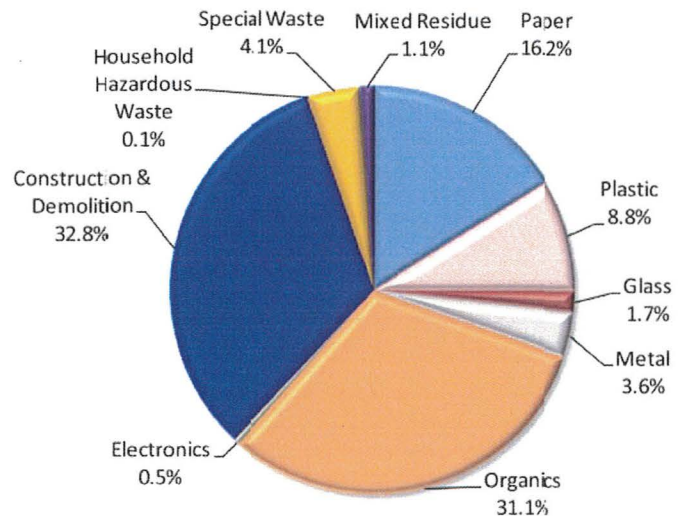


Figure 12. Composition by Material Class, Overall Commercial, 2012



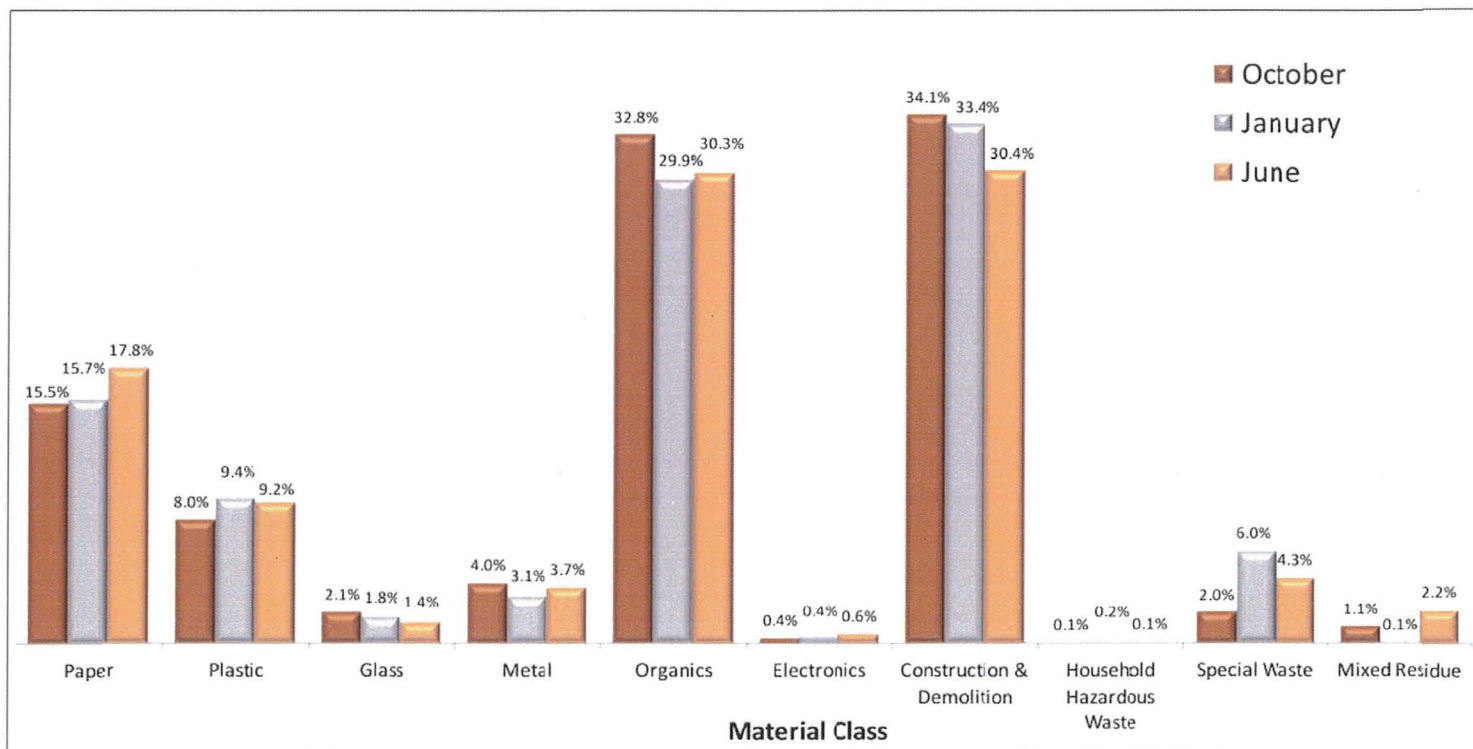
The ten most prevalent material types (see Table 10) combined account for more than half (55%) of the overall commercial waste. *Food* is the most prevalent material (13%) and the only material type greater than 6% of the waste.

**Table 10. Ten Most Prevalent Disposed Material Types, Overall Commercial, 2012**

Material Type	Estimated Percent	Cumulative Percent	Estimated Tons
Food	12.5%	12.5%	79,829
Other Wood Waste	5.8%	18.3%	37,296
Remainder/Composite C&D	5.4%	23.7%	34,461
Uncoated Corrugated Cardboard	5.4%	29.0%	34,423
Carpet & Carpet Padding	5.2%	34.3%	33,588
Palm, Succulent, Coral Tree	5.1%	39.3%	32,408
Leaves and Grass	4.7%	44.0%	29,965
Compostable/Soiled Paper	4.4%	48.4%	28,404
Clean Pallets and Crates	3.5%	52.0%	22,680
Rock, Soil and Fines	3.1%	55.0%	19,552
<b>Subtotal</b>	<b>55.0%</b>		<b>352,606</b>
All other material types (excluding residuals)	45.0%		288,307
<b>Total (excluding residuals)</b>	<b>100.0%</b>		<b>640,913</b>

The prevalence of individual material classes within the overall commercial waste composition did not vary substantially by season (see Figure 13).

**Figure 13. Seasonal Composition by Material Class, Overall Commercial, 2012**



The detailed composition of the overall commercial waste is shown in Table 11.

Table 11. Detailed Waste Composition, Overall Commercial, 2012

Material	Estimated		Material	Estimated	
	Percent	+ / -		Percent	+ / -
<b>Paper</b>	<b>16.2%</b>		<b>Electronics</b>	<b>0.5%</b>	
Uncoated Corrugated Cardboard	5.4%	0.6%	Brown Goods	0.2%	0.1%
Waxed Corrugated Cardboard	0.5%	0.3%	CRT	0.0%	0.0%
Paper Bags	0.2%	0.1%	Computer-Related Electronics	0.0%	0.0%
Newspaper	0.5%	0.1%	Other Consumer Electronics	0.1%	0.1%
White Ledger Paper	1.0%	0.2%	Video Display Devices (non-CRT devices)	0.1%	0.1%
Mixed Waste Paper	2.4%	0.3%			
Magazines	0.4%	0.1%	<b>Construction &amp; Demolition</b>	<b>32.8%</b>	
Phone Books and Directories	0.0%	0.0%	Concrete	2.1%	0.9%
Compostable/Soiled Paper	4.4%	0.4%	Asphalt Paving	0.4%	0.6%
Aseptic/Milk Containers	0.1%	0.0%	Asphalt Composition Shingles	0.4%	0.2%
Remainder/Composite Paper	1.2%	0.2%	Roofing Tar Paper/Felt	0.5%	0.4%
			Roofing Mastic	0.0%	0.0%
<b>Plastic</b>	<b>8.8%</b>		Built-Up Roofing	0.3%	0.4%
CRV HDPE Containers	0.0%	0.0%	Other Asphalt Roofing Material	0.1%	0.2%
Non-CRV HDPE Containers	0.3%	0.1%	Clean Dimensional Lumber	1.7%	0.4%
CRV PETE Containers	0.2%	0.0%	Clean Engineered Wood	1.2%	0.3%
Non-CRV PETE Containers	0.1%	0.0%	Clean Pallets and Crates	3.5%	0.8%
Compostable Biodegradable Plastic Containers	0.0%	0.0%	Other Wood Waste	5.8%	1.0%
Miscellaneous Plastic Containers	0.5%	0.1%	Clean Gypsum Board	0.6%	0.3%
Plastic Grocery and Merchandise Bags	0.2%	0.1%	Painted/Demolition Gypsum Board	1.6%	0.5%
Clean Film Plastic	0.9%	0.3%	Carpet & Carpet Padding	5.2%	1.1%
Dirty Film Plastic	2.5%	0.3%	Rock, Soil and Fines	3.1%	0.9%
Durable Plastic Items	2.1%	0.4%	Contaminated Soil, Street Sweepings, Drain Cleaning	0.8%	1.1%
Expanded Polystyrene	0.5%	0.1%	Remainder/Composite C&D	5.4%	0.9%
Remainder/Composite Plastic	1.4%	0.3%			
			<b>Household Hazardous Waste</b>	<b>0.1%</b>	
<b>Glass</b>	<b>1.7%</b>		Oil-Based Paint	0.0%	0.0%
CRV Clear Glass Bottles	0.2%	0.0%	Water-Based Paint	0.0%	0.0%
Non-CRV Clear Glass Bottles and Containers	0.1%	0.0%	Vehicle and Equipment Fluids	0.0%	0.0%
CRV Brown Glass Bottles	0.2%	0.0%	Used Oil	0.0%	0.0%
Non-CRV Brown Glass Bottles and Containers	0.0%	0.0%	Lead-Acid Batteries	0.0%	0.0%
CRV Other Colored Glass Bottles	0.1%	0.0%	Household Batteries	0.0%	0.0%
Non-CRV other Colored Glass Bottles and Containers	0.2%	0.0%	Sharps	0.0%	0.0%
Flat Glass	0.5%	0.2%	Pharmaceuticals	0.0%	0.0%
Remainder/Composite Glass	0.6%	0.3%	CFL, Fluorescent Tube and Other Mercury-Containing	0.0%	0.0%
			Remainder/Composite Household Hazardous	0.0%	0.0%
<b>Metal</b>	<b>3.6%</b>				
Tin/Steel Cans	0.4%	0.1%	<b>Special Waste</b>	<b>4.1%</b>	
Major Appliances	0.1%	0.1%	Ash	0.0%	0.0%
Other Ferrous Metal	1.2%	0.3%	Sewage Solids	0.0%	0.0%
CRV Aluminum & Tin Cans	0.1%	0.0%	Industrial Sludge	0.0%	0.0%
Non-CRV Aluminum Cans	0.0%	0.0%	Treated Medical Waste	0.0%	0.0%
Used Oil Filters	0.0%	0.0%	Bulky Items	2.1%	0.5%
Other Non-Ferrous Metal	0.8%	0.2%	Tire	0.9%	0.6%
Remainder/Composite Metal	0.9%	0.2%	Remainder/Composite Special Waste	1.1%	0.4%
<b>Organics</b>	<b>31.1%</b>		<b>Mixed Residue</b>	<b>1.1%</b>	
Food	12.5%	1.1%	Mixed Residue	1.1%	0.3%
Palm, Succulent, Coral Tree	5.1%	1.5%			
Leaves and Grass	4.7%	0.8%	<b>Total</b>	<b>100.0%</b>	
Prunings and Trimmings	2.4%	0.5%			
Branches and Stumps	0.7%	0.3%	Curbside Residential Recycling Processing Residuals		0
Agricultural Crop Residues	0.1%	0.1%	C&D Processing Residuals		14,993
Grass Sod	1.2%	1.0%			
Manures	0.1%	0.1%	<b>Total Including Residuals</b>		<b>655,906</b>
Diapers	0.6%	0.2%			
Textiles	2.6%	0.5%	<b>Sample Count</b>		<b>989</b>
Remainder/Composite Organics	1.2%	0.3%			

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