

2014 Disposal-Facility-Based Characterization of Solid Waste in California

Significant Tables and Figures



California Department of Resources Recycling and Recovery

October 6, 2015

Contractor's Report
Produced Under Contract By:
Cascadia Consulting Group



The tables and figures in this document are excerpted from the 2014 Disposal-Facility-Based Characterization of Solid Waste in California, CalRecycle Publication DRRR-2015-01546. 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](#). A list of material types and their definitions used in this study can be found in Appendix B of the report.

Special Note Regarding Sector Percentages

Sites participating in the composition study were selected at random from all eligible sites throughout the state. This site selection method ensured that the samples selected were representative of the materials disposed throughout the state. This method also should have ensured that vehicle survey data collected at each site accurately represented the proportion of waste disposed by each sector, subsector, and activity. However, during the data analysis, an unexpected anomaly was detected. Compared to previous studies, there was a steep increase in the portion of the waste stream attributable to the residential sector, with a comparable steep decrease in both the commercial and self-hauled sectors. A region by region analysis showed that the Southern Region had a massive change in its residential/commercial split when compared to previous studies. Since that region accounted for over 60 percent of the state's disposed waste, even small changes there create substantial changes in the statewide results.

At the time of publication, CalRecycle staff are continuing to obtain more data from the Southern Region to determine if the sector percentages obtained are “real” or an artifact of changes in how waste is managed that affects our survey results. In the interim, we are publishing two sets of composition data for each of the sectors and subsectors. One set of data will reflect the use of the 2014 calculated sector percentages applied to 2014 waste composition data. The second set of data applies the sector percentages obtained in the 2008 Statewide Waste Characterization Study to the 2014 waste composition data. This provides a side-by-side comparison using the two different sector percentages. In reality, the true value may lie somewhere in between. The side-by-side data is presented for sector tonnages and detailed composition tables only. All other tables and figures show only the 2014 results as reported from field data observations, considered to be initial results. If CalRecycle staff obtain additional data that invalidate the sector splits calculated in the 2014 results, we will publish an addendum to this report.

A more in-depth explanation and analysis of this issue may be found in the section titled **Special Note Regarding Vehicle Surveys and Quantifying** in Appendix A of the [complete 2014 report](#).

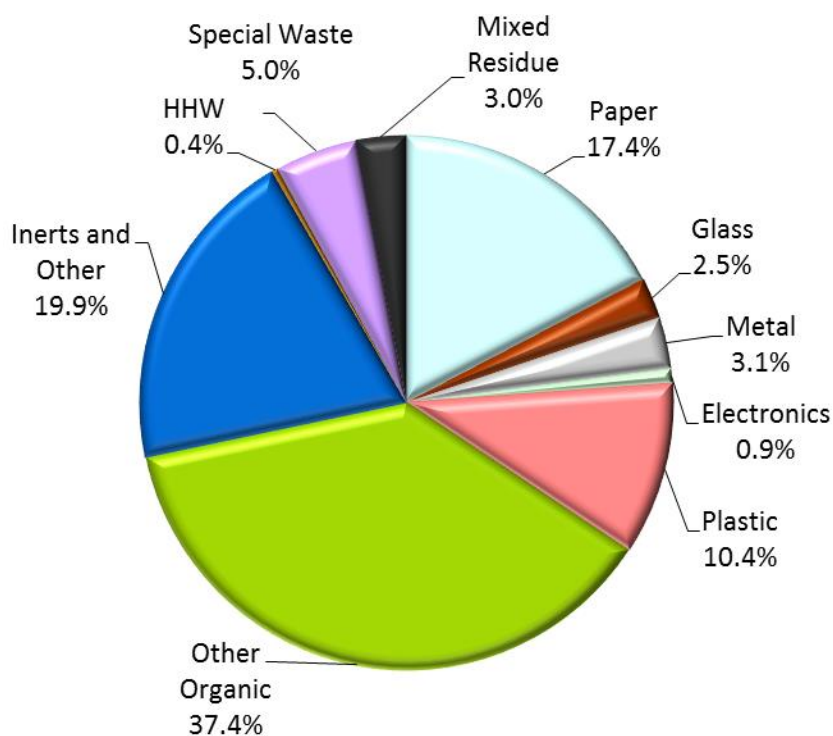
Table 4: Estimated Contribution of Each Sector to California's Overall Disposed Waste Stream

Sector	Calculated Using 2014 Sector Percentages		Calculated Using 2008 Sector Percentages	
	Est. % of Disposed Waste	Est. Tons Disposed Statewide	Est. % of Disposed Waste	Est. Tons Disposed Statewide
Franchised Commercial*	38.6%	11,909,937	49.6%	15,301,492
Franchised Residential*	47.0%	14,516,212	30.0%	9,254,001
<i>Single-family residential</i>	35.4%	10,924,313	21.6%	6,662,188
<i>Multi-family residential</i>	11.6%	3,591,900	8.4%	2,591,814
Self-hauled	14.4%	4,438,130	20.4%	6,308,785
<i>Commercial self-hauled</i>	11.3%	3,486,297	17.1%	5,285,747
<i>Residential self-hauled</i>	3.1%	951,833	3.3%	1,023,039
Totals	100.0%	30,864,279	100.0%	30,864,279

Numbers may not total exactly due to rounding. Source: 2014 vehicle survey findings and 2008 vehicle survey findings applied to individual facility records and CalRecycle Disposal Reporting System 2013 tonnage figures. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

*Includes waste collected by both private and public entities that provide service to residential and business customers.

Figure 5: Overview of California's Overall Disposed Waste Stream



Material Class	Est. Percent
Paper	17.4%
Glass	2.5%
Metal	3.1%
Electronics	0.9%
Plastic	10.4%
Other Organic	37.4%
Inerts and Other	19.9%
HHW	0.4%
Special Waste	5.0%
Mixed Residue	3.0%
Total	100%

Numbers may not total exactly due to rounding.

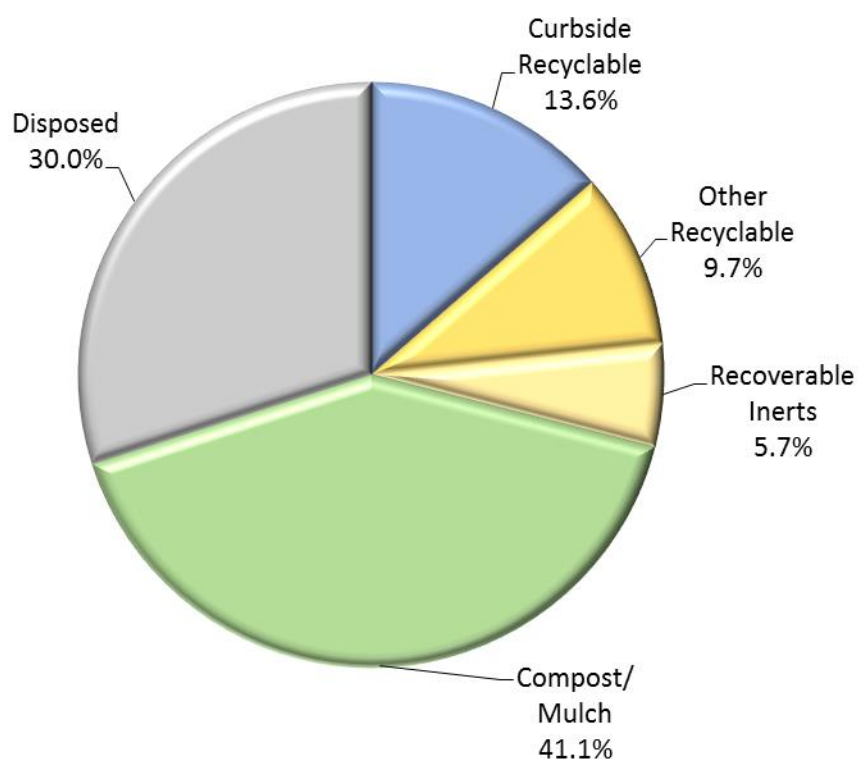
The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 6: Ten Most Prevalent Material Types in California's Overall Disposed Waste Stream

Material	Estimated Percent	Cumulative Percent	Estimated Tons
Food	18.1%	18.1%	5,591,179
Lumber	11.9%	30.0%	3,676,710
Remainder/Composite Paper	7.5%	37.6%	2,325,048
Bulky Items	4.4%	42.0%	1,365,340
Remainder/Composite Organic	4.3%	46.3%	1,323,465
Textiles	4.0%	50.3%	1,234,711
Other Miscellaneous Paper	3.9%	54.2%	1,215,919
Leaves and Grass	3.8%	58.0%	1,172,925
Uncoated Corrugated Cardboard	3.1%	61.1%	964,942
Prunings and Trimmings	3.1%	64.3%	962,262
Total	64.3%		19,832,501

Any differences between *cumulative percent* figures and the sum of *estimated percent* figures are due to rounding. The above table was constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 6: Recoverability of California's Overall Disposed Waste Stream



Recoverability Group	Est. Percent
Curbside Recyclable	13.6%
Other Recyclable	9.7%
Recoverable Inerts	5.7%
Compost/Mulch	41.1%
Disposed	30.0%
Total	100%

Numbers may not total exactly due to rounding. See Appendix B: List and Definitions of Material Types for listing of material types in each group.

The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

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

Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Paper	17.4%		5,367,734	16.8%		5,176,996
Uncoated Corrugated Cardboard	3.1%	0.6%	964,942	3.7%	0.8%	1,152,480
Paper Bags	0.2%	0.0%	70,627	0.2%	0.0%	62,259
Newspaper	1.2%	0.4%	372,966	0.9%	0.3%	285,517
White Ledger Paper	0.4%	0.1%	121,637	0.4%	0.2%	132,219
Other Office Paper	0.3%	0.1%	103,845	0.3%	0.1%	89,177
Magazines and Catalogs	0.6%	0.1%	178,166	0.5%	0.1%	158,407
Phone Books and Directories	0.0%	0.0%	14,583	0.0%	0.0%	13,590
Other Miscellaneous Paper	3.9%	0.4%	1,215,919	3.8%	0.5%	1,164,676
Remainder/Composite Paper	7.5%	0.6%	2,325,048	6.9%	0.6%	2,118,672
Glass	2.5%		764,162	2.5%		770,530
Clear Glass Bottles and Containers	0.9%	0.1%	263,439	0.7%	0.1%	225,563
Green Glass Bottles and Containers	0.2%	0.1%	71,382	0.2%	0.1%	57,935
Brown Glass Bottles and Containers	0.4%	0.1%	111,432	0.3%	0.1%	104,175
Other Glass Colored Bottles and Containers	0.0%	0.0%	12,185	0.0%	0.0%	11,843
Flat Glass	0.1%	0.1%	42,481	0.2%	0.2%	56,510
Remainder/Composite Glass	0.9%	1.0%	263,243	1.0%	1.3%	314,504
Metal	3.1%		957,027	3.1%		964,502
Tin/Steel Cans	0.7%	0.1%	204,449	0.6%	0.2%	186,422
Major Appliances	0.2%	0.2%	50,251	0.1%	0.1%	29,000
Used Oil Filters	0.0%	0.0%	1,255	0.0%	0.0%	1,098
Other Ferrous	0.8%	0.2%	248,593	0.9%	0.3%	267,932
Aluminum Cans	0.2%	0.0%	47,233	0.1%	0.0%	42,696
Other Non-Ferrous	0.5%	0.2%	157,478	0.6%	0.3%	181,009
Remainder/Composite Metal	0.8%	0.2%	247,768	0.8%	0.3%	256,344
Electronics	0.9%		273,878	0.7%		230,498
Brown Goods	0.3%	0.2%	84,415	0.2%	0.1%	75,142
Computer-related Electronics	0.1%	0.1%	45,648	0.1%	0.1%	41,339
Other Small Consumer Electronics	0.2%	0.1%	68,932	0.2%	0.1%	54,457
Video Display Devices	0.2%	0.1%	74,883	0.2%	0.1%	59,560
Plastic	10.4%		3,215,943	10.4%		3,203,542
PETE Containers	0.6%	0.1%	197,202	0.6%	0.1%	179,529
HDPE Containers	0.5%	0.1%	139,189	0.4%	0.1%	136,693
Miscellaneous Plastic Containers	0.6%	0.1%	173,738	0.5%	0.1%	165,343
Plastic Trash Bags	1.2%	0.1%	383,130	1.2%	0.2%	379,315
Plastic Grocery and Other Merchandise Bags	0.5%	0.1%	157,395	0.4%	0.0%	128,298
Non-Bag Commercial and Industrial Packaging Film	0.3%	0.1%	83,192	0.3%	0.1%	102,661
Film Products	0.2%	0.3%	73,394	0.4%	0.5%	118,895
Other Film	1.8%	0.2%	543,476	1.7%	0.2%	523,211
Durable Plastic Items	2.2%	0.5%	682,812	2.2%	0.5%	671,213
Remainder/Composite Plastic	2.5%	0.3%	782,415	2.6%	0.5%	798,384

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 7 (continued): Composition of California's Overall Disposed Waste Stream

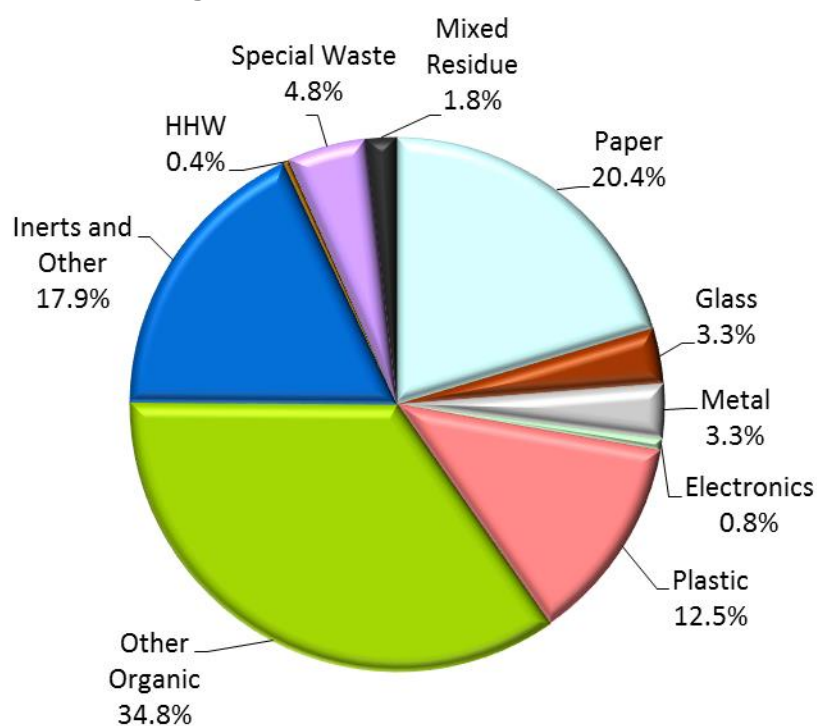
Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Other Organic	37.4%		11,558,054	34.4%		10,614,389
Food	18.1%	1.6%	5,591,179	16.5%	1.8%	5,083,364
Leaves and Grass	3.8%	1.2%	1,172,925	3.4%	1.3%	1,048,621
Prunings and Trimmings	3.1%	1.0%	962,262	2.8%	1.0%	868,512
Branches and Stumps	1.7%	0.9%	528,493	1.8%	1.0%	544,872
Manures	0.6%	0.6%	174,808	0.7%	0.7%	214,875
Textiles	4.0%	0.7%	1,234,711	3.6%	0.7%	1,114,224
Carpet	1.8%	0.6%	570,212	2.0%	0.7%	605,950
Remainder/Composite Organic	4.3%	0.5%	1,323,465	3.7%	0.5%	1,133,971
Inerts and Other	19.9%		6,132,838	23.5%		7,265,537
Concrete	1.2%	0.4%	373,185	1.3%	0.5%	415,287
Asphalt Paving	0.2%	0.3%	70,269	0.4%	0.7%	130,364
Asphalt Roofing	0.7%	0.4%	223,236	0.8%	0.6%	251,150
Lumber	11.9%	1.8%	3,676,710	13.7%	2.0%	4,229,070
Gypsum Board	1.1%	0.4%	327,002	1.3%	0.5%	401,684
Rock, Soil and Fines	2.4%	0.7%	750,357	2.9%	1.0%	896,129
Remainder/Composite Inerts and Other	2.3%	0.7%	712,079	3.1%	1.1%	941,853
Household Hazardous Waste (HHW)	0.4%		109,568	0.3%		78,461
Paint	0.2%	0.1%	48,951	0.1%	0.1%	31,414
Vehicle & Equipment Fluids	0.0%	0.0%	219	0.0%	0.0%	88
Used Oil	0.0%	0.0%	1,410	0.0%	0.0%	939
Batteries	0.0%	0.0%	11,887	0.0%	0.0%	10,894
Remainder/Composite Household Hazardous	0.2%	0.1%	47,102	0.1%	0.1%	35,125
Special Waste	5.0%		1,558,079	5.8%		1,803,511
Ash	0.1%	0.0%	16,138	0.1%	0.1%	17,409
Treated Medical Waste	0.1%	0.2%	34,909	0.1%	0.1%	30,645
Bulky Items	4.4%	1.3%	1,365,340	5.1%	1.4%	1,574,149
Tires	0.1%	0.1%	39,393	0.1%	0.1%	39,308
Remainder/Composite Special Waste	0.3%	0.3%	102,299	0.5%	0.4%	142,000
Mixed Residue	3.0%		926,996	2.5%		756,314
Totals	100.0%		30,864,279	100.0%		30,864,279
Sample Count	754			754		

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 7: Overview of Franchised Commercial Disposed Waste



Material Class	Est. Percent
Paper	20.4%
Glass	3.3%
Metal	3.3%
Electronics	0.8%
Plastic	12.5%
Other Organic	34.8%
Inerts and Other	17.9%
HHW	0.4%
Special Waste	4.8%
Mixed Residue	1.8%
Total	100%

Numbers may not total exactly due to rounding.

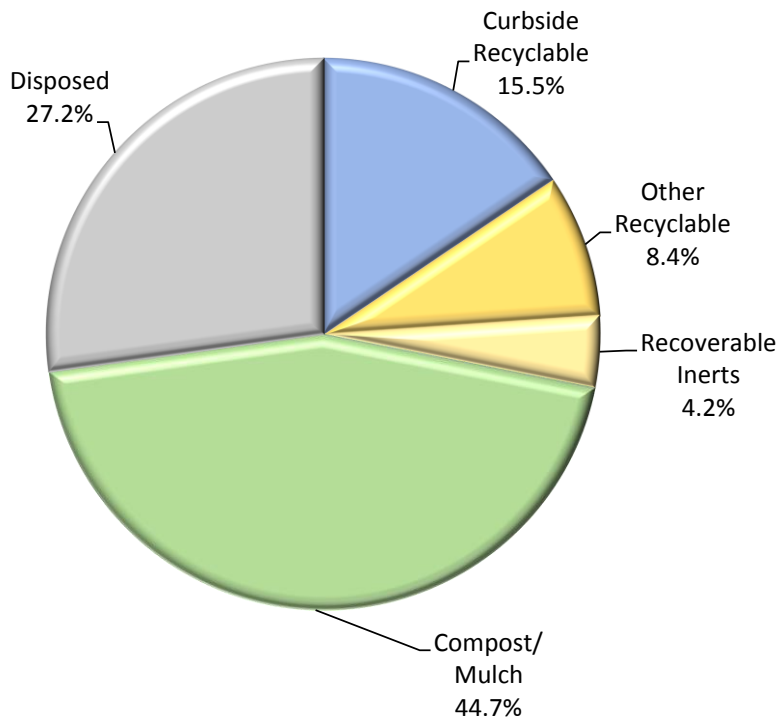
The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

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

Material	Estimated Percent	Cumulative Percent	Estimated Tons
Food	20.1%	20.1%	2,390,922
Lumber	12.1%	32.2%	1,439,830
Remainder/Composite Paper	8.6%	40.8%	1,024,392
Uncoated Corrugated Cardboard	5.0%	45.8%	594,130
Other Miscellaneous Paper	4.5%	50.3%	538,817
Bulky Items	3.8%	54.1%	457,451
Leaves and Grass	3.2%	57.3%	377,741
Textiles	3.1%	60.4%	365,829
Durable Plastic Items	2.7%	63.1%	327,497
Remainder/Composite Organic	2.7%	65.8%	325,554
Total	65.8%		7,842,164

Any differences between *cumulative percent* figures and the sum of *estimated percent* figures are due to rounding. The above table was constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 8: Recoverability of Franchised Commercial Disposed Waste



Recoverability Group	Est. Percent
Curbside Recyclable	15.5%
Other Recyclable	8.4%
Recoverable Inerts	4.2%
Compost/Mulch	44.7%
Disposed	27.2%
Total	100%

Numbers may not total exactly due to rounding. See Appendix B: List and Definitions of Material Types for listing of material types in each group.

The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 10: Composition of Franchised Commercial Disposed Waste

Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Paper	20.4%		2,433,919	20.4%		3,125,821
Uncoated Corrugated Cardboard	5.0%	1.3%	594,130	5.5%	1.6%	834,744
Paper Bags	0.2%	0.1%	20,301	0.2%	0.1%	24,107
Newspaper	0.5%	0.2%	64,998	0.5%	0.2%	74,164
White Ledger Paper	0.7%	0.3%	79,000	0.7%	0.4%	103,180
Other Office Paper	0.3%	0.2%	36,780	0.3%	0.2%	47,225
Magazines and Catalogs	0.6%	0.2%	70,156	0.6%	0.2%	85,920
Phone Books and Directories	0.0%	0.0%	5,345	0.0%	0.0%	5,982
Other Miscellaneous Paper	4.5%	0.9%	538,817	4.6%	1.0%	705,700
Remainder/Composite Paper	8.6%	1.2%	1,024,392	8.1%	1.2%	1,244,799
Glass	3.3%		396,766	3.3%		504,813
Clear Glass Bottles and Containers	0.7%	0.2%	89,289	0.7%	0.2%	106,183
Green Glass Bottles and Containers	0.2%	0.1%	25,737	0.2%	0.1%	31,183
Brown Glass Bottles and Containers	0.3%	0.2%	39,919	0.4%	0.2%	54,608
Other Glass Colored Bottles and Containers	0.1%	0.0%	6,148	0.1%	0.0%	8,032
Flat Glass	0.1%	0.2%	17,752	0.2%	0.3%	30,519
Remainder/Composite Glass	1.8%	2.7%	217,921	1.8%	2.6%	274,288
Metal	3.3%		388,592	3.3%		509,642
Tin/Steel Cans	0.6%	0.2%	72,630	0.6%	0.3%	94,784
Major Appliances	0.1%	0.2%	11,579	0.1%	0.1%	9,933
Used Oil Filters	0.0%	0.0%	571	0.0%	0.0%	530
Other Ferrous	1.0%	0.5%	116,050	1.0%	0.6%	159,457
Aluminum Cans	0.1%	0.0%	17,849	0.1%	0.0%	21,887
Other Non-Ferrous	0.6%	0.5%	70,831	0.7%	0.6%	106,687
Remainder/Composite Metal	0.8%	0.5%	99,081	0.8%	0.5%	116,364
Electronics	0.8%		90,112	0.6%		98,418
Brown Goods	0.3%	0.2%	39,470	0.3%	0.2%	48,314
Computer-related Electronics	0.1%	0.1%	12,304	0.1%	0.1%	15,745
Other Small Consumer Electronics	0.1%	0.0%	7,998	0.1%	0.0%	8,679
Video Display Devices	0.3%	0.2%	30,339	0.2%	0.2%	25,680
Plastic	12.5%		1,491,458	12.5%		1,911,140
PETE Containers	0.7%	0.3%	82,366	0.7%	0.3%	101,303
HDPE Containers	0.6%	0.2%	68,351	0.6%	0.2%	89,048
Miscellaneous Plastic Containers	0.7%	0.2%	80,664	0.7%	0.2%	101,376
Plastic Trash Bags	1.7%	0.3%	208,401	1.7%	0.3%	257,351
Plastic Grocery and Other Merchandise Bags	0.3%	0.1%	41,200	0.3%	0.1%	50,313
Non-Bag Commercial and Industrial Packaging Film	0.5%	0.2%	60,149	0.6%	0.2%	84,731
Film Products	0.5%	0.7%	59,992	0.7%	1.0%	99,783
Other Film	2.1%	0.3%	251,568	2.1%	0.4%	316,817
Durable Plastic Items	2.7%	1.0%	327,497	2.6%	0.9%	402,091
Remainder/Composite Plastic	2.6%	0.5%	311,270	2.7%	0.6%	408,328

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 10 (continued): Composition of Franchised Commercial Disposed Waste

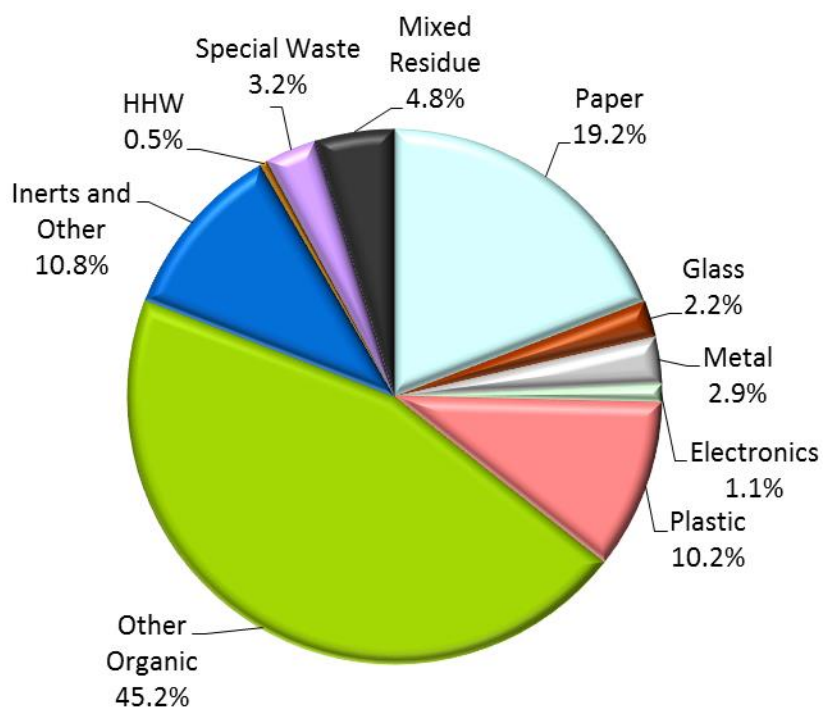
Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Other Organic	34.8%		4,145,711	33.5%		5,129,480
Food	20.1%	3.6%	2,390,922	18.9%	3.5%	2,898,430
Leaves and Grass	3.2%	2.2%	377,741	3.2%	2.2%	493,850
Prunings and Trimmings	1.8%	1.2%	211,250	1.7%	1.2%	266,838
Branches and Stumps	1.7%	1.7%	208,413	1.8%	1.7%	270,765
Manures	1.3%	1.4%	150,455	1.2%	1.4%	190,421
Textiles	3.1%	1.2%	365,829	3.1%	1.2%	470,895
Carpet	1.0%	0.9%	115,547	0.9%	0.9%	145,080
Remainder/Composite Organic	2.7%	0.7%	325,554	2.6%	0.7%	393,202
Inerts and Other	17.9%		2,132,837	19.1%		2,917,350
Concrete	0.8%	0.4%	91,170	0.8%	0.4%	116,687
Asphalt Paving	0.0%	0.1%	4,779	0.0%	0.1%	7,160
Asphalt Roofing	0.7%	0.8%	79,640	0.8%	1.1%	127,424
Lumber	12.1%	2.8%	1,439,830	12.9%	3.1%	1,974,164
Gypsum Board	0.8%	0.5%	94,022	0.7%	0.4%	109,892
Rock, Soil and Fines	1.9%	1.0%	230,508	2.2%	1.2%	334,418
Remainder/Composite Inerts and Other	1.6%	1.1%	192,888	1.6%	1.1%	247,605
Household Hazardous Waste (HHW)	0.4%		41,716	0.3%		39,885
Paint	0.2%	0.3%	22,987	0.1%	0.2%	20,648
Vehicle & Equipment Fluids	0.0%	0.0%	0	0.0%	0.0%	0
Used Oil	0.0%	0.0%	661	0.0%	0.0%	565
Batteries	0.0%	0.0%	3,130	0.0%	0.0%	3,722
Remainder/Composite Household Hazardous	0.1%	0.1%	14,938	0.1%	0.1%	14,950
Special Waste	4.8%		568,604	5.2%		796,806
Ash	0.1%	0.1%	11,407	0.1%	0.1%	13,755
Treated Medical Waste	0.0%	0.1%	5,118	0.1%	0.1%	7,668
Bulky Items	3.8%	1.8%	457,451	4.2%	1.9%	637,312
Tires	0.0%	0.0%	4,238	0.0%	0.1%	6,026
Remainder/Composite Special Waste	0.8%	0.7%	90,389	0.9%	0.8%	132,045
Mixed Residue	1.8%		220,222	1.8%		268,138
Totals	100.0%		11,909,937	100.0%		15,301,492
Sample Count	251			251		

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 9: Overview of Franchised Residential Disposed Waste



Material Class	Est. Percent
Paper	19.2%
Glass	2.2%
Metal	2.9%
Electronics	1.1%
Plastic	10.2%
Other Organic	45.2%
Inerts and Other	10.8%
HHW	0.5%
Special Waste	3.2%
Mixed Residue	4.8%
Total	100%

Numbers may not total exactly due to rounding.

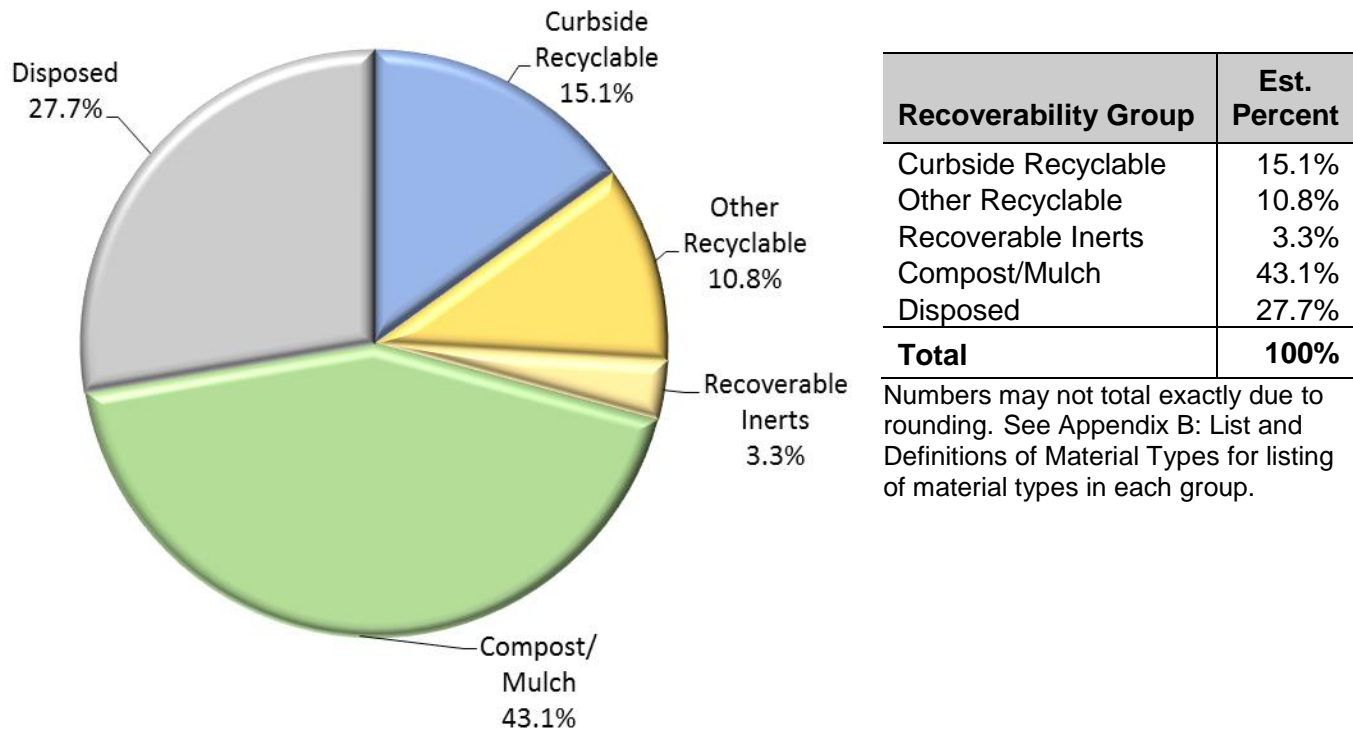
The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 11: Ten Most Prevalent Material Types in Franchised Residential Disposed Waste

Material	Estimated Percent	Cumulative Percent	Estimated Tons
Food	21.9%	21.9%	3,181,722
Remainder/Composite Paper	8.8%	30.7%	1,281,118
Lumber	6.8%	37.5%	980,477
Remainder/Composite Organic	6.5%	44.0%	940,299
Textiles	5.5%	49.5%	796,134
Mixed Residue	4.8%	54.2%	690,941
Leaves and Grass	4.6%	58.8%	663,657
Other Miscellaneous Paper	4.5%	63.3%	652,181
Prunings and Trimmings	3.8%	67.1%	553,083
Bulky Items	2.8%	69.9%	400,375
Total	69.9%		10,139,986

Any differences between *cumulative percent* figures and the sum of *estimated percent* figures are due to rounding. The above table was constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 10: Recoverability of Franchised Residential Disposed Waste



The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 12: Composition of Franchised Residential Disposed Waste

Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Paper	19.2%		2,787,295	19.9%		1,844,685
Uncoated Corrugated Cardboard	2.0%	0.5%	286,560	2.1%	0.5%	193,069
Paper Bags	0.3%	0.0%	44,643	0.3%	0.1%	32,180
Newspaper	2.1%	0.9%	306,380	2.3%	1.1%	209,092
White Ledger Paper	0.3%	0.1%	40,663	0.3%	0.1%	26,965
Other Office Paper	0.5%	0.1%	65,843	0.4%	0.1%	40,700
Magazines and Catalogs	0.7%	0.2%	103,513	0.7%	0.1%	67,608
Phone Books and Directories	0.0%	0.0%	6,393	0.0%	0.0%	3,911
Other Miscellaneous Paper	4.5%	0.5%	652,181	4.6%	0.4%	422,384
Remainder/Composite Paper	8.8%	0.8%	1,281,118	9.2%	0.7%	848,776
Glass	2.2%		320,710	2.3%		212,099
Clear Glass Bottles and Containers	1.2%	0.2%	169,409	1.2%	0.2%	113,778
Green Glass Bottles and Containers	0.3%	0.1%	44,990	0.3%	0.1%	25,983
Brown Glass Bottles and Containers	0.5%	0.2%	68,857	0.5%	0.2%	46,666
Other Glass Colored Bottles and Containers	0.0%	0.0%	5,980	0.0%	0.0%	3,751
Flat Glass	0.0%	0.0%	2,426	0.0%	0.0%	2,063
Remainder/Composite Glass	0.2%	0.1%	29,048	0.2%	0.1%	19,858
Metal	2.9%		415,855	2.8%		258,576
Tin/Steel Cans	0.8%	0.1%	121,945	0.9%	0.1%	81,232
Major Appliances	0.2%	0.4%	34,497	0.2%	0.2%	13,941
Used Oil Filters	0.0%	0.0%	551	0.0%	0.0%	265
Other Ferrous	0.6%	0.2%	89,116	0.6%	0.2%	54,103
Aluminum Cans	0.2%	0.0%	29,009	0.2%	0.1%	20,325
Other Non-Ferrous	0.4%	0.2%	65,004	0.4%	0.1%	39,371
Remainder/Composite Metal	0.5%	0.2%	75,733	0.5%	0.1%	49,338
Electronics	1.1%		160,785	1.1%		104,806
Brown Goods	0.3%	0.3%	41,356	0.2%	0.2%	23,050
Computer-related Electronics	0.2%	0.1%	24,900	0.2%	0.1%	17,046
Other Small Consumer Electronics	0.4%	0.1%	55,080	0.4%	0.1%	36,840
Video Display Devices	0.3%	0.2%	39,448	0.3%	0.2%	27,870
Plastic	10.2%		1,485,047	10.6%		982,590
PETE Containers	0.8%	0.1%	110,485	0.8%	0.1%	73,398
HDPE Containers	0.5%	0.1%	70,002	0.5%	0.1%	46,555
Miscellaneous Plastic Containers	0.6%	0.1%	92,246	0.7%	0.1%	63,019
Plastic Trash Bags	1.2%	0.1%	170,878	1.3%	0.1%	116,399
Plastic Grocery and Other Merchandise Bags	0.8%	0.1%	115,352	0.8%	0.1%	77,032
Non-Bag Commercial and Industrial Packaging Film	0.1%	0.1%	19,648	0.2%	0.1%	14,243
Film Products	0.0%	0.0%	5,056	0.0%	0.1%	4,392
Other Film	2.0%	0.3%	285,752	2.1%	0.3%	198,344
Durable Plastic Items	1.8%	0.5%	254,589	1.6%	0.4%	148,916
Remainder/Composite Plastic	2.5%	0.3%	361,040	2.6%	0.4%	240,292

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 12 (continued): Composition of Franchised Residential Disposed Waste

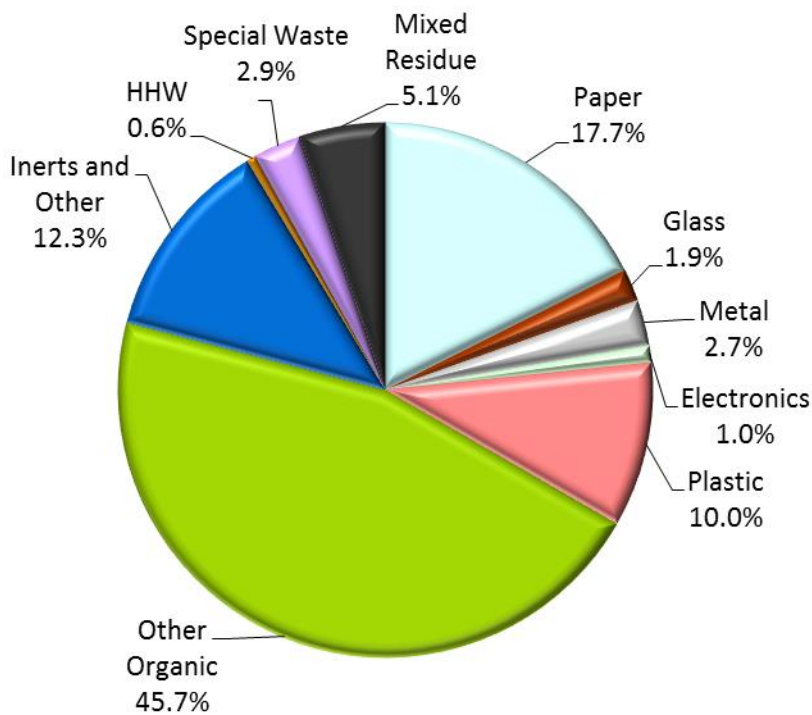
Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Other Organic	45.2%		6,568,469	45.3%		4,195,576
Food	21.9%	1.8%	3,181,722	23.4%	1.7%	2,161,842
Leaves and Grass	4.6%	1.7%	663,657	3.7%	1.2%	343,107
Prunings and Trimmings	3.8%	1.6%	553,083	2.9%	1.1%	265,433
Branches and Stumps	1.5%	1.3%	211,735	1.0%	0.8%	96,134
Manures	0.0%	0.0%	3,164	0.0%	0.0%	3,224
Textiles	5.5%	1.1%	796,134	5.9%	1.3%	547,039
Carpet	1.5%	0.8%	218,677	1.4%	0.7%	133,515
Remainder/Composite Organic	6.5%	0.8%	940,299	7.0%	0.8%	645,282
Inerts and Other	10.8%		1,563,611	9.3%		859,714
Concrete	0.8%	0.5%	110,983	0.7%	0.3%	60,694
Asphalt Paving	0.0%	0.0%	0	0.0%	0.0%	0
Asphalt Roofing	0.5%	0.5%	65,708	0.3%	0.3%	29,727
Lumber	6.8%	2.8%	980,477	5.9%	2.2%	545,715
Gypsum Board	0.3%	0.2%	40,795	0.3%	0.1%	26,760
Rock, Soil and Fines	1.8%	0.6%	256,402	1.4%	0.4%	131,074
Remainder/Composite Inerts and Other	0.8%	0.4%	109,246	0.7%	0.3%	65,744
Household Hazardous Waste (HHW)	0.5%		66,169	0.4%		36,596
Paint	0.2%	0.2%	25,885	0.1%	0.1%	10,686
Vehicle & Equipment Fluids	0.0%	0.0%	219	0.0%	0.0%	88
Used Oil	0.0%	0.0%	711	0.0%	0.0%	287
Batteries	0.1%	0.0%	8,500	0.1%	0.0%	6,827
Remainder/Composite Household Hazardous	0.2%	0.1%	30,854	0.2%	0.1%	18,707
Special Waste	3.2%		457,330	3.1%		288,137
Ash	0.0%	0.0%	3,944	0.0%	0.0%	2,838
Treated Medical Waste	0.2%	0.3%	29,791	0.2%	0.4%	22,977
Bulky Items	2.8%	1.9%	400,375	2.6%	1.6%	242,907
Tires	0.1%	0.1%	11,368	0.1%	0.2%	9,533
Remainder/Composite Special Waste	0.1%	0.0%	11,852	0.1%	0.1%	9,883
Mixed Residue	4.8%		690,941	5.1%		471,223
Totals	100.0%		14,516,212	100.0%		9,254,001
Sample Count	253			253		

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 11: Overview of Single-Family Residential Disposed Waste

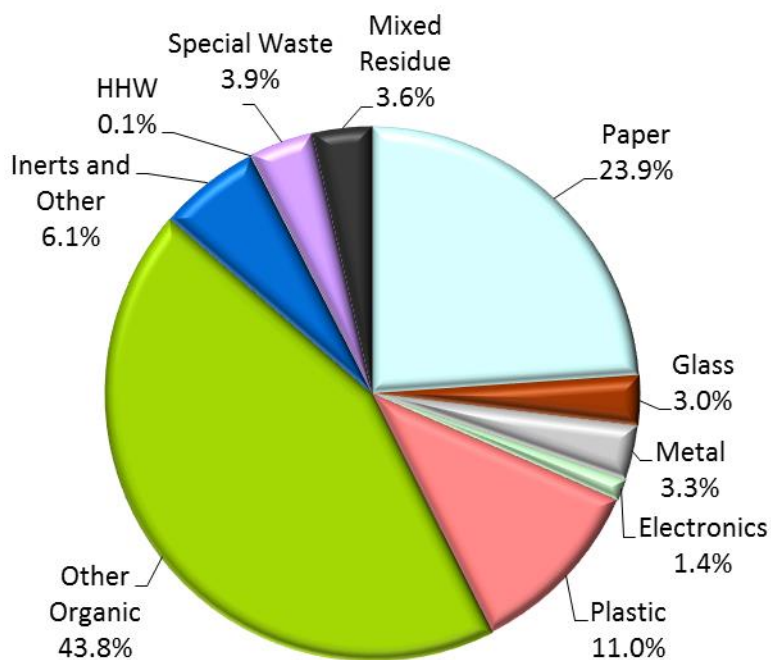


Material Class	Est. Percent
Paper	17.7%
Glass	1.9%
Metal	2.7%
Electronics	1.0%
Plastic	10.0%
Other Organic	45.7%
Inerts and Other	12.3%
HHW	0.6%
Special Waste	2.9%
Mixed Residue	5.1%
Total	100%

Numbers may not total exactly due to rounding.

The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 13: Overview of Multi-family Residential Disposed Waste

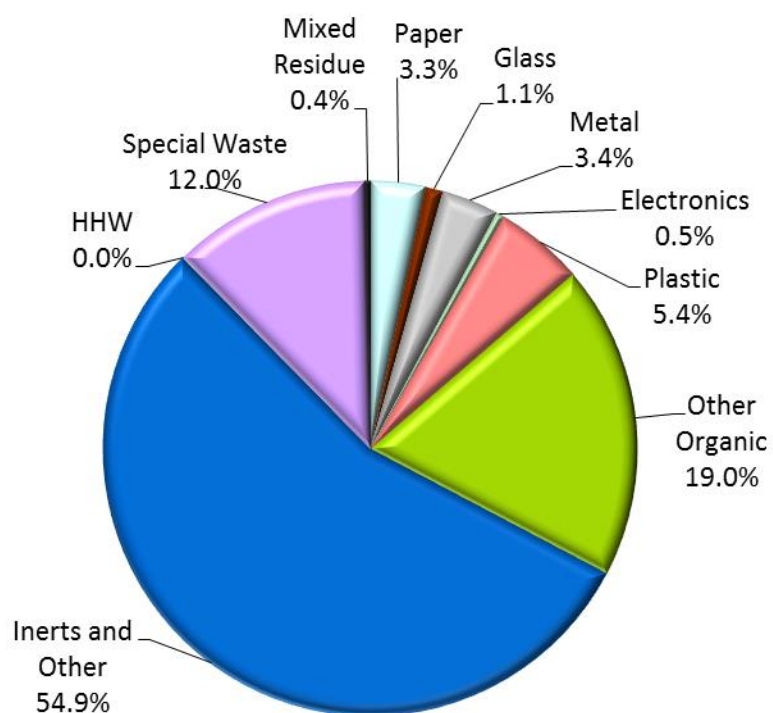


Material Class	Est. Percent
Paper	23.9%
Glass	3.0%
Metal	3.3%
Electronics	1.4%
Plastic	11.0%
Other Organic	43.8%
Inerts and Other	6.1%
HHW	0.1%
Special Waste	3.9%
Mixed Residue	3.6%
Total	100%

Numbers may not total exactly due to rounding.

The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 15: Overview of Overall Self-Hauled Disposed Waste



Material Class	Est. Percent
Paper	3.3%
Glass	1.1%
Metal	3.4%
Electronics	0.5%
Plastic	5.4%
Other Organic	19.0%
Inerts and Other	54.9%
HHW	0.0%
Special Waste	12.0%
Mixed Residue	0.4%
Total	100%

Numbers may not total exactly due to rounding.

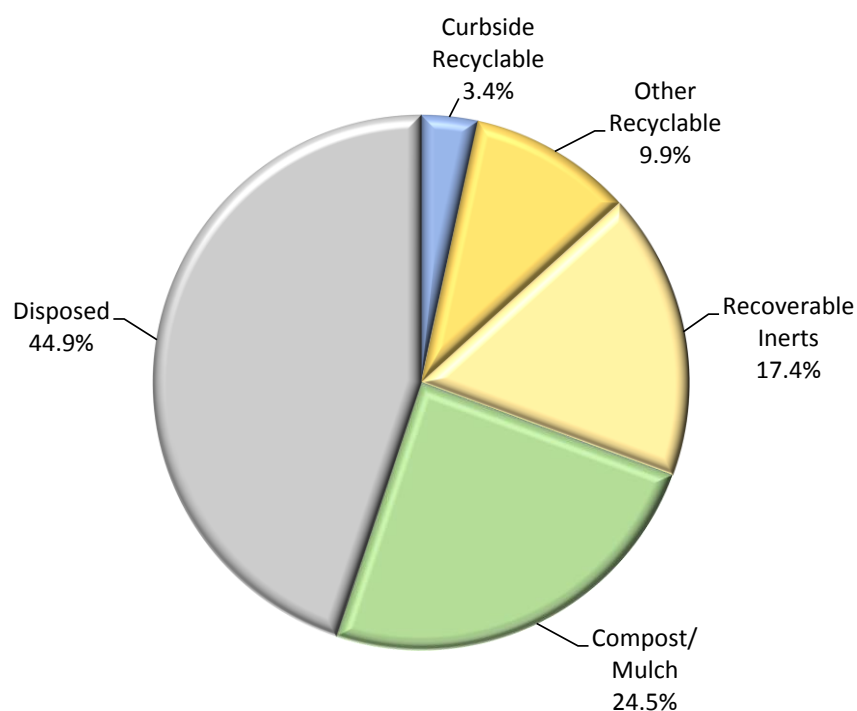
The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

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

Material	Estimated Percent	Cumulative Percent	Estimated Tons
Lumber	28.3%	28.3%	1,256,403
Bulky Items	11.4%	39.7%	507,514
Remainder/Composite Inerts and Other	9.2%	49.0%	409,945
Rock, Soil and Fines	5.9%	54.9%	263,447
Carpet	5.3%	60.2%	235,989
Prunings and Trimmings	4.5%	64.7%	197,929
Gypsum Board	4.3%	69.0%	192,185
Concrete	3.9%	72.9%	171,032
Leaves and Grass	3.0%	75.8%	131,527
Remainder/Composite Plastic	2.5%	78.3%	110,105
Total	78.3%		3,476,076

Any differences between *cumulative percent* figures and the sum of *estimated percent* figures are due to rounding. The above table was constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 16: Recoverability of Overall Self-Hauled Disposed Waste



Recoverability Group	Est. Percent
Curbside Recyclable	3.4%
Other Recyclable	9.9%
Recoverable Inerts	17.4%
Compost/Mulch	24.5%
Disposed	44.9%
Total	100%

Numbers may not total exactly due to rounding. See Appendix B: List and Definitions of Material Types for listing of material types in each group.

The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 22: Composition of Overall Self-Hauled Disposed Waste

Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Paper	3.3%		146,520	3.3%		206,490
Uncoated Corrugated Cardboard	1.9%	0.9%	84,253	2.0%	1.1%	124,666
Paper Bags	0.1%	0.2%	5,683	0.1%	0.1%	5,972
Newspaper	0.0%	0.0%	1,587	0.0%	0.0%	2,261
White Ledger Paper	0.0%	0.0%	1,973	0.0%	0.0%	2,074
Other Office Paper	0.0%	0.0%	1,222	0.0%	0.0%	1,253
Magazines and Catalogs	0.1%	0.1%	4,497	0.1%	0.1%	4,880
Phone Books and Directories	0.1%	0.1%	2,845	0.1%	0.1%	3,696
Other Miscellaneous Paper	0.6%	0.4%	24,921	0.6%	0.5%	36,592
Remainder/Composite Paper	0.4%	0.2%	19,539	0.4%	0.2%	25,097
Glass	1.1%		46,686	0.8%		53,618
Clear Glass Bottles and Containers	0.1%	0.1%	4,741	0.1%	0.0%	5,602
Green Glass Bottles and Containers	0.0%	0.0%	655	0.0%	0.0%	769
Brown Glass Bottles and Containers	0.1%	0.1%	2,656	0.0%	0.0%	2,901
Other Glass Colored Bottles and Containers	0.0%	0.0%	57	0.0%	0.0%	61
Flat Glass	0.5%	0.3%	22,303	0.4%	0.2%	23,928
Remainder/Composite Glass	0.4%	0.2%	16,275	0.3%	0.2%	20,357
Metal	3.4%		152,581	3.1%		196,284
Tin/Steel Cans	0.2%	0.2%	9,874	0.2%	0.2%	10,405
Major Appliances	0.1%	0.1%	4,175	0.1%	0.1%	5,126
Used Oil Filters	0.0%	0.0%	133	0.0%	0.0%	303
Other Ferrous	1.0%	0.4%	43,427	0.9%	0.4%	54,371
Aluminum Cans	0.0%	0.0%	375	0.0%	0.0%	484
Other Non-Ferrous	0.5%	0.4%	21,643	0.6%	0.5%	34,951
Remainder/Composite Metal	1.6%	0.7%	72,955	1.4%	0.6%	90,642
Electronics	0.5%		22,981	0.4%		27,275
Brown Goods	0.1%	0.1%	3,588	0.1%	0.1%	3,777
Computer-related Electronics	0.2%	0.2%	8,444	0.1%	0.2%	8,548
Other Small Consumer Electronics	0.1%	0.1%	5,854	0.1%	0.2%	8,938
Video Display Devices	0.1%	0.2%	5,095	0.1%	0.1%	6,010
Plastic	5.4%		239,437	4.9%		309,812
PETE Containers	0.1%	0.1%	4,351	0.1%	0.1%	4,827
HDPE Containers	0.0%	0.0%	837	0.0%	0.0%	1,090
Miscellaneous Plastic Containers	0.0%	0.0%	827	0.0%	0.0%	949
Plastic Trash Bags	0.1%	0.0%	3,851	0.1%	0.1%	5,565
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	842	0.0%	0.0%	953
Non-Bag Commercial and Industrial Packaging Film	0.1%	0.1%	3,395	0.1%	0.1%	3,687
Film Products	0.2%	0.3%	8,346	0.2%	0.4%	14,720
Other Film	0.1%	0.1%	6,156	0.1%	0.1%	8,051
Durable Plastic Items	2.3%	1.2%	100,726	1.9%	1.0%	120,206
Remainder/Composite Plastic	2.5%	1.5%	110,105	2.4%	1.6%	149,764

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Table 22 (continued): Composition of Overall Self-Hauled Disposed Waste

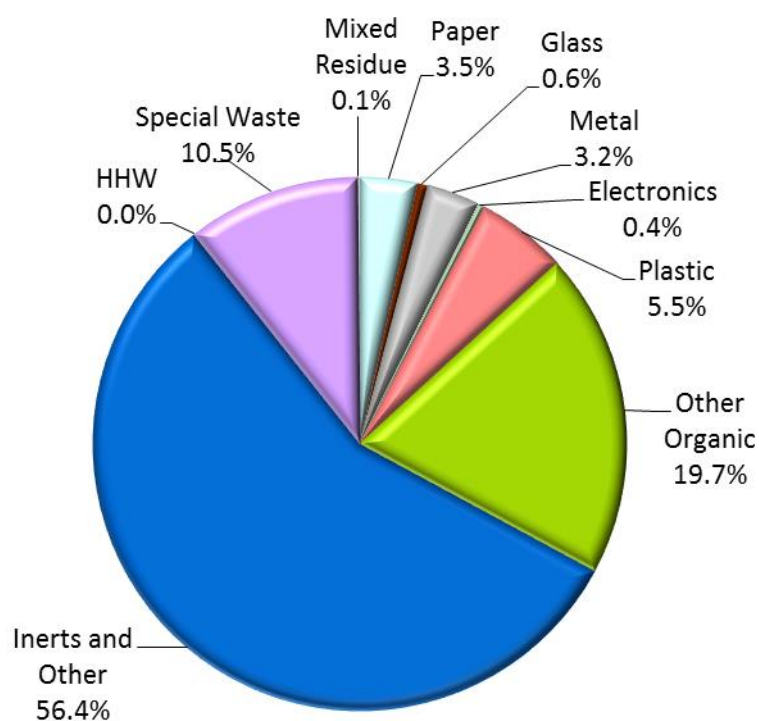
Material	Est. Using 2014 Sector Percentages			Est. Using 2008 Sector Percentages		
	Estimated Percent	+ / -	Estimated Tons	Estimated Percent	+ / -	Estimated Tons
Other Organic	19.0%		843,874	20.4%		1,289,332
Food	0.4%	0.3%	18,535	0.4%	0.2%	23,092
Leaves and Grass	3.0%	2.5%	131,527	3.4%	3.2%	211,664
Prunings and Trimmings	4.5%	2.9%	197,929	5.3%	3.8%	336,242
Branches and Stumps	2.4%	1.8%	108,345	2.8%	2.3%	177,973
Manures	0.5%	0.6%	21,189	0.3%	0.4%	21,230
Textiles	1.6%	0.5%	72,748	1.5%	0.5%	96,290
Carpet	5.3%	2.4%	235,989	5.2%	2.8%	327,354
Remainder/Composite Organic	1.3%	1.0%	57,612	1.5%	1.3%	95,487
Inerts and Other	54.9%		2,436,390	55.3%		3,488,473
Concrete	3.9%	1.9%	171,032	3.8%	2.1%	237,906
Asphalt Paving	1.5%	2.4%	65,490	2.0%	3.2%	123,205
Asphalt Roofing	1.8%	1.3%	77,888	1.5%	1.0%	93,999
Lumber	28.3%	4.4%	1,256,403	27.1%	5.1%	1,709,191
Gypsum Board	4.3%	2.2%	192,185	4.2%	2.4%	265,032
Rock, Soil and Fines	5.9%	3.0%	263,447	6.8%	3.7%	430,638
Remainder/Composite Inerts and Other	9.2%	3.7%	409,945	10.0%	4.6%	628,504
Household Hazardous Waste (HHW)	0.0%		1,684	0.0%		1,980
Paint	0.0%	0.0%	79	0.0%	0.0%	81
Vehicle & Equipment Fluids	0.0%	0.0%	0	0.0%	0.0%	0
Used Oil	0.0%	0.0%	38	0.0%	0.0%	87
Batteries	0.0%	0.0%	257	0.0%	0.0%	345
Remainder/Composite Household Hazardous	0.0%	0.0%	1,310	0.0%	0.0%	1,468
Special Waste	12.0%		532,145	11.4%		718,568
Ash	0.0%	0.0%	787	0.0%	0.0%	817
Treated Medical Waste	0.0%	0.0%	0	0.0%	0.0%	0
Bulky Items	11.4%	3.6%	507,514	11.0%	4.2%	693,930
Tires	0.5%	0.8%	23,787	0.4%	0.6%	23,749
Remainder/Composite Special Waste	0.0%	0.0%	57	0.0%	0.0%	72
Mixed Residue	0.4%		15,832	0.3%		16,953
Totals	100.0%		4,438,130	100.0%		6,308,785
Sample Count	250			250		

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

More detailed composition tables can be found in Appendix D: Expanded Statewide Waste Characterization Tables

The above table presents the 2014 sector percentages applied to the 2014 waste composition data and, for comparison, the sector percentages obtained in the 2008 Statewide Waste Characterization Study applied to the 2014 waste composition data. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 17: Overview of Commercial Self-Hauled Disposed Waste

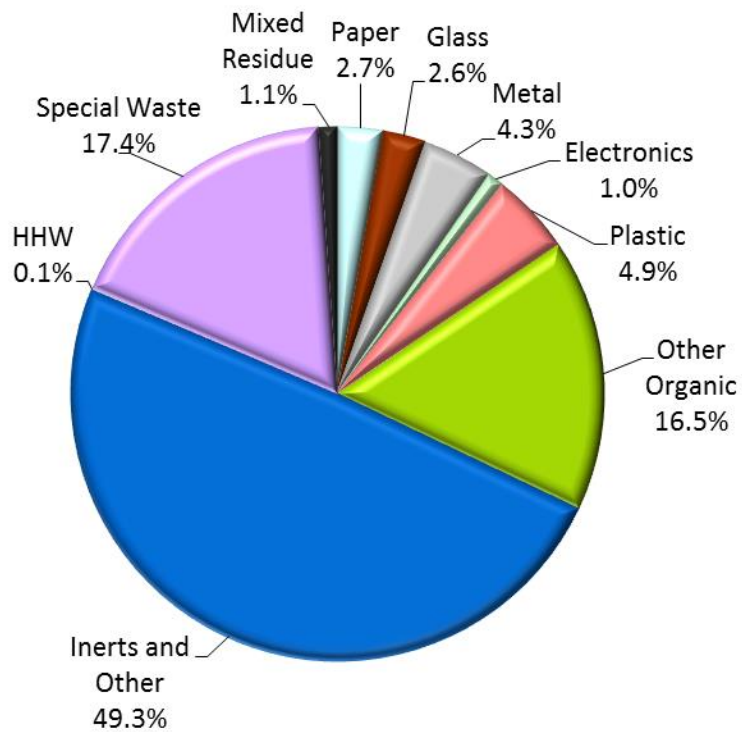


Material Class	Est. Percent
Paper	3.5%
Glass	0.6%
Metal	3.2%
Electronics	0.4%
Plastic	5.5%
Other Organic	19.7%
Inerts and Other	56.4%
HHW	0.0%
Special Waste	10.5%
Mixed Residue	0.1%
Total	100%

Numbers may not total exactly due to rounding.

The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.

Figure 19: Overview of Residential Self-Hauled Disposed Waste



Material Class	Est. Percent
Paper	2.7%
Glass	2.6%
Metal	4.3%
Electronics	1.0%
Plastic	4.9%
Other Organic	16.5%
Inerts and Other	49.3%
HHW	0.1%
Special Waste	17.4%
Mixed Residue	1.1%
Total	100%

Numbers may not total exactly due to rounding.

The above pie chart and table were constructed using sector percentage data obtained from the 2014 vehicle surveys applied to 2014 composition results. See *Special Note Regarding Sector Percentages* on page 3 of the [2014 report](#) for a further explanation of the sector percentage issues.