

# Section 8

## NORTHWEST REGION MSW COMPOSITION

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### Introduction

DEP manages Pennsylvania’s waste stream via a network of six regional offices. An objective of this study was to derive results for each of the regions in the Commonwealth. Aggregate State-wide results are provided in Section 4 of this report. The purpose of this section is to provide detailed results specifically for the Northwest Region. A map of the Northwest region is shown in Figure 1.

**Figure 1 Northwest Region Map**

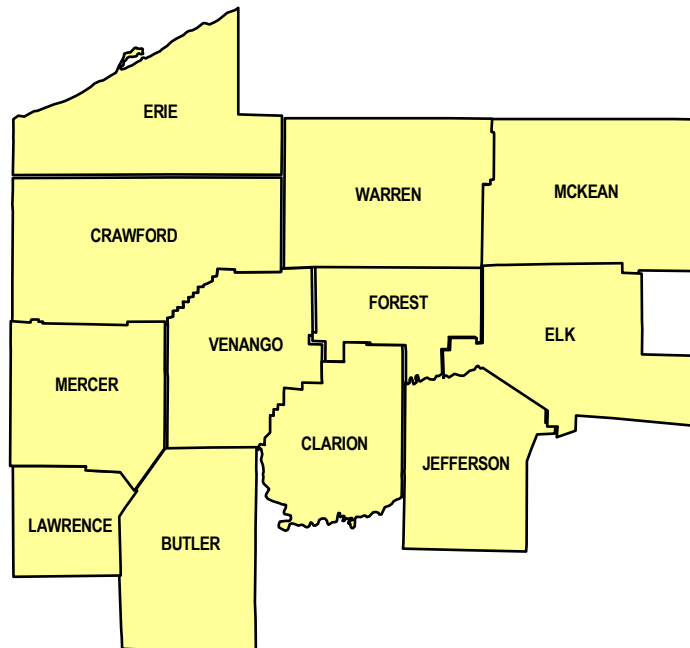


Table 1 summarizes the demographic and economic characteristics of the Northwest region.

**Table 1 Northwest Region Demographic Summary**

	Urban	Suburban	Rural	Total
Communities [1]	2	26	363	<b>391</b>
Population [1]	120,045	251,667	663,635	<b>1,035,347</b>
Housing Units [1]	48,013	101,496	267,390	<b>416,899</b>
Employment [2]	54,357	122,076	167,848	<b>344,281</b>

[1] Source: 2001 U.S. Census data provided by DEP

[2] Source: 2001 estimates provided by ESRI-BIS, Arlington, VA, based on U.S. Census data.

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Table 2 summarizes the waste that was reported by the Commonwealth's landfills (and incinerators) to have been disposed from each County within the Northwest region in 2001.

**Table 2 Northwest Region Waste Disposal Summary [1]**

County	MSW Disposed (tons)
Butler	112,259
Clarion	23,711
Crawford	41,823
Elk	22,909
Erie	189,580
Forest	2,680
Jefferson	24,591
Lawrence	9,702
McKean	36,438
Mercer	20,833
Venango	28,922
Warren	23,696
<b>Total</b>	<b>537,144</b>

[1] Source: County-level disposal quantity estimates are based on the 2001 DEP landfill disposal database

In order to aggregate the MSW composition data that was collected in this study, it was necessary to develop estimates of waste generation by county within the region. This was performed in the following steps:

- 1) Surveying urban, suburban, and rural communities across the Commonwealth to compile urban, suburban and rural residential MSW disposal factors (tons of disposed MSW per household per year);
- 2) Applying the residential generation factors to the total households in the region to estimate total disposed residential waste;
- 3) Estimating total regional waste disposed based on a statistical analysis of reported county-level waste disposal records relative to county-level population and employment; and
- 4) Netting out residential waste to calculate disposed commercial waste quantities.

The results of this process are shown in Table 3 for the Northwest Region.

**Table 3 Northwest Region Disposed MSW Summary (tons) [1]**

Waste Generating Sector	Tons of Waste Disposed			
	Urban	Suburban	Rural	Total
Residential generators	38,731	103,882	245,382	387,995
Commercial generators	24,602	33,991	90,555	149,149
<b>Total</b>	<b>63,333</b>	<b>137,874</b>	<b>335,937</b>	<b>537,144</b>

[1] Source: 2001 DEP database of disposed tons as reported by Pennsylvania disposal facilities.

In order to develop composition estimates for each of these demographic areas and generating sectors, field sampling was performed at two waste processing and disposal facilities:

- Lake View Landfill (Erie, Erie County); and
- Superior Greentree Landfill (Kersey, Elk County).

Sampling at these facilities was performed across four seasons to account for seasonal variation in MSW composition. Table 4 summarizes the sampling summary for the Northwest Region.

**Table 4 Northwest Region Sampling Summary**

Waste Generating Sector	Number of Samples			
	Urban	Suburban	Rural	Total
Physical MSW Samples				
Residential	21	25	57	103
Commercial	23	25	47	95
Subtotal—physical samples	44	50	104	198
Visual Bulk Waste Samples	19	15	40	74
<b>Total Samples</b>	<b>63</b>	<b>65</b>	<b>144</b>	<b>272</b>

### Regional Aggregate Results

The remainder of this section presents a graphical and tabular summary of the Northwest region’s disposed MSW composition. Specific figures and tables are summarized below.

- Figure 2 is a pie chart that shows the percentage composition of major material groups in the aggregate regional waste stream.
- Figure 3 is a bar chart that shows the estimated mean quantities of material disposed (or incinerated) from the region, again by major material group.

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- Figure 4 compares the incidence of recyclable materials as targeted in Act 101 that were found to be disposed by residential and commercial generators in the region.
- Figure 5 shows the 10 most prevalent materials being disposed in the region, by weight.
- Table 5 contains a detailed statistical presentation of the aggregate MSW composition in the region. This tabular summary includes the statistical mean composition, as well as the standard deviation, upper and lower confidence intervals, and a “sampling error”. The sampling error indicates the width of the confidence intervals relative to the mean. Lower sampling error signifies narrower confidence intervals (and therefore greater certainty of the mean composition shown).
- Figure 6 compares the percentage of disposed MSW landfilled from urban, suburban and rural communities within the region.
- Table 6 compares the mean composition of disposed MSW from urban, suburban and rural communities within the region.

### Results by Generating Sector

An objective of the study was to compare and contrast the composition of residential and commercial waste within the region.

- Figure 7 and Figure 8 summarize the percentage of MSW landfilled by major material group for residential generators and commercial generators, respectively.
- Tables 7 and 8, like Table 6, compare the mean composition of urban, suburban, and rural waste. Table 7 focuses on residential generators in the region, while Table 8 shows the same comparison for commercial generators.

### Bulky Waste

The State-wide MSW sort primarily targeted residential and commercial compacting vehicles, as well as commercial compacting and open-top roll-offs carrying non-C&D and non-industrial waste. These loads make up the majority of loads entering the Commonwealth’s disposal facilities. However, it was expected at the outset of the study that some incoming loads of MSW—primarily those in open-top roll-off vehicles—would contain bulky waste that was not conducive to physical sorting. Therefore, the study methodology allowed for selected visual, volumetric sampling of bulky loads to the extent they were observed during the sampling and sorting process.

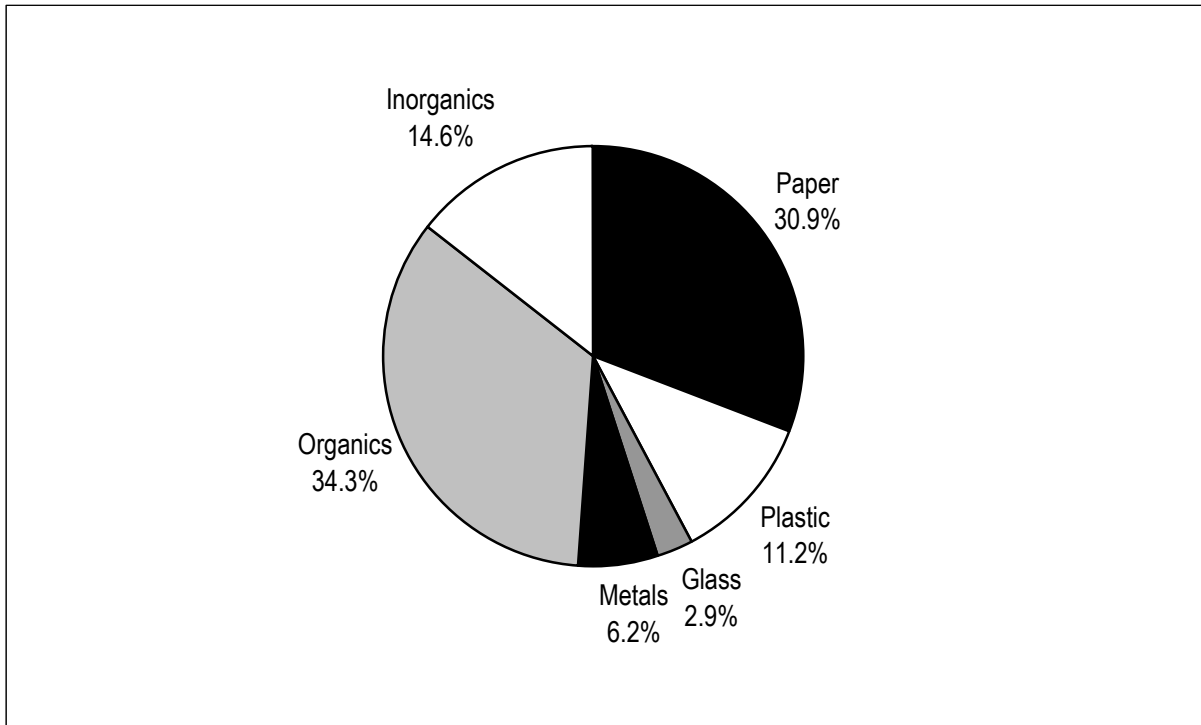
- Figure 9 shows the weight percentage composition of bulky items by major material group. Bulky loads were found to include a range of materials, including multi-family move-outs, residential and commercial clean-outs, miscellaneous commercial waste, and some renovation and construction type waste (although pure C&D loads were excluded from the analysis).

- Figure 10 lists the top 10 most prevalent bulky materials disposed during the study.

### **Self Haul Waste**

Self haulers were found to deliver only a small fraction of waste to disposal facilities during the study. Our sampling plan allowed for selected sampling of self-haulers, which include: residential haulers of renovation and/or clean-out waste, and commercial contractors hauling small renovation, construction, land clearing, and/or clean-out type waste. Note that an insufficient number of self-haul samples were obtained to develop region-specific results.

**Figure 2**  
**Northwest Region Aggregate MSW Composition**



**Figure 3**  
**Northwest Region Aggregate MSW Tons Disposed**

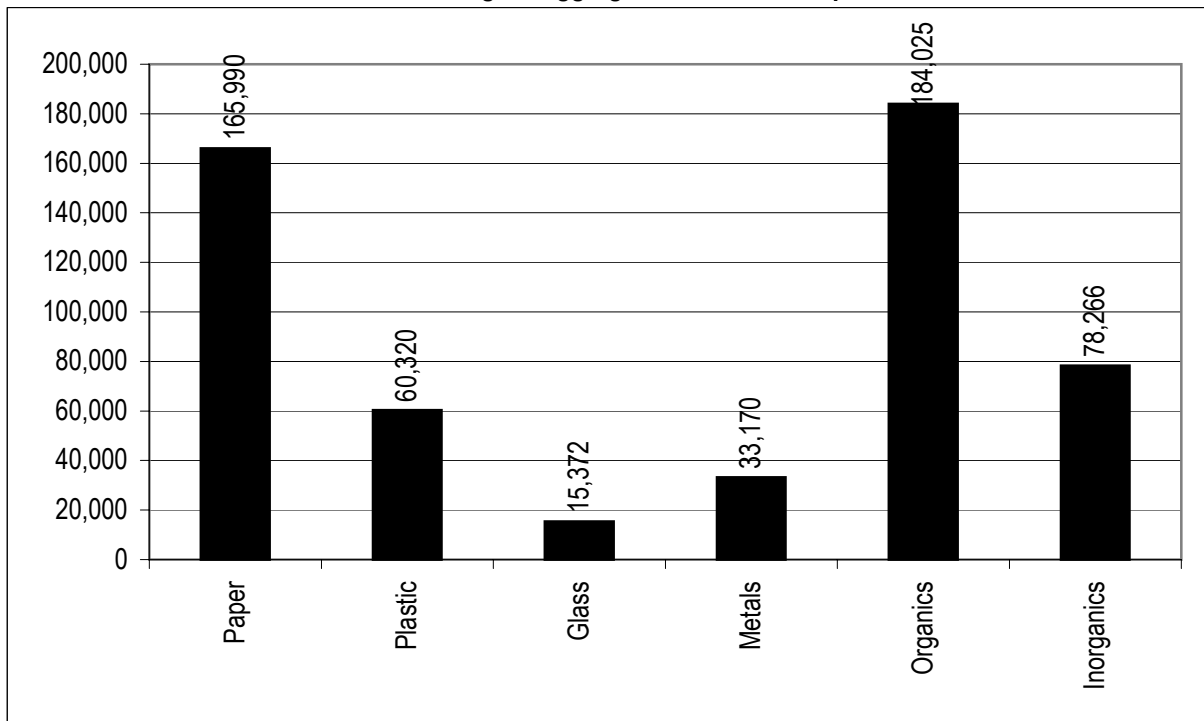


Figure 4  
Act 101- Recyclables in Disposed MSW (tons)

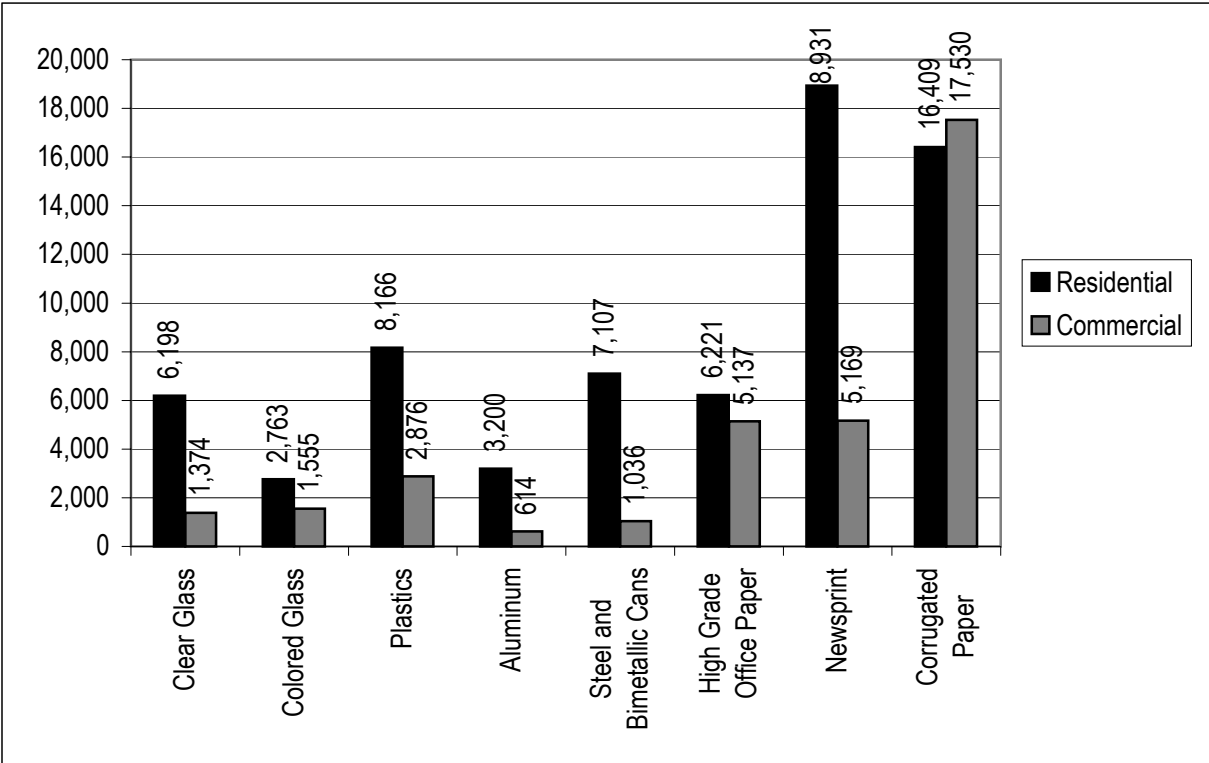
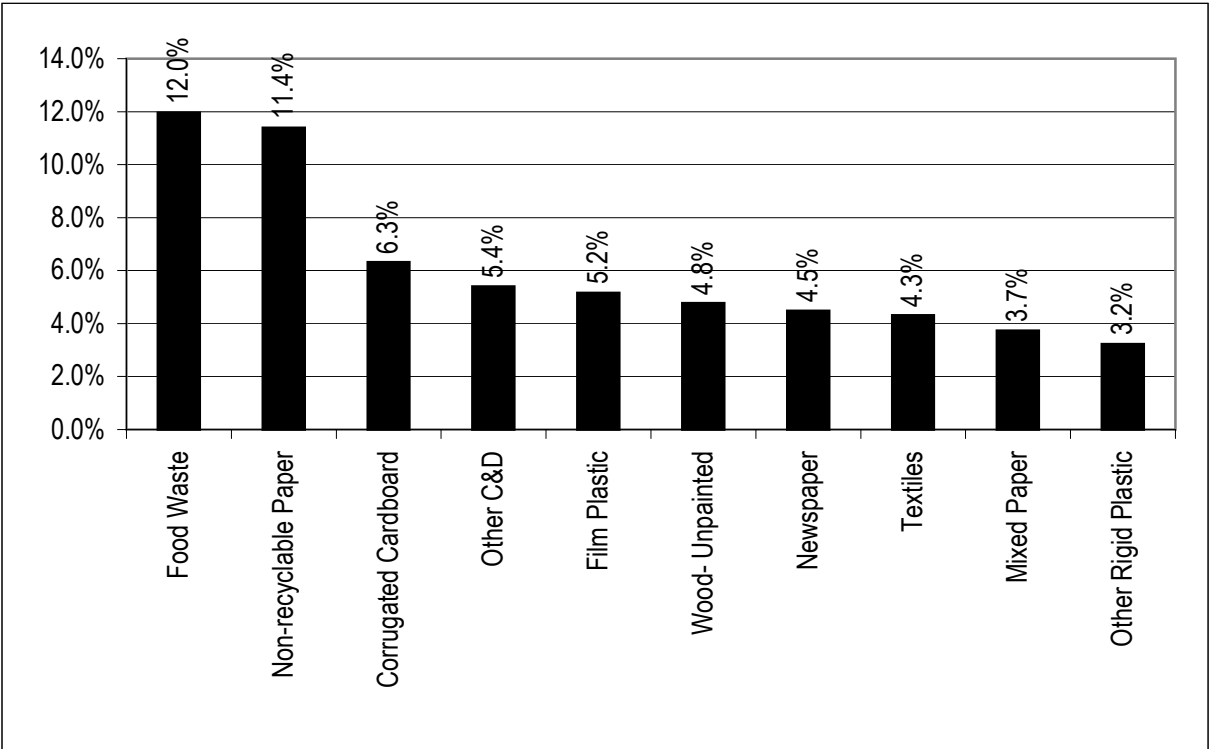


Figure 5  
Northwest Region Top 10 Most Prevalent Materials



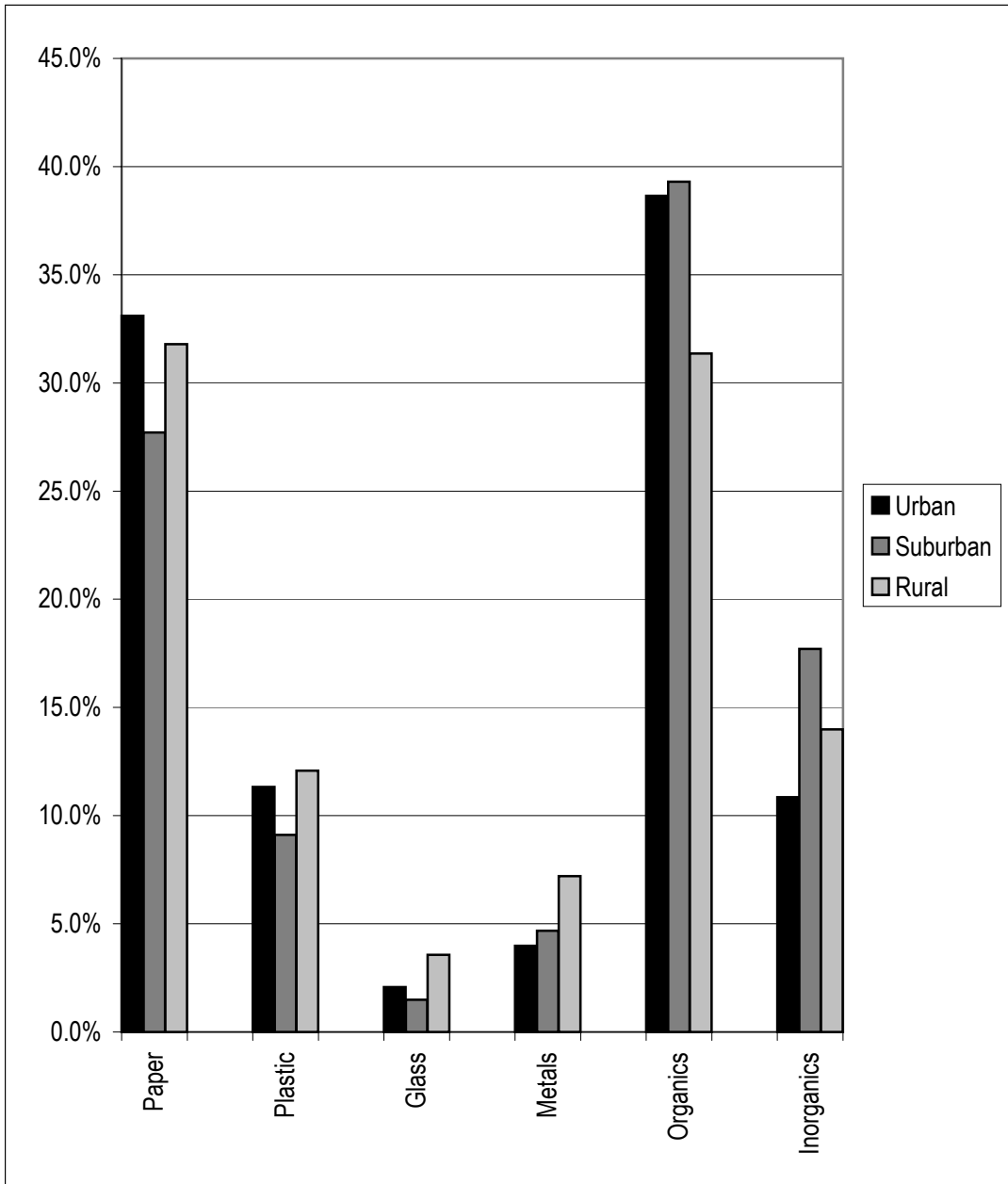
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**Table 5  
Northwest Region Aggregate Landfilled MSW Composition Detail (Weight Percent)**

	Material Categories	Tons Disposed	Mean Composition	Standard Deviation	Confidence Interval		Sampling Error
					Lower (%)	Upper (%)	
<b>Paper</b>		<b>165,990</b>	<b>30.9%</b>	<b>17.6%</b>	<b>28.2%</b>	<b>33.7%</b>	<b>8.8%</b>
	1 Newspaper	24,100	4.5%	5.1%	3.8%	5.4%	16.8%
	2 Corrugated Cardboard	33,939	6.3%	6.8%	5.6%	7.3%	13.2%
	3 Office	11,359	2.1%	4.0%	1.8%	2.6%	19.0%
	4 Magazine/ Glossy	14,187	2.6%	3.4%	2.2%	3.2%	18.9%
	5 Polycoated/Aseptic Containers	1,151	0.2%	1.4%	0.2%	0.3%	30.7%
	6 Mixed Paper	20,075	3.7%	4.8%	3.1%	4.6%	19.6%
	7 Non-recyclable Paper	61,179	11.4%	8.7%	10.0%	13.2%	13.9%
<b>Plastic</b>		<b>60,320</b>	<b>11.2%</b>	<b>9.3%</b>	<b>10.0%</b>	<b>12.5%</b>	<b>11.2%</b>
	8 #1 PET Bottles	6,443	1.2%	2.8%	1.0%	1.5%	20.9%
	9 #2 HDPE Bottles	4,598	0.9%	0.8%	0.7%	1.0%	18.6%
	10 #3-#7 Bottles	687	0.1%	0.2%	0.1%	0.2%	29.6%
	11 Expanded Polystyrene	3,556	0.7%	0.7%	0.6%	0.8%	15.4%
	12 Film Plastic	27,687	5.2%	5.7%	4.5%	6.1%	15.8%
	13 Other Rigid Plastic	17,349	3.2%	4.1%	2.8%	3.8%	14.6%
<b>Glass</b>		<b>15,372</b>	<b>2.9%</b>	<b>5.8%</b>	<b>2.4%</b>	<b>3.4%</b>	<b>18.0%</b>
	14 Clear Glass	7,572	1.4%	1.9%	1.2%	1.7%	18.8%
	15 Green Glass	1,331	0.2%	0.6%	0.2%	0.3%	31.7%
	16 Amber Glass	2,987	0.6%	1.2%	0.4%	0.7%	24.4%
	17 Non-recyclable Glass	3,482	0.6%	4.3%	0.4%	1.0%	41.0%
<b>Metals</b>		<b>33,170</b>	<b>6.2%</b>	<b>7.8%</b>	<b>5.3%</b>	<b>7.1%</b>	<b>14.2%</b>
	18 Steel Cans	8,143	1.5%	1.7%	1.3%	1.9%	19.7%
	19 Aluminum Cans	3,814	0.7%	0.8%	0.6%	0.9%	19.4%
	20 Other Ferrous	16,804	3.1%	7.6%	2.5%	4.1%	25.5%
	21 Other Aluminum	2,516	0.5%	1.7%	0.4%	0.6%	28.3%
	22 Other Non-Ferrous	1,893	0.4%	1.0%	0.3%	0.5%	29.7%
<b>Organics</b>		<b>184,025</b>	<b>34.3%</b>	<b>19.0%</b>	<b>31.6%</b>	<b>37.0%</b>	<b>7.9%</b>
	23 Yard Waste- Grass	14,414	2.7%	4.6%	1.7%	4.2%	46.8%
	24 Yard Waste- Other	14,280	2.7%	7.0%	2.0%	3.6%	29.7%
	25 Wood- Unpainted	25,627	4.8%	12.5%	3.9%	6.0%	21.0%
	26 Wood- Painted	12,765	2.4%	7.9%	1.8%	3.2%	28.9%
	27 Food Waste	64,203	12.0%	9.2%	10.5%	13.9%	14.3%
	28 Textiles	23,166	4.3%	6.2%	3.6%	5.3%	19.7%
	29 Diapers	12,045	2.2%	3.2%	1.8%	2.8%	21.9%
	30 Fines	7,137	1.3%	1.9%	1.1%	1.6%	17.0%
	31 Other Organics	10,388	1.9%	3.7%	1.6%	2.4%	22.3%
<b>Inorganics</b>		<b>78,266</b>	<b>14.6%</b>	<b>23.6%</b>	<b>12.0%</b>	<b>17.5%</b>	<b>18.8%</b>
	32 Electronics	6,451	1.2%	3.9%	0.9%	1.6%	29.4%
	33 Carpet	13,955	2.6%	10.8%	1.9%	3.7%	33.8%
	34 Drywall	5,639	1.0%	4.9%	0.8%	1.5%	31.5%
	35 Other C&D	29,023	5.4%	16.3%	4.1%	7.5%	32.1%
	36 HHW	2,362	0.4%	1.2%	0.3%	0.6%	31.2%
	37 Other Inorganics	11,368	2.1%	4.6%	1.7%	2.7%	24.3%
	38 Furniture	9,467	1.8%	10.8%	1.1%	2.9%	50.8%
	<b>Total</b>	<b>537,144</b>	<b>100.0%</b>				

Figure 6

Landfilled Aggregate Waste Composition Results by Demographic Sector (Weight Percent)



Material Group	Demographic Sector			Aggregate
	Urban	Suburban	Rural	
Paper	33.1%	27.7%	31.8%	30.9%
Plastic	11.3%	9.1%	12.1%	11.2%
Glass	2.1%	1.5%	3.6%	2.9%
Metals	4.0%	4.7%	7.2%	6.2%
Organics	38.6%	39.3%	31.4%	34.3%
Other Waste	10.9%	17.7%	14.0%	14.6%
Total	100.0%	100.0%	100.0%	100.0%

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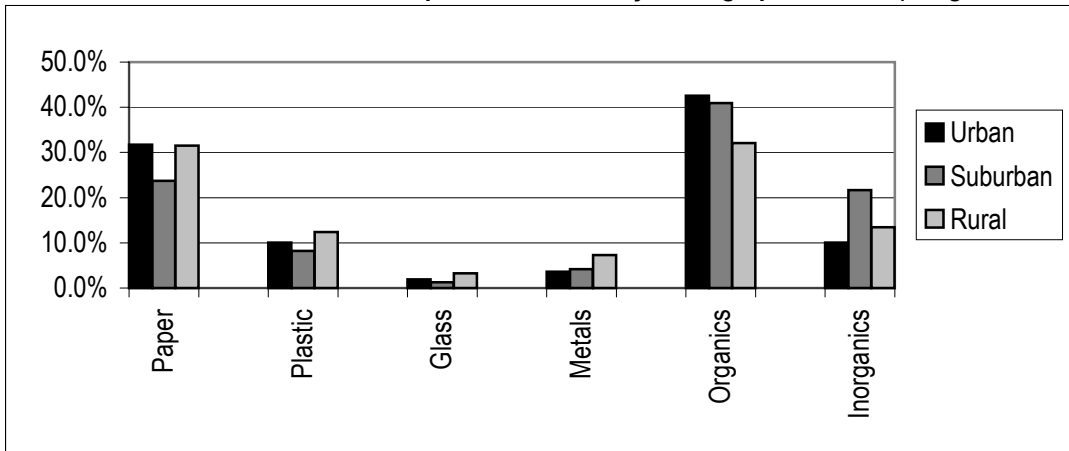
**Table 6**

**Landfilled Aggregate MSW Composition Detail by Demographic Sector (Weight Percent)**

	Material Categories	Urban	Suburban	Rural	Aggregate
Paper		<b>33.1%</b>	<b>27.7%</b>	<b>31.8%</b>	<b>30.9%</b>
	1 Newspaper	6.2%	3.2%	4.7%	4.5%
	2 Corrugated Cardboard	6.6%	6.2%	6.3%	6.3%
	3 Office	2.3%	1.9%	2.2%	2.1%
	4 Magazine/ Glossy	1.6%	2.3%	3.0%	2.6%
	5 Polycoated/Aseptic Containers	0.1%	0.2%	0.3%	0.2%
	6 Mixed Paper	4.7%	4.6%	3.2%	3.7%
	7 Non-recyclable Paper	11.6%	9.3%	12.2%	11.4%
Plastic		<b>11.3%</b>	<b>9.1%</b>	<b>12.1%</b>	<b>11.2%</b>
	8 #1 PET Bottles	0.9%	0.5%	1.5%	1.2%
	9 #2 HDPE Bottles	0.6%	0.4%	1.1%	0.9%
	10 #3-#7 Bottles	0.1%	0.1%	0.2%	0.1%
	11 Expanded Polystyrene	0.6%	0.6%	0.7%	0.7%
	12 Film Plastic	5.1%	4.6%	5.4%	5.2%
	13 Other Rigid Plastic	4.0%	2.8%	3.2%	3.2%
Glass		<b>2.1%</b>	<b>1.5%</b>	<b>3.6%</b>	<b>2.9%</b>
	14 Clear Glass	0.9%	0.7%	1.8%	1.4%
	15 Green Glass	0.2%	0.1%	0.3%	0.2%
	16 Amber Glass	0.3%	0.5%	0.6%	0.6%
	17 Non-recyclable Glass	0.7%	0.1%	0.9%	0.6%
Metals		<b>4.0%</b>	<b>4.7%</b>	<b>7.2%</b>	<b>6.2%</b>
	18 Steel Cans	1.0%	0.6%	2.0%	1.5%
	19 Aluminum Cans	0.6%	0.4%	0.9%	0.7%
	20 Other Ferrous	1.9%	3.2%	3.3%	3.1%
	21 Other Aluminum	0.3%	0.4%	0.5%	0.5%
	22 Other Non-Ferrous	0.2%	0.1%	0.5%	0.4%
Organics		<b>38.6%</b>	<b>39.3%</b>	<b>31.4%</b>	<b>34.3%</b>
	23 Yard Waste- Grass	2.6%	8.3%	0.4%	2.7%
	24 Yard Waste- Other	4.9%	5.2%	1.2%	2.7%
	25 Wood- Unpainted	6.9%	3.6%	4.9%	4.8%
	26 Wood- Painted	4.3%	3.1%	1.7%	2.4%
	27 Food Waste	9.8%	10.3%	13.0%	12.0%
	28 Textiles	4.9%	3.6%	4.5%	4.3%
	29 Diapers	2.5%	2.2%	2.2%	2.2%
	30 Fines	1.3%	0.8%	1.6%	1.3%
	31 Other Organics	1.6%	2.3%	1.9%	1.9%
Inorganics		<b>10.9%</b>	<b>17.7%</b>	<b>14.0%</b>	<b>14.6%</b>
	32 Electronics	1.4%	0.9%	1.3%	1.2%
	33 Carpet	1.2%	3.8%	2.4%	2.6%
	34 Drywall	1.3%	1.2%	1.0%	1.0%
	35 Other C&D	2.5%	7.0%	5.3%	5.4%
	36 HHW	0.4%	0.4%	0.5%	0.4%
	37 Other Inorganics	3.7%	1.4%	2.1%	2.1%
	38 Furniture	0.3%	3.1%	1.5%	1.8%
	<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Figure 7

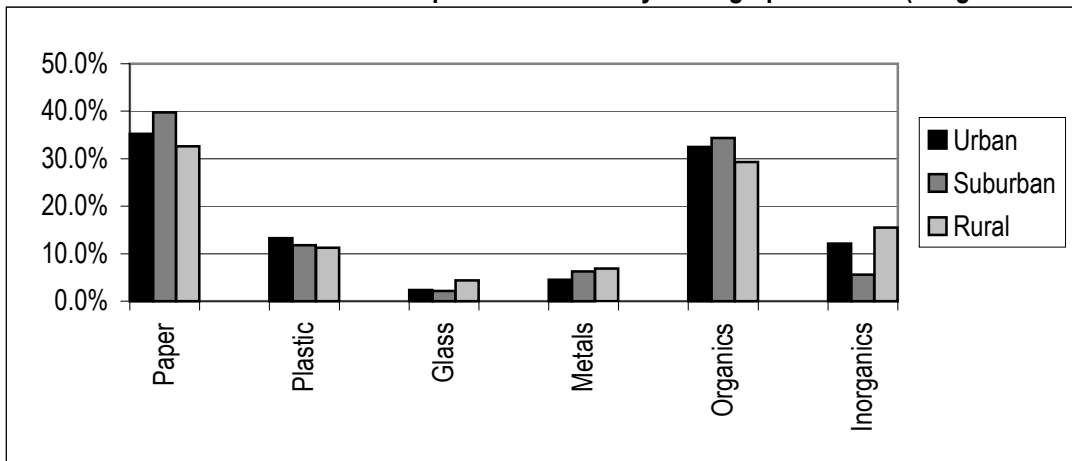
Landfilled Residential MSW Composition Results by Demographic Sector (Weight Percent)



Generator	Demographic Sector			
	Urban	Suburban	Rural	Aggregate
Paper	31.8%	23.8%	31.5%	29.4%
Plastic	10.1%	8.2%	12.4%	11.0%
Glass	1.9%	1.3%	3.3%	2.6%
Metals	3.6%	4.2%	7.3%	6.1%
Organics	42.6%	40.9%	32.1%	35.5%
Other Waste	10.1%	21.7%	13.4%	15.3%
Total	100.0%	100.0%	100.0%	100.0%

Figure 8

Landfilled Commercial MSW Composition Results by Demographic Sector (Weight Percent)



Generator	Demographic Sector			
	Urban	Suburban	Rural	Aggregate
Paper	35.2%	39.8%	32.6%	34.7%
Plastic	13.3%	11.8%	11.3%	11.7%
Glass	2.4%	2.2%	4.4%	3.5%
Metals	4.5%	6.3%	6.9%	6.4%
Organics	32.5%	34.4%	29.3%	31.0%
Other Waste	12.1%	5.6%	15.5%	12.7%
Total	100.0%	100.0%	100.0%	100.0%

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**Table 7**

**Landfilled Residential MSW Composition Detail by Demographic Sector (Weight Percent)**

	Material Categories	Urban	Suburban	Rural	Aggregate
<b>Paper</b>		<b>31.8%</b>	<b>23.8%</b>	<b>31.5%</b>	<b>29.4%</b>
	1 Newspaper	7.8%	3.5%	5.0%	4.9%
	2 Corrugated Cardboard	4.2%	3.6%	4.5%	4.2%
	3 Office	2.3%	1.3%	1.6%	1.6%
	4 Magazine/ Glossy	1.7%	2.2%	3.4%	2.9%
	5 Polycoated/Aseptic Containers	0.2%	0.1%	0.2%	0.2%
	6 Mixed Paper	4.2%	4.4%	3.3%	3.7%
7 Non-recyclable Paper	11.4%	8.6%	13.5%	12.0%	
<b>Plastic</b>		<b>10.1%</b>	<b>8.2%</b>	<b>12.4%</b>	<b>11.0%</b>
	8 #1 PET Bottles	0.9%	0.5%	1.5%	1.1%
	9 #2 HDPE Bottles	0.8%	0.4%	1.2%	1.0%
	10 #3-#7 Bottles	0.1%	0.1%	0.2%	0.1%
	11 Expanded Polystyrene	0.7%	0.6%	0.7%	0.6%
	12 Film Plastic	4.9%	4.0%	5.8%	5.2%
13 Other Rigid Plastic	2.7%	2.7%	3.0%	2.9%	
<b>Glass</b>		<b>1.9%</b>	<b>1.3%</b>	<b>3.3%</b>	<b>2.6%</b>
	14 Clear Glass	0.8%	0.7%	2.1%	1.6%
	15 Green Glass	0.2%	0.1%	0.3%	0.3%
	16 Amber Glass	0.3%	0.3%	0.5%	0.4%
17 Non-recyclable Glass	0.7%	0.2%	0.3%	0.3%	
<b>Metals</b>		<b>3.6%</b>	<b>4.2%</b>	<b>7.3%</b>	<b>6.1%</b>
	18 Steel Cans	1.0%	0.6%	2.5%	1.8%
	19 Aluminum Cans	0.8%	0.4%	1.0%	0.8%
	20 Other Ferrous	1.3%	2.7%	2.9%	2.7%
	21 Other Aluminum	0.3%	0.3%	0.5%	0.4%
22 Other Non-Ferrous	0.2%	0.1%	0.4%	0.3%	
<b>Organics</b>		<b>42.6%</b>	<b>40.9%</b>	<b>32.1%</b>	<b>35.5%</b>
	23 Yard Waste- Grass	4.0%	11.0%	0.4%	3.6%
	24 Yard Waste- Other	6.7%	6.0%	1.4%	3.1%
	25 Wood- Unpainted	4.3%	1.9%	3.4%	3.1%
	26 Wood- Painted	6.3%	3.3%	1.5%	2.5%
	27 Food Waste	8.9%	9.5%	14.3%	12.5%
	28 Textiles	6.4%	4.5%	4.8%	4.9%
	29 Diapers	2.7%	2.0%	2.7%	2.5%
	30 Fines	1.3%	0.9%	1.7%	1.4%
31 Other Organics	1.9%	1.9%	1.9%	1.9%	
<b>Inorganics</b>		<b>10.1%</b>	<b>21.7%</b>	<b>13.4%</b>	<b>15.3%</b>
	32 Electronics	0.8%	1.1%	1.2%	1.1%
	33 Carpet	0.8%	4.2%	2.2%	2.6%
	34 Drywall	1.2%	1.5%	0.5%	0.8%
	35 Other C&D	3.2%	8.9%	4.7%	5.7%
	36 HHW	0.5%	0.4%	0.6%	0.5%
	37 Other Inorganics	3.5%	1.5%	2.4%	2.3%
38 Furniture	0.0%	4.1%	1.9%	2.3%	
	<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Table 8**  
**Landfilled Commercial MSW Composition Detail by Demographic Sector (Weight Percent)**

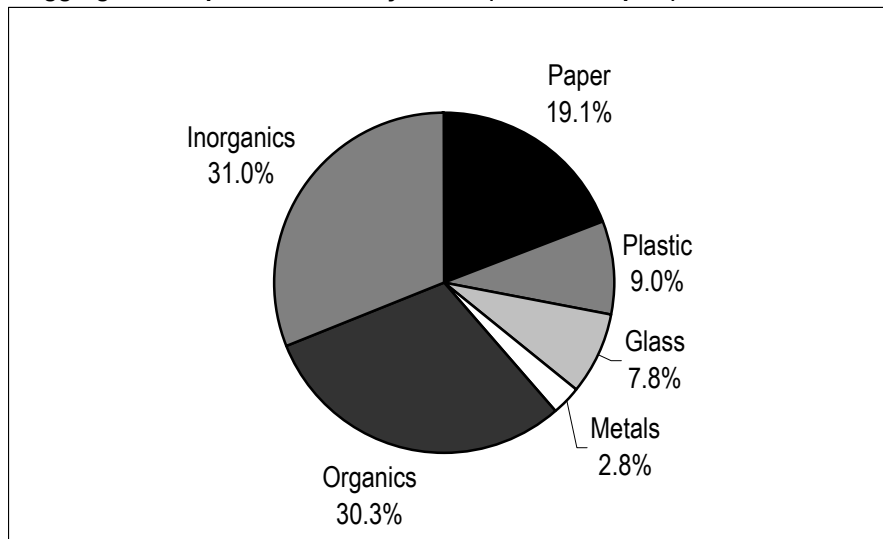
	Material Categories	Urban	Suburban	Rural	Aggregate
<b>Paper</b>		<b>35.2%</b>	<b>39.8%</b>	<b>32.6%</b>	<b>34.7%</b>
	1 Newspaper	3.6%	2.2%	3.9%	3.5%
	2 Corrugated Cardboard	10.3%	14.4%	11.2%	11.8%
	3 Office	2.4%	3.5%	3.7%	3.4%
	4 Magazine/ Glossy	1.4%	2.6%	1.8%	1.9%
	5 Polycoated/Aseptic Containers	0.1%	0.3%	0.4%	0.3%
	6 Mixed Paper	5.5%	5.3%	3.0%	4.0%
	7 Non-recyclable Paper	12.0%	11.5%	8.6%	9.8%
<b>Plastic</b>		<b>13.3%</b>	<b>11.8%</b>	<b>11.3%</b>	<b>11.7%</b>
	8 #1 PET Bottles	0.7%	0.8%	1.7%	1.3%
	9 #2 HDPE Bottles	0.4%	0.6%	0.6%	0.6%
	10 #3-#7 Bottles	0.0%	0.1%	0.1%	0.1%
	11 Expanded Polystyrene	0.6%	0.9%	0.7%	0.7%
	12 Film Plastic	5.4%	6.4%	4.3%	5.0%
	13 Other Rigid Plastic	6.1%	3.1%	3.8%	4.0%
<b>Glass</b>		<b>2.4%</b>	<b>2.2%</b>	<b>4.4%</b>	<b>3.5%</b>
	14 Clear Glass	1.1%	0.6%	1.0%	0.9%
	15 Green Glass	0.2%	0.2%	0.2%	0.2%
	16 Amber Glass	0.5%	1.3%	0.8%	0.9%
	17 Non-recyclable Glass	0.6%	0.1%	2.4%	1.6%
<b>Metals</b>		<b>4.5%</b>	<b>6.3%</b>	<b>6.9%</b>	<b>6.4%</b>
	18 Steel Cans	0.9%	0.4%	0.8%	0.7%
	19 Aluminum Cans	0.3%	0.4%	0.5%	0.4%
	20 Other Ferrous	2.8%	4.7%	4.4%	4.2%
	21 Other Aluminum	0.5%	0.6%	0.5%	0.5%
	22 Other Non-Ferrous	0.0%	0.2%	0.8%	0.5%
<b>Organics</b>		<b>32.5%</b>	<b>34.4%</b>	<b>29.3%</b>	<b>31.0%</b>
	23 Yard Waste- Grass	0.4%	0.1%	0.3%	0.3%
	24 Yard Waste- Other	2.0%	2.7%	0.7%	1.4%
	25 Wood- Unpainted	10.9%	8.8%	8.8%	9.2%
	26 Wood- Painted	1.2%	2.7%	2.2%	2.1%
	27 Food Waste	11.2%	12.6%	9.6%	10.5%
	28 Textiles	2.5%	1.0%	3.6%	2.8%
	29 Diapers	2.2%	2.7%	1.0%	1.6%
	30 Fines	1.2%	0.4%	1.3%	1.1%
	31 Other Organics	1.0%	3.4%	1.8%	2.0%
<b>Inorganics</b>		<b>12.1%</b>	<b>5.6%</b>	<b>15.5%</b>	<b>12.7%</b>
	32 Electronics	2.4%	0.3%	1.5%	1.4%
	33 Carpet	1.9%	2.6%	2.9%	2.7%
	34 Drywall	1.4%	0.2%	2.3%	1.7%
	35 Other C&D	1.3%	1.2%	6.9%	4.7%
	36 HHW	0.2%	0.2%	0.2%	0.2%
	37 Other Inorganics	4.1%	1.1%	1.3%	1.7%
	38 Furniture	0.9%	0.0%	0.3%	0.4%
	<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Section 8**

**Figure 9**

**Northwest Region Aggregate Composition of Bulky Loads (Visual Samples)**

Material Group	% Weight
Paper	19.1%
Plastic	9.0%
Glass	7.8%
Metals	2.8%
Organics	30.3%
Inorganics	31.0%
Total	100.0%



**Figure 10**

**Northwest Region Top 10 Most Prevalent Bulky Materials**

