

2009 Washington Statewide Waste Characterization Study

Washington State Department of Ecology

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Clallam County	Port Angeles Transfer Station
Grays Harbor County	Aberdeen Central Transfer Station
Whatcom County	Regional Disposal Company
Clark County	West Van Material Recovery Center
Lewis County	Lewis County Central Transfer Station
Kitsap County	Olympic View Transfer Station
Grant County	Ephrata Landfill
Yakima County	Terrace Heights Landfill
Spokane County	Spokane Regional Waste to Energy Facility
Walla Walla County	Sudbury Road Landfill

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1. Introduction

The Washington State Department of Ecology (Ecology) commissioned Cascadia Consulting Group (Cascadia) to conduct a four-season municipal solid waste (MSW) characterization study during 2009–10. The purpose of this study was to support Ecology's Beyond Waste Initiative and conduct an in-depth examination of materials and resources currently disposed throughout the state.

This study incorporated three additional analysis tasks, specifically:

- A packaging versus product analysis which separated each of the 130 materials examined in this study—with an emphasis on paper, plastic, glass, and metal— into either packaging or product classes, when applicable, or one of six other material categories when packaging and product designations do not apply.
- Detailed composition results for each of the state's six waste generation areas (WGAs)—Central, East, Northwest, Puget Sound, Southwest, and West.
- A supplementary analysis which combines the 10 county statewide results with prior waste composition studies carried out in three additional Puget Sound Counties.

Ecology can use the data collected in this study to help municipalities as well as public and private solid waste managers design targeted recycling and diversion programs. These programs will move beyond material disposal to resource conservation and ultimately to a healthier Washington State.

As a preliminary look at the statewide data, Figure 1 through Figure 5 display the composition estimates by **Material Class** for the overall waste stream and each of the four studied waste sectors. Disposed **Organics** is considerably higher in the residential waste sector (41%) than in the commercial sector (24%) and makes up nearly 30% of Washington's overall disposed waste stream. **Paper** (combining products and packaging) and **Plastic** (combining products and packaging) occur in nearly equal proportions between the commercial and residential sectors.

Not surprisingly, **Construction Materials** and **Wood Debris** are found in the highest proportions in the self-hauled C&D waste sector. Among the waste hauled by contracted or municipal vehicles, C&D waste is

Classes vs. Types

For the sake of clarity, broad categories such as **Paper Products**, **Glass**, and **Metal** are in bold and capitalized. Material types such as *newspaper*, *clear glass containers*, and *tin cans* are in italics.

found in much higher proportions in the commercial sector (13%) than in the residential sector (3%).

A comprehensive analysis of the overall waste stream and the commercial, residential, and self-hauled sectors is addressed below in Section 3: Statewide Characterization Results.



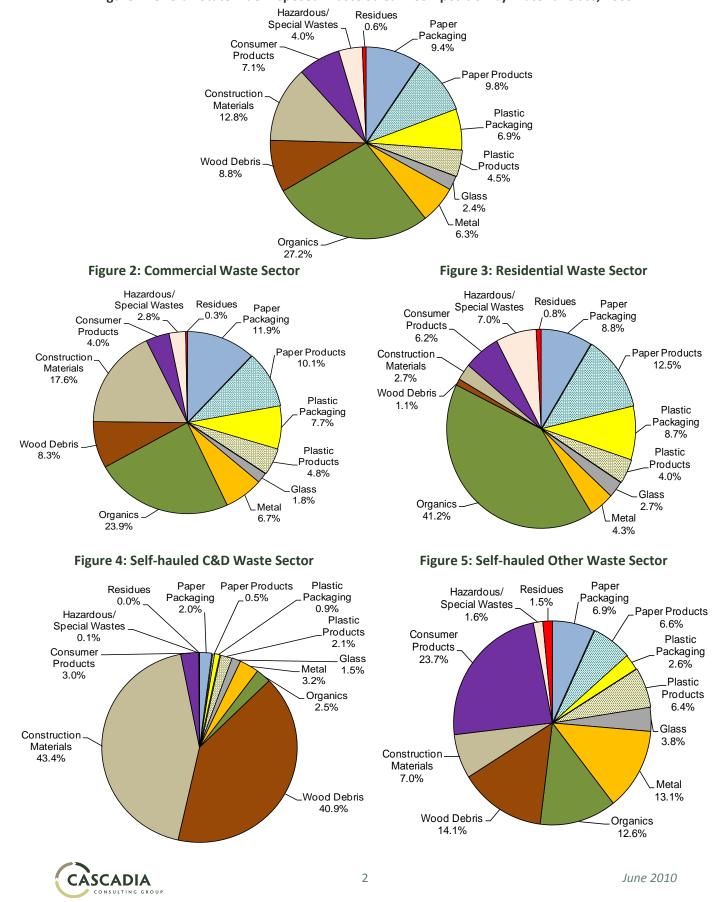


Figure 1: Overall Statewide Disposed Waste Stream Composition by Material Class, 2009

2. Study Planning and Collection Approach

This section summarizes the planning and data collection approaches used in the 2009 statewide study. The goal of this section is to provide context for understanding and interpreting the statewide characterization results presented in the following section.

Ecology began this study by creating a plan that provided the framework for all subsequent data collection and analysis strategies. This planning stage included:

- 1. Selecting representative counties across the state to visit;
- 2. Scheduling solid waste disposal facilities statewide to survey and sample;
- 3. Defining the waste sectors to examine during the study; and
- 4. Creating the list of *material types* to examine throughout the study.

Following the planning stage, Cascadia implemented data collection and analysis strategies, which included:

- 5. Determining composition of the waste stream through sampling and sorting; and
- 6. Quantifying the waste stream through vehicle and phone surveys.

Each of the six steps is expanded upon below. To gain a more detailed understanding of the methodology used for this study, see Appendix A: Detailed Methodology.

Selecting Representative Counties

Before any discussions of data collection began, Ecology first selected ten counties in which to collect and sort waste samples. These ten counties represent Washington's six WGAs: Central, East, Northwest, Puget Sound, Southwest, and West. The six WGAs combine similar regions and take into account the geographic and economic variation found throughout the state.

In addition to the ten counties chosen as data collection sites, Ecology planned to conduct a supplementary analysis, combining the 2009 statewide data with existing composition data from three additional Puget Sound counties: King, Snohomish, and Thurston. The ten counties visited and additional three counties analyzed are shown in Table 1 and Figure 6.

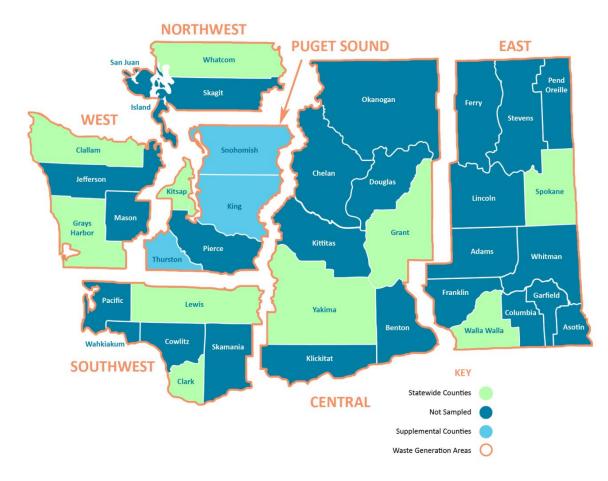
Composition results for the six Washington WGAs Results and the supplementary analysis are in Appendix D: Waste Generation Area Composition Results and Appendix E: Supplemental Composition Results.



Table 1: Waste Generation Areas and Counties Included in the 2009 Statewide Study and Supplemental Analysis

WASTE GENERATION AREA	COUNTIES VISITED FOR STATEWIDE STUDY	SUPPLEMENTAL COUNTIES ANALYZED ¹
Central	Grant, Yakima	
East	Spokane, Walla Walla	
Northwest	Whatcom	
Puget Sound	Kitsap	King, Snohomish, Thurston
Southwest	Clark, Lewis	
West	Clallam, Grays Harbor	

Figure 6: Map of Waste Generation Areas and Counties Included



¹ Composition results using the supplemental analysis are in Appendix E: Supplemental Composition Results.



Scheduling Surveying and Sampling Facilities

After selecting ten counties to visit, Ecology recruited one solid waste facility in each county where waste sampling, sorting, and surveying would occur. Table 2 lists the selected counties and facilities visited.

COUNTY	FACILITY
Clallam	Port Angeles Transfer Station
Grays Harbor	Aberdeen Central Transfer Station
Whatcom	Regional Disposal Company
Clark	West Van Material Recovery Center
Lewis	Lewis County Central Transfer Station
Kitsap	Olympic View Transfer Station
Grant	Ephrata Landfill
Yakima	Terrace Heights Landfill
Spokane	Spokane Regional Waste to Energy Facility
Walla Walla	Sudbury Road Landfill

Table 2: Counties and Facilities Visited for Sampling and Surveying

Cascadia conducted sampling and sorting at each facility once per season for four seasons, except the Spokane Regional Waste to Energy Facility, which was visited twice per season. The spring season began in March 2009 and the study ended with the winter season in January 2010. Seasons were defined as follows:

- Spring: March 24-April 8, 2009
- Summer: May 14-June 1, 2009
- Fall: August 31-September 4, 2009
- Winter: January 18-27, 2010

Cascadia carried out a vehicle survey to collect tonnage information (explained below) during the winter season only.

Defining Waste Sectors

Waste characterization data are often used for solid waste and recycling planning and targeting purposes. Therefore, in such studies the overall waste stream is typically separated into multiple subgroups called sectors. Cascadia and Ecology divided Washington's waste stream into the following four waste sectors:



- Commercial. Waste hauled by contracted or municipally operated vehicles in which 80 percent or more of the waste is from institutional, commercial, or industrial sources, and includes construction and demolition (C&D) materials.²
- Residential. Waste hauled by contracted or municipally operated vehicles in which 80 percent or more of the waste is from single-family and/or multifamily residential sources.
- Self-hauled Construction and Demolition (C&D). Waste hauled by vehicles not operated by a franchise or municipality and whose waste was generated as a result of construction or demolition activities.
- Self-hauled Other. Waste hauled by vehicles not operated by a franchise or municipality and whose waste was not generated as a result of construction or demolition activities.

Table 3 shows how the 530 total samples, determined by Ecology and collected during the 2009 study, were divided among the four sectors. See Appendix A: Detailed Methodology for a detailed list of planned versus actual samples by sector and WGA.

SECTOR	NUMBER OF SAMPLES
Commercial	164
Residential	148
Self-hauled C&D	109
Self-hauled Other	109
Total	530

Table 3: Numbers of Waste Samples Characterized by Sector

Creating the List of Material Types

Cascadia characterized a total of 530 samples during the four seasons, separating waste into one of 130 *material types*. Ecology created the list of 130 *material types* and organized them into 12 **Material Classes**. A detailed list of how materials were reapportioned into packaging and products is in Appendix B: List and Definitions of Material Types. Table 4 shows the number of *material types* in each of the broad **Material Classes**.

² While this study focused on municipal solid waste (MSW) and all facilities visited were MSW disposal facilities, many take C&D waste as accepted materials. Therefore, a commercial vehicle hauling C&D materials could have been randomly chosen for inclusion in the study.



MATERIAL CLASSES	NUMBER OF MATERIAL TYPES WITHIN CLASS
Paper Packaging	6
Paper Products	9
Plastic Packaging	15
Plastic Products	11
Glass	6
Metal	9
Organics	9
Wood Wastes	8
Construction Materials	12
Consumer Products	17
Hazardous Wastes	24
Residues	4
Total	130

Table 4: Number of Material Types per Material Class

Packaging and Product List

Organizing materials into **Material Classes** such as **Paper**, **Plastic**, **Glass**, **and Metal**, similar to those listed in Table 4, is standard from a waste characterization perspective. However, when considering waste reduction or product stewardship initiatives, planners will benefit from a more detailed breakdown of products versus packaging in the waste stream. For the purposes of a packaging and product analysis, the 130 *material types* were reapportioned to one of eight **Material Classes** as listed in Table 5. For example, all materials in both **Paper and Plastic Packaging** fall under **Packaging** for this analysis. The **Glass** class falls away as all *glass containers* are moved under **Packaging**, while *plate glass* and *stoneware* move to **Products**. The remaining **Glass** material, *R/C glass*, is moved to **Residues**.

This reapportioning allows planners to look at the 2009 waste composition results and consider disposed waste with a fresh perspective. Instead of asking how to reduce the amount of merchandise bags, polystyrene clamshells, and aluminum foil in the waste stream, planners can ask how to work with the packaging industry as a whole to reduce the amount of material disposed.

PACKAGING AND PRODUCT MATERIAL CLASSES	
Packaging	Wood Debris
Products	Construction Materials
Metal	Hazardous/Special Waste
Organics	Residues

Table 5: The Eight Material Classes Used for the Packaging and Product Analysis

A detailed list of how materials were reapportioned into packaging and products is in Appendix B: List and Definitions of Material Types.



Determining Composition of the Statewide Waste Stream

Composition data from the statewide 2009 study—the percentage of each material found in the waste stream—were determined by sorting disposed waste samples into one of 130 *material types*. Samples of disposed waste from each of the sectors—commercial, residential, self-hauled C&D, and selfhauled other—were selected randomly at each facility and sorted by hand. Hand-sorting and weighing every *material type* found in a sample produces accurate measures that can be reliably converted to percentages and then applied to tonnage figures in order to quantify the waste stream.

Quantifying the Waste Stream

Statewide Disposed Tons

The first step in quantifying Washington's disposed waste stream was to determine the amount of MSW disposed statewide. Ecology provided an annual disposed tonnage figure of 4,978,496 tons.³

What does R/C stand for?

Most of the **Material Classes** created for this study include a *material type* that begins with "R/C" such as *R/C glass*, *R/C metals*, and *R/C organics*. These initials stand for "remainder/composite" and define a material that either cannot be categorized in any other material type or where the material is a composite of more than one material.

Examples of R/C products include Pyrex glassware, insulated wire, and cigarette butts.

Sector Allocations of Waste Disposed

Once the total statewide tonnage figure was known, tonnage figures for each of the four waste sectors were calculated. Cascadia carried out a vehicle survey during the winter season at the ten sampling facilities to determine how many tons of disposed waste were associated with each waste sector. This process entailed collecting a load weight from each vehicle disposing waste at a facility, and apportioning those tons to one of the four waste sectors. To supplement the ten vehicle surveys, Cascadia also collected additional tonnage data via a phone survey from 36 more solid waste facilities throughout the state. Compiling the survey weights yielded the "sector split" or percent of total waste generated by weight and each sector. See Appendix A: Detailed Methodology for a detailed account of the surveying and quantification process.

Combining the Two

Combining the overall annual disposed tonnage data with the sector allocations yielded tonnage figures for each sector. Table 6 shows the estimated disposed tonnages and their ratio from each sector of the overall waste stream.

³ All estimated tons used in this report are based on 2008 disposed waste tonnage figures provided by annual disposal reports from permitted facilities: http://www.ecy.wa.gov/programs/swfa/solidwastedata/.



	EST. PERCENTAGE	EST. TONS
SECTOR	OF DISPOSED	DISPOSED
	WASTE SECTOR	STATEWIDE
Commercial	43.7%	2,174,075
Residential	36.7%	1,826,521
Self-hauled C&D	7.5%	374,386
Self-hauled	12.1%	603,514
Totals	100.0%	4,978,496

Table 6: Estimated Tons of Disposed Waste by Sector

The commercial sector disposed the largest amount of waste, composing nearly 44 percent of the state's waste stream and a projected 2.2 million tons. The residential sector represents approximately 37 percent (1.8 million tons) of total waste, and the two self-hauled sectors represent the final 20 percent (980,000 tons). See Estimating in Appendix A: Detailed Methodology for a detailed account of the characterization process.



Interpreting the Results

The next section presents statewide characterization results for Washington's overall disposed waste stream as well as commercial, residential, self-hauled C&D, and self-hauled other sectors.

Data are presented in four ways for each sector:

- 1. A pie chart presents an overview of waste composition by **Material Class**.
- 2. A second pie chart presents an overview of waste composition arranged into packaging, products, and other material groups. Please see Appendix B: List and Definitions of Material Types for a table showing how *material types* were grouped into packaging, products, and other material groups.
- 3. A table shows the 15 most prevalent *material types* by weight.
- 4. A detailed table lists the full composition and quantity results for the 130 original *material types*. Please see Appendix B: List and Definitions of Material Types for detailed descriptions and definitions of the original **Material Classes** and *material types*.

Packaging vs. Products?

Grouping material types under the headings of "packaging" or "products" as done in the sector analysis below gives planners another tool when targeting producers of waste and considering diversion strategies.

Means and Error Ranges

Cascadia statistically analyzed data from the sorting process to provide two pieces of information for each *material type*:

- The estimated percent-by-weight composition of waste represented by the samples examined in this study.
- The error ranges (+/-) of our composition estimates.

All error ranges (+/-) were calculated at the 90 percent confidence level. The equations for these calculations are in Appendix A: Detailed Methodology.

Table 7 shows how the results can be interpreted. The best estimate of the amount of *compostable paper packaging* present in the universe of waste sampled is 1.2 percent (see Table 7). The figure 0.4 percent reflects the precision of the estimate. When calculations are performed at the 90 percent confidence level, we are 90 percent certain the true mean for *compostable paper packaging* is between 1.2 percent + 0.4 percent and 1.2 percent - 0.4 percent. In other words, we are 90 percent sure the true mean is between 0.8 and 1.6 percent.

Table 7: Example Percentage Composition and Error Range

MATERIAL	EST.PERCENT	+/-
Compostable Paper Packaging	1.2%	0.4%



Error Range (+/-)

An error range is used to measure the spread of values in a collection of data. For instance, if the quantities of newspaper are nearly the same in each of the 530 samples collected for this study, this will result in a very narrow error range. By contrast, if some samples are 75% *newspaper* and others have 0% newspaper, there is a much broader error range.

Rounding

When interpreting results in the tables and figures in this report, it is important to consider the effect of rounding.

To keep the waste composition tables and figures readable, estimated tonnages are rounded to the nearest ton. Estimated percentages are rounded to the nearest tenth of a percent. Due to rounding, when added together the tonnages may not exactly match the subtotals and totals shown. Similarly, when the percentages are added together, they may not exactly match the subtotals or totals. Also, percentages less than 0.05 percent are rounded to 0.0 percent even though there may be weights associated with the material.



3. Statewide Characterization Results

This section presents statewide composition results by sector—commercial, residential, self-hauled C&D, and self-hauled other—and the overall characterization results for the 4.98 million tons of disposed MSW statewide.⁴

Overall Disposed Waste Stream

This section characterizes the overall disposed MSW stream for the entire state of Washington, combining samples from all four waste sectors and all six WGAs considered in this study. Composition and quantity data are generated from data collected from the ten counties visited during the 2009 statewide study and presented using the material list of 130 *material types*.

Overview by Material Class

Figure 7 shows composition estimates by **Material Class** for the overall statewide disposed waste stream. The largest **Material Class** in the overall waste stream is **Organics**, which accounts for approximately 27 percent of the waste stream by weight, followed by **Construction Materials** (13 percent) and **Paper Products** (10 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

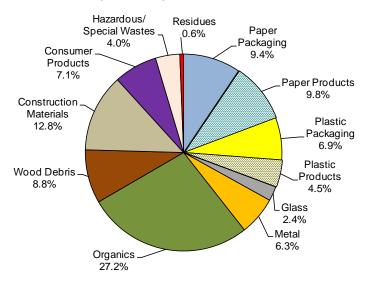


Figure 7: Overall Statewide Disposed Waste Stream Composition by Material Class, 2009

⁴ All estimated tons used in this report are based on 2008 disposed waste tonnage figures provided by annual disposal reports from permitted facilities: http://www.ecy.wa.gov/programs/swfa/solidwastedata/.



Overview of Packaging and Product Material Groups

As shown in Figure 8, products account for approximately 22 percent of the waste stream, and packaging materials make up approximately 19 percent of the overall disposed waste. See Appendix B: List and Definitions of Material Types for a description of the *material types* included in packaging, products, and the other *material type* groups shown.

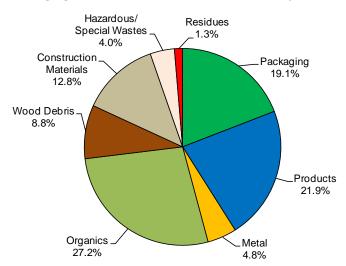


Figure 8: Overall Statewide Disposed Waste Stream Packaging, Products, and Other Material Groups, 2009

Fifteen Most Prevalent Materials

The 15 most prevalent *material types* in the overall waste stream shown in Table 8 together account for approximately 55 percent of the waste stream. *Food-vegetative, food-non vegetative, leaves and grass,* and *compostable paper products* are the four most prevalent *material types*. These materials are all compostable and together account for more than one quarter (27 percent) of the waste stream by weight.



	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Food - Vegetative	13.1%	5 13.1%	654,458
Food - Non-vegetative	5.2%	18.3%	258,823
Leaves & Grass	4.1%	22.4%	203,909
Compostable Paper Products	4.1%	26.5%	201,801
Cardboard/Kraft Paper Packaging	3.7%	30.2%	185,311
Animal Manure	3.2%	33.4%	159,888
Carpet	2.9%	36.3%	145,282
Other Ferrous Metal	2.9%	39.3%	145,220
Disposable Diapers	2.8%	42.1%	140,020
Drywall	2.6%	44.7%	131,475
Mixed/Low Grade Paper Packaging	2.6%	47.3%	130,662
Non-industrial Packaging Film Plastic	2.0%	49.4%	101,092
Furniture	2.0%	51.3%	97,620
Painted Wood	1.9%	53.3%	96,883
Textiles - Organic	1.8%	55.0%	87,471
Total	55.0%)	2,739,915

Table 8: Overall Statewide Disposed Waste StreamFifteen Most Prevalent Material Types, 2009

Detailed Composition

Table 9 lists the composition percentages by weight for each *material type* in Washington's overall disposed waste stream. Total tons of disposed waste are based on 2008 figures from annual reports permitted disposal facilities provided to Ecology.



Table 9: Overall Statewide Disposed Waste Stream
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	9.4%	.,	469,574	Paper Products	9.8%	• •	490,049
Newspaper Packaging	0.2%	0.3%	12,088	Newspaper	1.4%	0.4%	70,594
Cardboard/Kraft Paper Packaging	3.7%	0.8%	185,311	Cardboard/Kraft Paper Products	0.1%	0.0%	3,894
Other Groundwood Paper Packaging	0.1%	0.1%	7,344	Magazines	0.9%	0.3%	46,149
Mixed/Low Grade Paper Packaging	2.6%	0.4%	130,662	High-Grade Paper Products	1.0%	0.3%	49,667
Compostable Paper Packaging	1.2%	0.4%	58,191	Other Groundwood Paper Products	0.3%	0.2%	13,874
R/C Paper Packaging	1.5%	0.5%	75,979	Mixed Low Grade Paper Products	1.6%	0.3%	81,068
				Compostable Paper Products	4.1%	0.9%	201,801
Plastic Packaging	6.9%		345,235	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.7%	0.1%	33,344	R/C Paper Products	0.5%	0.3%	23,003
#1 PETE Plastic Non-bottles	0.3%	0.1%	14,563				
#2 HDPE Plastic Natural Bottles	0.3%	0.0%	12,547	Plastic Products	4.5%		222,910
#2 HDPE Plastic Colored Bottles	0.3%	0.0%	17,017	#1 PETE Plastic Products	0.0%	0.0%	172
#2 HDPE Plastic Jars & Tubs	0.4%	0.4%	20,020	#2 HDPE Plastic Products	0.0%	0.0%	1,883
#3 PVC Plastic Packaging	0.0%	0.0%	710	#3 PVC Plastic Products	0.0%	0.0%	1,109
#4 LDPE Plastic Packaging	0.0%	0.0%	329	#4 LDPE Plastic Products	0.0%	0.0%	116
#5 PP Plastic Packaging	0.3%	0.0%	16,732	#5 PP Plastic Products	0.1%	0.1%	3,574
#6 PS Plastic Packaging	0.5%	0.1%	22,579	#6 PS Plastic Products	0.1%	0.0%	6,068
#7 Other Plastic Packaging	0.5%	0.1%	26,282	#7 Other Plastic Products	1.3%	0.3%	63,916
PLA Packaging	0.0%	0.0%	312	PLA Products	0.0%	0.0%	53
Plastic Merchandise Bags	0.5%	0.1%	24,139	Plastic Garbage Bags	1.3%	0.2%	64,784
Non-industrial Packaging Film Plastic	2.0%	0.3%	101,092	Plastic Film Products	0.3%	0.1%	13,465
Industrial Packaging Film Plastic	0.4%	0.2%	21,911	R/C Plastic Products	1.4%	0.6%	67,771
R/C Plastic Packaging	0.7%	0.8%	33,657	Oran and Decident	-		
01	0.454		44- 6-6	Consumer Products	7.1%	0.001	355,387
Glass	2.4%	0.00/	117,970	Televisions - CRT	0.6%	0.6%	29,012
Clear Glass Containers	0.9%	0.2%	42,353	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.2%	0.0%	8,592	VCR's, DVD's, DVR's	0.0%	0.0%	1,646
Brown Glass Containers	0.4%	0.1%	17,490	Computer Monitors - CRT	0.0%	0.0%	1,476
Plate Glass	0.1%	0.1%	5,082	Computer Monitors - LCD	0.0%	0.0%	322
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.1%	8,893	Computers	0.0%	0.0%	1,292
R/C Glass	0.7%	0.6%	35,560	Computer Peripherals	0.1%	0.1%	3,674
•• • •				Audio Equipment	0.1%	0.0%	4,109
Metal	6.3%	o 404	315,715	Gaming Equipment	0.0%	0.0%	742
Aluminum Beverage Cans	0.5%	0.1%	23,031	Other Consumer Electronics	0.6%	0.3%	30,031
Aluminum Foil/Containers	0.1%	0.0%	5,426	Textiles - Organic	1.8%	0.4%	87,471
Other Aluminum	0.1%	0.1%	5,166	Textiles - Synthetic	1.0%	0.2%	48,869
Other Nonferrous	0.1%	0.1%	5,854	Shoes, Purses, Belts	0.4%	0.1%	17,931
Food Cans - Tinned	0.7%	0.3%	35,772	Tires & Rubber	0.3%	0.1%	15,216
Food Cans - Coated	0.1%	0.0%	5,054	Furniture	2.0%	1.1%	97,620
White Goods	0.1%	0.1%	7,365	Mattresses	0.1%	0.1%	5,660
Other Ferrous Metal	2.9%	1.3%	145,220	R/C Consumer Products	0.2%	0.1%	10,317
R/C Metals	1.7%	0.7%	82,826				
0	07.0%		4 959 959	Hazardous/Special Wastes	4.0%	0.00/	198,588
Organics	27.2%	0.00/	1,356,253	Pesticides/Herbicides	0.0%	0.0%	253
Food - Vegetative	13.1%	2.6%	654,458	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	5.2%	1.6%	258,823	Compact Fluorescent Lights	0.0%	0.0%	184
Leaves & Grass	4.1%	1.5%	203,909	Fluorescent Tubes	0.0%	0.0%	64
Prunings	0.5%	0.2%	26,941	Asbestos	0.0%	0.0%	0
Animal Manure	3.2%	1.1%	159,888	Latex Paint	0.1%	0.1%	6,213
Animal Carcasses	0.3%	0.4%	12,598 0	Solvent-based Glues Latex-based Glues	0.2%	0.2%	7,990
Crop Residues	0.0%	0.0%			0.0%	0.0%	242
Fruit Waste	0.1%	0.2%	7,395	Oil-based Paint & Solvent	0.0%	0.0%	2,086
R/C Organics	0.6%	0.2%	32,241	Caustic Cleaners	0.0% 0.0%	0.0% 0.0%	800 1,465
Wood Debris	8.8%		438,174	Dry-cell Batteries Wet-cell Batteries	0.0%	0.0%	1,465
Treated Wood	8.8% 1.1%	0.7%	438,174 56,145	Gasoline/Kerosene			
			, -		0.0%	0.0%	1,317
Painted Wood	1.9%	0.7%	96,883 51,929	Motor Oil	0.0%	0.0%	513
Dimensional Lumber Engineered Wood	1.0%	0.4%		Antifreeze Other Vehicle Fluids	0.0%	0.0%	3
5	1.1%	0.5%	54,324 86,705		0.0%	0.0% 0.0%	77 1 5 4 5
Pallets & Crates	1.7%	1.0%		Oil Filters Explosives	0.0%		1,545
Other Untreated Wood	0.5%	0.5%	26,916	Explosives Modical Wastos	0.0%	0.0%	24
Wood By-Products	0.3%	0.1%	12,574	Medical Wastes	0.5%	0.3%	25,067
R/C Wood Wastes	1.1%	0.4%	52,698	Pharmaceuticals/Vitamins	0.0%	0.0%	1,343
Construction Materials	12 80/		637,619	Disposable Diapers	2.8%	0.6%	140,020
Construction Materials	12.8%	0 10/		Other Cleaners & Soaps	0.1%	0.1%	6,150
Natural Wood	0.1%	0.1%	5,147	Other Hazardous Other Non-hazardous	0.0%	0.0%	1,549
Insulation Asphalt Paving	0.4%	0.4%	22,379	Other Non-nazardous	0.0%	0.0%	1,473
Asphalt Paving	0.2%	0.2%	9,676	Desidues	0.004		
Concrete	0.2%	0.1%	10,917	Residues	0.6%	0.001	31,022
Drywall	2.6%	2.0%	131,475	Ash	0.2%	0.2%	7,889
Carpet	2.9%	1.8%	145,282	Dust	0.1%	0.0%	4,060
Carpet Padding	0.7%	0.8%	33,211	Fines	0.3%	0.1%	15,590
Soil, Rocks, Sand	1.2%	0.6%	58,009	Sludge/Special Industrial	0.1%	0.1%	3,483
Asphalt Roofing	1.2%	0.7%	62,215				
Plastic Flooring	0.2%	0.2%	10,054				
Ceramics & Brick	1.4%	1.5%	69,617	Totals	100.0%		4,978,496
R/C Construction Materials	1.6%	0.7%	79,639	Sample Count	530		

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



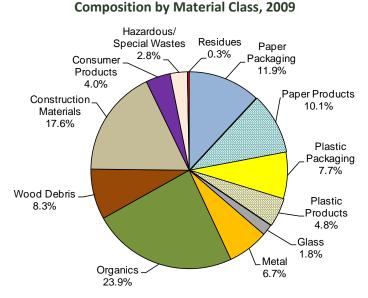
Commercial Waste

This section characterizes disposed MSW from the commercial sector for the entire state of Washington, combining commercial samples from all six WGAs considered in this study. Composition and quantity data are generated from data collected from the ten counties visited during the 2009 statewide study and presented using the material list of 130 material types.

Overview by Material Class

Composition estimates by **Material Class** for the statewide commercial disposed waste sector are illustrated in Figure 9. The largest **Material Class** in this waste sector is **Organics**, which accounts for approximately 24 percent of the waste sector by weight, followed by **Construction Materials** (18 percent) and **Paper Packaging** (12 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

Figure 9: Commercial Disposed Waste Sector



Overview of Packaging and Product Material Groups

As shown in Figure 10, packaging materials account for approximately 22 percent of the commercial waste sector, and products for approximately 19 percent of commercial disposed waste. See Appendix B: List and Definitions of Material Types for a description of the *material types* included in packaging, products, and the other *material type* groups shown.



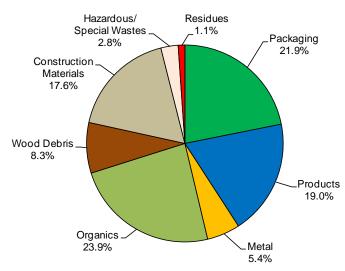


Figure 10: Commercial Disposed Waste Sector Packaging, Products, and Other Material Groups, 2009

Fifteen Most Prevalent Materials

As shown in Table 10, the 15 most prevalent *material types* in the commercial waste sector combined account for nearly two thirds (60 percent) of the waste sector. As with the overall waste stream, *food-vegetative* and *food-non vegetative* are the most prevalent *material types* and typically compostable. Together they account for nearly one quarter (22 percent) of the waste sector by weight.

Material	Est. Percent	Cum. Percent	Est. Tons
Food - Vegetative	15.1%	15.1%	327,826
Food - Non-vegetative	6.9%	21.9%	149,300
Compostable Paper Products	4.9%	26.8%	105,861
Cardboard/Kraft Paper Packaging	4.6%	31.5%	100,977
Carpet	4.0%	35.5%	87,897
Drywall	3.9%	39.4%	84,346
Other Ferrous Metal	3.0%	42.4%	65,627
Ceramics & Brick	2.8%	45.2%	60,306
Mixed/Low Grade Paper Packaging	2.6%	47.8%	56,570
Non-industrial Packaging Film Plastic	2.4%	50.2%	52,169
R/C Paper Packaging	2.3%	52.5%	50,898
R/C Metals	2.1%	54.6%	44,860
R/C Construction Materials	2.0%	56.6%	43,527
Treated Wood	1.9%	58.5%	42,336
Compostable Paper Packaging	1.8%	60.3%	38,184
Total	60.3%		1,310,684

Table 10: Commercial Disposed Waste SectorFifteen Most Prevalent Material Types, 2009

Detailed Composition

The composition percentages by weight for each *material type* in Washington's commercial disposed waste sector are listed in Table 11.



Table 11: Commercial Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	11.9%		259,125	Paper Products	10.1%		219,884
Newspaper Packaging	0.4%	0.6%	9,532	Newspaper	1.0%	0.6%	22,083
Cardboard/Kraft Paper Packaging	4.6%	1.4%	100,977	Cardboard/Kraft Paper Products	0.1%	0.1%	2,632
Other Groundwood Paper Packaging	0.1%	0.1%	2,964	Magazines	0.7%	0.4%	16,108
Mixed/Low Grade Paper Packaging	2.6%	0.9%	56,570	High-Grade Paper Products	1.3%	0.7%	28,671
Compostable Paper Packaging	1.8%	1.0%	38,184	Other Groundwood Paper Products	0.1%	0.1%	2,324
R/C Paper Packaging	2.3%	1.2%	50,898	Mixed Low Grade Paper Products	1.5%	0.5%	31,644
				Compostable Paper Products	4.9%	1.9%	105,861
Plastic Packaging	7.7%		166,679	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.5%	0.1%	10,880	R/C Paper Products	0.5%	0.2%	10,560
#1 PETE Plastic Non-bottles	0.3%	0.1%	5,727				
#2 HDPE Plastic Natural Bottles	0.2%	0.0%	3,761	Plastic Products	4.8%	0.00/	103,415
#2 HDPE Plastic Colored Bottles	0.2%	0.1%	3,723	#1 PETE Plastic Products	0.0%	0.0%	107
#2 HDPE Plastic Jars & Tubs	0.7%	0.8%	16,189	#2 HDPE Plastic Products #3 PVC Plastic Products	0.1%	0.1%	1,343
#3 PVC Plastic Packaging	0.0%	0.0%	39		0.0%	0.0%	353 9
#4 LDPE Plastic Packaging #5 PP Plastic Packaging	0.0% 0.3%	0.0% 0.1%	86 5,584	#4 LDPE Plastic Products #5 PP Plastic Products	0.0% 0.1%	0.0% 0.1%	1,909
#6 PS Plastic Packaging	0.3%	0.1%	8,813	#6 PS Plastic Products	0.1%	0.1%	3,284
#7 Other Plastic Packaging	0.4%	0.1%	8,614	#7 Other Plastic Products	0.2 %	0.1%	19,047
PLA Packaging	0.4%	0.1%	196	PLA Products	0.9%	0.0%	19,047
Plastic Merchandise Bags	0.2%	0.1%	5,305	Plastic Garbage Bags	1.7%	0.5%	37,671
Non-industrial Packaging Film Plastic	2.4%	0.7%	52,169	Plastic Film Products	0.2%	0.1%	3,991
Industrial Packaging Film Plastic	0.8%	0.4%	16,376	R/C Plastic Products	1.6%	1.1%	35,692
R/C Plastic Packaging	1.3%	1.8%	29,215				00,002
				Consumer Products	4.0%		87,871
Glass	1.8%		39,933	Televisions - CRT	0.1%	0.1%	2,330
Clear Glass Containers	0.6%	0.2%	12,500	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.1%	0.1%	3,212	VCR's, DVD's, DVR's	0.0%	0.0%	11
Brown Glass Containers	0.2%	0.1%	5,388	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	566	Computer Monitors - LCD	0.0%	0.0%	C
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	832	Computers	0.0%	0.0%	67
R/C Glass	0.8%	1.2%	17,436	Computer Peripherals	0.0%	0.0%	161
				Audio Equipment	0.0%	0.0%	243
Metal	6.7%		146,617	Gaming Equipment	0.0%	0.0%	12
Aluminum Beverage Cans	0.4%	0.3%	9,608	Other Consumer Electronics	0.8%	0.6%	17,329
Aluminum Foil/Containers	0.1%	0.1%	1,996	Textiles - Organic	1.1%	0.6%	23,852
Other Aluminum	0.2%	0.2%	3,848	Textiles - Synthetic	0.5%	0.2%	10,276
Other Nonferrous	0.2%	0.1%	3,933	Shoes, Purses, Belts	0.1%	0.1%	2,678
Food Cans - Tinned	0.7%	0.7%	16,266	Tires & Rubber	0.2%	0.1%	4,737
Food Cans - Coated	0.0%	0.0%	456	Furniture	1.0%	0.6%	21,447
White Goods	0.0%	0.0%	22	Mattresses	0.1%	0.1%	2,509
Other Ferrous Metal	3.0%	2.2%	65,627	R/C Consumer Products	0.1%	0.1%	2,218
R/C Metals	2.1%	1.6%	44,860				
0	00.0%		540 500	Hazardous/Special Wastes	2.8%	0.00/	61,683
Organics	23.9%	E 00/	518,592	Pesticides/Herbicides	0.0%	0.0%	10 0
Food - Vegetative	15.1%	5.8%	327,826	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative Leaves & Grass	6.9% 0.8%	3.6% 0.4%	149,300 17,569	Compact Fluorescent Lights Fluorescent Tubes	0.0% 0.0%	0.0% 0.0%	52
Prunings	0.8%	0.4%	2,982	Asbestos	0.0%	0.0%	52
Animal Manure	0.1%	0.2%	7,137	Latex Paint	0.0%	0.0%	907
Animal Carcasses	0.0%	0.3%	7,137	Solvent-based Glues	0.0%	0.0%	461
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	51
Fruit Waste	0.3%	0.4%	7,395	Oil-based Paint & Solvent	0.0%	0.0%	44
R/C Organics	0.3%	0.4%	6,383	Caustic Cleaners	0.0%	0.0%	566
	0.570	0.070	0,000	Dry-cell Batteries	0.0%	0.0%	342
Wood Debris	8.3%		180,446	Wet-cell Batteries	0.0%	0.0%	35
Treated Wood	1.9%	1.6%	42,336	Gasoline/Kerosene	0.1%	0.1%	1,317
Painted Wood	1.6%	1.1%	35,207	Motor Oil	0.0%	0.0%	367
Dimensional Lumber	0.8%	0.6%	16,942	Antifreeze	0.0%	0.0%	C
Engineered Wood	0.9%	0.7%	19,203	Other Vehicle Fluids	0.0%	0.0%	56
Pallets & Crates	1.7%	0.8%	37,997	Oil Filters	0.1%	0.0%	1,232
Other Untreated Wood	0.1%	0.1%	2,936	Explosives	0.0%	0.0%	2
Wood By-Products	0.1%	0.1%	2,019	Medical Wastes	1.0%	0.8%	22,164
R/C Wood Debris	1.1%	0.7%	23,806	Pharmaceuticals/Vitamins	0.0%	0.0%	687
				Disposable Diapers	1.4%	1.0%	31,424
Construction Materials	17.6%		383,439	Other Cleaners & Soaps	0.0%	0.0%	703
Natural Wood	0.0%	0.0%	122	Other Hazardous	0.0%	0.0%	977
Insulation	0.8%	0.8%	17,631	Other Non-hazardous	0.0%	0.0%	285
Asphalt Paving	0.2%	0.3%	3,780				
Concrete	0.2%	0.2%	5,295	Residues	0.3%		6,393
Drywall	3.9%	4.4%	84,346	Ash	0.1%	0.1%	1,746
Carpet	4.0%	3.9%	87,897	Dust	0.0%	0.0%	394
Carpet Padding	1.2%	1.8%	26,773	Fines	0.2%	0.1%	4,253
Soil, Rocks, Sand	1.7%	1.4%	36,201	Sludge/Special Industrial	0.0%	0.0%	C
Asphalt Roofing	0.4%	0.5%	9,242				
Plastic Flooring	0.4%	0.6%	8,318				
Ceramics & Brick	2.8%	3.3%	60,306	Totals	100.0%		2,174,075
	2.0%	1.6%	43,527	Sample Count	164		

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

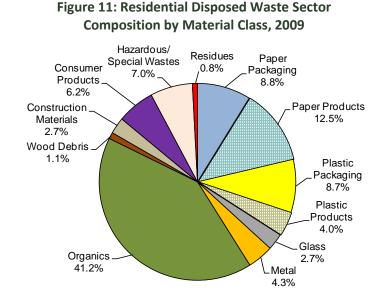


Residential Waste

This section characterizes disposed *MSW* from the residential sector for the entire state of Washington, combining residential samples from all six WGAs considered in this study. Composition and quantity data are generated from data collected from the ten counties visited during the 2009 statewide study and use the material list of 130 *material types*.

Overview by Material Class

Composition estimates by **Material Class** for the statewide residential disposed waste sector are illustrated in Figure 11. The largest **Material Class** in this waste sector is **Organics**, which accounts for approximately 41 percent of the waste sector by weight, followed by **Paper Products** (13 percent) and **Paper Packaging** (9 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.



Overview of Packaging and Product Material Groups

As shown in Figure 12, products account for approximately 23 percent of the residential disposed waste sector. Packaging materials make up approximately 22 percent. See Appendix B: List and Definitions of Material Types for a description of the *material types* included in packaging, products, and the other *material type* groups shown.



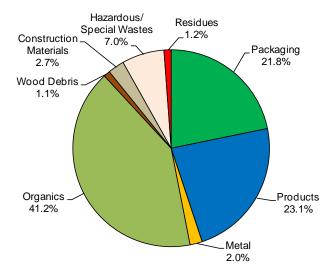


Figure 12: Residential Disposed Waste Sector Packaging, Products, and Other Material Groups, 2009

Fifteen Most Prevalent Materials

Food-vegetative is the most prevalent *material type* and approximately 17 percent of residential disposed waste. Approximately 69 percent of residential waste is composed of the 15 *material types* shown in Table 12. *Mixed/low grade paper packaging* is the most prevalent traditionally recyclable *material type* and approximately 4 percent of residential disposed waste.

	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Food - Vegetative	17.0%	17.0%	310,306
Leaves & Grass	8.7%	25.7%	159,278
Animal Manure	7.9%	33.6%	144,994
Disposable Diapers	5.8%	39.5%	106,210
Food - Non-vegetative	5.7%	45.1%	103,700
Compostable Paper Products	5.0%	50.1%	91,023
Mixed/Low Grade Paper Packaging	3.7%	53.8%	67,972
Cardboard/Kraft Paper Packaging	2.5%	56.3%	45,555
Non-industrial Packaging Film Plastic	2.5%	58.8%	45,453
Mixed Low Grade Paper Products	2.5%	61.3%	44,791
Textiles - Organic	2.1%	63.4%	39,166
Newspaper	2.0%	65.4%	36,540
Clear Glass Containers	1.3%	66.8%	24,592
Plastic Garbage Bags	1.3%	68.1%	24,305
Textiles - Synthetic	1.3%	69.4%	24,036
Total	69.4%		1,267,922

Table 12: Residential Disposed Waste SectorFifteen Most Prevalent Material Types, 2009

Detailed Composition

The composition percentages by weight for each *material type* in Washington's residential disposed waste sector are in Table 13.



Table 13: Residential Disposed Waste Sector	•
Detailed Composition, 2009	

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	8.8%	+/-	160,982	Paper Products	12.5%	+/-	228,478
Newspaper Packaging	0.1%	0.1%	2,103	Newspaper	2.0%	0.6%	36,540
Cardboard/Kraft Paper Packaging	2.5%	0.5%	45,555	Cardboard/Kraft Paper Products	0.0%	0.1%	653
Other Groundwood Paper Packaging	0.2%	0.1%	4,148	Magazines	1.3%	0.4%	23,302
Mixed/Low Grade Paper Packaging	3.7%	0.5%	67,972	High-Grade Paper Products	1.0%	0.3%	18,687
Compostable Paper Packaging	1.0%	0.4%	18,811	Other Groundwood Paper Products	0.6%	0.4%	10,085
R/C Paper Packaging	1.2%	0.1%	22,392	Mixed Low Grade Paper Products	2.5%	0.5%	44,791
				Compostable Paper Products	5.0%	0.7%	91,023
Plastic Packaging	8.7%		159,779	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	1.1%	0.1%	20,510	R/C Paper Products	0.2%	0.1%	3,398
#1 PETE Plastic Non-bottles	0.5%	0.1%	8,496				
#2 HDPE Plastic Natural Bottles	0.5%	0.1%	8,273	Plastic Products	4.0%	0.00/	73,025
#2 HDPE Plastic Colored Bottles	0.7%	0.1%	12,187	#1 PETE Plastic Products	0.0%	0.0%	65
#2 HDPE Plastic Jars & Tubs	0.1%	0.1%	2,257	#2 HDPE Plastic Products	0.0%	0.0%	28
#3 PVC Plastic Packaging	0.0%	0.0%	605	#3 PVC Plastic Products	0.0%	0.0%	482
#4 LDPE Plastic Packaging #5 PP Plastic Packaging	0.0% 0.6%	0.0% 0.1%	182 10,216	#4 LDPE Plastic Products #5 PP Plastic Products	0.0% 0.0%	0.0% 0.0%	4 355
#6 PS Plastic Packaging	0.8%	0.1%	12,553	#6 PS Plastic Products	0.0%	0.0%	2,516
#7 Other Plastic Packaging	0.7%	0.2%	15,974	#7 Other Plastic Products	1.3%	0.1%	2,310
PLA Packaging	0.9%	0.1%	10,974	PLA Products	0.0%	0.0%	23,909
Plastic Merchandise Bags	1.0%	0.1%	17,756	Plastic Garbage Bags	1.3%	0.1%	24,305
Non-industrial Packaging Film Plastic	2.5%	0.2%	45,453	Plastic Film Products	0.2%	0.1%	4,485
Industrial Packaging Film Plastic	0.1%	0.2%	1,883	R/C Plastic Products	0.9%	0.8%	16,775
R/C Plastic Packaging	0.2%	0.1%	3,326		0.070	0.070	10,770
			-,	Consumer Products	6.2%		113,099
Glass	2.7%		49,705	Televisions - CRT	1.0%	1.5%	18,402
Clear Glass Containers	1.3%	0.4%	24,592	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.3%	0.1%	4,617	VCR's, DVD's, DVR's	0.0%	0.0%	74
Brown Glass Containers	0.6%	0.2%	10,750	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	189	Computer Monitors - LCD	0.0%	0.0%	322
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.1%	3,448	Computers	0.0%	0.0%	481
R/C Glass	0.3%	0.1%	6,110	Computer Peripherals	0.1%	0.1%	1,417
				Audio Equipment	0.1%	0.1%	1,442
Metal	4.3%		77,962	Gaming Equipment	0.0%	0.0%	509
Aluminum Beverage Cans	0.6%	0.2%	11,784	Other Consumer Electronics	0.3%	0.2%	5,172
Aluminum Foil/Containers	0.2%	0.0%	3,264	Textiles - Organic	2.1%	0.7%	39,166
Other Aluminum	0.0%	0.0%	835	Textiles - Synthetic	1.3%	0.5%	24,036
Other Nonferrous	0.1%	0.0%	1,086	Shoes, Purses, Belts	0.7%	0.2%	12,416
Food Cans - Tinned	1.0%	0.2%	17,999	Tires & Rubber	0.4%	0.2%	7,066
Food Cans - Coated	0.2%	0.1%	4,143	Furniture	0.0%	0.0%	763
White Goods	0.2%	0.4%	3,930	Mattresses	0.0%	0.0%	0
Other Ferrous Metal R/C Metals	0.9% 1.0%	0.2% 0.4%	16,976 17,946	R/C Consumer Products	0.1%	0.1%	1,834
R/C Metals	1.0%	0.4%	17,940	Hazardous/Special Wastes	7.0%		127,136
Organics	41.2%		752,542	Pesticides/Herbicides	0.0%	0.0%	21
Food - Vegetative	17.0%	1.7%	310,306	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	5.7%	0.9%	103,700	Compact Fluorescent Lights	0.0%	0.0%	159
Leaves & Grass	8.7%	3.9%	159,278	Fluorescent Tubes	0.0%	0.0%	12
Prunings	1.0%	0.4%	17,931	Asbestos	0.0%	0.0%	0
Animal Manure	7.9%	2.9%	144,994	Latex Paint	0.2%	0.1%	2,781
Animal Carcasses	0.0%	0.0%	465	Solvent-based Glues	0.4%	0.7%	7,436
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	14
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	754
R/C Organics	0.9%	0.2%	15,869	Caustic Cleaners	0.0%	0.0%	104
				Dry-cell Batteries	0.1%	0.0%	1,034
Wood Debris	1.1%		19,345	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	0.0%	0.0%	708	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	0.3%	0.1%	5,321	Motor Oil	0.0%	0.0%	146
Dimensional Lumber	0.1%	0.0%	1,551	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.1%	0.1%	2,109	Other Vehicle Fluids	0.0%	0.0%	8
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	303
Other Untreated Wood	0.1%	0.1%	1,389	Explosives	0.0%	0.0%	9
Wood By-Products	0.3%	0.3%	5,476	Medical Wastes	0.1%	0.1%	2,495
R/C Wood Debris	0.2%	0.1%	2,791	Pharmaceuticals/Vitamins	0.0%	0.0%	645
Construction Matorials	2 70/		40.240	Disposable Diapers	5.8%	1.3%	106,210
Construction Materials Natural Wood	2.7%	0 10/	49,218 1,792	Other Cleaners & Soaps Other Hazardous	0.2% 0.0%	0.1% 0.0%	3,550 479
Insulation	0.1% 0.1%	0.1% 0.1%	1,792	Other Non-hazardous	0.0%	0.0%	479 976
Asphalt Paving	0.1%	0.1%	1,185		0.1%	0.0%	976
Concrete	0.0%	0.0%	62 1,525	Residues	0.8%		15,249
Drywall	0.1%	0.1%	1,525	Ash	0.0%	0.0%	796
Carpet	0.1%	0.0%	14,222	Dust	0.0%	0.0%	3,411
Carpet Padding	0.8%	0.4%	14,222	Fines	0.2%	0.1%	11,043
Salpst i duding		0.1%	12,780	Sludge/Special Industrial	0.0%	0.2 %	11,040 C
Soil Rocks Sand				Siduge/Opecial industrial		0.0/0	
Soil, Rocks, Sand	0.7% 0.3%			0			
Asphalt Roofing	0.3%	0.4%	4,660				
				Totals	100.0%		1,826,521

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



Self-hauled C&D Waste

This section characterizes disposed MSW from the self-hauled C&D sector for the entire state of Washington, combining self-hauled C&D samples from all six WGAs considered in this study. Composition and quantity data are generated from data collected from the ten counties visited during the 2009 statewide study and use the material list of 130 *material types*.

Overview by Material Class

Composition estimates by **Material Class** for the statewide self-hauled C&D disposed waste sector are shown in Figure 13. The largest **Material Class** in this waste sector is **Construction Materials**, which accounts for approximately 43 percent of the waste sector by weight, followed by **Wood Debris** (41 percent). The ten remaining **Material Classes** combined comprise approximately 16 percent of the self-hauled C&D disposed waste sector. See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

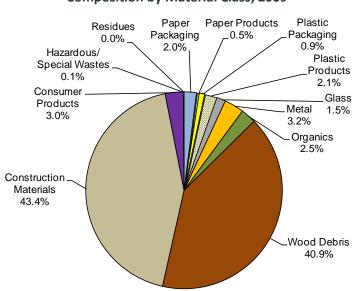


Figure 13: Self-hauled C&D Disposed Waste Sector Composition by Material Class, 2009

Overview of Packaging and Product Material Groups

As shown in Figure 14, packaging materials and products combined are approximately ten percent of this waste sector. The majority of self-hauled C&D disposed waste is either construction materials (43 percent) or wood debris (41 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in packaging, products, and the other *material type* groups shown.



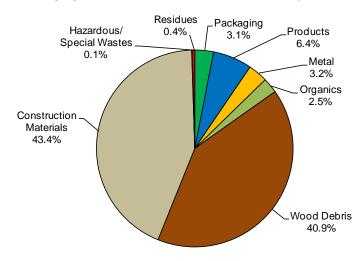


Figure 14: Self-hauled C&D Disposed Waste Sector Packaging, Products, and Other Material Groups, 2009

Fifteen Most Prevalent Materials

As shown in Table 14, when combined the 15 most prevalent *material types* in the self-hauled C&D disposed waste sector account for approximately 84 percent of this waste sector. *Asphalt roofing*, *painted wood*, and *drywall* each comprise more than ten percent of the self-hauled C&D disposed waste sector.

	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Asphalt Roofing	12.8%	12.8%	48,000
Painted Wood	11.3%	24.1%	42,304
Drywall	10.4%	34.5%	38,957
Carpet	8.5%	43.1%	31,999
Engineered Wood	8.0%	51.0%	29,846
Dimensional Lumber	7.4%	58.4%	27,632
Other Untreated Wood	5.0%	63.4%	18,554
R/C Construction Materials	4.7%	68.1%	17,706
Pallets & Crates	3.2%	71.3%	11,863
R/C Wood Debris	2.9%	74.2%	10,854
Treated Wood	2.6%	76.8%	9,904
Other Ferrous Metal	2.0%	78.8%	7,491
Furniture	1.9%	80.7%	7,023
Cardboard/Kraft Paper Packaging	1.7%	82.4%	6,481
Asphalt Paving	1.6%	84.0%	5,833
Total	84.0%		314,449

Table 14: Self-hauled C&D Disposed Waste SectorFifteen Most Prevalent Material Types, 2009

Detailed Composition

Table 15 lists the composition percentages by weight for each *material type* in Washington's self-hauled C&D disposed waste sector.



Table 15: Self-hauled C&D Disposed Waste Sector						
Detailed Composition, 2009						

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	2.0%	.,	7,587	Paper Products	0.5%	• •	1,700
Newspaper Packaging	0.0%	0.0%	106	Newspaper	0.0%	0.0%	14
Cardboard/Kraft Paper Packaging	1.7%	0.7%	6,481	Cardboard/Kraft Paper Products	0.1%	0.2%	468
Other Groundwood Paper Packaging	0.0%	0.0%	4	Magazines	0.1%	0.1%	273
Mixed/Low Grade Paper Packaging	0.1%	0.1%	348	High-Grade Paper Products	0.0%	0.0%	29
Compostable Paper Packaging	0.1%	0.1%	188	Other Groundwood Paper Products	0.0%	0.0%	13
R/C Paper Packaging	0.1%	0.1%	459	Mixed Low Grade Paper Products	0.1%	0.1%	232
				Compostable Paper Products	0.1%	0.1%	393
Plastic Packaging	0.9%		3,320	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.0%	0.0%	119	R/C Paper Products	0.1%	0.0%	278
#1 PETE Plastic Non-bottles	0.0%	0.0%	25				
#2 HDPE Plastic Natural Bottles	0.0%	0.1%	149	Plastic Products	2.1%		7,732
#2 HDPE Plastic Colored Bottles	0.0%	0.0%	20	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.2%	0.3%	803	#2 HDPE Plastic Products	0.0%	0.0%	9
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.0%	0.1%	167
#4 LDPE Plastic Packaging	0.0%	0.0%	15	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.0%	0.0%	88	#5 PP Plastic Products	0.0%	0.0%	22
#6 PS Plastic Packaging	0.0%	0.0%	107	#6 PS Plastic Products	0.0%	0.0%	43
#7 Other Plastic Packaging	0.0%	0.0%	181	#7 Other Plastic Products	0.9%	0.6%	3,302
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	5
Plastic Merchandise Bags	0.0%	0.0%	29	Plastic Garbage Bags	0.2%	0.1%	673
Non-industrial Packaging Film Plastic	0.1%	0.1%	419	Plastic Film Products	0.2%	0.2%	583
Industrial Packaging Film Plastic	0.3%	0.2%	1,086	R/C Plastic Products	0.8%	0.7%	2,929
R/C Plastic Packaging	0.1%	0.1%	280				
				Consumer Products	3.0%		11,148
Glass	1.5%		5,490	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	0.1%	0.2%	450	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.0%	0.0%	12	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.0%	0.0%	55	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.9%	0.8%	3,486	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	0	Computers	0.1%	0.1%	253
R/C Glass	0.4%	0.5%	1,488	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	17
Metal	3.2%		12,079	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.0%	0.0%	41	Other Consumer Electronics	0.0%	0.0%	34
Aluminum Foil/Containers	0.0%	0.0%	12	Textiles - Organic	0.2%	0.2%	889
Other Aluminum	0.1%	0.1%	226	Textiles - Synthetic	0.2%	0.2%	576
Other Nonferrous	0.1%	0.1%	468	Shoes, Purses, Belts	0.1%	0.1%	383
Food Cans - Tinned	0.0%	0.0%	63	Tires & Rubber	0.2%	0.3%	909
Food Cans - Coated	0.0%	0.0%	1	Furniture	1.9%	2.3%	7,023
White Goods	0.0%	0.0%	0	Mattresses	0.3%	0.2%	1,031
Other Ferrous Metal	2.0%	0.9%	7,491	R/C Consumer Products	0.0%	0.0%	34
R/C Metals	1.0%	0.6%	3,777				
				Hazardous/Special Wastes	0.1%		388
Organics	2.5%		9,346	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	0.3%	0.3%	958	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	0.1%	0.2%	487	Compact Fluorescent Lights	0.0%	0.0%	22
Leaves & Grass	0.8%	0.6%	2,989	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.2%	0.2%	687	Asbestos	0.0%	0.0%	0
Animal Manure	0.0%	0.0%	93	Latex Paint	0.1%	0.1%	273
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	6
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	41
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	1.1%	1.1%	4,130	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.0%	0.0%	11
Wood Debris	40.9%		153,150	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	2.6%	3.0%	9,904	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	11.3%	7.1%	42,304	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	7.4%	3.5%	27,632	Antifreeze	0.0%	0.0%	0
Engineered Wood	8.0%	5.1%	29,846	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	3.2%	3.2%	11,863	Oil Filters	0.0%	0.0%	0
Other Untreated Wood	5.0%	6.4%	18,554	Explosives	0.0%	0.0%	0
Wood By-Products	0.6%	0.6%	2,191	Medical Wastes	0.0%	0.0%	0
R/C Wood Debris	2.9%	1.6%	10,854	Pharmaceuticals/Vitamins	0.0%	0.0%	5
				Disposable Diapers	0.0%	0.0%	1
Construction Materials	43.4%		162,415	Other Cleaners & Soaps	0.0%	0.0%	8
Natural Wood	0.8%	1.4%	3,138	Other Hazardous	0.0%	0.0%	0
Insulation	0.7%	0.4%	2,717	Other Non-hazardous	0.0%	0.0%	22
Asphalt Paving	1.6%	1.9%	5,833				
Concrete	0.5%	0.4%	1,776	Residues	0.0%		30
Drywall	10.4%	7.8%	38,957	Ash	0.0%	0.0%	0
Carpet	8.5%	8.7%	31,999	Dust	0.0%	0.0%	0
Carpet Padding	0.5%	0.3%	1,823	Fines	0.0%	0.0%	30
Soil, Rocks, Sand	1.3%	1.4%	4,841	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	12.8%	8.9%	48,000				
Plastic Flooring	0.1%	0.1%	476				
Ceramics & Brick	1.4%	1.2%	5,149	Totals	100.0%		374,386
R/C Construction Materials	4.7%	2.2%	17,706	Sample Count	109		

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



Self-hauled Other Waste

This section characterizes MSW disposed by the self-hauled other sector for the entire state of Washington, combining self-hauled other samples from all six WGAs considered in this study. Composition and quantity data are generated from data collected from the ten counties visited during the 2009 statewide study and use the material list of 130 *material types*.

Overview by Material Class

Figure 15 shows composition estimates by **Material Class** for the statewide self-hauled other disposed waste sector. The largest **Material Class** in this waste sector is **Consumer Products**, which account for approximately 24 percent of the waste sector by weight, followed by **Wood Debris** (14 percent) and **Metal** (13 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

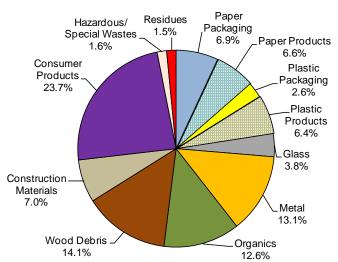


Figure 15: Statewide Self-hauled Other Disposed Waste Sector Composition by Material Class, 2009

Overview of Packaging and Product Material Groups

As Figure 16 shows, products make up approximately 38 percent of the waste sector and are nearly three times more prevalent than wood debris (14 percent), the next largest material group. Packaging materials comprise approximately 11 percent of self-hauled other disposed waste. See Appendix B: List and Definitions of Material Types for a description of the *material types* included in packaging, products, and the other material groups shown.



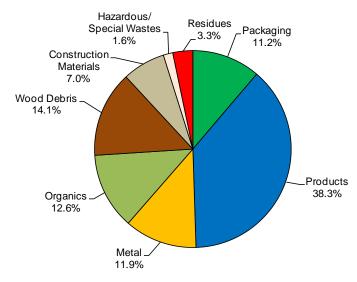


Figure 16: Self-hauled Other Disposed Waste Sector Packaging, Products, and Other Material Groups, 2009

Fifteen Most Prevalent Materials

When combined, the 15 most prevalent *material types* in the self-hauled other disposed waste sector account for nearly two thirds (61 percent) of the waste sector, as shown in Table 16. *Furniture* (11 percent) and *other ferrous metal* (nine percent) are the two most prevalent materials in the self-hauled other disposed waste sector.

	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Furniture	11.3%	11.3%	68,387
Other Ferrous Metal	9.1%	20.5%	55,125
Pallets & Crates	6.1%	26.6%	36,845
Cardboard/Kraft Paper Packaging	5.4%	31.9%	32,297
Leaves & Grass	4.0%	35.9%	24,073
Textiles - Organic	3.9%	39.8%	23,565
#7 Other Plastic Products	2.9%	42.7%	17,598
R/C Metals	2.7%	45.4%	16,242
Food - Vegetative	2.5%	48.0%	15,368
R/C Wood Debris	2.5%	50.5%	15,246
Painted Wood	2.3%	52.8%	14,051
Textiles - Synthetic	2.3%	55.1%	13,980
R/C Plastic Products	2.1%	57.2%	12,375
Animal Carcasses	2.0%	59.2%	12,133
Newspaper	2.0%	61.2%	11,958
Total	61.2%		369,243

Table 16: Self-hauled Other Disposed Waste SectorFifteen Most Prevalent Material Types, 2009

Detailed Composition

Table 17 lists the composition percentages by weight for each *material type* in Washington's self-hauled other disposed waste sector.



Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	6.9%		41,881	Paper Products	6.6%		39,988
Newspaper Packaging	0.1%	0.1%	347	Newspaper	2.0%	2.3%	11,958
Cardboard/Kraft Paper Packaging	5.4%	3.8%	32,297	Cardboard/Kraft Paper Products	0.0%	0.0%	141
Other Groundwood Paper Packaging	0.0%	0.0%	228	Magazines	1.1%	0.8%	6,465
Mixed/Low Grade Paper Packaging Compostable Paper Packaging	1.0% 0.2%	0.6% 0.1%	5,771 1,007	High-Grade Paper Products Other Groundwood Paper Products	0.4% 0.2%	0.2% 0.2%	2,280 1,452
R/C Paper Packaging	0.2%	0.1%	2,229	Mixed Low Grade Paper Products	0.2%	0.2 %	4,401
			_,+	Compostable Paper Products	0.7%	0.4%	4,524
Plastic Packaging	2.6%		15,457	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.3%	0.1%	1,835	R/C Paper Products	1.5%	2.1%	8,767
#1 PETE Plastic Non-bottles	0.1%	0.0%	315	Dis ette Des des te	0.49/		00 7 00
#2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles	0.1% 0.2%	0.0% 0.1%	364 1,087	Plastic Products #1 PETE Plastic Products	6.4% 0.0%	0.0%	38,739 1
#2 HDPE Plastic Colored Bottles #2 HDPE Plastic Jars & Tubs	0.2%	0.1%	771	#2 HDPE Plastic Products	0.0%	0.0%	503
#3 PVC Plastic Packaging	0.0%	0.0%	65	#3 PVC Plastic Products	0.0%	0.0%	107
#4 LDPE Plastic Packaging	0.0%	0.0%	46	#4 LDPE Plastic Products	0.0%	0.0%	103
#5 PP Plastic Packaging	0.1%	0.1%	844	#5 PP Plastic Products	0.2%	0.2%	1,288
#6 PS Plastic Packaging	0.2%	0.1%	1,106	#6 PS Plastic Products	0.0%	0.0%	224
#7 Other Plastic Packaging	0.3%	0.1%	1,513	#7 Other Plastic Products	2.9%	1.3%	17,598
PLA Packaging	0.0%	0.0%	10	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags Non-industrial Packaging Film Plastic	0.2% 0.5%	0.1% 0.2%	1,049 3,050	Plastic Garbage Bags Plastic Film Products	0.4% 0.7%	0.1% 0.7%	2,135 4,406
Industrial Packaging Film Plastic	0.3%	0.2%	2,565	R/C Plastic Products	2.1%	1.3%	12,375
R/C Plastic Packaging	0.1%	0.1%	836		2.170	1.070	12,010
				Consumer Products	23.7%		143,269
Glass	3.8%		22,842	Televisions - CRT	1.4%	1.1%	8,280
Clear Glass Containers	0.8%	0.7%	4,811	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.1%	0.1%	751	VCR's, DVD's, DVR's	0.3%	0.3%	1,561
Brown Glass Containers	0.2%	0.1%	1,297	Computer Monitors - CRT	0.2%	0.2%	1,476
Plate Glass Stoneware/Kitchen Ceramics/Glassware	0.1% 0.8%	0.1% 1.1%	842 4,613	Computer Monitors - LCD Computers	0.0% 0.1%	0.0% 0.1%	0 491
R/C Glass	1.7%	1.8%	10,527	Computer Peripherals	0.3%	0.1%	2,097
	1.7 /0	1.070	10,027	Audio Equipment	0.4%	0.4%	2,407
Metal	13.1%		79,057	Gaming Equipment	0.0%	0.0%	221
Aluminum Beverage Cans	0.3%	0.2%	1,599	Other Consumer Electronics	1.2%	1.3%	7,496
Aluminum Foil/Containers	0.0%	0.0%	153	Textiles - Organic	3.9%	1.9%	23,565
Other Aluminum	0.0%	0.0%	258	Textiles - Synthetic	2.3%	1.0%	13,980
Other Nonferrous	0.1%	0.1%	367	Shoes, Purses, Belts	0.4%	0.3%	2,454
Food Cans - Tinned	0.2% 0.1%	0.1% 0.1%	1,444 455	Tires & Rubber Furniture	0.4% 11.3%	0.2%	2,504
Food Cans - Coated White Goods	0.1%	0.1%	400 3,413	Mattresses	0.4%	8.9% 0.3%	68,387 2,120
Other Ferrous Metal	9.1%	7.1%	55,125	R/C Consumer Products	1.0%	0.9%	6,231
R/C Metals	2.7%	1.1%	16,242		11070	0.070	0,201
			- /	Hazardous/Special Wastes	1.6%		9,381
Organics	12.6%		75,773	Pesticides/Herbicides	0.0%	0.0%	222
Food - Vegetative	2.5%	1.2%	15,368	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	0.9%	0.5%	5,336	Compact Fluorescent Lights	0.0%	0.0%	2
Leaves & Grass	4.0%	2.0%	24,073	Fluorescent Tubes	0.0%	0.0%	0
Prunings Animal Manure	0.9% 1.3%	0.9% 1.1%	5,340 7,664	Asbestos Latex Paint	0.0% 0.4%	0.0% 0.4%	2,252
Animal Carcasses	2.0%	3.0%	12,133	Solvent-based Glues	0.0%	0.4%	87
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	137
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.2%	0.3%	1,289
R/C Organics	1.0%	1.3%	5,858	Caustic Cleaners	0.0%	0.0%	130
				Dry-cell Batteries	0.0%	0.0%	78
Wood Debris	14.1%	0.00/	85,233	Wet-cell Batteries	0.0%	0.0%	172
Treated Wood	0.5%	0.6%	3,198	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood Dimensional Lumber	2.3% 1.0%	1.1% 0.5%	14,051 5,803	Motor Oil Antifreeze	0.0% 0.0%	0.0% 0.0%	0 3
Engineered Wood	0.5%	0.3%	3,167	Other Vehicle Fluids	0.0%	0.0%	12
Pallets & Crates	6.1%	7.7%	36,845	Oil Filters	0.0%	0.0%	10
Other Untreated Wood	0.7%	0.6%	4,036	Explosives	0.0%	0.0%	13
Wood By-Products	0.5%	0.4%	2,888	Medical Wastes	0.1%	0.1%	409
R/C Wood Debris	2.5%	2.0%	15,246	Pharmaceuticals/Vitamins	0.0%	0.0%	7
				Disposable Diapers	0.4%	0.3%	2,385
Construction Materials	7.0%	0.00/	42,546	Other Cleaners & Soaps	0.3%	0.3%	1,889
Natural Wood Insulation	0.0%	0.0%	95 845	Other Hazardous Other Non-hazardous	0.0%	0.0%	93 101
Asphalt Paving	0.1% 0.0%	0.1% 0.0%	845 0		0.0%	0.0%	191
Concrete	0.0%	0.0%	2,321	Residues	1.5%		9,350
Drywall	1.1%	1.1%	6,820	Ash	0.9%	1.4%	5,346
Carpet	1.8%	1.1%	11,163	Dust	0.0%	0.0%	256
Carpet Padding	0.5%	0.4%	2,843	Fines	0.0%	0.0%	266
Soil, Rocks, Sand	0.7%	0.8%	4,185	Sludge/Special Industrial	0.6%	1.0%	3,483
Asphalt Roofing	0.1%	0.0%	313				
Plastic Flooring	0.0%	0.1%	295	Totolo	400.00/		602 544
Ceramics & Brick R/C Construction Materials	0.3% 1.9%	0.3% 1.3%	2,102 11,564	Totals Sample Count	100.0% 109		603,514

Table 17: Self-hauled Other Disposed Waste SectorDetailed Composition, 2009

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



Appendix A: Detailed Methodology

Developing a Project Plan

Prior to carrying out any of the data-collection strategies—sampling, sorting, and surveying—Ecology developed a waste characterization project plan that provided the framework for all subsequent data collection and analysis strategies.

Ecology's planning stage included:

- 1. Selecting representative counties across the state to visit;
- 2. Scheduling solid waste disposal facilities statewide to survey and sample;
- 3. Defining the waste sectors to examine during the study; and
- 4. Creating the list of *material types* to examine throughout the study.

The following methodology presents a detailed list of actions Cascadia and our partner in field sampling, Sky Valley Associates, took to plan the field data collection process and analyze the data.

Organizing Data Collection

Coordination with Facilities

Cascadia worked with Ecology to create a questionnaire and conducted brief interviews with the management of each of the ten solid waste facilities recruited by Ecology.

The information collected during these interviews guided us as we scheduled visits, planned a precise data collection strategy for each site, and created vehicle selection forms that allowed a suitable random selection process. The interviews gained the following information:

- Contact information for key personnel.
- Days and hours of operation for each facility.
- Approximate numbers of vehicles from each sector (residential, commercial, self-hauled construction and demolition (C&D), and self-hauled other) expected on each day of the week and the likely peak time of day for each type of load.
- Ability and willingness of gatehouse personnel to assist with the vehicle selection process.
- Logistical strategy to determine locations for setting up the work area, taking samples, queuing samples, discarding sorted samples, and other in-process activities.
- Recycling or recovery operations that exist at the facility, and how the study team may obtain samples of waste after any recycling or recovery operations have already been applied to the waste (if applicable).
- Whether the facility can provide the use of a loader for obtaining waste samples.
- Unusual conditions (e.g., weather, anomalies in traffic patterns, etc.) that might affect data collection and necessitate special logistical arrangements.
- Facility-specific health and safety procedures and emergency contact numbers.



Any other concerns that should be addressed prior to sampling.

Consistent, clear communication with facility management leads to smooth sampling and sorting and substantial willingness among facility staff to help us however they could. Cascadia contacted the management of each disposal facility two weeks prior to the scheduled visits to address logistical concerns and reiterate any requests for sample collection assistance. A day or two prior to the visit, the Field Manager made a final reminder call to ensure the facility was ready and resolve any last minute issues.

Prepare Data Forms

Customized field forms were developed to correlate to the specific sampling strategy and information needed by this study. These forms included:

A **Vehicle Selection Form** was created for each day and location of sampling activity. This form listed the sample quotas specific to each day by sector, and was used to select vehicles entering the facility in a random manner for sampling.

A **Sample Placard** was created to flag vehicles selected for sampling. The sample placard is a brightly colored paper sign that was placed on the windshield of every vehicle entering the facility chosen for sampling. The sample placard has the sample number (Res-1, Com-5, etc.) pre-printed on the front and was easily seen and intercepted by the sorting Field Manager.

A **Waste Sample Tally Sheet** included a list of all materials and cells to record the weights for each material.

Field form applications will be described in more detail below in Task 4: Sampling and Sorting.

Preparing the Sorting Crew

Training

At the outset of each season, the Field Manager and sorting crew familiarized themselves with the materials list, field forms, and any unique sorting protocols employed during the season. The Field Manager was present onsite to provide continual support and supervision. Training for the 2009 Washington State study also addressed:

- General facility overviews.
- Facility-specific health and safety requirements.
- Personal protective equipment (PPE) requirements.
- Waste handling techniques.
- Productivity strategies and daily sorting quotas.

The Field Manager ensured the sorting protocol was followed, along with the health and safety requirements, and closely evaluated each individual sample to ensure material categories were understood and interpreted uniformly by the sorting crew.



Health and Safety

Our team followed a strict health and safety plan that meets Occupational Safety and Health Administration (OSHA) standards.

Equipment

Following is the list of equipment used for sampling and sorting. The Field Manager stocked extra safety equipment to ensure the safety of observers or others present at the sorting site.

Equipment for sorting:

- Sorting table/stations (1 per sorter)
- 30-50 laundry baskets per waste sector to sort material into
- 1 shovel
- 2 brooms
- 1 digital scale (weighs to 1/10 pound)
- 10-20 tarps
- 4 clipboards
- A 7.1 megapixel standard digital camera
- 2 coolers with cold drinks

Statewide Sampling Strategy

Safety equipment:

- Dust masks (1 per person/day)
- Puncture resistant gloves (1 pair per person)
- Glove liners (1 per person/day)
- Safety glasses (1 per person)
- Reflective safety vests (1 per person)
- Hard hats (1 per person)
- Leather work gloves (1 pair per person)
- Safety/medical kit

After considering the sampling locations (Table 18) Ecology chose and recruited, and studying a Washington State map, Cascadia developed a sorting strategy that allowed us to cover ten counties in eleven days. During this period, we visited the four eastern facilities during one week and the remaining six western facilities the second week.

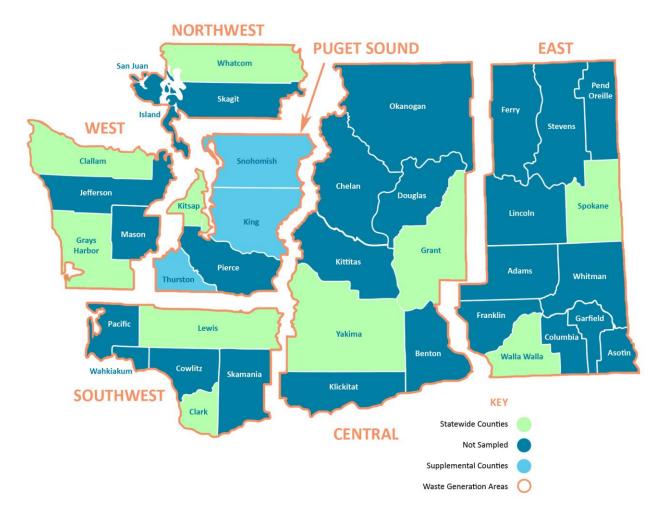
Figure 17 shows the counties where sampling occurred. We repeated this sampling strategy throughout each of the four seasons, making an attempt to vary the days of the week each facility was visited to capture variability associated with days of the week. Table 19 and Table 20 show all four seasons of planned and actual samples by county.



COUNTY	FACILITY
Clallam	Port Angeles Transfer Station
Grays Harbor	Aberdeen Central Transfer Station
Whatcom	Regional Disposal Company
Clark	West Van Material Recovery Center
Lewis	Lewis County Central Transfer Station
Kitsap	Olympic View Transfer Station
Grant	Ephrata Landfill
Yakima	Terrace Heights Landfill
Spokane	Spokane Regional Waste to Energy Facility
Walla Walla	Sudbury Road Landfill

Table 18: Counties and Facilities Visited for Sampling







		Season One: March/April				Season Two: May/June						
Waste Generation Area	County representing WGA	Planned/ Actual	Com	Res	SH C&D	SH Other	Total	Com	Res	SH C&D	SH Other	Total
	Clallam	Planned	2	2	2	2	8	2	2	2	2	8
West		Actual	2	2	2	2	8	2	3	2	2	9
	Grays Harbor	Planned	3	3	2	2	10	3	3	2	2	10
		Actual	3	3	2	2	10	3	3	2	2	10
Northwest	Whatcom	Planned	4	4	3	3	14	4	4	3	3	14
Nonnwest		Actual	4	4	3	3	14	4	4	3	3	14
Puget Sound	Kitsap	Planned	2	2	2	2	8	2	2	2	2	8
Fuger Sound		Actual	2	2	2	2	8	3	2	2	2	9
	Clark	Planned	4	4	2	2	12	4	4	2	2	12
Southwest		Actual	3	3	3	3	12	4	4	2	2	12
Southwest	Lewis	Planned	2	2	2	2	8	2	2	2	2	8
		Actual	2	2	2	2	8	2	2	2	2	8
West Sample	es Planned		17	17	13	13	60	17	17	13	13	60
West Sample	es Sampled		16	16	14	14	60	18	18	13	13	62
	Yakima	Planned	5	5	3	3	16	5	5	3	3	16
Central		Actual	6	5	3	3	17	5	5	3	3	16
Central	Grant	Planned	5	5	3	3	16	5	5	3	3	16
		Actual	3	7	3	3	16	6	4	3	3	16
	Spokane (day 1)	Planned	4	4	2	2	12	4	4	2	2	12
		Actual	4	3	2	2	11	4	4	2	2	12
East	Spokane (day 2)	Planned	4	4	2	2	12	4	4	2	2	12
Lasi		Actual	4	5	2	2	13	4	4	2	2	12
	Walla Walla	Planned	5	5	3	3	16	5	5	3	3	16
		Actual	4	5	3	3	15	4	6	3	3	16
East Samples	s Planned		23	23	13	13	72	23	23	13	13	72
East Sample:	s Sampled		21	25	13	13	72	23	23	13	13	72
Total Sampl	es Planned		40	40	26	26	132	40	40	26	26	132
				41	27	27	132	41	41	26	26	134
Total Sample	es Sampled		37	41	<u><u></u></u>	21	132			20	20	

Table 19: Season One and Two Sampling Allocations: Planned vs. Actual



		Sea	son Thr	ee: Augus	st/Septem	ber	Season Four: January					
Waste Generation Area	County representing WGA	Planned/ Actual	Com	Res	SH C&D	SH Other	Total	Com	Res	SH C&D	SH Other	Total
	Clallam	Planned	4	3	3	2	12	4	3	2	3	12
West		Actual	4	3	3	2	12	4	3	2	3	12
West	Grays Harbor	Planned	4	3	2	3	12	4	3	3	2	12
		Actual	4	3	2	3	12	4	3	3	2	12
Northwest	Whatcom	Planned	4	3	3	2	12	4	3	2	3	12
Nonnwest		Actual	4	3	3	2	12	4	3	2	3	12
Durant Coursel	Kitsap	Planned	4	3	2	3	12	4	3	3	2	12
Puget Sound		Actual	4	3	2	3	12	4	3	3	2	12
	Clark	Planned	4	3	3	2	12	4	3	2	3	12
Oputhurset		Actual	4	3	3	2	12	4	3	2	3	12
Southwest	Lewis	Planned	4	3	2	3	12	4	3	3	2	12
		Actual	4	3	2	3	12	4	3	3	2	12
Nest Sample	s Planned		24	18	15	15	72	24	18	15	15	72
West Sample			24	18	15	15	72	24	18	15	15	72
	Yakima	Planned	4	3	3	2	12	4	3	2	3	12
		Actual	4	3	3	2	12	4	3	3	3	13
Central	Grant	Planned	4	3	2	3	12	4	3	3	2	12
		Actual	4	3	2	3	12	2	3	3	3	11
	Spokane (day 1)	Planned	4	3	3	2	12	4	3	3	2	12
		Actual	4	3	2	3	12	4	3	2	2	11
Freed	Spokane (day 2)	Planned	4	3	2	3	12	4	3	2	3	12
East	,	Actual	4	3	3	2	12	4	3	3	3	13
	Walla Walla	Planned	4	3	3	2	12	4	3	2	3	12
		Actual	4	3	3	2	12	4	3	2	3	12
East Samples	s Planned		20	15	13	12	60	20	15	12	13	60
East Samples			20	15	13	12	60	18	15	13	14	60
Fotal Sampl	es Planned		44	33	28	27	132	44	33	27	28	132
Fotal Sample			44	33	28	27	132	42	33	28	29	132
Total Days of	•						11					11

Table 20: Season Three and Four Sampling Allocations: Planned vs. Actual



Conducting Fieldwork

Obtaining Samples

The Field Manager followed a systematic procedure to select vehicles with commercial, residential, self-hauled C&D, and self-hauled other waste for sampling. To calculate vehicle sampling frequency for each waste sector, the project team established a sampling interval for each day of sampling. Sampling intervals were determined by dividing the total expected number of loads for each sector arriving at the facility on the scheduled day—based on information from the disposal facility questionnaire—by the number of samples needed each day. The resulting number is the sampling frequency, which determines whether, for example, every third vehicle, every sixth vehicle, or every 20th vehicle is selected for sampling. This strategy is referred to as "selecting every nth vehicle" within a waste sector. A vehicle selection form was created for each day and each location of sampling activity.

For a vehicle to be eligible for sampling, the load had to fit clearly within the commercial, residential, self-hauled C&D and self-hauled other definitions depending on the targeted waste sector. Samples of commercial and residential waste were obtained from major haulers, such as Waste Management or Allied, or from municipal haulers.

When the "nth" vehicle in each waste sector arrived, a unique, sequential sample identification (ID) number was assigned to the load. The sample ID number was entered on the vehicle selection form and a unique sample placard was placed in the windshield of the chosen vehicle. The sample ID matched the corresponding waste sector prefix (COM, RES, SH). For example, the first commercial sample ID on a given day was COM-1, while the fourth residential sample ID was RES-4. The brightly colored sample placard alerted the Field Manager and sorting crew to the presence of a sample. Where feasible, the vehicle selection responsibility was handled by the scale house crew, as they were uniquely positioned to count off and select the *nth* vehicle during the course of the sampling day.

Hand-sorting Samples

Loads selected to provide hand-sorted samples were extracted from the elongated piles ejected from the dumping vehicle. From each selected pile, the Field Manager randomly selected one sample of waste using an imaginary 16-cell grid (see below) superimposed over the dumped material. Then, with the assistance of a loader operator, a sample of waste weighing 225 pounds (on average) was removed from the designated cell and placed on a tarp. Each sample was labeled with the identifying sample ID number and digitally photographed.



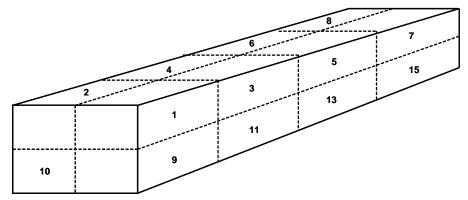


Figure 18: The 16-Cell Grid as Applied to a Tipped Load

Our process for hand-sorting samples included the following:

- 1. After each sample of waste was placed on a tarp, photographs of the sample were taken using a digital camera. The sample placard that identified each sample was positioned so it was visible in each photograph.
- 2. Each sample of waste was then sorted into the *material types*, and the sorting crew used plastic laundry baskets to contain the separated materials. The sorting crew members typically specialized in groups of materials, such as papers or plastics. The Field Manager monitored the homogeneity of material in the baskets as they accumulated, rejecting any materials which may have been improperly classified.
- 3. The Field Manager then verified the purity of each material as it was weighed in its basket using a pre-calibrated scale, and recorded each material weight (excluding the weight of the basket) on the sample tally form. The Field Manager oversaw all weighing and data recording of each sample.

At the conclusion of each sorting day, the Field Manager conducted a quality control review of the data recorded on each sample tally sheet. The completed sample tally sheet was taken to the Cascadia Consulting office for data entry.

Site Maintenance and Cleanup

Our field crew took steps to reduce or eliminate the risk of litter, particularly in open-air environments. A thorough cleanup effort followed each day of work and included:

- Organizing and stowing sorting supplies in a designated location;
- Removing all sorted waste discarded throughout the day (the host facility loader operator typically helped with removal);
- Sweeping and cleaning the sorting area to prevent windblown litter and other situations that could attract vectors;
- Removing and properly disposing any single-use personal protective equipment; and
- Checking out with the Facility Manager each day.



Data Management

Our quality assurance/quality control process involved:

- Assigning a unique combination sample number, county of origin, date, and time to each sample and then transferring the information to the tally sheet that was used to record material weights for the sample.
- Encoding the type of waste load into the sample number. For example, on a particular date, samples of commercial waste were numbered Com-1, Com-2, and so on.
- Using the vehicle selection form to track the numbers of each type of load obtained and sampled.
- Verifying that data forms were obtained for each day the data collection crew was in the field.
- Designing the data entry databases to prevent out-of-range values for vehicle and sample characteristics such as vehicle type, net weight, and other factors.
- Randomly checking computer-entered data against the paper forms to verify that numbers were entered correctly and to look for any systematic or random errors.

Following each season of fieldwork, all field forms were taken to Cascadia's office and entered into a waste composition database created specifically for the 2009 Washington statewide study. Our team's data entry procedure was developed to protect the integrity of the data at every step of the process, from collection in the field to final analysis.

After the sample tally sheets were checked by the Field Manager, the Data Manager verified that all required data was recorded properly and supervised the data entry process. As an additional step in quality control, randomly selected records were inspected in detail to monitor the accuracy of the data entry process.

Collecting Composition and Quantity Data

Composition of Waste

Composition estimates that resulted from sorting samples were combined with quantity data to produce meaningful results at the material and waste sector levels. The data collected in the field provided Ecology with the *percentages* of the various materials found in the waste sector, but not the *tonnages*. When these percentages were paired with the tonnage figures collected from Washington's waste generations areas, the percentages were scaled up to a specific weight. In other words, knowing a waste sector is composed of 20 percent food waste is helpful, but only when one knows that 20 percent equates to 40,000 tons of food can concrete planning occur and diversion programs be established.

Quantity of Waste

To determine how many tons of disposed waste were associated with each of the waste sectors addressed in the study, we gathered tonnage data from two sources:

- 1. A vehicle survey carried out during season four at each of the ten sampling facilities.
- 2. Tonnage data provided by 36 statewide disposal facilities.



We began the tonnage data collection process by gathering tonnage data during the pre-fieldwork conversations with facilities we expected to visit. The collection of the data involved conversations, faxes, or collection of transaction logs. It should be noted that facilities do not always track data in a consistent manner, and availability varies from facility to facility. Therefore, Cascadia needed to interpret some of the data to create comparable information. In addition to collecting tonnage data from the ten facilities visited for sampling, Cascadia collected tonnage data from an additional 36 facilities statewide.

Vehicle Surveys

Vehicle surveys were administered to the drivers of each vehicle entering the facility through the gate where the surveyor was posted. If the facility had multiple gates (such as the Spokane Regional Waste to Energy Facility), then the surveyor rotated among the gates at regular intervals of about one hour. Table 21 shows the number of vehicles surveyed at each facility.

COUNTY	FACILITY	VEHICLES SURVEYED
Clallam	Port Angeles Transfer Station	107
Grays Harbor	Aberdeen Central Transfer Station	97
Whatcom	Regional Disposal Company	73
Clark	West Van Material Recovery Center	80
Lewis	Lewis County Central Transfer Station	157
Kitsap	Olympic View Transfer Station	142
Grant	Ephrata Landfill	64
Yakima	Terrace Heights Landfill	177
Spokane	Spokane Regional Waste to Energy	189
Walla Walla	Sudbury Road Landfill	58
Total		1,144

Table 21: Vehicle Surveys Conducted by County and Facility

The ultimate product of the survey data was an estimate of the fraction of the overall waste sector contributed by each of the waste sectors at each participating facility.

On survey days, the surveyor arrived at the site at the scheduled start time, which was assigned to permit full coverage throughout the day and at times of greatest traffic at the facility. The surveyor introduced himself or herself to the scale house staff and verified the procedure for administering the survey that day by confirming several key details:

- The procedure for obtaining vehicle net weights;
- Any rules the facility used for assigning a minimum net weight to certain types of vehicles, such as those carrying self-hauled loads; and
- Any rules governing assignment of net volume estimates instead of net weights.



The surveyor was positioned at the designated entrance to the facility and interviewed the driver of each passing vehicle. The information gathered through the interview included:

- The waste sector (residential, commercial, self-hauled C&D, and self-hauled other);
- In cases where loads were composed of waste from multiple sectors, the estimated proportions of the sectors represented in the load;
- The activity that generated the waste; and
- Vehicle type.

An example vehicle survey form that was used to collect the data is in Appendix C: Forms Used during the Study.

At most of the facilities, it was possible for the surveyor to obtain net weights for vehicles by observing the weighing process at the scale house and recording the weight at the same moment the vehicle drove across the scales. In some cases, the surveyor coordinated with scale house personnel throughout the day to obtain weight tickets (transaction receipts) corresponding to every load of waste brought to the facility.

In all cases, the surveyor recorded the type of waste and net weight, net volume, or default assigned weight for every vehicle encountered that was carrying disposed waste that did not come from another solid waste facility. The survey did not record loads of non-disposed waste, material to be recycled or recovered, Alternative Daily Cover, or material brought from transfer stations or other solid waste or recovery facilities.

Collected survey data were checked for accuracy in the field. The surveyor checked the forms to ensure all appropriate information was gathered. The survey supervisor checked the surveys after they were returned to the office to confirm all required data was properly entered. Survey entries with errors or incomplete were not used.

The survey data were entered into a Microsoft Access database. The entries were compared in two separate checks with the written field records. First, the field survey data were entered into a customized database that compared the two sets of entries and flagged any that did not match. Second, each database record was reviewed and compared against the original field form. Any data entry errors were addressed. In cases where data entry errors or omissions could not be resolved, the entry was deleted.

Additional Tonnage Data

In addition to the vehicle surveys, additional data was collected from 36 solid waste facilities throughout Washington. The sites were not randomly selected but chosen from a list of all waste facilities in the state Ecology provided. Each facility was asked to provide:

- Annual disposed tonnage;
- Percent or tonnages allocated to the residential and commercial waste sectors; and
- Percent or tonnages allocated to the self-hauled C&D and self-hauled other waste sectors.

Most facilities could provide the annual tons and residential/commercial tons, but very few track their self-hauled or "public" loads in a way we could use for our analysis. Due to these uncertainties, we relied



most heavily on the vehicle survey data to provide sector tonnages, and used the additional survey data only when we were confident of its accuracy. Table 22 presents a list of all 36 facilities that could provide tonnage data for one of the three categories listed above.

COUNTY	FACILITY	COUNTY	FACILITY
Grant	CDSI Transfer & Recycling	King	Factoria Transfer Station
Chelan	Dryden Transfer Station	King	Houghton Transfer Station
Yakima	Cheyne Road Landfill	King	Renton Transfer Station
Yakima	Yakima County Lower Valley RTS	King	Algona Transfer Station
Kittitas	Ellensburg Transfer Station	King	Skykomish Transfer Station
Kittitas	Cle Elum Transfer Station	King	Bow Lake Transfer Station
Kittitas	Ryegrass Landfill	King	Enumclaw Transfer Station
Spokane	North County Transfer Station	King	Vashon Transfer Station
Spokane	Valley Transfer Station	King	Cedar Falls Transfer Station
Spokane	Northside Landfill	King	Shoreline Transfer Station
Benton	Horn Rapids Landfill	Clark	Central Transfer Station
Benton	Kennewick Transfer Station	Lewis	East Lewis County Transfer Station
Franklin	Basin Disposal Transfer Station	Cowlitz	Cowlitz County Landfill
Kitsap	Bainbridge Island Recycling & Garbage Facility	Clallam	Blue Mtn. Transfer Station
Kitsap	Hansville Recycling & Garbage Facility	Grays Harbor	Elma McCleary Transfer Station
Kitsap	Ollala Recycling & Garbage Facility	Grays Harbor	Hogan's Corner Transfer Station
Kitsap	Silverdale Recycling & Garbage Facility	Grays Harbor	Ocosta Transfer Station
Pierce	Tacoma City Municipal Landfill	Grays Harbor	Pacific Beach Transfer Station

Table 22: Additional Survey Facilities

Explaining the Calculations and Statistical Procedures Used

Data from vehicle surveys, facility tonnage reports, and sorting waste samples were analyzed to yield estimates of percentages and tonnages of *material types* in Washington's waste stream. This section describes the methodology used to obtain each estimate and its associated confidence interval (error range).

The general calculation strategy involved two basic practices: 1) the use of ratio estimators to determine composition percentages of the waste stream, and 2) aggregation of sample data from the waste generation area (WGA) level to the statewide level.



Estimating Waste Composition

To develop waste characterization and quantity profiles for this study, three main steps were taken:

- 1. Convert volumetric estimates of materials to weight for the samples.
- 2. Calculate the estimated composition of all samples in a given sector based on the sample weight.
- 3. Combine the results for individual sectors using a weighted average procedure to produce findings for combined sectors.

In the descriptions of calculation methods, the following variables are used frequently:

- *i* denotes an individual sample;
- *j* denotes the *material type*;
- *c_i* is the weight of the *material type j* in a sample;
- *w* is the weight of an entire sample;
- r_i is the composition estimate for material j (r stands for ratio);
- a denotes a WGA (a stands for area);
- s denotes a particular sector of the waste sector; and
- *n* denotes the number of samples in the particular group that is being analyzed at that step.

Estimating the Composition

The following method was used to estimate the composition of waste belonging to the commercial, residential, self-hauled C&D, and self hauled other sectors.

For a given stratum (that is, for the samples belonging to the same waste sector within the same WGA), the composition estimate denoted by r_j represents the ratio of the component's weight to the total weight of all the samples in the stratum. This estimate was derived by summing each component's weight across all of the selected samples belonging to a given stratum and dividing by the sum of the total weight of waste for all of the samples in that stratum, as shown in the following equation:

$$r_j = \frac{\sum_i c_{ij}}{\sum_i w_i}$$

(1)

where:

- c = weight of particular component;
- w = sum of all component weights;
- for *i* = 1 to *n*, where *n* = number of selected samples; and
- for *j* = 1 to *m*, where *m* = number of components.



For example, the following simplified scenario involves three samples. For the purposes of this example, only the weights of the component *carpet* are shown.

	SAMPLE 1	SAMPLE 2	SAMPLE 3
Weight (c) of carpet	5	3	4
Total Sample Weight (w)	80	70	90

$$r_{Carpet} = \sum \frac{5+3+4}{80+70+90} = 0.05$$

To find the composition estimate for the component *carpet*, the weights for that material are added for all selected samples and divided by the total sample weights of those samples. The resulting composition is 0.05, or 5 percent. In other words, 5 percent of the sampled material by weight is *carpet*. This finding is then projected onto the stratum being examined in this step of the analysis.

The confidence interval for this estimate was derived in two steps. First, the variance around the estimate was calculated, accounting for the fact that the ratio included two random variables (the component and total sample weights). The variance of the ratio estimator equation follows:

$$\operatorname{Var}(r_j) \approx \left(\frac{1}{n}\right) \left(\frac{1}{\overline{w}^2}\right) \left(\frac{\sum_{i} \left(\frac{1}{\sqrt{w}} - r_j w_i\right)^2}{n-1}\right)$$
(2)

where:

$$\overline{w} = \frac{\sum_{i} w_i}{n} \tag{3}$$

(For more information regarding Equation 2, refer to *Sampling Techniques, 3rd Edition* by William G. Cochran [John Wiley & Sons, Inc., 1977].)

Second, precision levels at the 90 percent confidence level were calculated for a component's mean as follows:

$$r_j \pm \left(\sqrt{\operatorname{Var}(r_j)}\right)$$
(4)

where *z* = the value of the *z*-statistic (1.645) corresponding to a 90 percent confidence level.



Composition results for strata were then combined using a weighted averaging method to estimate the composition of larger portions of the waste sector. The relative tonnages associated with each stratum served as the weighting factors. The calculation was performed as follows:

$$O_{j} = (p_{1} * r_{j1}) + (p_{2} * r_{j2}) + (p_{3} * r_{j3}) + \dots$$
(5)

where:

- *p* = the proportion of tonnage contributed by the noted waste stratum (the weighting factor);
- r = ratio of component weight to total waste weight in the noted waste stratum (the composition percent for the given material component); and
- for j = 1 to m, where m = number of material components.

	STRATUM 1	STRATUM 2	STRATUM 3
Ratio (r) of carpet	5%	10%	10%
Tonnage	25,000	100,000	50,000
Proportion of tonnage (p)	14.3%	57.1%	28.6%

composition results for the three strata are combined as follows.

$$O_{Carpet} = (0.143 * 0.05) + (0.571 * 0.10) + (0.286 * 0.10) = 0.093 = 9.3\%$$

The variance of the weighted average was calculated as follows:

$$\operatorname{Var}(O_{j}) = \bigoplus_{1}^{2} \operatorname{Var}(r_{j1}) \xrightarrow{1} \bigoplus_{2}^{2} \operatorname{Var}(r_{j2}) \xrightarrow{1} \bigoplus_{3}^{2} \operatorname{Var}(r_{j3}) \xrightarrow{1} \dots$$
(6)

Estimating Composition of Entire Statewide Disposed Waste Stream

Composition results for all waste sectors were combined using a weighted averaging method to estimate the composition of the entire statewide disposed waste stream. The relative tonnages associated with each sector served as the weighting factors. The calculation was performed as follows:

$$O_{j} = (p_{1} * r_{j1}) + (p_{2} * r_{j2}) + (p_{3} * r_{j3}) + \dots$$
(7)

where:

- p = the proportion of tonnage contributed by the noted waste sector (the weighting factor);
- r = ratio of component weight to total waste weight in the noted waste sector (the composition percent for the given material component); and
- for j = 1 to m, where m = number of material components.



The following scenario illustrates the above equation. This example involves the component *carpet* in three waste sectors.

	WASTE SECTOR 1	WASTE SECTOR 2	WASTE SECTOR 3
Ratio of carpet (r)	0.05	0.10	0.15
Proportion of Tonnage (p)	0.50	0.25	0.25

 $O_{Carpet} = (0.50 * 0.05) + (0.25 * 0.10) + (0.25 * 0.15) = 0.0875$

So, it is estimated that 0.0875 or 8.75 percent of the entire waste stream is composed of *carpet*.

The variance of the weighted average was calculated as follows:

$$\operatorname{Var}(O_{j}) = \bigoplus_{1}^{2} \operatorname{Var}(r_{j1}) \not = \bigoplus_{2}^{2} \operatorname{Var}(r_{j2}) \not = \bigoplus_{3}^{2} \operatorname{Var}(r_{j3}) \not = \dots$$
(8)

Quantifying Disposed Waste

Disposed waste from each sector was quantified through vehicle surveys, phone surveys, and tonnage reports. The calculation method is described below.

Step 1: Aggregating Survey Records to Produce Findings at the Facility Level. For a given facility on a given day, each vehicle included in the gatehouse survey had its net weight assigned to one or more of the established waste sectors, according to the response of the driver. Thus, the tonnage from each vehicle was assigned or apportioned to one or more of the commercial, residential, self-hauled C&D, or self-hauled other sectors. The tonnages identified through the survey were used to calculate the relative proportions of the waste associated with each sector.

Each facility provided its disposed tonnage for the Calendar Year 2009. The relative proportions described above were applied to these reported figures to produce estimates of the tons of disposed waste associated with each sector at the facility in question.

For example, suppose Facility A was visited on two days and also provided transaction records for 2009. The following scenario describes how percentages of waste for each sector were calculated for this facility.

First, survey data from the facility for the two days the survey crew was present were examined to determine the tons associated with the studied sectors. A hypothetical accounting of tonnages from two daily transaction reports is shown below. Example numbers are rounded and decimals are not carried through calculations.



2009 Washington Statewide Waste Characterization Study Appendix A: Detailed Methodology

	CONTR	ACTED	SELF-H	TOTAL	
Facility A	Commercial	Residential	Self-hauled C&D	Self-hauled Other	
Tonnage from survey day 1	20	20	15	15	70
Tonnage from survey day 2	30	15	20	10	75
Tonnage for two days	50	35	35	25	145

Next, the tonnages were converted into percentages within the franchised and self-hauled categories as shown below.

		CONTRACTED		SELF-HAULED		
Facility A	Commercial	Residential	Total Contracted	Self-hauled C&D	Self-hauled Other	Total Self- hauled
Tonnage for two days	50	35	85	35	25	60
Percentages	59%	41%	100%	58%	42%	100%

These percentages were then applied to the annual contracted and self-hauled tonnages from transaction records supplied by the facility. Suppose Facility A accepted 15,000 tons of waste in 2009, of which 10,000 tons came from contracted haulers and 5,000 came from self-haulers. Quantities would be assigned to each sector as shown below.

	CONTRA	ACTED	SELF-H	IAULED
Facility A	Commercial	Residential	Self-hauled C&D	Self-hauled Other
Total Annual Tons	10,0	000	5,0	000
Tons per sector	5,900	4,100	2,900	2,100

Step 2: Aggregating Tonnage from Facilities to Produce Findings at the WGA Level. Tonnage estimates for each type of waste were combined for participating facilities within each WGA, using a weighted averaging method. The tonnage estimates for each type of waste at all participating facilities within a WGA were aggregated, and relative proportions were calculated for each sector. The aggregated proportions for each sector were then applied to the total 2008 disposal figure for the WGA as reported by Ecology.



For example, hypothetical annual tonnages by sector for two facilities visited in a WGA are shown below.

	COMMERCIAL	RESIDENTIAL	SELF-HAULED C&D	SELF-HAULED OTHER	TOTAL
Facility A	5,900	4,100	2,900	2,100	15,000
Facility B	150,000	80,000	30,000	5,000	265,000
Total (tons)	155,900	84,100	32,900	7,100	280,000
% of Total	56%	30%	12%	2%	100%

Using an annual tonnage for this WGA of 2,000,000 tons, we can assign tonnages to the four waste sectors according to the percentages from the survey data.

WGA 1	COMMERCIAL	RESIDENTIAL	SELF-HAULED C&D	SELF-HAULED OTHER	TOTAL
Percents	56%	30%	12%	2%	100%
Tons	1,120,000	600,000	240,000	40,000	2,000,000

Step 3: Aggregating WGA Findings to Produce Sector Tonnage Estimates Statewide. The relative proportions of disposed waste corresponding to each sector were combined among WGAs using a weighted aggregation method. The weightings associated with each WGA were proportional to the total disposed tonnage for the WGA for Calendar Year 2008. This step resulted in a final set of proportions reflecting the relative disposal of waste corresponding to each waste sector statewide. The proportions were then multiplied by the total 2008 statewide disposal figure to produce the statewide tonnage estimate associated with each sector.

	COMMERCIAL	RESIDENTIAL	SELF-HAULED C&D	SELF-HAULED OTHER	TOTAL
WGA 1	1,120,000	600,000	240,000	40,000	2,000,000
WGA 2	550,000	375,000	118,000	82,000	1,125,000
WGA 3	690,000	410,000	73,000	127,000	1,300,000
Total	2,360,000	1,385,000	431,000	249,000	4,425,000



The actual 2008 figures for disposed tonnage associated with each WGA are shown below.

WASTE GENERATION AREAS	ANNUAL DISPOSED TONNAGE
Central WGA	523,636
East WGA	734,627
Northwest WGA	306,189
Puget Sound WGA	2,810,988
Southwest WGA	428,085
West WGA	174,971
Total	4,978,496

Table 23: Annual Disposed Tonnage by Waste Generation Area 2008



Appendix B: List and Definitions of Material Types for Statewide Study

Introduction

The list and definitions of the *material types* used in this study are shown below. The field crew sorted materials into 130 *material types*. The list of *material types* was designed to "roll up" into a condensed list used for presenting results of this study combined with results from other waste characterization studies in the Puget Sound WGA.

The complete list developed for this study is shown below followed by detailed definitions for each *material type*. The rolled up material list used for the supplemental study with corresponding materials from the three additional Puget Sound studies is shown in Table 56 at the beginning of Appendix E.

List of Material Types

Why 130 Material Types?

The types and quantities of materials in our waste streams are always in flux and therefore, so are the diversion possibilities. Ecology chose these 130 material types as a way to track current reuse/recycling programs while looking forward toward creation of future stewardship opportunities.

Following is the complete list of **Material Classes** and *material types*. As part of the 2009 Statewide Waste Characterization Study, solid waste was sorted into the 130 *material types* shown from which composition percentages as well as quantities were calculated.



Material Class	Material Class
Material Type	Material Type
Paper Packaging	Paper Products
Newspaper Packaging	Newspaper
Cardboard/Kraft Paper Packaging	Cardboard/Kraft Paper Products
Other Groundwood Paper Packaging	Magazines
Mixed/Low Grade Paper Packaging	High-Grade Paper Products
Compostable Paper Packaging	Other Groundwood Paper Products
R/C Paper Packaging	Mixed Low Grade Paper Products
NC raper rackaging	Compostable Paper Products
Plastic Packaging	Paper Processing Sludge
#1 PETE Plastic Bottles	
#1 PETE Plastic Bottles	R/C Paper Products
#1 PETE Plastic Non-bottles #2 HDPE Plastic Natural Bottles	Plastic Products
#2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles	#1 PETE Plastic Products
#2 HDPE Plastic Jars & Tubs	#2 HDPE Plastic Products
#3 PVC Plastic Packaging	#3 PVC Plastic Products #4 LDPE Plastic Products
#4 LDPE Plastic Packaging	
#5 PP Plastic Packaging	#5 PP Plastic Products
#6 PS Plastic Packaging	#6 PS Plastic Products
#7 Other Plastic Packaging	#7 Other Plastic Products
PLA Packaging	PLA Products
Plastic Merchandise Bags	Plastic Garbage Bags
Non-industrial Packaging Film Plastic	Plastic Film Products
Industrial Packaging Film Plastic	R/C Plastic Products
R/C Plastic Packaging	
	Consumer Products
Glass	Televisions - CRT
Clear Glass Containers	Televisions - LCD
Green Glass Containers	VCR's, DVD's, DVR's
Brown Glass Containers	Computer Monitors - CRT
Plate Glass	Computer Monitors - LCD
Stoneware/Kitchen Ceramics/Glassware	Computers
R/C Glass	Computer Peripherals
	Audio Equipment
Metal	Gaming Equipment
Aluminum Beverage Cans	Other Consumer Electronics
Aluminum Foil/Containers	Textiles - Organic
Other Aluminum	Textiles - Synthetic
Other Nonferrous	Shoes, Purses, Belts
Food Cans - Tinned	Tires & Rubber
Food Cans - Coated	Furniture
White Goods	Mattresses
Other Ferrous Metal	R/C Consumer Products
R/C Metals	

Table 24: List of Material Types



Material Class	Material Class
Material Type	Material Type
Organics	Hazardous/Special Wastes
Food - Vegetative	Pesticides/Herbicides
Food - Non-vegetative	Mercury Vapor Lighting
Leaves & Grass	Compact Fluorescent Lights
Prunings	Fluorescent Tubes
Animal Manure	Asbestos
Animal Carcasses	Latex Paint
Crop Residues	Solvent-based Glues
Fruit Waste	Latex-based Glues
R/C Organics	Oil-based Paint & Solvent
	Caustic Cleaners
Wood Debris	Dry-cell Batteries
Treated Wood	Wet-cell Batteries
Painted Wood	Gasoline/Kerosene
Dimensional Lumber	Motor Oil
Engineered Wood	Antifreeze
Pallets & Crates	Other Vehicle Fluids
Other Untreated Wood	Oil Filters
Wood By-Products	Explosives
R/C Wood Wastes	Medical Wastes
	Pharmaceuticals/Vitamins
Construction Materials	Disposable Diapers
Natural Wood	Other Cleaners & Soaps
Insulation	Other Hazardous
Asphalt Paving	Other Non-hazardous
Concrete	
Drywall	Residues
Carpet	Ash
Carpet Padding	Dust
Soil, Rocks, Sand	Fines
Asphalt Roofing	Sludge/Special Industrial
Plastic Flooring	
Ceramics & Brick	
R/C Construction Materials	

Table 24: List of Material Types, continued



Material Types Organized by Packaging and Products Material Groups

The list below shows how each of the 130 *material types* were distributed for the Packaging and Products analysis found in the statewide study analysis above.

Matarial Crown	Matarial Crown
Material Group	Material Group
Material Type	Material Type
Packaging	Products
Newspaper Packaging	Newspaper
Cardboard/Kraft Paper Packaging	Cardboard/Kraft Paper Products
Other Groundwood Paper Packaging	Magazines
Mixed/Low Grade Paper Packaging	High-Grade Paper Products
Compostable Paper Packaging	Other Groundwood Paper Products
R/C Paper Packaging	Mixed Low Grade Paper Products
#1 PETE Plastic Bottles	Compostable Paper Products
#1 PETE Plastic Non-bottles	Paper Processing Sludge
#2 HDPE Plastic Natural Bottles	R/C Paper Products
#2 HDPE Plastic Colored Bottles	#1 PETE Plastic Products
#2 HDPE Plastic Jars & Tubs	#2 HDPE Plastic Products
#3 PVC Plastic Packaging	#3 PVC Plastic Products
#4 LDPE Plastic Packaging	#4 LDPE Plastic Products
#5 PP Plastic Packaging	#5 PP Plastic Products
#6 PS Plastic Packaging	#6 PS Plastic Products
#7 Other Plastic Packaging	#7 Other Plastic Products
PLA Packaging	PLA Products
Plastic Merchandise Bags	Plastic Garbage Bags
Non-industrial Packaging Film Plastic	Plastic Film Products
Industrial Packaging Film Plastic	R/C Plastic Products
R/C Plastic Packaging	Televisions - CRT
Clear Glass Containers	Televisions - LCD
Green Glass Containers	VCR's, DVD's, DVR's
Brown Glass Containers	Computer Monitors - CRT
Aluminum Beverage Cans	Computer Monitors - LCD
Aluminum Foil/Containers	Computers
Food Cans - Tinned	Computer Peripherals
Food Cans - Coated	Audio Equipment
	Gaming Equipment
Organics	Other Consumer Electronics
Food - Vegetative	Textiles - Organic
Food - Non-vegetative	Textiles - Synthetic
Leaves & Grass	Shoes, Purses, Belts
Prunings	Tires & Rubber
Animal Manure	Furniture
Animal Carcasses	Mattresses
Crop Residues	R/C Consumer Products
Fruit Waste	Plate Glass
R/C Organics	Stoneware/Kitchen Ceramics/Glassware
	White Goods

Table 25: Material Types by Packaging and Products Material Groups



Material Group	Material Group						
Material Type	Material Type						
Metal	Hazardous/Special Wastes						
Other Aluminum	Pesticides/Herbicides						
Other Nonferrous	Mercury Vapor Lighting						
Other Ferrous Metal	Compact Fluorescent Lights						
R/C Metals	Fluorescent Tubes						
	Asbestos						
Wood Debris	Latex Paint						
Treated Wood	Solvent-based Glues						
Painted Wood	Latex-based Glues						
Dimensional Lumber	Oil-based Paint & Solvent						
Engineered Wood	Caustic Cleaners						
Pallets & Crates	Dry-cell Batteries						
Other Untreated Wood	Wet-cell Batteries						
Wood By-Products	Gasoline/Kerosene						
R/C Wood Wastes	Motor Oil						
	Antifreeze						
Construction Materials	Other Vehicle Fluids						
Natural Wood	Oil Filters						
Insulation	Explosives						
Asphalt Paving	Medical Wastes						
Concrete	Pharmaceuticals/Vitamins						
Drywall	Disposable Diapers						
Carpet	Other Cleaners & Soaps						
Carpet Padding	Other Hazardous						
Soil, Rocks, Sand	Other Non-hazardous						
Asphalt Roofing							
Plastic Flooring	Residues						
Ceramics & Brick	R/C Glass						
R/C Construction Materials	Ash						
	Dust						
	Fines						
	Sludge/Special Industrial						

Table 25: Material Types by Packaging and Products Material Groups, continued

Definitions of Material Types

Paper Packaging:

- 1. <u>Newspaper Packaging</u>: Shredded newspaper packing material.
- 2. <u>Cardboard and Kraft Packaging</u>: Unwaxed Kraft paper corrugated containers and boxes, unless polyor foil-laminated. Includes cardboard boxes and brown Kraft paper bags and packaging paper.
- 3. <u>Other Groundwood Paper Packaging</u>: Other packaging made from groundwood paper, such as egg cartons.
- 4. <u>Mixed/Low-Grade Paper Packaging</u>: Low-grade recyclable papers, including non-corrugated paperboard packaging, aseptic packaging, and polycoated paperboard packaging. Includes cereal and cracker boxes



- 5. <u>Compostable Paper Packaging</u>: Packaging paper that can be composted such as pizza boxes, waxed cardboard boxes, and all cups/containers from fast food establishments.
- 6. <u>Remainder/Composite Paper Packaging</u>: Non-recyclable and non-compostable types of papers such as paper packaging with metal or plastic parts (except aseptic packaging). Examples would include plastic lined or metal handled take-out food containers.

Paper Products

- 7. <u>Newspaper Products</u>: Printed groundwood newsprint, including glossy ads and Sunday edition magazines that are delivered with the newspaper (unless these are found separately during sorting).
- 8. <u>Cardboard and Kraft Paper Products</u>: Unwaxed Kraft paper and corrugated products and, unless poly- or foil-laminated. Could include cat scratching pads.
- 9. <u>Magazines</u>: Magazines, catalogs and similar products with glossy paper. Includes Sunday edition news magazines, if found separate from the newspaper.
- 10. <u>High-Grade Paper Products</u>: High-grade white or light-colored bond and copy machine papers and envelopes, and continuous-feed computer printouts and forms of all types, except multiple copy carbonless paper.
- 11. <u>Other Groundwood Paper Products</u>: Non-packing products made from groundwood paper, including phone books, some tablet paper, and paperback books.
- 12. <u>Mixed/Low-Grade Paper Products</u>: Low-grade recyclable papers, including colored papers, notebook or other lined paper, envelopes with plastic windows, non-corrugated paperboard, carbonless copy paper, and junk mail.
- 13. <u>Compostable Paper Products</u>: Non-packaging papers that can be composted such as paper towels/napkins, paper cups and plates (if purchased empty), and tissues.
- 14. <u>Paper Processing Sludge</u>: Paper-based materials from industrial non-packaging sources that do not easily fit into the above materials, such as sludges.
- 15. <u>Remainder Composite Paper Products</u>: Non-recyclable and non-compostable types of paper products such as carbon paper and hardcover books, and composite materials containing paper mixed with metal or plastic parts.

Plastic Packaging

- 16. <u>#1 PETE (Polyethylene terephthalate) Plastic bottles</u>: Includes plastic bottles bearing the #1, such as carbonated drink bottles and water bottles.
- 17. <u>#1 PETE (Polyethylene terephthalate) Plastic non-bottles</u>: Includes plastic non-bottle packaging bearing the #1, and would include oven-ready meal trays and other packaging.
- 18. <u>#2 HDPE (High-density polyethylene) Plastic Natural Bottles</u>: Includes milk jugs and water jugs and any natural bottle bearing the #2.
- 19. <u>#2 HDPE (High-density polyethylene) Plastic Colored Bottles</u>: Includes detergent bottles, some hair care product bottles, and any opaque plastic bottle bearing the #2.
- 20. <u>#2 HDPE (High-density polyethylene) Plastic Jars and Tubs</u>: Yogurt and margarine tubs and any packaging jar or tub bearing the #2. This category includes five-gallon plastic pails (with or without handles) and lids.
- 21. <u>#3 PVC (Polyvinyl chloride) Plastic Packaging</u>: Includes any plastic bottle or container marked with a #3.
- 22. <u>#4 LDPE (Low-density polyethylene) Plastic Packaging</u>: Includes any plastic bottle or container marked with the #4.



- 23. <u>#5 PP (Polypropylene) Plastic Packaging</u>: Includes any plastic packaging marked with the #5 as well as plastic straws.
- 24. <u>#6 PS (Polystyrene) Plastic Packaging</u>: Includes any plastic packaging marked with the #6 and also includes packing peanuts, Styrofoam coolers, egg cartons, meat trays, compact disc cases, and any other Styrofoam packaging.
- 25. <u>#7 Other/Unknown Plastic Packaging</u>: Includes all non-numbered plastic packaging and any other plastic packaging product not listed in another category.
- 26. <u>PLA (Polylactic Acid) Compostable Packaging</u>: Any compostable plastic packaging or food containers made from corn, potato, sugarcane or any other compostable resin. Examples include fast food clamshell containers and beverage cups.
- 27. <u>Plastic Merchandise Bags</u>: Will include all grocery, shopping, and merchandise bags.
- 28. <u>Non-industrial Packaging Film Plastic</u>: Includes other types of packaging film such as cling wrap, bread and food bags, and plastic potato chip bags.
- 29. <u>Industrial Packaging Film Plastic:</u> Includes bubble wrap and shrink wrap and any other packaging film used in a typically industrial manner.
- 30. <u>Remainder/Composite Plastic Packaging</u>: <u>O</u>ther types of packaging that are not one of the above materials and items that are composites of multiple plastics and plastics mixed with other materials. Examples would include plastic toys with metal attachments.

Plastic Products

- 31. <u>#1 PETE (Polyethylene terephthalate) Plastic Products</u>: Includes any PET product bearing the #1 and used in a non-packaging application.
- 32. <u>#2 HDPE (High-density polyethylene) Plastic Products</u>: Includes any other non-packaging product bearing the #2.
- 33. <u>#3 PVC (Polyvinyl chloride) Plastic Products</u>: Includes any non-packaging product bearing the #3 but also including plastic piping, some shower curtains, and some toys.
- 34. <u>#4 LDPE (Low-density polyethylene) Plastic Products</u>: Includes any other non-packaging product bearing the #4.
- 35. <u>#5 PP (Polypropylene) Plastic Products</u>: Includes any plastic non-packaging product bearing the #5 but also includes some reusable food containers.
- 36. <u>#6 PS (Polystyrene) Plastic Products</u>: Includes any plastic non-packaging product bearing the #6 but also includes plastic tableware.
- 37. <u>#7 Other/Unknown Plastic Products</u>: Includes all non-packaging, non-numbered plastic product not listed in another category. Examples could include some toys, household products, disposable plastic products (food utensils), durable plastic products (tooth brushes, dinnerware), and electronic media (CDs and DVDs).
- 38. <u>PLA (Polylactic Acid) Compostable Products</u>: Any compostable plastic product made from corn, potato, sugarcane or any other compostable resin. Examples include utensils and plates made of PLA.
- 39. <u>Plastic Garbage Bags</u>: Includes all bags whose primary use is to hold trash or garbage.
- 40. <u>Plastic Non-bag Film Products</u>: Includes Visqueen sheeting for drop cloths, other plastic tarps, and any other film product not used for packaging purposes.
- 41. <u>Remainder/Composite Plastic Products</u>: Includes all other types of non-packaging plastic that are not one of the above materials and items that are composites of multiple plastics and plastics mixed



with other materials. This section also includes plastic sheeting and tarps that are contaminated with other materials such as paint or concrete residue.

Glass

- 42. Clear Glass Containers: Bottles and jars made from clear glass.
- 43. Green Glass Containers: Bottles and jars made from green glass.
- 44. <u>Brown/Other Colored Glass Containers</u>: Bottles and jars made from brown glass. Note that blue glass was included with brown glass.
- 45. <u>Plate Glass</u>: Flat glass products such as windows, mirrors, and flat products.
- 46. <u>Non-glass Ceramics</u>: Ceramics not composed of true glass and not typically used as building materials. Examples include dishes, crockware, etc.
- 47. <u>Remainder/Composite Glass</u>: Other types of glass products and scrap that do not fit into the above materials, including light bulbs, glassware, Pyrex, and non-C&D fiberglass. Note that ceramics (plates and knickknacks) will not be included here but placed in "Non-Glass Ceramics" below.

Metal

- 48. <u>Aluminum Beverage Cans</u>: Aluminum beverage cans.
- 49. <u>Aluminum Foil/Containers</u>: Aluminum foil, food trays and similar items.
- 50. <u>Other Aluminum</u>: Aluminum scrap and products that do not fit into the above two materials.
- 51. <u>Other Non-Ferrous Metal</u>: Metallic products and pieces that are not aluminum and not derived from iron (see "other ferrous") and are not significantly contaminated with other metals or materials (see "residual/composite").
- 52. <u>Food Cans-Tinned: Including zinc or tin-coated steel food containers</u>. This material includes bi-metal beverage cans, but not paint cans or other types of cans.
- 53. <u>Food Cans-Coated</u>: Including many plastic-lined aluminum pet food containers.
- 54. <u>White Goods</u>: Large household appliances or parts thereof. Special note should be taken if any of these are found still containing refrigerant.
- 55. <u>Other Ferrous Metal</u>: Products and pieces made from metal to which a magnet will adhere (including stainless steel), and which are not significantly contaminated with other metals or materials (in the latter case, the item will instead be included under "residual/composite"). This material will include paint and other non-food "tin cans", as well as aerosol cans.
- 56. <u>Remainder/Composite Metals</u>: Items made of a mixture of ferrous and non-ferrous or a mixture of metal and non-metallic materials (as long as these are primarily metal). Examples include small appliances, motors, and insulated wire.

Organics

- 57. <u>Food Waste, Vegetative</u>: Plant-based foods including the food container when the container weight is not appreciable compared to the food inside.
- 58. <u>Food Waste, Meats, Fats, and Oils</u>: Animal derived foods and oils including the food container when the container weight is not appreciable compared to the food inside.
- 59. Yard, Garden Waste (Leaves and Grass): Grass clippings, leaves and weeds.
- 60. <u>Yard, Garden Waste (Prunings)</u>: Materials including prunings six inches or less (branches with leaves OK).
- 61. <u>Animal Manure</u>: All animal manures and soiled bedding and litter whether derived from an agricultural or residential origin. Includes kitty litter.



- 62. <u>Animal Carcasses, Offal</u>: Carcasses and pieces of small and large animal, unless the item is the result of food preparation in a household or commercial setting. For instance, fish or chicken entrails from food preparation and raw, plucked chickens will typically be classified as food, not as an animal carcass, unless the material is from an agricultural or industrial source.
- 63. <u>Crop Residues</u>: Vegetative materials that are left over from growing crops (except tree fruit) and that are treated as a waste (specify type of crop).
- 64. <u>Fruit Waste</u>: Fruit (apples, berries, grapes, etc.) and processing wastes (apple, grape, berry pomace, etc) that are left over from growing and processing fruit in Washington and that are treated as a waste (**specify type of fruit**). Does not include fruit purchased at groceries, etc.
- 65. <u>Remainder/Composite Organics</u>: Other organics that do not easily fit into the above materials must note identity of whatever material is placed in this category.

Wood Debris

- 66. <u>Treated Wood</u>: Wood treated with preservatives such as creosote, CCA and ACQ. This includes dimensional lumber and posts if treated, but does not include painted or varnished wood. This material may also include some plywood (especially "marine plywood"), strandboard, and other wood.
- 67. <u>Painted Wood</u>: Wood painted, varnished or coated in similar ways.
- 68. <u>Dimensional Lumber</u>: Wood commonly used in construction for framing and related uses, including 2 x 4's, 2 x 6's and posts/headers (4x8's, etc.).
- 69. <u>Engineered Wood</u>: Building materials that have been manufactured and generally include adhesive as one or more layers. Examples include plywood (sheets of wood built up of two or more veneer sheets glued or cemented together under pressure), particle board (wood chips pressed together to form large sheets or boards), fiberboard (like particle board but with fibers), "glu-lam" beams and boards (built up from dimensional or smaller lumber), and similar products.
- 70. <u>Pallets and Crates</u>: Partial or whole pallets, crates and similar shipping containers.
- 71. <u>Other Untreated Wood</u>: Other types of wood products and materials that do not fit into the above materials, excluding composite materials (see Residual/Composites below).
- 72. <u>Wood Byproducts</u>: Sawdust and shavings, not otherwise identifiable.
- 73. <u>Remainder/Composite Wood Debris</u>: Items that consist primarily of wood but do not fit into the above materials, including composite materials that consist primarily (over 50 percent) of wood. Examples of composites include wood with sheetrock nailed to it or with tiles glued to it (such that the materials cannot be easily separated).

Construction Materials

- 74. <u>Natural Wood</u>: Wood that has not been processed, including stumps of trees and shrubs, with the adhering soil (if any), and other natural woods, such as logs and branches in excess of six inches in diameter.
- 75. Insulation: Includes all pad, roll, or blown-in types of insulation.
- 76. Asphalt Paving: Asphalt paving material.
- 77. <u>Concrete</u>: Cement (mixed or unmixed), concrete blocks, and similar wastes.
- 78. <u>Drywall</u>: Used or new gypsum wallboard, sheetrock or drywall present in recoverable amounts or pieces (generally any piece larger than two inches square will be recovered from the sample).
- 79. <u>Carpet</u>: Pieces of carpet and rugs made of similar material.
- 80. Carpet Padding: Foam rubber and other materials used as padding under carpets.



- 81. <u>Soil, Rocks and Sand</u>: Rock, gravel, soil, sand and similar naturally-occurring materials.
- 82. <u>Asphalt Roofing</u>: Asphalt and fiberglass shingles, tar paper, and similar wastes from demolition or installation of roofs. Does not include wooden shingle or shakes.
- 83. <u>Plastic Floor Covering</u>: Such as plastic tile, vinyl flooring, and linoleum.
- 84. <u>Ceramics and Bricks</u>: Includes clay, porcelain bricks and tiles, such as used toilets, sinks and bricks of various types and sizes.
- 85. <u>Remainder/Composite Construction Materials</u>: Other construction and demolition materials that do not fit easily into the above materials or are composites made up of two or more different materials.

Consumer Products

- 86. <u>Televisions-CRT</u>: Television sets containing a cathode ray tube (CRT).
- 87. <u>Televisions-LCD</u>: LCD or plasma.
- 88. <u>Television Peripherals</u>: DVRs, VCRs, DVD players, etc.
- 89. <u>Computer Monitors-CRT</u>: Computer monitors containing a cathode ray tube (CRT).
- 90. Computer monitors-LCD: LCD computer monitors.
- 91. Computers: Towers, laptops and portable computers
- 92. <u>Computer Peripherals</u>: Keyboard, mice and mouse pads, printers, disk drives, etc.
- 93. <u>Audio Equipment</u>: Examples include stereo equipment, receivers, speakers, radios, tape players, CD players, turntables, etc.
- 94. <u>Electronic Gaming equipment</u>: Such as Nintendo, Play Stations, joysticks, etc.
- 95. <u>Other Consumer Electronics</u>: Small electric appliances such as toasters, mixers, microwave ovens, power tools, curling irons, cell phones, and anything else that runs with a plug or battery.
- 96. <u>Textiles-Organic</u>: Cloth, clothing, and rope made of 100 percent cotton, leather, wool or other naturally-occurring fibers. Composites of several different naturally-occurring fibers (such as a wool jacket with a cotton liner) can be included in this material, as can organic textiles with buttons and zippers.
- 97. <u>Textiles-Synthetic, Mixed or Unknown</u>: Cloth, clothing, and rope made of unknown fibers, synthetic fibers or made from a mixture of synthetic and natural materials.
- 98. <u>Shoes, Purses, and Belts</u>: All shoes and boots, purses, and belts whether made of leather, rubber, other materials, or a combination thereof.
- 99. <u>Tires and Other Rubber</u>: Vehicle tires of all types, including bicycle tires and including the rims if present, and finished products and scrap materials made of rubber, such as bath mats, inner tubes, rubber hose and foam rubber (except carpet padding, see below).
- 100. <u>Furniture</u>: Mixed-material furniture such as upholstered chairs (furniture made of a single material would be classified with that material category).
- 101. <u>Mattresses</u>: Mattresses made of various materials and in any condition.
- 102. <u>Remainder/Composite Consumer Products</u>: This is a catch-all material for objects consisting of more than one material.

Hazardous and Special Wastes

- 103. <u>Pesticides and Herbicides</u>: Includes a variety of poisons whose purpose is to discourage or kill pests, weeds or microorganisms. Fungicides and wood preservatives, such as pentachlorophenol, are also included in this material.
- 104. <u>High-Intensity Discharge Lamps (HID)</u>: Includes high pressure sodium, metal halide and mercury vapor.



- 105. Compact Fluorescent Lamps (CFL)
- 106. <u>Fluorescent Tubes</u>: Includes linear, u-shaped, and circular.
- 107. <u>Asbestos</u>: Pure asbestos and asbestos-containing products where the asbestos present is the most distinguishing characteristic of the material.
- 108. Latex Paints: Water-based paints and similar products.
- 109. <u>Solvent-Based Adhesives/Glues</u>: Oil/resin/volatile solvent-based glues and adhesives, including epoxy, rubber cement, two-part glues and sealers, and auto body fillers.
- 110. <u>Water-Based Adhesives/Glues</u>: Water-based glues, caulking compounds, grouts, and Spackle.
- 111. <u>Oil-Based Paint/Solvent</u>: Solvent-based paints, varnishes, and similar products. Various solvents, including chlorinated and flammable solvents, paint strippers, solvents contaminated with other products such as paints, degreasers and some other cleaners if the primary ingredient is (or was) a solvent, or alcohol such as methanol and isopropanol.
- 112. <u>Caustic Cleaners</u>: Caustic acids and bases whose primary purpose is to clean surfaces, unclog drains, or perform other actions.
- 113. <u>Dry-Cell Batteries</u>: Dry-cell batteries of various sizes and types as commonly used in households. Includes cell phone and button cell batteries. Distinguish between single use batteries and rechargeable batteries.
- 114. <u>Wet-Cell Batteries</u>: Wet-cell batteries of various sizes and types as commonly used in automobiles.
- 115. <u>Gasoline/Kerosene</u>: Gasoline, diesel fuel, and fuel oils.
- 116. <u>Motor Oil</u>: Lubricating oils, primarily used in vehicles but including other types with similar characteristics.
- 117. <u>Antifreeze</u>: Automobile and other antifreeze mixtures based on ethylene or propylene glycol.
- 118. Other Vehicle Fluids: Includes brake, power steering, and hydraulic, and transmission fluid.
- 119. <u>Oil Filters</u>: Used oil filters, primarily those used in cars but possibly including similar filters from other types of vehicles and other applications.
- 120. Explosives: Gunpowder, unspent ammunition, picric acid, and other potentially explosive chemicals.
- 121. <u>Medical Wastes</u>: Materials typically discarded in a health care setting such as I.V. tubing and patient drapes, specimen containers, and Petri dishes. Medical wastes that could be considered a biohazard are weighed, but not further sorted.
- 122. <u>Pharmaceuticals and Vitamins</u>: Not including the container. Classify container according to material type.
- 123. <u>Disposable Diapers</u>: Disposable baby diapers and protective undergarments for adults (including feminine hygiene products).
- 124. <u>Other Cleaners/Chemicals</u>: Soaps, non-caustic cleaners, medicines, cosmetics, and other household chemicals.
- 125. <u>Other Potentially Hazardous Wastes</u>: Other chemicals or potentially harmful wastes that do not fit into the above categories, including unidentifiable materials.
- 126. <u>Other Non-Hazardous Waste</u>: Problem wastes that do not fall into one of the above materials, but that are not hazardous, weak acids and bases (cleaners), automotive products (car wax, etc.)

Residuals

- 127. <u>Ash</u>: Fireplace, burn barrel or firepit ash, as well as boiler and ash from industrial sources.
- 128. <u>Dust</u>: Baghouse and other dusts from industrial sources, as well as bags of vacuum cleaner dust.
- 129. <u>Fines/Sorting Residues</u>: Mixed waste that remains on the sorting table after all the materials that can practicably be removed are sorted out. This material will consist primarily of small pieces of



various types of paper and plastic, but will also contain small pieces of broken glass and other materials. May also include material less than one-half inch in diameter that falls through a bottom screen during sorting, for those using sorting boxes with screens, and if the material cannot otherwise be identified.

130. <u>Sludges and Other Special Industrial Wastes</u>: Sludges and other wastes from industrial sources that cannot easily be fit into any of the above material. Can include liquids and semi-solids but only if these materials are treated as a solid waste.



Appendix C: Forms Used During the Study

List of Forms Used

- Vehicle Selection Form;
- Sample Placard;
- Sample Sorting & Characterization Form;
- Vehicle Survey Form;
- Additional Tonnage Data Survey Form.



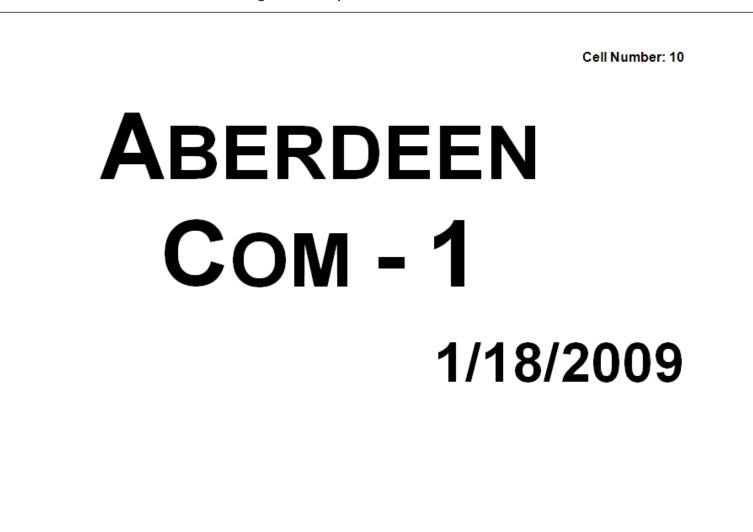
Figure 19: Vehicle Selection Sheet

	Washington 2009 Waste Characterization Study Vehicle Selection Form																			
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2009 Washington Statewide Waste Characterization Study Appendix C: Forms Used During the Study

Figure 20: Sample Placard





	Newspaper			#1 PET Bottles		
ing	Cardboard/Kraft Packaging			#1 PET Non-bottles		
ikag	Other Groundwood Packaging		_	#2 HDPE Natural Bottles		
Pac	Mixed/Low Grade Packaging			#2 HDPE Natural Bottles		
Paper Packaging	Compostable Packaging			#2 HDPE Jars & Tubs		
Pa	R/C Paper Packaging			#3 PVC Packaging		
	INC Faper Fackaging		agi agi	#4 LDPE Packaging		
	Newspaper		Plastic Packaging	#4 LDPE Packaging #5 PP Packaging		
	Cardboard/Kraft		<u>ل</u>	#6 PS Packaging		<u> </u>
	Magazines		last	PLA/Compostable Packaging		<u> </u>
ucts	High-Grade Papers		[@]	#7 Other Packaging		
rod	Groundwood Products					
егЪ				Merchandise Bags		
Paper Products	Mixed Low Grade Paper			Non-industrial Packaging Film		
	Compostable Products			Industrial Packaging Film		
	Paper Processing Sludge			R/C Packaging		
	R/C Paper Products				- T T	F
				#1 PET Product		
	Clear Containers			#2 HDPE Product		
S	Green Containers			#3 PVC Product		
GLASS	Brown Containers		Plastic Products	#4 LDPE Product		
ß	Plate Glass		<u>p</u>	#5 PP Product		
	R/C Glass		с. Б	#6 PS Product		
	Stoneware/Kitchen Ceramics		last	#7 Other Product		
		r - r	<u>م</u>	PLA/Compostable Product		
	Alum. Beverage Cans			Garbage Bags		
	Alum. Foil/Containers			Film Products		
	Other Aluminum			R/C Products		
AL	Other Nonferrous					T
METAL	Food Cans - Tinned			Food - Vegetative		
2	Food Cans - Coated			Food - Non-vegetative		
	White Goods		<u>م</u>	Leaves & Grass		
	Other Ferrous		ÜZ	Prunings		
	R/C Metals		ORGANICS	Animal Manure		
			OR	Animal Carcasses		
				Crop Residues		
San	nple ID:	Date: Location	<u>n:</u>	Fruit Waste		
				R/C Organics		

Figure 21: Sample Sorting and Characterization Form, Front

	Treated Wood		Televisions - CRT						
	Painted Wood		Televisions - LCD						
tes	Dimensional Lumber		VCR's, DVD's, DVR's						
Wood Wastes	Engineered Wood		Computer Monitors - CRT						
2 – 2	Pallets & Crates		Computer Monitors - LCD						
× − ≥	Other Untreated Wood	s and a second se	Computers						
	Wood By-Products	Products	Computer Peripherals						
	R/C Wood	200	Audio Equipment						
			Gaming Equipment						
	Oil Filters	E E	Other Consumer Electronics						
	Antifreeze	Consumer	Textiles - Organic						
-	Pesticides/Herbicides	ŭ	Textiles - Synthetic						
	Mercury Vapor Lighting		Shoes, Purses, Belts						
	Compact Fluorescents		Tires & Rubber						
	Fluorescent Tubes		Furniture						
_	Asbestos		Mattresses						
	Latex Paint		R/C Consumer						
- ES	Solvent-based Glues								
<u> </u>	Latex-based Glues	ښ نې	Ash						
WAS	Oil-based Paint & Solvent	que	Dust						
	Caustic Cleaners	Residues	Fines						
HAZAKDOUS	Dry-cell Batteries	<u>«</u>	Sludge/Special Industrial						
	Wet-cell Batteries								
7	Gasoline/Kerosene		Natural Wood						
Ì_	Motor Oil		Insulation						
	Other Vehicle Fluids	ω.	Asphalt Paving						
	Explosives	Materials	Concrete						
	Medical Wastes	late	Drywall						
_	Pharmaceuticals/Vitamins	≥	Carpet						
_	Disposable Diapers	ctio	Carpet Padding						
_	Other Cleaners & Soaps	Construction	Soil, Rocks, Sand						
_	Other Hazardous		Asphalt Roofing						
_	Other Non-hazardous	8	Plastic Flooring						
			Ceramics & Brick						
			R/C Demo						

Figure 22: Sample Sorting and Characterization Form, Back



Figure 23: Vehicle Survey Form, Front

Date //													Page of This sheet started atam pn			
ID	Vehicle Type	Trailer			Sector					For COM Only	For SH and SHC	For SHC Only		Notes & Comments		
Enter the weightback ticket number here (if used)	1. Rear Packer 2. Front Packer 3. Side Packer 4. DB-Loose 5. DB-Compacted 6. Pickup, Van, SUV 7. Large Other 8. Car	Check if the vehicle has a trailer with garbage in it.	SF	COM co SH self-ha SHC self	f-haul constr	ultifamily uction SH	SHC	Did this load come from a single garbage source?	If this load is from a single source, which business type (from the list in the margin of the page) best describes the source of this load?	For single source loads get name of source, if possible.	Did this load come from a home or someplace else (business, park, church, government office, etc.)	What kind of construction job?	Net Weight of Load. If you use the same units for all loads just circle the units on the first line, otherwise be sure to circle the units on every line.	minumu Check if note the minimum the top sh	native m weight. used and facilities weight at of this eet. Pickup	If needed for notes any time you choose NA or about the load, or to record licenseivehicle #s for identification purposes, etc.
	9. Other		%	%COM	% MF	%	%		ioud.					Car	Ріскир	
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	I	II	<u> </u>	1	I	1	1	ШУ	I				= Construction 2 = Food = Mixed Commercial 7 = Othe	er Retail		3 = Big Box Retail 4 = Manufacturing 8 = Medical/Hospital 9 = Education 13 = Agriculture 14 = Prison 15 = Other



Figure 24: Vehicle Survey Form, Back

Enter the net weight of the load. If the operator measures a If the load is either SH or SHC note whether it is from a res If the load is from a construction site, circle only one of the									
STEP-BY-STEP INSTRUCTIONS CHECK IN WITH GATEHOUSE STAFF									
Confirm the method for getting net weights.									
AS THE VEHICLE ARRIVES RECORD THE TYPE OF VEHICLE ON T	HE SURVEY SHEET								
WHEN A VEHICLE ARRIVES, STOP THE VEHICLE, THEN BEGIN QL ALL DRIVERS:	JESTIONS:								
Introduction: "Hello, the Washington DOE is conducting a	survey today."								
Ask the driver what <u>sector</u> generated the load If you circle more than one sector, be sure to ask the	driver for the estimated % of each.								
Commercially collected residential: Single-family (SF) Commercially collected residential: Multifamily (MF)	Waste that is collected by a commercial hauler from single-family residences or multifamily structures with less than 4 units Waste that is collected by a commercial hauler from multi-unit structures with greater than 4 units								
	Waste disposed by businesses, industries (factories, farms, etc.), and governments (schools, highways, parks, etc.) that is collected and transported by professional waste haulers Waste hauled to a disposal site by a resident or business that is from a construction job								
Self-hauled construction	Waste hauled to a disposal site by a resident or business that is not from a construction job								
IF THE SOURCE IS COM AND THE VEHICLE TYPE IS DB-LOOSE O Is this load from a single source (a single business genera									
If yes, circle Y in the single source column									
Ask what type of business and note the gen If possible get the business name and note	erator type that best matches in the generator type column it								
IF THE SOURCE IS SH OR SHC, ASK									
	Is the load from a residence or someplace else (business, government office, manufacturing, public works facility) If it's a residence circle R, if it's not circle NR								
IF DRIVER IS FROM A CONSTRUCTION SITE, ASK:	DRIVER IS FROM A CONSTRUCTION SITE, ASK:								
	If it is a C&D load, ask the driver what <u>activity</u> generated the waste. New construction (NC) Construction materials generated from the construction of new buildings								
Remodel (R) Construction or d	Remodel (R) Construction or demolition materials generated from the remodeling of buildings								
	ted from the tearing down of any facility, structure, pavement or building, (wall, fence) whether in whole or in part, whether interior or exterior I by the installation or replacement of roofs								
	by an emissionation of replacement of roots by construction or demolition of buildings, not included in categories above or from public works projects.								
RECORD NET WEIGHTS									
	t circle the units on the first row. If not circle the units on every row.								
I the site has a minimum weight note it on the front page a	If the site has a minimum weight note it on the front page and every time a survey vehicle pays the minimum check it in the appropriate column.								



Figure 25: Additional Tonnage Data Survey Form

Tonnage Data Collection: ECYStatewide2009

Facility:

County:

Annual Tons Incoming Disposed Waste

Note: tons should be non-transfer disposed waste only, excluding tons separated for recycling, composting, or other diversions such as alternative daily cover (ADC).

Year: _____ Select one: Calendar or Fiscal

	Tons
Overall	
Check if any are transfer tons (list tons)	
Check if any are diversion tons (list tons)	
Overall (excluding transfer and diversion)	

Franchise or Commercially-collected or City-collected Waste

Note: Fill out either tons of each or percent of each (with a total tons).

	Tana	Deveent	Nataa
	Tons	Percent	Notes
Residential			
Commercial			
Total			
Tons % is ba	ased on:		

Self-hauled or Public Waste

Note: Fill out either tons of each or percent of each (with a total tons).

	Tons	Percent	Notes
C&D			
Non-C&D			
Total			
Tons % is based on:			

Check Total Tons

Check that the overall tons and sum of sector tons are equal



Figure 26: Addition	I Tonnage Data Survey Form, Back

	Tons
Residential Tons (from above)	
Commercial Tons (from above)	
Self-hauled C&D Tons (from above)	
Self-hauled Other Tons (from above)	
Sum the Total Sector Tons	
Does this equal the overall tons reported	above?

Reports Provided

Ask if facility has reports available, especially if no annual breakdown for our sectors. Ask for daily scale transactions from a typical week (or two), preferably in Excel, that we can use to tease out the percentage of tons from our sectors.

Report Type	Notes
□ Daily Scale Transaction	
Annual Reports	
□ Other:	
□ Other:	
Contacts	
Name:	

Name:	
Phone:	
Email:	
Notes:	
Name:	
Phone:	
Email:	
Notes:	



Appendix D: Waste Generation Area Composition Results

This section presents waste composition results for each of Washington's six WGAs:

- Central
- East
- Northwest
- Puget Sound
- Southwest
- West

Each WGA section presents composition tables for the following sectors:

- Overall
- Commercial
- Residential
- Self-hauled C&D
- Self-hauled Other

In addition to the sector tables, a set of six figures, one for each WGA, is presented comparing the overall **Material Class** composition findings for the overall waste stream.

All WGAs were analyzed using the 2009 statewide study (130 material type list) format. The Puget Sound WGA was also analyzed using the supplemental format, presented in Appendix E, which added King, Snohomish, and Thurston Counties and used the 50 "rolled up" materials types.

Figure 27 through Figure 32 show a comparison of each WGAs overall waste composition at the **Material Class** level. This analysis uses the supplemental "rolled-up" set of **Material Classes** used for the supplemental study, as described in Appendix E, below.

Table 26 through Table 55 present detailed composition tables for each of the six WGAs for the overall waste stream and for each of the four sectors analyzed.



Figure 27: Central WGA

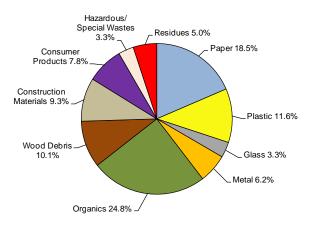


Figure 29: Northwest WGA

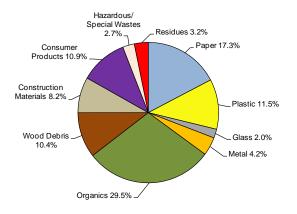
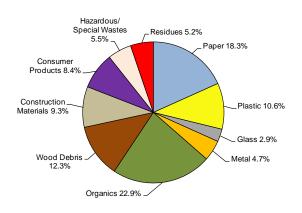


Figure 31: Southwest WGA





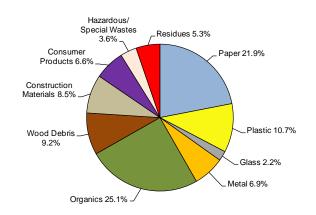


Figure 30: Puget Sound WGA

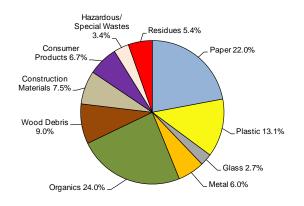
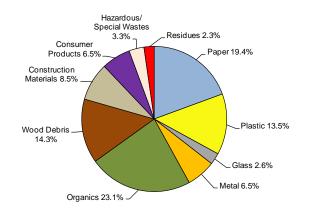


Figure 32: West WGA





Central Waste Generation Area Composition Tables



Table 26: Central WGA Overall Disposed Waste Stream Detailed Composition, 2009

					_		
Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	10.3%		54,129	Paper Products	8.2%		42,845
Newspaper Packaging	0.0%	0.0%	126	Newspaper	1.2%	0.3%	6,277
Cardboard/Kraft Paper Packaging	5.3%	1.2%	27,556	Cardboard/Kraft Paper Products	0.0%	0.0%	179
Other Groundwood Paper Packaging	0.2%	0.1%	957	Magazines	0.6%	0.2%	3,396
Mixed/Low Grade Paper Packaging	3.2%	1.5%	16,710	High-Grade Paper Products	0.6%	0.2%	2,906
Compostable Paper Packaging	0.9%	0.3%	4,582	Other Groundwood Paper Products	0.2%	0.2%	1,065
R/C Paper Packaging	0.8%	0.2%	4,198	Mixed Low Grade Paper Products	1.9%	0.5%	9,985
				Compostable Paper Products	2.9%	0.5%	15,047
Plastic Packaging	6.7%	0.00/	35,266	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	1.0%	0.2%	5,244	R/C Paper Products	0.8%	0.5%	3,990
#1 PETE Plastic Non-bottles	0.3%	0.0%	1,344	Direction Deve deve to	4.00/		05 040
#2 HDPE Plastic Natural Bottles	0.4%	0.1%	1,892	Plastic Products	4.8%	0.00/	25,219
#2 HDPE Plastic Colored Bottles	0.3%	0.1%	1,617	#1 PETE Plastic Products	0.0%	0.0%	4
#2 HDPE Plastic Jars & Tubs	0.2%	0.1%	962	#2 HDPE Plastic Products	0.0%	0.0%	29
#3 PVC Plastic Packaging #4 LDPE Plastic Packaging	0.0% 0.0%	0.0% 0.0%	38 79	#3 PVC Plastic Products #4 LDPE Plastic Products	0.1% 0.0%	0.1% 0.0%	534 94
00	0.0%	0.0%	1,408	#4 LDPE Flastic Floducts #5 PP Plastic Products	0.0%	0.0%	94 167
#5 PP Plastic Packaging		0.1%	3,217		0.0%	0.0%	261
#6 PS Plastic Packaging	0.6%			#6 PS Plastic Products			
#7 Other Plastic Packaging	0.7% 0.0%	0.4% 0.0%	3,662 92	#7 Other Plastic Products PLA Products	1.2% 0.0%	0.5% 0.0%	6,327 0
PLA Packaging		0.0%			1.2%	0.0%	6,132
Plastic Merchandise Bags	0.5%		2,780	Plastic Garbage Bags			
Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic	1.5% 0.8%	0.3% 0.6%	7,817 4,386	Plastic Film Products R/C Plastic Products	0.4% 1.9%	0.2%	1,871
	0.8%	0.8%	4,360	R/C Flastic Floducts	1.9%	1.5%	9,799
R/C Plastic Packaging	0.1%	0.1%	728	Consumer Broducto	8.5%		44 209
Glass	3.4%		17,910	Consumer Products Televisions - CRT	8.3% 0.7%	1.1%	44,398 3,616
Clear Glass Containers	3.4% 1.4%	0.4%	7,157	Televisions - CCT Televisions - LCD	0.7%	0.0%	3,010
Green Glass Containers	0.3%	0.4%	1,599	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.3%	0.1%	4,515	Computer Monitors - CRT	0.0%	0.0%	644
Plate Glass	0.9%	0.4%	4,515	Computer Monitors - CRT Computer Monitors - LCD	0.1%	0.2%	044
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.3%	464	Computer Monitors - LCD	0.0%	0.0%	0
R/C Glass	0.1%	0.1%	3,050	•	0.0%	0.0%	678
R/C Glass	0.0%	0.4%	3,030	Computer Peripherals Audio Equipment	0.1%	0.1%	648
Metal	6.2%		32,515	Gaming Equipment	0.0%	0.1%	048
	0.2%	0.1%	2,973	Other Consumer Electronics	0.3%	0.0%	1,385
Aluminum Beverage Cans Aluminum Foil/Containers	0.8%	0.1%	2,973	Textiles - Organic	2.1%	0.2%	10,748
Other Aluminum	0.1%	0.0%	1,100	Textiles - Synthetic	1.2%	0.7%	6,121
Other Nonferrous	0.2 %	0.2%	658	Shoes, Purses, Belts	0.3%	0.4%	1,662
Food Cans - Tinned	0.1%	0.1%	3,524	Tires & Rubber	0.5%	0.2 %	2,510
Food Cans - Coated	0.1%	0.1%	595	Furniture	2.1%	1.4%	11,220
White Goods	0.0%	0.0%	0	Mattresses	0.4%	0.3%	1,858
Other Ferrous Metal	1.9%	0.6%	10,088	R/C Consumer Products	0.4%	0.3%	3,306
R/C Metals	2.5%	1.1%	12,976	The consumer roducts	0.070	0.070	3,500
Too Metals	2.070	1.170	12,370	Hazardous/Special Wastes	3.4%		17,723
Organics	26.3%		137,515	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	9.2%	1.5%	48,024	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	3.1%	0.6%	16,445	Compact Fluorescent Lights	0.0%	0.0%	27
Leaves & Grass	8.8%	2.6%	46,122	Fluorescent Tubes	0.0%	0.0%	0
Prunings	1.1%	1.1%	5,837	Asbestos	0.0%	0.0%	0
Animal Manure	1.2%	0.4%	6,163	Latex Paint	0.1%	0.2%	761
Animal Carcasses	0.0%	0.0%	7	Solvent-based Glues	0.0%	0.0%	33
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	78
Fruit Waste	1.4%	1.6%	7,395	Oil-based Paint & Solvent	0.0%	0.0%	115
R/C Organics	1.4%	1.6%	7,523	Caustic Cleaners	0.0%	0.0%	19
č				Dry-cell Batteries	0.0%	0.0%	124
Wood Debris	10.0%		52,510	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	1.4%	1.8%	7,551	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	2.9%	1.4%	14,991	Motor Oil	0.0%	0.0%	42
Dimensional Lumber	1.2%	0.6%	6,429	Antifreeze	0.0%	0.0%	0
Engineered Wood	1.0%	0.5%	5,303	Other Vehicle Fluids	0.0%	0.0%	30
Pallets & Crates	1.9%	2.0%	10,167	Oil Filters	0.0%	0.0%	68
Other Untreated Wood	0.2%	0.2%	901	Explosives	0.0%	0.0%	3
Wood By-Products	0.0%	0.0%	137	Medical Wastes	1.1%	0.8%	5,560
R/C Wood Wastes	1.3%	0.8%	7,031	Pharmaceuticals/Vitamins	0.0%	0.1%	255
			-	Disposable Diapers	1.9%	0.5%	9,897
Construction Materials	10.9%		57,272	Other Cleaners & Soaps	0.1%	0.0%	576
Natural Wood	0.0%	0.1%	200	Other Hazardous	0.0%	0.0%	59
Insulation	1.0%	1.0%	5,113	Other Non-hazardous	0.0%	0.0%	75
Asphalt Paving	0.3%	0.6%	1,765				
Concrete	0.2%	0.2%	790	Residues	1.2%		6,337
Drywall	1.0%	0.6%	5,235	Ash	0.1%	0.1%	382
Carpet	2.1%	1.0%	10,924	Dust	0.0%	0.0%	189
Carpet Padding	0.6%	0.4%	2,909	Fines	1.1%	0.5%	5,766
Soil, Rocks, Sand	1.4%	1.4%	7,130	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	1.6%	1.0%	8,324	.		- /-	-
Plastic Flooring	0.2%	0.1%	910				
Ceramics & Brick	0.2%	0.2%	1,101	Totals	100.0%		523,636
R/C Construction Materials	2.5%	2.0%	12,871	Sample Count	113		,



Table 27: Central WGA Commercial Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	16.1%		29,655	Paper Products	7.4%		13,636
Newspaper Packaging	0.0%	0.0%	37	Newspaper	0.7%	0.3%	1,217
Cardboard/Kraft Paper Packaging	8.6%	3.0%	15,796	Cardboard/Kraft Paper Products	0.1%	0.1%	153
Other Groundwood Paper Packaging	0.1%	0.0%	171	Magazines	0.1%	0.1%	166
Mixed/Low Grade Paper Packaging	4.7%	4.2%	8,719	High-Grade Paper Products	0.3%	0.1%	557
Compostable Paper Packaging	1.6%	0.8%	2,900	Other Groundwood Paper Products	0.1%	0.1%	163
R/C Paper Packaging	1.1%	0.4%	2,031	Mixed Low Grade Paper Products	1.4%	0.8%	2,628
				Compostable Paper Products	3.0%	1.0%	5,477
Plastic Packaging	8.7%		15,979	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	1.0%	0.4%	1,895	R/C Paper Products	1.8%	1.4%	3,275
#1 PETE Plastic Non-bottles	0.3%	0.1%	499				
#2 HDPE Plastic Natural Bottles	0.3%	0.1%	516	Plastic Products	7.2%		13,263
#2 HDPE Plastic Colored Bottles	0.2%	0.1%	296	#1 PETE Plastic Products	0.0%	0.0%	3
#2 HDPE Plastic Jars & Tubs	0.2%	0.1%	286	#2 HDPE Plastic Products	0.0%	0.0%	6
#3 PVC Plastic Packaging	0.0%	0.0%	11	#3 PVC Plastic Products	0.0%	0.0%	0
#4 LDPE Plastic Packaging	0.0%	0.0%	15	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.2%	0.1%	377	#5 PP Plastic Products	0.0%	0.0%	81
#6 PS Plastic Packaging	0.9%	0.5%	1,611	#6 PS Plastic Products	0.0%	0.0%	56
#7 Other Plastic Packaging	1.2%	1.0%	2,133	#7 Other Plastic Products	1.3%	0.9%	2,367
PLA Packaging	0.0%	0.0%	5	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.3%	0.1%	636	Plastic Garbage Bags	1.9%	0.7%	3,500
Non-industrial Packaging Film Plastic	1.9%	0.7%	3,488	Plastic Film Products	0.5%	0.4%	900
Industrial Packaging Film Plastic	2.1%	1.8%	3,939	R/C Plastic Products	3.4%	4.2%	6,351
R/C Plastic Packaging	0.1%	0.1%	271				
				Consumer Products	4.2%		7,841
Glass	3.7%		6,748	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	1.6%	0.8%	2,936	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.5%	0.3%	988	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	1.1%	1.0%	2,111	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.1%	74	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	43	Computers	0.0%	0.0%	0
R/C Glass	0.3%	0.4%	595	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	52
Metal	7.7%		14,133	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.7%	0.3%	1,235	Other Consumer Electronics	0.1%	0.1%	129
Aluminum Foil/Containers	0.1%	0.1%	222	Textiles - Organic	1.2%	0.9%	2,160
Other Aluminum	0.3%	0.5%	553	Textiles - Synthetic	0.5%	0.3%	865
Other Nonferrous	0.1%	0.1%	160	Shoes, Purses, Belts	0.1%	0.1%	213
Food Cans - Tinned	0.6%	0.3%	1,049	Tires & Rubber	0.8%	0.8%	1,525
Food Cans - Coated	0.0%	0.0%	57	Furniture	0.8%	1.3%	1,490
White Goods	0.0%	0.0%	0	Mattresses	0.7%	0.9%	1,302
Other Ferrous Metal	2.4%	1.3%	4,462	R/C Consumer Products	0.1%	0.1%	107
R/C Metals	3.5%	2.9%	6,396				
			-,	Hazardous/Special Wastes	3.7%		6,844
Organics	17.8%		32,895	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	8.6%	3.0%	15,806	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	3.4%	1.3%	6,310	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	1.1%	1.3%	2,053	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.2%	0.2%	315	Asbestos	0.0%	0.0%	0
Animal Manure	0.4%	0.5%	796	Latex Paint	0.0%	0.0%	11
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	22
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	4
Fruit Waste	4.0%	4.6%	7,395	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	0.1%	0.1%	219	Caustic Cleaners	0.0%	0.0%	0
- 0	2			Dry-cell Batteries	0.0%	0.0%	73
Wood Debris	13.2%		24,458	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	3.1%	4.8%	5,806	Gasoline/Kerosene	0.0%	0.0%	Ő
Painted Wood	2.2%	2.6%	4,037	Motor Oil	0.0%	0.0%	38
Dimensional Lumber	1.0%	0.9%	1,897	Antifreeze	0.0%	0.0%	0
Engineered Wood	1.1%	1.1%	2,059	Other Vehicle Fluids	0.0%	0.0%	22
Pallets & Crates	5.2%	5.5%	9,568	Oil Filters	0.0%	0.0%	44
Other Untreated Wood	0.0%	0.1%	83	Explosives	0.0%	0.0%	1
Wood By-Products	0.0%	0.1%	90	Medical Wastes	2.1%	1.9%	3,855
R/C Wood Debris	0.5%	0.7%	919	Pharmaceuticals/Vitamins	0.0%	0.0%	18
	0.070	0.170	0.0	Disposable Diapers	1.5%	1.2%	2,681
Construction Materials	9.2%		17,036	Other Cleaners & Soaps	0.0%	0.0%	2,001
Natural Wood	5.2 /0 0.0%	0.0%	17,030	Other Hazardous	0.0%	0.0%	
Insulation	1.8%	2.8%	3,284	Other Non-hazardous	0.0%	0.0%	30
Asphalt Paving	0.0%	0.0%	3,204 0		0.0 %	0.070	50
Concrete	0.0%	0.0%	0	Residues	1.2%		2,228
				Ash	1.2% 0.0%	0.0%	2,228 0
Drywall	0.1%	0.1%	151			0.0%	
Carpet	1.1%	1.6%	1,961	Dust	0.1%	0.1%	153
Carpet Padding	0.0%	0.0%	0	Fines	1.1%	0.7%	2,075
Soil, Rocks, Sand	2.5%	3.7%	4,603	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.1%	0.2%	243				
Plastic Flooring	0.0%	0.0%	0				
Ceramics & Brick	0.0%	0.0%	40	Totals	100.0%		184,716
R/C Construction Materials	3.6%	5.2%	6,737	Sample Count	34		



Table 28: Central WGA Residential Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	9.6%		19,485	Paper Products	12.8%		25,878
Newspaper Packaging	0.0%	0.1%	88	Newspaper	2.4%	0.6%	4,937
Cardboard/Kraft Paper Packaging	3.8%	1.0%	7,782	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.4%	0.2%	779	Magazines	1.3%	0.4%	2,582
Mixed/Low Grade Paper Packaging	3.6%	0.4%	7,329	High-Grade Paper Products	0.9%	0.5%	1,816
Compostable Paper Packaging	0.7%	0.3%	1,498	Other Groundwood Paper Products	0.4%	0.4%	760
R/C Paper Packaging	1.0%	0.3%	2,009	Mixed Low Grade Paper Products	3.1%	0.8%	6,367
				Compostable Paper Products	4.6%	0.7%	9,241
Plastic Packaging	8.7%		17,563	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	1.6%	0.2%	3,157	R/C Paper Products	0.1%	0.1%	175
#1 PETE Plastic Non-bottles	0.4%	0.1%	816				
#2 HDPE Plastic Natural Bottles	0.7%	0.1%	1,332	Plastic Products	3.0%	0.00/	6,071
#2 HDPE Plastic Colored Bottles	0.6%	0.1%	1,256	#1 PETE Plastic Products	0.0%	0.0%	1
#2 HDPE Plastic Jars & Tubs	0.1%	0.1%	285	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	25	#3 PVC Plastic Products	0.2%	0.3%	407
#4 LDPE Plastic Packaging	0.0%	0.0%	26	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.5%	0.1%	914	#5 PP Plastic Products	0.0%	0.0%	61
#6 PS Plastic Packaging	0.7%	0.2%	1,460	#6 PS Plastic Products	0.1%	0.0%	161
#7 Other Plastic Packaging	0.6%	0.1%	1,275	#7 Other Plastic Products	0.8%	0.2%	1,617
PLA Packaging	0.0%	0.1%	87	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	1.0%	0.2%	2,072	Plastic Garbage Bags	1.2%	0.2%	2,451
Non-industrial Packaging Film Plastic	2.0%	0.3%	4,139	Plastic Film Products	0.3%	0.2%	575
Industrial Packaging Film Plastic	0.2%	0.1%	356	R/C Plastic Products	0.4%	0.2%	797
R/C Plastic Packaging	0.2%	0.2%	363				
				Consumer Products	6.6%		13,307
Glass	3.2%		6,557	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	1.6%	0.4%	3,212	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.3%	0.1%	589	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.9%	0.3%	1,835	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.2%	396	Computers	0.0%	0.0%	0
R/C Glass	0.3%	0.1%	524	Computer Peripherals	0.2%	0.3%	407
				Audio Equipment	0.2%	0.3%	425
Metal	5.0%		10,096	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.7%	0.1%	1,511	Other Consumer Electronics	0.5%	0.4%	1,012
Aluminum Foil/Containers	0.2%	0.1%	365	Textiles - Organic	2.7%	1.1%	5,529
Other Aluminum	0.1%	0.1%	187	Textiles - Synthetic	1.8%	0.8%	3,737
Other Nonferrous	0.1%	0.1%	179	Shoes, Purses, Belts	0.5%	0.2%	998
Food Cans - Tinned	1.2%	0.2%	2,336	Tires & Rubber	0.2%	0.2%	500
Food Cans - Coated	0.3%	0.1%	538	Furniture	0.2%	0.3%	409
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	0
Other Ferrous Metal	1.3%	0.7%	2,556	R/C Consumer Products	0.1%	0.1%	292
R/C Metals	1.2%	0.8%	2,423				
				Hazardous/Special Wastes	4.7%		9,613
Organics	38.5%		78,203	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	15.2%	2.8%	30,840	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	4.6%	0.9%	9,319	Compact Fluorescent Lights	0.0%	0.0%	27
Leaves & Grass	14.8%	4.5%	30,089	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.5%	0.4%	919	Asbestos	0.0%	0.0%	0
Animal Manure	2.3%	0.9%	4,717	Latex Paint	0.0%	0.0%	43
Animal Carcasses	0.0%	0.0%	7	Solvent-based Glues	0.0%	0.0%	0
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	4
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	39
R/C Organics	1.1%	0.6%	2,311	Caustic Cleaners	0.0%	0.0%	19
-				Dry-cell Batteries	0.0%	0.0%	46
Wood Debris	1.5%		3,118	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	0.0%	0.0%	11	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	0.8%	0.6%	1,657	Motor Oil	0.0%	0.0%	4
Dimensional Lumber	0.1%	0.1%	206	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.2%	0.3%	445	Other Vehicle Fluids	0.0%	0.0%	8
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	24
Other Untreated Wood	0.0%	0.0%	91	Explosives	0.0%	0.0%	1
Wood By-Products	0.0%	0.0%	36	Medical Wastes	0.8%	1.2%	1,705
R/C Wood Debris	0.3%	0.2%	671	Pharmaceuticals/Vitamins	0.1%	0.1%	237
				Disposable Diapers	3.5%	0.9%	7,098
Construction Materials	4.4%		8,928	Other Cleaners & Soaps	0.2%	0.1%	331
Natural Wood	0.1%	0.1%	183	Other Hazardous	0.0%	0.0%	26
Insulation	0.3%	0.4%	557	Other Non-hazardous	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0		0.075	2.370	0
Concrete	0.0%	0.0%	0	Residues	2.0%		4,080
Drywall	0.0%	0.0%	355	Ash	0.2%	0.2%	382
Carpet	1.6%	1.1%	3,204	Dust	0.2 %	0.2 %	36
Carpet Padding	0.4%	0.4%	3,204 824	Fines	1.8%	1.1%	3,663
Soil, Rocks, Sand		0.4%				0.0%	3,003
	1.0%		1,941	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.3%	0.4%	518				
Plastic Flooring	0.3%	0.3%	514	Tatala	400.00/		202 222
Ceramics & Brick R/C Construction Materials	0.2% 0.3%	0.2% 0.2%	319 514	Totals	100.0% 33		202,900
			51/	Sample Count			



Table 29: Central WGA Self-hauled C&D Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	2.7%	• •	1,211	Paper Products	0.3%	.,	113
Newspaper Packaging	0.0%	0.0%	0	Newspaper	0.0%	0.0%	1
Cardboard/Kraft Paper Packaging	2.7%	2.5%	1,198	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.0%	0.0%	0	Magazines	0.2%	0.3%	72
Mixed/Low Grade Paper Packaging	0.0%	0.0%	10	High-Grade Paper Products	0.0%	0.0%	0
Compostable Paper Packaging	0.0%	0.0%	1	Other Groundwood Paper Products	0.0%	0.0%	0
R/C Paper Packaging	0.0%	0.0%	1	Mixed Low Grade Paper Products	0.1%	0.1%	34
rite i apor i acitagilig	0.070	0.070	•	Compostable Paper Products	0.0%	0.0%	0
Plastic Packaging	0.4%		163	Paper Processing Sludge	0.0%	0.0%	õ
#1 PETE Plastic Bottles	0.0%	0.0%	7	R/C Paper Products	0.0%	0.0%	6
#1 PETE Plastic Non-bottles	0.0%	0.0%	0		0.070	0.070	0
#2 HDPE Plastic Natural Bottles	0.0%	0.0%	2	Plastic Products	4.8%		2,130
			2			0.00/	
#2 HDPE Plastic Colored Bottles	0.0%	0.0%		#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.0%	0.0%	0	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.3%	0.4%	121
#4 LDPE Plastic Packaging	0.0%	0.0%	0	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.0%	0.0%	3	#5 PP Plastic Products	0.0%	0.0%	0
#6 PS Plastic Packaging	0.1%	0.1%	30	#6 PS Plastic Products	0.0%	0.0%	0
#7 Other Plastic Packaging	0.0%	0.0%	4	#7 Other Plastic Products	2.6%	3.9%	1,168
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.0%	0.0%	0	Plastic Garbage Bags	0.1%	0.1%	48
Non-industrial Packaging Film Plastic	0.2%	0.4%	101	Plastic Film Products	0.8%	1.3%	340
Industrial Packaging Film Plastic	0.0%	0.0%	15	R/C Plastic Products	1.0%	1.7%	453
R/C Plastic Packaging	0.0%	0.0%	0			/0	400
	0.070	0.070	v	Consumer Products	0.8%		352
Glass	2.4%		1,070	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	0.0%	0.0%	0	Televisions - LCD	0.0%	0.0%	0
			0				
Green Glass Containers	0.0%	0.0%		VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.1%	0.1%	23	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	2.4%	3.8%	1,047	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	0	Computers	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	0
Metal	7.7%		3,434	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.0%	0.1%	18	Other Consumer Electronics	0.0%	0.0%	6
Aluminum Foil/Containers	0.0%	0.0%	0	Textiles - Organic	0.1%	0.2%	51
Other Aluminum	0.5%	0.6%	204	Textiles - Synthetic	0.0%	0.0%	1
Other Nonferrous	0.2%	0.2%	83	Shoes, Purses, Belts	0.0%	0.0%	0
Food Cans - Tinned	0.0%	0.0%	0	Tires & Rubber	0.0%	0.0%	1
Food Cans - Coated	0.0%	0.0%	0	Furniture	0.0%	0.0%	Ó
			0				293
White Goods	0.0%	0.0%		Mattresses	0.7%	0.8%	
Other Ferrous Metal	2.9%	2.0%	1,290	R/C Consumer Products	0.0%	0.0%	0
R/C Metals	4.1%	3.8%	1,840				_
				Hazardous/Special Wastes	0.0%		5
Organics	1.4%		601	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	0.0%	0.0%	6	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	0.0%	0.0%	0	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	0.9%	1.4%	390	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.5%	0.8%	205	Asbestos	0.0%	0.0%	0
Animal Manure	0.0%	0.0%	0	Latex Paint	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	5
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	0
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	0.0%	0.0%	0	Caustic Cleaners	0.0%	0.0%	0
	0.070	0.070	Ū	Dry-cell Batteries	0.0%	0.0%	Ő
Wood Debris	23.5%		10,419	Wet-cell Batteries	0.0%	0.0%	0
		0.40/					0
Treated Wood	0.1%	0.1%	31	Gasoline/Kerosene	0.0%	0.0%	_
Painted Wood	5.9%	4.3%	2,624	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	8.9%	5.7%	3,965	Antifreeze	0.0%	0.0%	0
Engineered Wood	5.3%	4.1%	2,370	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	1.4%	2.2%	599	Oil Filters	0.0%	0.0%	0
Other Untreated Wood	0.0%	0.0%	3	Explosives	0.0%	0.0%	0
Wood By-Products	0.0%	0.0%	0	Medical Wastes	0.0%	0.0%	0
R/C Wood Debris	1.9%	2.2%	826	Pharmaceuticals/Vitamins	0.0%	0.0%	0
				Disposable Diapers	0.0%	0.0%	0
Construction Materials	56.0%		24,847	Other Cleaners & Soaps	0.0%	0.0%	0
Natural Wood	0.0%	0.0%	,e	Other Hazardous	0.0%	0.0%	0
Insulation	2.5%	2.1%	1,117	Other Non-hazardous	0.0%	0.0%	0
Asphalt Paving	4.0%	6.5%	1,765		0.070	0.070	0
Concrete			374	Residues	0.0%		0
	0.8%	1.4%				0.09/	
Drywall	10.7%	7.1%	4,729	Ash	0.0%	0.0%	0
Carpet	11.0%	7.7%	4,895	Dust	0.0%	0.0%	0
Carpet Padding	2.9%	2.4%	1,304	Fines	0.0%	0.0%	0
Soil, Rocks, Sand	1.3%	1.6%	586	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	17.1%	11.4%	7,563				
Plastic Flooring	0.7%	1.0%	327				
	0.0%	0.0%	6	Totals	100.0%		44,345
Ceramics & Brick	0.070						



Table 30: Central WGA Self-hauled Other Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	4.1%		3,778	Paper Products	3.5%		3,218
Newspaper Packaging	0.0%	0.0%	0	Newspaper	0.1%	0.1%	122
Cardboard/Kraft Paper Packaging	3.0%	1.7%	2,781	Cardboard/Kraft Paper Products	0.0%	0.0%	25
Other Groundwood Paper Packaging	0.0%	0.0%	7	Magazines	0.6%	0.6%	576
Mixed/Low Grade Paper Packaging	0.7%	0.6%	652	High-Grade Paper Products	0.6%	0.5%	533
Compostable Paper Packaging	0.2%	0.2%	183	Other Groundwood Paper Products	0.2%	0.2%	143
R/C Paper Packaging	0.2%	0.2%	156	Mixed Low Grade Paper Products	1.0%	1.4%	955
Plactic Backaging	1.7%		1,561	Compostable Paper Products	0.4% 0.0%	0.4% 0.0%	329 0
Plastic Packaging #1 PETE Plastic Bottles	0.2%	0.2%	186	Paper Processing Sludge R/C Paper Products	0.6%	0.6%	534
#1 PETE Plastic Bottles #1 PETE Plastic Non-bottles	0.2%	0.2%	28	R/C Paper Floudels	0.0%	0.0%	554
#2 HDPE Plastic Natural Bottles	0.0%	0.0%	20 42	Plastic Products	4.1%		3,755
#2 HDPE Plastic Colored Bottles	0.0%	0.0%	42 64	#1 PETE Plastic Products	0.0%	0.0%	3,735
#2 HDPE Plastic Colored Bottles #2 HDPE Plastic Jars & Tubs	0.1%	0.1%	391	#2 HDPE Plastic Products	0.0%	0.0%	23
#3 PVC Plastic Packaging	0.4%	0.0%	2	#3 PVC Plastic Products	0.0%	0.0%	23 6
#4 LDPE Plastic Packaging	0.0%	0.1%	39	#4 LDPE Plastic Products	0.0%	0.2%	94
#5 PP Plastic Packaging	0.0%	0.1%	114	#5 PP Plastic Products	0.0%	0.2%	25
#6 PS Plastic Packaging	0.1%	0.1%	116	#6 PS Plastic Products	0.0%	0.1%	45
#7 Other Plastic Packaging	0.1%	0.1%	249	#7 Other Plastic Products	1.3%	1.1%	1.176
PLA Packaging	0.3%	0.2%	249	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.0%	0.0%	71	Plastic Garbage Bags	0.0%	0.1%	133
	0.1%	0.0%	90	Plastic Film Products	0.1%	0.1%	55
Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic	0.1%	0.1%	90 75	R/C Plastic Products	2.4%	1.6%	55 2,199
R/C Plastic Packaging	0.1%	0.1%	75 94	NO FIGUE FIULUUS	2.470	1.0 /0	2,199
NO FIASUL FACKAYILY	U. 170	0.270	94	Consumer Products	25.0%		22,897
Glass	3.9%		3,535	Televisions - CRT	23.0% 3.9%	6.4%	3,616
Clear Glass Containers	3.9 % 1.1%	0.9%	1,009	Televisions - LCD	0.0%	0.4%	3,010
Green Glass Containers	0.0%	0.9%	22	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.6%	0.5%	545	Computer Monitors - CRT	0.7%	1.1%	644
Plate Glass	0.0%	0.0%	3	Computer Monitors - LCD	0.0%	0.0%	044
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	25	Computers	0.0%	0.0%	0
R/C Glass	2.1%	2.2%	1,931	Computer Peripherals	0.3%	0.0%	271
R/C Glass	2.1%	2.2%	1,931	Audio Equipment	0.3%	0.4%	172
Metal	5.3%		4,852	Gaming Equipment	0.2 %	0.3%	0
Aluminum Beverage Cans	0.2%	0.2%	4,652 209		0.3%	0.0%	238
5	0.2%	0.2%	209	Other Consumer Electronics			
Aluminum Foil/Containers Other Aluminum	0.0%	0.0%	14	Textiles - Organic	3.3% 1.7%	2.6% 1.3%	3,009 1,519
Other Nonferrous	0.2%	0.3%	236	Textiles - Synthetic Shoes, Purses, Belts	0.5%	0.7%	452
Food Cans - Tinned	0.3%	0.3%	139	Tires & Rubber	0.5%	0.7%	432
Food Cans - Tinned Food Cans - Coated	0.2%	0.1%	139	Furniture	0.5% 10.2%	0.5% 7.6%	484 9,322
			0				
White Goods	0.0%	0.0%		Mattresses	0.3%	0.5%	263
Other Ferrous Metal	1.9%	1.1%	1,780	R/C Consumer Products	3.2%	4.7%	2,907
R/C Metals	2.5%	1.5%	2,317	Hazardaua/Spacial Wester	1.4%		1,261
Organica	28.2%		25 945	Hazardous/Special Wastes Pesticides/Herbicides	0.0%	0.0%	1,201
Organics	20.2% 1.5%	1.4%	25,815 1,372		0.0%	0.0%	0
Food - Vegetative Food - Non-vegetative	0.9%	0.8%	815	Mercury Vapor Lighting Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	14.8%	10.7%	13,590	Fluorescent Tubes	0.0%	0.0%	0
	4.8%	6.1%	4,397	Asbestos	0.0%	0.0%	0
Prunings Animal Manure	4.8%	1.1%	4,397	Latex Paint	0.0%		708
			649 0			1.3%	
Animal Carcasses	0.0% 0.0%	0.0% 0.0%	0	Solvent-based Glues Latex-based Glues	0.0% 0.1%	0.0% 0.1%	6 70
Crop Residues Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.1%	0.1%	70 76
R/C Organics	0.0% 5.4%	0.0% 8.8%	4,992	Caustic Cleaners	0.1%	0.1%	76 0
INO Olyanica	0.470	0.070	4,992	Dry-cell Batteries	0.0%	0.0%	5
Wood Debris	15.8%		14,515	Wet-cell Batteries	0.0%	0.0%	5 0
Treated Wood	15.8%	3.1%	14,515	Gasoline/Kerosene	0.0%	0.0%	0
	= 00/	= 00/	0.070	N O''			
Painted Wood	7.3%	5.6%	6,672	Motor Oil Aptifração	0.0%	0.0%	0
Dimensional Lumber	0.4%	0.3%	362	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.5%	0.7%	428	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates Other Untreated Wood	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	0
	0.8%	1.2%	724	Explosives	0.0%	0.0%	0
Wood By-Products	0.0%	0.0%	12	Medical Wastes	0.0%	0.0%	0
R/C Wood Debris	5.0%	4.2%	4,615	Pharmaceuticals/Vitamins	0.0%	0.0%	0
Construction Motoric's	7.0%		6 464	Disposable Diapers	0.1%	0.1%	119
Construction Materials	7.0%	0.00/	6,461	Other Cleaners & Soaps	0.2%	0.2%	201
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.0%	0.1%	33
Insulation	0.2%	0.3%	155	Other Non-hazardous	0.0%	0.1%	44
Asphalt Paving	0.0%	0.0%	0	Pasiduas	0.00/		~~
Concrete	0.5%	0.5%	417	Residues	0.0%	0.001	28
Drywall	0.0%	0.0%	0	Ash	0.0%	0.0%	0
Carpet	0.9%	1.1%	865	Dust	0.0%	0.0%	0
Carpet Padding	0.9%	1.4%	781	Fines	0.0%	0.0%	28
Soil, Rocks, Sand	0.0%	0.0%	0	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.0%	0.0%	0				
Plastic Flooring	0.1%	0.1%	69				···
Ceramics & Brick R/C Construction Materials	0.8%	0.9%	736	Totals	100.0%		91,675
	3.8%	4.1%	3,438	Sample Count	23		



East Waste Generation Area Composition Tables



Table 31: East WGA Overall Disposed Waste Stream Detailed Composition, 2009

Est. Est. Est. Material Percent + / - Tons Material Percent Paper Packaging 10.9% -73,765 Paper Products 11.9% Newspaper Packaging 0.1% 0.1% 33 Magazines 0.1% Cardboard/Kraft Paper Packaging 2.8% 0.4% 9.340 Other Groundwood Paper Products 0.1% Compostable Paper Packaging 1.3% 0.4% 9.340 Other Groundwood Paper Products 1.8% Compostable Paper Packaging 1.0% 0.6% 7.605 Mixed Low Grade Paper Products 2.7% PleTEr Plastic Dattes 0.3% 0.0% 1.889 Paper Products 3.1% Platter Pastic Carekaging 0.3% 0.0% 1.889 Paper Products 3.7% #1 PETE Plastic Carekaging 0.3% 0.0% 1.889 Paper Products 0.0% #2 HDPEr Plastic Packaging 0.0% 1.689 Paper Products 0.0% 1.1% #2 HDPE Plastic Packaging 0.0% 1.689 Paper Products	+/- 0.3% 0.2% 0.8% 1.2% 0.2% 0.5% 0.2% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0	Est. Tons 87,466 12,401 754 12,492 11,969 3,082 19,958 23,127 0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216 0 0
Newspaper Packaging 0.1% 0.1% 635 Newspaper 1.7% Cardboard/Kraft Paper Packaging 0.2% 0.1% 1.336 Magazines 1.7% Other Groundwood Paper Packaging 0.2% 0.1% 1.338 Magazines 1.7% Mixed/Low Grade Paper Packaging 1.3% 0.4% 20.71 High-Grade Paper Products 0.4% R/C Paper Packaging 1.0% 0.6% 7.605 Mixed Low Grade Paper Products 2.7% Plastic Packaging 7.0% 51.688 Paper Products 3.1% Plastic Packaging 7.0% 51.688 Paper Products 0.7% #1 PETE Plastic Colored Bottles 0.3% 0.0% 2.288 #10PET Plastic Porducts 0.7% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.09 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Packaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #2 HDPE Plastic Packaging 0.7% 0.2% 5.00 #DE Plastic Products 0.0% #4 LDPE Pl	0.2% 0.8% 1.2% 0.2% 0.6% 0.5% 0.2% 0.2% 0.2% 0.0% 0.0% 0.0% 0.0% 0.3% 0.3% 0.2% 0.1%	12,401 754 12,492 11,969 3,082 23,127 0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
Cardboard/Krist Paper Packaging 4.6% 1.0% 34.135 Cardboard/Krist Paper Packaging 0.2% 0.1% Mixed/Low Grade Paper Packaging 2.8% 0.4% 20.711 High-Grade Paper Packaging 1.3% R/C Paper Packaging 1.3% 0.4% 9.340 Other Groundwood Paper Products 0.4% R/C Paper Packaging 1.0% 0.6% 7.0% Sines 2.7% Plastic Packaging 7.0% 51.689 Paper Products 3.1% Plastic Packaging 7.0% 51.689 Paper Products 0.5% #1 PETE Plastic Nothotties 0.3% 0.0% 1.859 Plastic Paper Products 0.7% #2 HDPE Plastic Colored Bottles 0.3% 0.0% 1.860 #2 HDPE Plastic Products 0.0% #3 PVC Paper Dackaging 0.0% 0.1% 1.860 #2 HDPE Plastic Products 0.0% #3 PVC Paper Dackaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #4 DPE Plastic Packaging 0.7% 0.2% 5.009 #7 Other Plastic Products 0.	0.2% 0.8% 1.2% 0.2% 0.6% 0.5% 0.2% 0.2% 0.2% 0.0% 0.0% 0.0% 0.0% 0.3% 0.3% 0.2% 0.1%	754 12,492 11,969 3,082 19,958 23,127 0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
Other Groundwood Paper Packaging 0.2% 0.1% 1.339 Magazines 1.7% Mixed/Low Grade Paper Packaging 1.3% 0.4% 20.711 High-Grade Paper Products 0.4% R/C Paper Packaging 1.0% 0.6% 7.605 Other Groundwood Paper Products 2.7% Plastic Packaging 7.0% 51,689 Paper Processing Sludge 0.0% #1 PETE Plastic Bottles 0.3% 0.0% 2.258 Paper Products 3.7% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Packaging 0.0% 0.0% 143 #4 LDPE Plastic Products 0.0% #3 PVC Plastic Packaging 0.0% 0.0% 143 #4 LDPE Plastic Products 0.0% #4 DPE Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #7 Other Plastic Packaging 0.7% 0.2% 5.369 Plastic Brotoducts<	0.8% 1.2% 0.5% 0.5% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.3% 0.3% 0.1%	12,492 11,969 3,082 19,958 23,127 0 33 6 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
Mixed/Low Grade Paper Packaging 2.8% 0.4% 20.711 High-Grade Paper Products 1.6% Compositable Paper Packaging 1.0% 0.6% 7.605 Mixed Low Grade Paper Products 2.7% Plastic Packaging 7.0% 51,689 Paper Products 2.7% Plastic Packaging 7.0% 51,689 Paper Products 0.7% #1 PETE Plastic Bottles 0.3% 0.0% 1.859 Paper Products 0.7% #2 HDPE Plastic Norbottles 0.3% 0.0% 1.859 Plastic Products 0.7% #2 HDPE Plastic Colored Bottles 0.3% 0.1% 1.860 #2 HDPE Plastic Packaging 0.0% 0.37% #3 PVC Plastic Packaging 0.0% 0.0% 1.43 #2 HDPE Plastic Packaging 0.0% #5 PP Plastic Packaging 0.4% 0.1% 3.44 #4 DPE Plastic Packaging 0.0% #5 PP Plastic Packaging 0.0% 0.1% 3.44 #4 DPE Plastic Packaging 0.0% #5 PP Plastic Packaging 0.0% 0.1% 3.483 #7 Other Plastic Packaging <t< td=""><td>1.2% 0.2% 0.5% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0% 0.3% 0.3% 0.1%</td><td>11,969 3,082 19,958 23,127 0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216</td></t<>	1.2% 0.2% 0.5% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0% 0.3% 0.3% 0.1%	11,969 3,082 19,958 23,127 0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
Compositable Paper Packaging 1.3% 0.4% 9.340 Other Groundwood Paper Products 2.4% Plastic Packaging 7.0% 51,689 Paper Products 2.7% Plastic Packaging 7.0% 51,689 Paper Products 2.7% W1 PETE Plastic Non-bottles 0.3% 0.0% 2.288 0.5% 0.7% 2.7% W2 HOPE Plastic Colored Bottles 0.4% 0.1% 3.699 Plastic Products 0.7% W2 HOPE Plastic Colored Bottles 0.4% 0.1% 3.69 #1 PETE Plastic Products 0.7% W2 HOPE Plastic Colored Bottles 0.4% 0.1% 3.69 #1 PETE Plastic Products 0.7% W2 HOPE Plastic Colored Bottles 0.4% 0.1% 3.184 #1 PETE Plastic Products 0.0% #1 DETE Plastic Packaging 0.0% 0.0% 60 #3 PUC Plastic Products 0.0% #2 HOPE Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #2 HOPE Plastic Packaging 0.5% 0.1% 3.483 #1 DETE Plastic Products <	0.2% 0.6% 0.5% 0.0% 0.2% 0.2% 0.0% 0.0% 0.0% 0.0% 0.2% 0.1%	3,082 19,958 23,127 0 3,682 27,070 33 1,068 85 6 254 4 355 8,629 0 9,201 2,208 5,230 50,065 3,216
R/C Paper Packaging 1.0% 0.6% 7,605 Mixed Low Grade Paper Products 2.7% Plastic Packaging 7.0% 51,689 Paper Processing Sludge 0.0% #1 PETE Plastic Bottles 0.3% 0.0% 2.288 #2 HOPE Plastic Natural Bottles 0.3% 0.0% 2.288 #2 HOPE Plastic Natural Bottles 0.3% 0.1% 1.869 #2 HOPE Plastic Core Bottles 0.3% 0.1% 1.860 #2 HOPE Plastic Packaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #3 PVC Plastic Packaging 0.0% 0.0% 164 #4 LDPE Plastic Packaging 0.7% 0.2% 5.009 #F PS Plastic Products 0.0% #4 DPE Plastic Packaging 0.7% 0.2% 5.09 #7 Other Plastic Packaging 0.0% 1.2% PS Plastic Products 0.0% #6 PS Plastic Packaging 0.7% 0.2% 1.346 Plastic Parchage Bags 1.3% PLA Packaging 0.7% 0.3% 1.346 Plastic Farchage Bags 1.3% Ron-industr	0.6% 0.5% 0.2% 0.2% 0.0% 0.0% 0.0% 0.0% 0.3% 0.0% 0.2% 0.1% 0.3%	19,958 23,127 0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
Plastic Packaging 7.0% 51,689 Paper Products 3.1% #1 PETE Plastic Bottles 0.8% 0.1% 5,986 R/C Paper Products 0.5% #1 PETE Plastic Non-bottles 0.3% 0.0% 2.268 Plastic Pactonics 0.5% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Carbaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #4 LDPE Plastic Packaging 0.7% 0.2% 5.00 #6 PS Plastic Products 0.0% #4 DPE Plastic Packaging 0.7% 0.2% 5.00 #6 PS Plastic Products 0.0% #7 Other Plastic Packaging 0.7% 0.2% 5.00 #6 PS Plastic Products 0.3% Plast Rechanding Plastic Products 0.3% 0.1% 3.488 #5 PP Plastic Products 0.3% RC Plastic Packaging 0.7% 0.3% 0.3% 3.988 R/C Plastic P	0.5% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.3% 0.2% 0.1% 0.3%	23,127 0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
Plastic Packaging 7.0% 51,689 Paper Products 0.0% #1 PETE Plastic Non-bottles 0.3% 0.0% 2,258 0.7% 3.7% #2 HDPE Plastic Non-bottles 0.3% 0.0% 1.869 Plastic Products 0.0% #2 HDPE Plastic Colrode Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Packaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #3 PVC Plastic Packaging 0.0% 0.0% 143 #4 LDPE Plastic Products 0.0% #5 PP Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #6 PS Plastic Packaging 0.5% 0.1% 3.484 #7 Other Plastic Products 0.0% Non-industrial Packaging Film Plastic 0.5% 0.1% 3.483 #7 Other Plastic Products 0.3% Non-industrial Packaging Film Plastic 0.5% 0.1% 3.484 #10 PETE Plastic Products 0.3% R/C Plastic Packaging Film Plastic 0.5% 0.3% 3.986 R/C Plastic Produ	0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0% 0.3% 0.1% 0.3% 0.4% 0.0% 0.1%	0 3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 5,230 5,0,065 3,216
#1 PETE Plastic Bottles 0.8% 0.1% 5.986 R/C Paper Products 0.5% #1 PETE Plastic Non-bottles 0.3% 0.0% 2.258 Plastic Products 0.7% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.1% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.1% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Cackaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #4 LDPE Plastic Packaging 0.4% 0.1% 3.184 #5 PP Plastic Products 0.0% #7 Other Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% PLA Packaging 0.0% 0.1% 3.483 #7 Other Plastic Products 0.2% Plastic Merchandise Bags 0.6% 0.3% 3.988 R/C Plastic Products 0.3% R/C Plastic Packaging Film Plastic 0.5% 0.3% 3.030	0.2% 0.0% 0.0% 0.0% 0.0% 0.3% 0.2% 0.1% 0.3% 0.2% 0.4% 0.0% 0.1%	3,682 27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#1 PETE Plastic Non-bottles 0.3% 0.0% 2,258 #2 HDPE Plastic Catural Bottles 0.3% 0.0% 1.859 Plastic Products 3.7% #2 HDPE Plastic Clored Bottles 0.4% 0.1% 1.809 #1 PETE Plastic Products 0.1% #3 PVC Plastic Packaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #5 PP Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #6 PS Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #7 Other Plastic Packaging 0.5% 0.1% 3.483 #7 Other Plastic Products 0.0% #1 Plastic Acaging 0.5% 0.1% 3.483 #7 Other Plastic Products 0.3% Non-industrial Packaging Film Plastic 0.5% 0.3% 3.988 R/C Plastic Products 0.3% R/C Plastic Packaging 0.7% 0.2% 11.346 Plastic Products 0.3% R/C Plastic Packaging 0.7% 0.3% 0.988 Consumer Products 6.8%	0.0% 0.2% 0.0% 0.0% 0.3% 0.2% 0.1% 0.3% 0.4% 0.0% 0.1%	27,070 33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#2 HDPE Plastic Natural Bottles 0.3% 0.0% 1.859 Plastic Products 3.7% #2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #3 PVC Plastic Packaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #4 LDPE Plastic Packaging 0.0% 0.0% 60 #4 DVC Plastic Products 0.0% #6 PS Plastic Packaging 0.4% 0.1% 3.184 #5 PP Plastic Products 0.0% #7 Other Plastic Packaging 0.5% 0.1% 3.483 #7 Other Plastic Products 0.0% #7 Other Plastic Packaging 0.5% 0.1% 3.483 #7 Other Plastic Products 0.0% Plastic Merchandise Bags 0.6% 0.1% 4.113 Plastic Frackaging 0.3% Non-industrial Packaging Film Plastic 0.5% 0.3% 3.988 RC Plastic Products 0.3% R/C Plastic Packaging 0.7% 0.3% 5.366 Televisions - CRT 0.4% R/C Plastic Packaging 0.7% 0.3% 0.2% 3.16	0.2% 0.0% 0.0% 0.0% 0.3% 0.2% 0.3% 0.3% 0.3%	33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#2 HDPE Plastic Colored Bottles 0.4% 0.1% 3.039 #1 PETE Plastic Products 0.0% #2 HDPE Plastic Colored Bottles 0.3% 0.1% 1.860 #2 HDPE Plastic Products 0.1% #3 PVC Plastic Packaging 0.0% 0.0% 60 #4 LDPE Plastic Products 0.0% #5 PP Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #6 PS Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #7 Other Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% PLA Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% Non-industrial Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% Industrial Packaging 0.7% 0.3% 3.988 #7 Other Plastic Products 0.3% Industrial Packaging 0.7% 0.3% 3.988 R/C Plastic Products 0.7% R/C Plastic Packaging 0.7% 0.3% 3.988 R/C Plastic Products 0.7% R/C Plastic Packaging 0.7% 0.3% </td <td>0.2% 0.0% 0.0% 0.0% 0.3% 0.2% 0.3% 0.3% 0.3%</td> <td>33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216</td>	0.2% 0.0% 0.0% 0.0% 0.3% 0.2% 0.3% 0.3% 0.3%	33 1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#2 HDPE Plastic Jars & Tubs 0.3% 0.1% 1,860 #2 HDPE Plastic Products 0.1% #4 LDPE Plastic Packaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #4 LDPE Plastic Packaging 0.0% 0.0% 14 HDPE Plastic Products 0.0% #6 PS Plastic Packaging 0.4% 0.1% 3,184 #F PP Plastic Products 0.0% #7 Other Plastic Packaging 0.5% 0.1% 3,483 #7 Other Plastic Products 0.0% PLA Packaging 0.0% 0.0% 3 PLA Products 0.0% Plastic Merchandice Bags 0.6% 0.1% 4,115 Plastic Products 0.3% Non-industrial Packaging 0.7% 0.9% 5,365 0.7% 0.9% Glass Containers 0.8% 0.1% 5,805 Televisions - LCD 0.0% Glass Containers 0.4% 0.2% 3,030 VCRs, DVD's, DVR's 0.0% Brown Glass Containers 0.4% 0.1% 701 Computer Monitors - LCD 0.0%	0.2% 0.0% 0.0% 0.0% 0.3% 0.2% 0.3% 0.3% 0.3%	1,068 85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#3 PVC Plastic Packaging 0.0% 0.0% 60 #3 PVC Plastic Products 0.0% #4 LDPE Plastic Packaging 0.0% 0.0% 143 #4 LDPE Plastic Products 0.0% #5 PP Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #7 Other Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% #7 Other Plastic Packaging 0.7% 0.2% 5.009 #6 PS Plastic Products 0.0% PLA Packaging 0.7% 0.2% 5.009 #7 Other Plastic Products 0.0% Non-industrial Packaging Film Plastic 0.6% 0.1% 4,115 Plastic Film Products 0.3% Non-industrial Packaging Film Plastic 0.5% 0.3% 3.988 R/C Plastic Products 0.3% R/C Plastic Packaging 0.7% 0.3% 3.988 R/C Plastic Products 0.3% R/C Plastic Packaging 0.7% 0.3% 3.988 R/C Plastic Products 0.3% Glass Containers 0.8% 0.1% 5.366 <t< td=""><td>0.0% 0.0% 0.0% 0.3% 0.2% 0.1% 0.3%</td><td>85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216</td></t<>	0.0% 0.0% 0.0% 0.3% 0.2% 0.1% 0.3%	85 6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#4 LDPE Plastic Packaging 0.0% 0.0% 143 #4 LDPE Plastic Products 0.0% #5 PP Plastic Packaging 0.4% 0.1% 3,184 #5 PP Plastic Products 0.0% #6 PS Plastic Packaging 0.7% 0.2% 5,009 #6 PS Plastic Products 0.2% PLA Packaging 0.5% 0.1% 3,483 #7 Other Plastic Products 1.2% PLA Packaging 0.0% 0.0% 4,115 Plastic Carbage Bags 1.3% Non-industrial Packaging Film Plastic 1.5% 0.2% 11,346 Plastic Froducts 0.3% Industrial Packaging Film Plastic 0.5% 0.3% 3,988 R/C Plastic Products 0.3% Industrial Packaging Film Plastic 0.5% 0.3% 3,988 R/C Plastic Products 0.3% R/C Plastic Packaging 0.7% 0.9% 5,356 Consumer Products 0.4% Glass Cottainers 0.4% 0.1% 5,805 Televisions - CRT 0.4% Glass Cottainers 0.4% 0.1% 0.2% 1,122	0.0% 0.0% 0.3% 0.2% 0.1% 0.3% 0.4% 0.0% 0.0% 0.1%	6 254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#5 PP Plastic Packaging 0.4% 0.1% 3,184 #5 PP Plastic Products 0.0% #6 PS Plastic Packaging 0.7% 0.2% 5,009 #6 PS Plastic Products 0.0% PLA Packaging 0.5% 0.1% 3,484 #7 Other Plastic Packaging 0.0% PLA Packaging 0.0% 0.0% 3 PLA Products 0.0% Plastic Marchadise Bags 0.6% 0.1% 4,115 Plastic Garbage Bags 1.3% Non-industrial Packaging Film Plastic 1.5% 0.2% 11,346 Plastic Film Products 0.3% R/C Plastic Packaging 0.7% 0.9% 5,356 0.7% 0.7% Glass 2.3% 16,670 Televisions - CRT 0.4% Clear Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Monitors - LCD 0.0% Aluminum Beverage Cans	0.0% 0.0% 0.3% 0.2% 0.1% 0.3% 0.4% 0.0% 0.0% 0.1%	254 355 8,629 0 9,201 2,208 5,230 50,065 3,216
#6 PS Plastic Packaging 0.7% 0.2% 5,009 #6 PS Plastic Products 0.0% #7 Other Plastic Packaging 0.5% 0.1% 3,483 #7 Other Plastic Products 1.2% PLA Packaging 0.0% 0.0% 3 PLA Products 0.3% Plastic Merchandise Bags 0.6% 0.1% 4,115 Plastic Garbage Bags 1.3% Non-industrial Packaging Film Plastic 0.5% 0.3% 3,988 R/C Plastic Products 0.3% Industrial Packaging 0.7% 0.9% 5,356 Consumer Products 6.8% Glass 2.3% 16,670 Televisions - CRT 0.4% Clear Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.4% 0.2% 4,162 Computer Monitors - CRT 0.0% Plate Glass 0.1% 0.1% 701 Computer Monitors - CRT 0.0% Aluminum Beverage Cans 0.4% 0.1% 3.085 Other Consumer Electronics 0.3% Aluminum Foil/Con	0.0% 0.3% 0.2% 0.1% 0.3% 0.4% 0.0% 0.0% 0.1%	355 8,629 0 9,201 2,208 5,230 50,065 3,216
#7 Other Plastic Packaging 0.5% 0.1% 3,483 #7 Other Plastic Products 1.2% PLA Packaging 0.0% 0.0% 3 PLA Products 0.0% Plastic Merchandise Bags 0.6% 0.1% 4,115 Plastic Garbage Bags 1.3% Non-industrial Packaging Film Plastic 1.5% 0.2% 11,346 Plastic Froducts 0.3% Industrial Packaging 0.7% 0.3% 3,988 R/C Plastic Products 0.3% R/C Plastic Packaging 0.7% 0.9% 5,565 Consumer Products 6.8% Glass 0.1% 0.1% 5,805 Televisions - LCD 0.0% Green Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - LCD 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Sontainers 0.1% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Other Aluminum Fol/Containers 0.1% 0.1% 0.0% 9	0.3% 0.0% 0.2% 0.1% 0.3% 0.4% 0.0% 0.0% 0.1%	8,629 0 9,201 2,208 5,230 50,065 3,216
PLA Packaging 0.0% 0.0% 3 PLA Products 0.0% Plastic Merchandise Bags 0.6% 0.1% 4,115 Plastic Garbage Bags 1.3% Non-industrial Packaging Film Plastic 1.5% 0.2% 11,346 Plastic Film Products 0.3% Industrial Packaging Film Plastic 0.5% 0.3% 3,988 R/C Plastic Products 0.7% R/C Plastic Packaging 0.7% 0.9% 5,356 0.7% 0.7% Glass Containers 0.8% 0.1% 5,805 0.7% 0.4% Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 701 Computer Monitors - LCD 0.0% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% </td <td>0.0% 0.2% 0.1% 0.3% 0.4% 0.0% 0.0% 0.1%</td> <td>0 9,201 2,208 5,230 50,065 3,216</td>	0.0% 0.2% 0.1% 0.3% 0.4% 0.0% 0.0% 0.1%	0 9,201 2,208 5,230 50,065 3,216
Plastic Merchandise Bags 0.6% 0.1% 4,115 Plastic Garbage Bags 1.3% Non-industrial Packaging Film Plastic 1.5% 0.2% 11,346 Plastic Film Products 0.3% Industrial Packaging Film Plastic 0.5% 0.3% 3,988 R/C Plastic Products 0.7% R/C Plastic Packaging 0.7% 0.9% 5,356 Consumer Products 6.8% Glass Containers 0.8% 0.1% 5,805 Televisions - LCD 0.0% Green Glass Containers 0.6% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Monitors - LCD 0.0% Aluminum Beverage Cans 0.4% 0.1% 0.1% 800 Computer Monitors - LCD 0.0% Aluminum Foil/Containers 0.1% 0.1% 800 Computer Monitors - 0CT 0.0% Other Aluminum 6.9% 50,608 Gaming E	0.2% 0.1% 0.3% 0.4% 0.0% 0.0% 0.1%	9,201 2,208 5,230 50,065 3,216
Non-industrial Packaging Film Plastic 1.5% 0.2% 11,346 Plastic Film Products 0.3% Industrial Packaging Film Plastic 0.5% 0.3% 3,988 RC Plastic Products 0.7% R/C Plastic Packaging 0.7% 0.9% 5,356 0.7% 0.9% Glass 2.3% 16,670 Televisions - CRT 0.4% Glass Containers 0.8% 0.1% 5,805 Televisions - LCD 0.0% Green Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 701 Computer Monitors - CRT 0.0% Aluminum Beverage Cans 0.4% 0.1% 800 Computer Monitors - CRT 0.0% Aluminum Foil/Containers 0.1% 0.1% 800 Computer Monitors - CRT 0.0% Aluminum Foil/Containers 0.1% 0.1% 3,085 Other Consumer Electronics 0.3% O	0.1% 0.3% 0.4% 0.0% 0.0% 0.1%	2,208 5,230 50,065 3,216
Industrial Packaging 0.5% 0.3% 3,988 R/C Plastic Products 0.7% R/C Plastic Packaging 0.7% 0.9% 5,365 Consumer Products 6.8% Glass 2.3% 16,670 Televisions - CRT 0.4% Clear Glass Containers 0.8% 0.1% 5,805 Televisions - CRT 0.4% Brown Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Brown Glass Containers 0.1% 0.1% 701 Computer Monitors - CRT 0.0% Brown Glass Containers 0.1% 0.1% 800 Computer Monitors - CRT 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Peripherals 0.1% Aduminum Beverage Cans 0.4% 0.1% 8005 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Synthetic 0.9% Other	0.3% 0.4% 0.0% 0.0% 0.1%	5,230 50,065 3,216
R/C Plastic Packaging 0.7% 0.9% 5,356 Consumer Products Consumer Products 6.8% Glass 2.3% 16,670 Televisions - CRT 0.4% Clear Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVD's, DVR's 0.0% Brown Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Brown Glass Containers 0.1% 0.1% 800 Computer Monitors - LCD 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Peripherals 0.0% R/C Glass 0.3% 0.2% 2,172 Computer Peripherals 0.0% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Synthetic 0.9% Other Aluminum 0.1% 0.1% 50,608 Rubber 0.3%	0.4% 0.0% 0.0% 0.1%	50,065 3,216
Glass 2.3% 16,670 Televisions - CRT 0.4% Clear Glass Containers 0.8% 0.1% 5,805 Televisions - LCD 0.0% Green Glass Containers 0.4% 0.2% 3,030 VCR's, DV's, DV's, DV's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Plate Glass 0.1% 0.1% 701 Computer Monitors - LCD 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Monitors - LCD 0.0% R/C Glass 0.1% 0.1% 0.0% Computer Monitors - LCD 0.0% Metal 6.9% 0.2% 2,172 Computer Monitors - LCD 0.0% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Synthetic 0.9% Other Aluminum 0.1% 0.0% 755 Tires & Rubber 0.8% Food Cans - Tinned 0.7%	0.0% 0.0% 0.1%	3,216
Glass 2.3% 16,670 Televisions - CRT 0.4% Clear Glass Containers 0.8% 0.1% 5,805 Televisions - LCD 0.0% Green Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.4% 0.2% 4,162 Computer Monitors - CRT 0.0% Plate Glass 0.1% 0.1% 701 Computer Monitors - CRT 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Peripherals 0.0% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Aluminum 0.1% 0.1% 475 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Other Nonferrous 0.3% 0.2% 1.0% 6,459 Mattresses 0.1% Food Cans - Coated	0.0% 0.0% 0.1%	3,216
Clear Glass Containers 0.8% 0.1% 5,805 Televisions - LCD 0.0% Green Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Plate Glass 0.1% 0.1% 0.1% Computer Monitors - LCD 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Monitors - LCD 0.0% Aluminum Beverage Cans 0.3% 0.2% 2,172 Computer Peripherals 0.0% Aluminum Boverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.1% 3,085 Other Consumer Electronics 0.3% Other Aluminum 0.1% 0.1% 0.1% 50,608 Gaming Equipment 0.1% Other Aluminum 0.1% 0.1% 0.0% 916 Textiles - Synthetic 0.9% Other Aluminum 0.1% 0.2% 2,194 Shoes, Purses, Belts </td <td>0.0% 0.0% 0.1%</td> <td></td>	0.0% 0.0% 0.1%	
Green Glass Containers 0.4% 0.2% 3,030 VCR's, DVD's, DVR's 0.0% Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Plate Glass 0.1% 0.1% 701 Computer Monitors - LCD 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Monitors - LCD 0.0% R/C Glass 0.3% 0.2% 2,172 Computer Monitors - LCD 0.0% Metal 6.9% 50,608 Gaming Equipment 0.2% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Auminum 0.1% 0.0% 916 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1	0.0% 0.1%	
Brown Glass Containers 0.6% 0.2% 4,162 Computer Monitors - CRT 0.0% Plate Glass 0.1% 0.1% 701 Computer Monitors - LCD 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computer Monitors - LCD 0.0% R/C Glass 0.3% 0.2% 2,172 Computer Peripherals 0.0% Metal 6.9% 50,608 Gaming Equipment 0.1% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.1% 475 Textiles - Organic 0.9% Other Aluminum 0.1% 0.1% 475 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0%	0.1%	74
Plate Glass 0.1% 0.1% 701 Computer Monitors - LCD 0.0% Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computers 0.1% R/C Glass 0.3% 0.2% 2,172 Computer Peripherals 0.0% Audio Equipment 0.2% 2,172 Computer Peripherals 0.0% Metal 6.9% 50,608 Gaming Equipment 0.1% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Synthetic 0.9% Other Aluminum 0.1% 0.1% 0.1% 50,605 Tires & Rubber 0.8% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Coated 0.1% 0.1% 6,459 Mattresses 0.1% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Aluminum 2.6% 1.0% 18,859		312
Stoneware/Kitchen Ceramics/Glassware 0.1% 0.1% 800 Computers 0.1% 0.1% R/C Glass 0.3% 0.2% 2,172 Computer Peripherals 0.0% Metal 6.9% 50,608 Gaming Equipment 0.2% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Aluminum 0.1% 0.1% 0.1% 50,608 Gaming Equipment 0.3% Other Aluminum 0.1% 0.1% 0.1% 75 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Aluminum 2.6% 1.0% 18,859 R/C Consumer Products 2.2% R/C Metals 1.8%<		322
R/C Glass 0.3% 0.2% 2,172 Computer Peripherals Audio Equipment 0.0% Metal 6.9% 50,608 Gaming Equipment 0.2% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Auminum 0.1% 0.1% 475 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,509 R/C Consumer Products 2.7% Cheals 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 1.8% 57,364	0.1%	717
Metal 6.9% 50,608 Gaming Equipment 0.2% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Aluminum 0.1% 0.1% 475 Textiles - Organic 0.8% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.1% 6,459 Mattresses 0.1% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,890 R/C Consumer Products 2.2% R/C Metals 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Vegetative 7.8% 1.0% 57,364	0.0%	141
Metal 6.9% 50,608 Gaming Equipment 0.1% Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Aluminum 0.1% 0.1% 475 Textiles - Synthetic 0.9% Other Aluminum 0.1% 0.1% 50,608 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,859 R/C Consumer Products 0.2% R/C Metals 2.6% 1.0% 18,859 R/C Consumer Products 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Von-vegetative 3.8% 2.1%	0.0%	1,150
Aluminum Beverage Cans 0.4% 0.1% 3,085 Other Consumer Electronics 0.3% Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Aluminum 0.1% 0.1% 916 Textiles - Organic 0.8% Other Nonferrous 0.1% 0.1% 75 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Matresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,859 R/C Consumer Products 2.7% Ørganics 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0%	0.1%	371
Aluminum Foil/Containers 0.1% 0.0% 916 Textiles - Organic 0.8% Other Aluminum 0.1% 0.1% 475 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Matresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,859 R/C Consumer Products 0.2% R/C Metals 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 18,966 Pesticides/Herbicides 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.8% 2.1% 61,995 Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1%	0.1%	2,385
Other Aluminum 0.1% 0.1% 475 Textiles - Synthetic 0.9% Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,89 R/C Consumer Products 0.2% R/C Metals 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.2%	6,194
Other Nonferrous 0.3% 0.2% 2,194 Shoes, Purses, Belts 0.3% Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,859 R/C Consumer Products 0.2% R/C Metals 1.8% 0.8% 1902 The standous/Special Wastes 3.7% Organics 25.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.8% 2.1% 61,995 Fluorescent Tubes 0.0%	0.2%	6,940
Food Cans - Tinned 0.7% 0.1% 5,045 Tires & Rubber 0.8% Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,859 R/C Consumer Products 0.2% R/C Metals 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 189,406 Pesticides/Herbicides 0.0% 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.2%	1,966
Food Cans - Coated 0.1% 0.0% 675 Furniture 2.6% White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,859 R/C Consumer Products 0.2% R/C Metals 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 18,966 Pesticides/Herbicides 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.8% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.3%	5,587
White Goods 0.9% 1.0% 6,459 Mattresses 0.1% Other Ferrous Metal 2.6% 1.0% 18,859 R/C Consumer Products 0.2% R/C Metals 1.8% 0.8% 12002 1	1.3%	18,770
Other Ferrous Metal R/C Metals 2.6% 1.0% 18,859 R/C Consumer Products 0.2% Main Constraint 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 189,406 Pesticides/Herbicides 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.1%	397
R/C Metals 1.8% 0.8% 12,902 Hazardous/Special Wastes 3.7% Organics 25.8% 189,406 Pesticides/Herbicides 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.1%	1,524
Hazardous/Special Wastes 3.7% Organics 25.8% 189,406 Pesticides/Herbicides 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.170	1,024
Organics 25.8% 189,406 Pesticides/Herbicides 0.0% Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%		27,256
Food - Vegetative 7.8% 1.0% 57,364 Mercury Vapor Lighting 0.0% Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.0%	10
Food - Non-vegetative 3.0% 0.6% 22,355 Compact Fluorescent Lights 0.0% Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.0%	0
Leaves & Grass 8.4% 2.1% 61,995 Fluorescent Tubes 0.0%	0.0%	67
	0.0%	11
	0.0%	0
Animal Manure 2.8% 1.0% 20,344 Latex Paint 0.3%	0.3%	2,207
Animal Carcasses 1.7% 2.4% 12,196 Solvent-based Glues 0.1%	0.1%	411
Crop Residues 0.0% 0.0% 0 Latex-based Glues 0.0%	0.0%	6
Fruit Waste 0.0% 0.0% 0 Oil-based Paint & Solvent 0.2%	0.2%	1,261
R/C Organics 0.7% 0.4% 5,201 Caustic Cleaners 0.0%	0.0%	98
Dry-cell Batteries 0.0%	0.0%	331
Wood Debris 9.0% 66,179 Wet-cell Batteries 0.0%	0.0%	0
Treated Wood 0.3% 0.3% 2,550 Gasoline/Kerosene 0.0%	0.0%	0
Painted Wood 2.3% 0.8% 16,722 Motor Oil 0.0%	0.0%	133
Dimensional Lumber 1.8% 0.6% 13,204 Antifreeze 0.0%	0.0%	0
Engineered Wood 1.5% 0.5% 10,737 Other Vehicle Fluids 0.0%	0.0%	12
Pallets & Crates 1.7% 1.1% 12,715 Oil Filters 0.2%	0.1%	1,255
Other Untreated Wood 0.4% 0.3% 2,691 Explosives 0.0%	0.0%	7
Wood By-Products 0.1% 0.1% 959 Medical Wastes 0.6%	0.7%	4,149
R/C Wood Wastes 0.9% 0.6% 6,602 Pharmaceuticals/Vitamins 0.0%	0.0%	330
Disposable Diapers 2.0%	0.5%	14,926
Construction Materials 11.3% 83,239 Other Cleaners & Soaps 0.1%	0.0%	780
Natural Wood 0.2% 0.2% 1,611 Other Hazardous 0.1%	0.1%	812
Insulation 0.1% 0.1% 1,051 Other Non-hazardous 0.1%	0.0%	449
Asphalt Paving 0.0% 0.0% 0		
Concrete 1.0% 0.7% 7,185 Residues 1.5%		11,215
Drywall 1.9% 1.5% 13,966 Ash 0.0%		15
Carpet 2.3% 1.2% 16,807 Dust 0.1%	0.0%	632
Carpet Padding 0.3% 0.2% 2,360 Fines 1.0%	0.0% 0.0%	7,085
Soil, Rocks, Sand 1.8% 0.9% 13,498 Sludge/Special Industrial 0.5%		3,483
Asphalt Roofing 0.4% 0.5% 3,295	0.0%	
Plastic Flooring 0.1% 0.1% 733	0.0% 0.3%	0,400
Ceramics & Brick 0.8% 0.7% 5,664 Totals 100.0%	0.0% 0.3%	0,400
R/C Construction Materials 2.3% 1.1% 17,069 Sample Count 151	0.0% 0.3%	734,627



Table 32: East WGA Commercial Disposed WasteDetailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	12.4%		30,412	Paper Products	15.9%		39,135
Newspaper Packaging	0.1%	0.2%	252	Newspaper	1.8%	0.8%	4,309
Cardboard/Kraft Paper Packaging	6.0%	1.3%	14,833	Cardboard/Kraft Paper Products	0.3%	0.5%	753
Other Groundwood Paper Packaging	0.2%	0.1%	377	Magazines	2.5%	2.2%	6,194
Mixed/Low Grade Paper Packaging	2.2%	0.8%	5,450	High-Grade Paper Products	3.6%	3.5%	8,798
Compostable Paper Packaging	2.1%	1.1%	5,273	Other Groundwood Paper Products	0.2%	0.1%	378
R/C Paper Packaging	1.7%	1.7%	4,226	Mixed Low Grade Paper Products	3.4%	1.5%	8,301
			~~ ~~~	Compostable Paper Products	3.6%	1.0%	8,908
Plastic Packaging	9.3%	0.00/	22,999	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.9%	0.3%	2,211	R/C Paper Products	0.6%	0.3%	1,493
#1 PETE Plastic Non-bottles	0.3%	0.1%	733	Plastic Products	4.20/		40.070
#2 HDPE Plastic Natural Bottles	0.2%	0.1%	393		4.3%	0.09/	10,679
#2 HDPE Plastic Colored Bottles	0.4%	0.2% 0.2%	912 926	#1 PETE Plastic Products #2 HDPE Plastic Products	0.0%	0.0% 0.5%	19 951
#2 HDPE Plastic Jars & Tubs	0.4%		926 5	#2 FDPE Plastic Products #3 PVC Plastic Products	0.4%		21
#3 PVC Plastic Packaging #4 LDPE Plastic Packaging	0.0% 0.0%	0.0% 0.0%	э 41	#4 LDPE Plastic Products	0.0% 0.0%	0.0% 0.0%	21
		0.0%	1,206	#4 LDFE Flastic Floducts #5 PP Plastic Products	0.0%	0.0%	150
#5 PP Plastic Packaging	0.5%	0.5%	3,100	#6 PS Plastic Products	0.1%	0.1%	70
#6 PS Plastic Packaging	1.3% 0.4%	0.5%	3,100	#7 Other Plastic Products	0.0%	0.0%	2,176
#7 Other Plastic Packaging	0.4%	0.1%	950	PLA Products	0.9%	0.5%	2,176
PLA Packaging			951			0.0%	
Plastic Merchandise Bags	0.4%	0.1%		Plastic Garbage Bags	1.7%		4,110
Non-industrial Packaging Film Plastic	1.6%	0.5%	4,028	Plastic Film Products R/C Plastic Products	0.3%	0.2%	622
Industrial Packaging Film Plastic	1.2%	0.8%	2,978	R/C Plastic Products	1.0%	0.6%	2,560
R/C Plastic Packaging	1.9%	2.7%	4,564	Oran anna an Dao daoine	0.49/		44.000
Glass	2.1%		E 077	Consumer Products	6.1%	4.00/	14,928
Clear Glass Containers	2.1% 0.7%	0.2%	5,077	Televisions - CRT	0.6%	1.0% 0.0%	1,446
Green Glass Containers			1,841	Televisions - LCD	0.0%		0
	0.5%	0.3%	1,125	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.5%	0.3%	1,294	Computer Monitors - CRT	0.0%	0.0%	
Plate Glass	0.2%	0.3%	481	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	40	Computers	0.0%	0.0%	0
R/C Glass	0.1%	0.1%	294	Computer Peripherals	0.0%	0.1%	116
Martal	0.00/		04 007	Audio Equipment	0.1%	0.1%	157
Metal	8.6%	0.40/	21,227	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.3%	0.1%	820	Other Consumer Electronics	0.1%	0.1%	238
Aluminum Foil/Containers	0.1%	0.0%	254	Textiles - Organic	0.5%	0.3%	1,210
Other Aluminum	0.2%	0.2%	370	Textiles - Synthetic	0.7%	0.4%	1,666
Other Nonferrous	0.5%	0.7%	1,178	Shoes, Purses, Belts	0.3%	0.2%	622
Food Cans - Tinned	0.5%	0.3%	1,286	Tires & Rubber	0.9%	0.6%	2,115
Food Cans - Coated	0.0%	0.0%	92	Furniture	2.8%	2.9%	6,832
White Goods	0.0%	0.0%	22	Mattresses	0.0%	0.0%	0
Other Ferrous Metal	4.9%	2.8%	12,060	R/C Consumer Products	0.2%	0.2%	527
R/C Metals	2.1%	1.3%	5,146				
O	10.00/		45 070	Hazardous/Special Wastes	3.0%	0.00/	7,389
Organics	18.6%	0.5%	45,878	Pesticides/Herbicides	0.0%	0.0%	10
Food - Vegetative	8.8%	2.5%	21,560	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	4.1%	1.6%	10,136	Compact Fluorescent Lights	0.0%	0.0%	
Leaves & Grass	4.3%	2.6%	10,681	Fluorescent Tubes	0.0%	0.0%	11
Prunings	0.9%	1.4%	2,240	Asbestos	0.0%	0.0%	0
Animal Manure	0.3%	0.3% 0.0%	801 0	Latex Paint Solvent-based Glues	0.1%	0.2%	338 363
Animal Carcasses	0.0%		0		0.1%	0.2%	
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	6
Fruit Waste	0.0% 0.2%	0.0% 0.1%	460	Oil-based Paint & Solvent Caustic Cleaners	0.0% 0.0%	0.0% 0.0%	14 14
R/C Organics	0.2%	0.176	400		0.0%	0.0%	132
Wood Debris	6.0%		14,869	Dry-cell Batteries Wet-cell Batteries	0.1%	0.1%	0
		0.40/		Gasoline/Kerosene			0
Treated Wood	0.1%	0.1%	303		0.0%	0.0%	
Painted Wood	0.7%	0.4%	1,741	Motor Oil Aptifração	0.0%	0.0%	44
Dimensional Lumber	0.5%	0.3%	1,326 970	Antifreeze Other Vehicle Fluids	0.0%	0.0%	0
Engineered Wood	0.4%	0.4%		Other vehicle Fluids Oil Filters	0.0%	0.0%	0
Pallets & Crates	3.0%	2.8%	7,443 260		0.5%	0.4%	1,137 1
Other Untreated Wood	0.1%	0.1%		Explosives Medical Wastes	0.0%	0.0%	
Wood By-Products R/C Wood Debris	0.2% 0.9%	0.4% 1.0%	595 2,231	Pharmaceuticals/Vitamins	1.5% 0.0%	2.0% 0.0%	3,608 17
	0.9%	1.0 /0	2,231	Disposable Diapers	0.0%	0.0%	707
Construction Materials	13.1%		32,124	Other Cleaners & Soaps	0.3%	0.2%	155
Natural Wood	0.0%	0.0%	32,124 46	Other Hazardous	0.1%	0.0%	591
Insulation	0.0%	0.0%	40	Other Non-hazardous	0.2%	0.2%	240
Asphalt Paving	0.0%	0.0%	4		0.170	0.170	240
Concrete	1.8%	0.0% 2.1%	4,495	Residues	0.6%		1,442
Drywall	1.8%	2.1% 4.4%	4,495 7,357	Ash	0.6%	0.0%	
Carpet	3.0%	4.4% 2.4%	7,357 7,642	Dust	0.0%	0.0%	15 146
			1,137	Fines			
Carpet Padding	0.5%	0.5%			0.5%	0.3%	1,281
Soil, Rocks, Sand	0.3%	0.3%	705	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.0%	0.0%	13				
Plastic Flooring	0.1%	0.2%	277	Totala	400.00/		246 450
Ceramics & Brick	1.5%	2.0%	3,592	Totals Sample Count	100.0%		246,159
R/C Construction Materials	2.8%	2.3%	6,856	Sample Count	48		



Table 33: East WGA Residential Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	11.5%	••	37,241	Paper Products	13.9%	••	45,019
Newspaper Packaging	0.1%	0.2%	374	Newspaper	2.4%	0.4%	7,892
Cardboard/Kraft Paper Packaging	4.5%	1.9%	14,654	Cardboard/Kraft Paper Products	0.0%	0.0%	C
Other Groundwood Paper Packaging	0.3%	0.1%	924	Magazines	1.8%	0.7%	5,919
Mixed/Low Grade Paper Packaging	4.5%	0.7%	14,433	High-Grade Paper Products	0.8%	0.3%	2,582
Compostable Paper Packaging	1.2%	0.3%	3,916	Other Groundwood Paper Products	0.8%	0.3%	2,542
R/C Paper Packaging	0.9%	0.2%	2,941	Mixed Low Grade Paper Products	3.4%	0.6%	11,053
				Compostable Paper Products	4.1%	0.7%	13,198
Plastic Packaging	8.2%		26,417	Paper Processing Sludge	0.0%	0.0%	C
#1 PETE Plastic Bottles	1.1%	0.1%	3,653	R/C Paper Products	0.6%	0.3%	1,833
#1 PETE Plastic Non-bottles	0.4%	0.1%	1,450				
#2 HDPE Plastic Natural Bottles	0.4%	0.1%	1,432	Plastic Products	3.4%		11,011
#2 HDPE Plastic Colored Bottles	0.6%	0.1%	2,051	#1 PETE Plastic Products	0.0%	0.0%	14
#2 HDPE Plastic Jars & Tubs	0.2%	0.1%	727	#2 HDPE Plastic Products	0.0%	0.0%	(
#3 PVC Plastic Packaging	0.0%	0.0%	53	#3 PVC Plastic Products	0.0%	0.0%	18
#4 LDPE Plastic Packaging	0.0%	0.0%	82	#4 LDPE Plastic Products	0.0%	0.0%	(
#5 PP Plastic Packaging	0.6%	0.1%	1,842	#5 PP Plastic Products	0.0%	0.0%	53
#6 PS Plastic Packaging	0.5%	0.1%	1,691	#6 PS Plastic Products	0.1%	0.0%	196
#7 Other Plastic Packaging	0.7%	0.1%	2,362	#7 Other Plastic Products	0.9%	0.3%	2,958
PLA Packaging	0.0%	0.0%	3	PLA Products	0.0%	0.0%	C
Plastic Merchandise Bags	1.0%	0.1%	3,086	Plastic Garbage Bags	1.4%	0.2%	4,665
Non-industrial Packaging Film Plastic	2.2%	0.2%	7,016	Plastic Film Products	0.3%	0.1%	985
Industrial Packaging Film Plastic	0.2%	0.1%	495	R/C Plastic Products	0.7%	0.3%	2,121
R/C Plastic Packaging	0.1%	0.1%	475				
				Consumer Products	4.5%		14,52
Glass	3.1%		10,168	Televisions - CRT	0.1%	0.1%	268
Clear Glass Containers	1.1%	0.2%	3,659	Televisions - LCD	0.0%	0.0%	(
Green Glass Containers	0.6%	0.3%	1,899	VCR's, DVD's, DVR's	0.0%	0.0%	74
Brown Glass Containers	0.8%	0.2%	2,647	Computer Monitors - CRT	0.0%	0.0%	(
Plate Glass	0.0%	0.0%	139	Computer Monitors - LCD	0.1%	0.2%	322
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.1%	693	Computers	0.1%	0.2%	464
R/C Glass	0.3%	0.2%	1,132	Computer Peripherals	0.0%	0.0%	10
				Audio Equipment	0.2%	0.1%	511
Metal	5.3%		17,320	Gaming Equipment	0.1%	0.1%	298
Aluminum Beverage Cans	0.7%	0.1%	2,204	Other Consumer Electronics	0.4%	0.2%	1,162
Aluminum Foil/Containers	0.2%	0.0%	632	Textiles - Organic	1.3%	0.4%	4,187
Other Aluminum	0.0%	0.0%	88	Textiles - Synthetic	1.2%	0.3%	3,871
Other Nonferrous	0.2%	0.1%	752	Shoes, Purses, Belts	0.3%	0.1%	1,048
Food Cans - Tinned	1.1%	0.2%	3,599	Tires & Rubber	0.5%	0.4%	1,564
Food Cans - Coated	0.2%	0.1%	550	Furniture	0.0%	0.1%	145
White Goods	1.2%	2.0%	3,930	Mattresses	0.0%	0.0%	(
Other Ferrous Metal	0.9%	0.4%	2,922	R/C Consumer Products	0.2%	0.2%	597
R/C Metals	0.8%	0.3%	2,643	NO Consumer Froducts	0.2 /0	0.270	551
TVO Metals	0.070	0.070	2,040	Hazardous/Special Wastes	5.0%		16,062
Organics	37.7%		122,298	Pesticides/Herbicides	0.0%	0.0%	10,001
Food - Vegetative	10.2%	1.2%	33,107	Mercury Vapor Lighting	0.0%	0.0%	(
Food - Non-vegetative	3.5%	0.5%	11,255	Compact Fluorescent Lights	0.0%	0.0%	65
Leaves & Grass	14.5%	4.2%	47,117	Fluorescent Tubes	0.0%	0.0%	(
						0.0%	(
Prunings	2.3%	1.7%	7,375	Asbestos	0.0%		
Animal Manure	5.9%	2.3%	19,045	Latex Paint	0.1%	0.1%	470
Animal Carcasses	0.1%	0.1%	163	Solvent-based Glues	0.0%	0.0%	39
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	(
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.1%	0.0%	162
R/C Organics	1.3%	0.8%	4,237	Caustic Cleaners	0.0%	0.0%	85
			-	Dry-cell Batteries	0.1%	0.0%	178
Wood Debris	1.2%		3,796	Wet-cell Batteries	0.0%	0.0%	(
Treated Wood	0.0%	0.0%	77	Gasoline/Kerosene	0.0%	0.0%	(
Painted Wood	0.5%	0.3%	1,581	Motor Oil	0.0%	0.0%	89
Dimensional Lumber	0.3%	0.1%	887	Antifreeze	0.0%	0.0%	(
Engineered Wood	0.2%	0.2%	591	Other Vehicle Fluids	0.0%	0.0%	(
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	117
Other Untreated Wood	0.0%	0.0%	157	Explosives	0.0%	0.0%	
Wood By-Products	0.0%	0.0%	117	Medical Wastes	0.1%	0.0%	180
R/C Wood Debris	0.1%	0.1%	386	Pharmaceuticals/Vitamins	0.1%	0.1%	309
				Disposable Diapers	4.1%	1.0%	13,354
Construction Materials	4.4%		14,178	Other Cleaners & Soaps	0.2%	0.1%	577
Natural Wood	0.5%	0.5%	1,487	Other Hazardous	0.1%	0.1%	22
Insulation	0.0%	0.0%	18	Other Non-hazardous	0.1%	0.1%	209
Asphalt Paving	0.0%	0.0%	0				
Concrete	0.4%	0.3%	1,268	Residues	1.9%		6,059
Drywall	0.1%	0.1%	378	Ash	0.0%	0.0%	. (
Carpet	0.4%	0.3%	1,239	Dust	0.1%	0.1%	44
	0.2%	0.2%	615	Fines	1.7%	0.6%	5,618
Carpet Padding				Sludge/Special Industrial	0.0%	0.0%	0,010
Carpet Padding Soil. Rocks. Sand	2.2%	1.2%	(.16/				
Carpet Padding Soil, Rocks, Sand Asphalt Roofing	2.2% 0.0%	1.2% 0.1%	7,182 130	Siddge/Opecial industrial	0.070	0.070	
Soil, Rocks, Sand Asphalt Roofing	0.0%	0.1%	130	oluge/opecial industrial	0.070	0.070	
Soil, Rocks, Sand				Totals	100.0%	0.070	324,090



Table 34: East WGA Self-hauled C&D Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	4.8%		3,438	Paper Products	0.3%		249
Newspaper Packaging	0.0%	0.0%	0	Newspaper	0.0%	0.0%	10
Cardboard/Kraft Paper Packaging	4.1%	2.4%	2,942	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.0%	0.0%	0	Magazines	0.2%	0.3%	118
Mixed/Low Grade Paper Packaging	0.2%	0.2%	177	High-Grade Paper Products	0.0%	0.0%	2
Compostable Paper Packaging	0.1%	0.2%	93	Other Groundwood Paper Products	0.0%	0.0%	0
R/C Paper Packaging	0.3%	0.4%	226	Mixed Low Grade Paper Products	0.0%	0.0%	3
				Compostable Paper Products	0.0%	0.0%	21
Plastic Packaging	1.2%		858	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.0%	0.0%	5	R/C Paper Products	0.1%	0.2%	94
#1 PETE Plastic Non-bottles	0.0%	0.0%	11				
#2 HDPE Plastic Natural Bottles	0.0%	0.0%	3	Plastic Products	2.3%		1,660
#2 HDPE Plastic Colored Bottles	0.0%	0.0%	2	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.0%	0.1%	31	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.1%	0.1%	46
#4 LDPE Plastic Packaging	0.0%	0.0%	15	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.0%	0.0%	0	#5 PP Plastic Products	0.0%	0.0%	22
#6 PS Plastic Packaging	0.0%	0.0%	16	#6 PS Plastic Products	0.0%	0.0%	0
#7 Other Plastic Packaging	0.0%	0.0%	25	#7 Other Plastic Products	1.7%	1.2%	1,193
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.0%	0.0%	1	Plastic Garbage Bags	0.1%	0.1%	73
Non-industrial Packaging Film Plastic	0.1%	0.1%	38	Plastic Film Products	0.2%	0.3%	127
Industrial Packaging Film Plastic	0.6%	0.5%	462	R/C Plastic Products	0.3%	0.5%	199
R/C Plastic Packaging	0.3%	0.5%	250				
				Consumer Products	5.2%		3,736
Glass	0.9%		631	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	0.0%	0.0%	0	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.0%	0.0%	0	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.0%	0.0%	0	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	0	Computers	0.4%	0.6%	253
R/C Glass	0.9%	1.5%	631	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	0
Metal	4.2%		2,982	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.0%	0.0%	7	Other Consumer Electronics	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	0	Textiles - Organic	0.1%	0.2%	101
Other Aluminum	0.0%	0.0%	16	Textiles - Synthetic	0.0%	0.0%	0
Other Nonferrous	0.3%	0.2%	191	Shoes, Purses, Belts	0.0%	0.0%	0
Food Cans - Tinned	0.0%	0.1%	33	Tires & Rubber	1.1%	1.4%	794
Food Cans - Coated	0.0%	0.0%	0	Furniture	3.1%	4.3%	2,192
White Goods	0.0%	0.0%	0	Mattresses	0.6%	0.9%	397
Other Ferrous Metal	2.8%	1.3%	2,039	R/C Consumer Products	0.0%	0.0%	0
R/C Metals	1.0%	1.3%	695				
				Hazardous/Special Wastes	0.3%		234
Organics	2.0%		1,421	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	0.0%	0.1%	24	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	0.0%	0.0%	5	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	1.6%	1.8%	1,143	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.3%	0.6%	243	Asbestos	0.0%	0.0%	0
Animal Manure	0.0%	0.0%	0	Latex Paint	0.3%	0.5%	234
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	0
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	0
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	0.0%	0.0%	6	Caustic Cleaners	0.0%	0.0%	0
ů.				Dry-cell Batteries	0.0%	0.0%	0
Wood Debris	48.5%		34,783	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	1.4%	0.9%	1,007	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	13.0%	6.4%	9,307	Motor Oil	0.0%	0.0%	Ő
Dimensional Lumber	11.1%	5.0%	7,953	Antifreeze	0.0%	0.0%	ů 0
Engineered Wood	11.5%	4.5%	8,256	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	5.2%	5.1%	3,755	Oil Filters	0.0%	0.0%	ő
Other Untreated Wood	2.3%	2.2%	1,644	Explosives	0.0%	0.0%	0
Wood By-Products	0.3%	0.3%	219	Medical Wastes	0.0%	0.0%	0
R/C Wood Debris	3.7%	4.5%	2,641	Pharmaceuticals/Vitamins	0.0%	0.0%	0
	0.170	4.070	2,041	Disposable Diapers	0.0%	0.0%	Ő
Construction Materials	30.3%		21,727	Other Cleaners & Soaps	0.0%	0.0%	1
Natural Wood	0.0%	0.1%	32	Other Hazardous	0.0%	0.0%	0
Insulation	1.0%	1.3%	692	Other Non-hazardous	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	092		0.076	0.070	0
				Posiduos	0.0%		45
Concrete	0.9%	1.1%	631 5 401	Residues	0.0%	0.09/	15
Drywall	7.7%	4.4%	5,491	Ash	0.0%	0.0%	0
Carpet	6.2%	6.2%	4,451	Dust	0.0%	0.0%	0
Carpet Padding	0.3%	0.3%	185	Fines	0.0%	0.0%	15
Soil, Rocks, Sand	2.0%	3.3%	1,445	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	4.2%	4.9%	3,013				
Plastic Flooring	0.2%	0.2%	149				
Ceramics & Brick	0.7%	0.9%	468	Totals	100.0%		71,735
R/C Construction Materials	7.2%	5.6%	5,170	Sample Count	29		



Table 35: East WGA Self-hauled Other Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	2.9%		2,673	Paper Products	3.3%		3,062
Newspaper Packaging	0.0%	0.0%	9	Newspaper	0.2%	0.1%	191
Cardboard/Kraft Paper Packaging	1.8%	1.1%	1,706	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.0%	0.1%	38	Magazines	0.3%	0.2%	260
Mixed/Low Grade Paper Packaging	0.7%	0.4%	650	High-Grade Paper Products	0.6%	0.7%	587
Compostable Paper Packaging	0.1%	0.0%	58	Other Groundwood Paper Products	0.2%	0.3%	162
R/C Paper Packaging	0.2%	0.1%	212	Mixed Low Grade Paper Products	0.6%	0.4%	601
				Compostable Paper Products	1.1%	0.8%	1,001
Plastic Packaging	1.5%		1,415	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.1%	0.1%	117	R/C Paper Products	0.3%	0.2%	261
#1 PETE Plastic Non-bottles	0.1%	0.1%	63				
#2 HDPE Plastic Natural Bottles	0.0%	0.0%	31	Plastic Products	4.0%	0.00/	3,720
#2 HDPE Plastic Colored Bottles	0.1%	0.1%	74	#1 PETE Plastic Products	0.0%	0.0%	1
#2 HDPE Plastic Jars & Tubs	0.2%	0.2%	176	#2 HDPE Plastic Products	0.1%	0.2%	117
#3 PVC Plastic Packaging	0.0%	0.0%	2	#3 PVC Plastic Products	0.0%	0.0%	0
#4 LDPE Plastic Packaging	0.0%	0.0%	5	#4 LDPE Plastic Products	0.0%	0.0%	5
#5 PP Plastic Packaging	0.1%	0.1%	137	#5 PP Plastic Products	0.0%	0.0%	30
#6 PS Plastic Packaging	0.2%	0.3%	202	#6 PS Plastic Products	0.1%	0.1%	89
#7 Other Plastic Packaging	0.2%	0.1%	147	#7 Other Plastic Products	2.5%	1.9%	2,301
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.1%	0.1%	77	Plastic Garbage Bags	0.4%	0.3%	353
Non-industrial Packaging Film Plastic	0.3%	0.2%	264	Plastic Film Products	0.5%	0.6%	475
Industrial Packaging Film Plastic	0.1%	0.1%	53	R/C Plastic Products	0.4%	0.2%	350
R/C Plastic Packaging	0.1%	0.1%	67				
01	0.001			Consumer Products	18.2%	4.001	16,880
Glass	0.9%		794	Televisions - CRT	1.6%	1.8%	1,502
Clear Glass Containers	0.3%	0.3%	304	Televisions - LCD	0.0%	0.0%	C
Green Glass Containers	0.0%	0.0%	6	VCR's, DVD's, DVR's	0.0%	0.0%	C
Brown Glass Containers	0.2%	0.2%	220	Computer Monitors - CRT	0.3%	0.6%	312
Plate Glass	0.1%	0.1%	81	Computer Monitors - LCD	0.0%	0.0%	C
Stoneware/Kitchen Ceramics/Glassware	0.1%	0.1%	67	Computers	0.0%	0.0%	C
R/C Glass	0.1%	0.2%	115	Computer Peripherals	0.0%	0.0%	15
				Audio Equipment	0.5%	0.5%	482
Metal	9.8%		9,079	Gaming Equipment	0.1%	0.1%	73
Aluminum Beverage Cans	0.1%	0.0%	55	Other Consumer Electronics	1.1%	1.0%	984
Aluminum Foil/Containers	0.0%	0.0%	30	Textiles - Organic	0.8%	0.6%	696
Other Aluminum	0.0%	0.0%	0	Textiles - Synthetic	1.5%	1.3%	1,404
Other Nonferrous	0.1%	0.1%	73	Shoes, Purses, Belts	0.3%	0.4%	296
Food Cans - Tinned	0.1%	0.1%	126	Tires & Rubber	1.2%	1.3%	1,114
Food Cans - Coated	0.0%	0.1%	32	Furniture	10.4%	6.3%	9,602
White Goods	2.7%	3.8%	2,507	Mattresses	0.0%	0.0%	0
Other Ferrous Metal	2.0%	1.7%	1,837	R/C Consumer Products	0.4%	0.4%	399
R/C Metals	4.8%	5.0%	4,418				
				Hazardous/Special Wastes	3.9%		3,570
Organics	21.4%		19,808	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	2.9%	1.9%	2,673	Mercury Vapor Lighting	0.0%	0.0%	C
Food - Non-vegetative	1.0%	0.9%	960	Compact Fluorescent Lights	0.0%	0.0%	2
Leaves & Grass	3.3%	3.0%	3,053	Fluorescent Tubes	0.0%	0.0%	C
Prunings	0.1%	0.1%	93	Asbestos	0.0%	0.0%	0
Animal Manure	0.5%	0.6%	498	Latex Paint	1.3%	2.1%	1,165
Animal Carcasses	13.0%	19.3%	12,034	Solvent-based Glues	0.0%	0.0%	9
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	0
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	1.2%	1.9%	1,085
R/C Organics	0.5%	0.8%	498	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.0%	0.0%	21
Wood Debris	13.7%		12,732	Wet-cell Batteries	0.0%	0.0%	C
Treated Wood	1.3%	1.9%	1,163	Gasoline/Kerosene	0.0%	0.0%	C
Painted Wood	4.4%	3.1%	4,093	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	3.3%	2.2%	3,038	Antifreeze	0.0%	0.0%	C
Engineered Wood	1.0%	1.1%	919	Other Vehicle Fluids	0.0%	0.0%	12
Pallets & Crates	1.6%	1.9%	1,517	Oil Filters	0.0%	0.0%	C
Other Untreated Wood	0.7%	1.1%	629	Explosives	0.0%	0.0%	C
Wood By-Products	0.0%	0.0%	27	Medical Wastes	0.4%	0.5%	361
R/C Wood Debris	1.5%	2.1%	1,345	Pharmaceuticals/Vitamins	0.0%	0.0%	4
				Disposable Diapers	0.9%	1.2%	864
Construction Materials	16.4%		15,211	Other Cleaners & Soaps	0.1%	0.1%	46
Natural Wood	0.0%	0.1%	45	Other Hazardous	0.0%	0.0%	C
Insulation	0.4%	0.6%	337	Other Non-hazardous	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0				
Concrete	0.9%	0.9%	792	Residues	4.0%		3,699
	0.8%	1.2%	739	Ash	0.0%	0.0%	(
Drywall		4.4%	3,475	Dust	0.0%	0.1%	45
Drywall Carpet	3.8%		5,5				
Carpet	3.8% 0.5%		423	Fines	0.2%	0.2%	171
Carpet Carpet Padding	0.5%	0.5%	423 4 167	Fines Sludge/Special Industrial	0.2% 3.8%	0.2% 6.2%	171 3 483
Carpet Carpet Padding Soil, Rocks, Sand	0.5% 4.5%	0.5% 5.3%	4,167	Fines Sludge/Special Industrial	0.2% 3.8%	0.2% 6.2%	
Carpet Carpet Padding Soil, Rocks, Sand Asphalt Roofing	0.5% 4.5% 0.2%	0.5% 5.3% 0.2%	4,167 140				3,483
Carpet Carpet Padding Soil, Rocks, Sand	0.5% 4.5%	0.5% 5.3%	4,167				



Northwest Waste Generation Area Composition Tables



Table 36: Northwest WGA Overall Disposed Waste Stream Detailed Composition, 2009

Newspaper Packaging Cardboard/Kraft Paper Packaging Other Groundwood Paper Packaging Mixed/Low Grade Paper Packaging Compostable Paper Packaging R/C Paper Packaging Plastic Packaging #1 PETE Plastic Bottles #1 PETE Plastic Natural Bottles #2 HDPE Plastic Natural Bottles #2 HDPE Plastic Natural Bottles #3 PVC Plastic Packaging #6 PS Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #8 PVC Plastic Packaging #8 PVC Plastic Packaging #8 PVC Plastic Packaging #8 PVC Plastic Packaging PLA Packaging Plastic Packaging Plastic Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Muminum Beverage Cans Aluminum Beverage Cans Aluminum Foil/Containers	0.6% 0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.6% 0.7% 0.6% 0.1% 0.5% 2.6% 0.4% 0.1% 0.5% 0.3% 0.3% 0.3% 0.3% 0.3%	+ /- 0.0% 0.6% 0.1% 0.3% 0.4% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2%	20,110 120 7,353 359 5,296 2,490 4,493 22,848 1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Paper Products Newspaper Cardboard/Kraft Paper Products Magazines High-Grade Paper Products Other Groundwood Paper Products Oxmostable Paper Products Compostable Paper Products Paper Processing Sludge R/C Paper Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Froducts R/C Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Froducts R/C Plastic Products Consumer Products Consumer Monitors - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - LCD Compu	10.7% 1.0% 0.1% 0.4% 0.5% 0.4% 2.2% 5.6% 0.0% 0.4% 4.1% 0.0% 0.0% 0.1% 0.0% 0.1% 1.2% 0.0% 0.6% 11.1% 0.2% 0.6% 0.6% 0.1% 0.2% 0.6% 0.6% 0.6% 0.6% 0.0% 0.1% 0.0%	+ /- 0.5% 0.2% 0.2% 0.4% 0.4% 0.8% 1.2% 0.0% 0.2% 0.0% 0.0% 0.0% 0.1% 0.0% 0.3% 0.0% 0.3% 0.0% 0.2% 0.3% 0.0% 0.2% 0.0% 0.3% 0.0%	32,856 2,985 318 1,167 1,545 1,354 6,821 17,266 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Cardboard/Kraft Paper Packaging Other Groundwood Paper Packaging Mixed/Low Grade Paper Packaging Compostable Paper Packaging R/C Paper Packaging Plastic Packaging #1 PETE Plastic Bottles #1 PETE Plastic Non-bottles #2 HOPE Plastic Natural Bottles #2 HOPE Plastic Colored Bottles #2 HOPE Plastic Cackaging #4 LDPE Plastic Packaging #4 DPE Plastic Packaging #4 DPE Plastic Packaging #4 DPE Plastic Packaging #5 PP Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging PLA Packaging Plastic Packaging Plastic Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2 Aluminum Beverage Cans Aluminum Guther Nonferrous <	2.4% 0.1% 1.7% 0.8% 1.5% 5% 0.6% 0.3% 0.3% 0.3% 0.3% 0.6% 0.7% 0.6% 0.6% 0.7% 0.6% 0.4% 0.5% 2.6% 0.4% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.5% 2.6% 0.4% 0.5% 0.6% 0.3% 0.3% 0.6% 0.6% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.3% 0.4% 0.3% 0.4% 0.4% 0.3% 0.4% 0.4% 0.3% 0.4%	0.6% 0.1% 0.3% 0.3% 0.4% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.3% 0.2% 0.1% 0.1% 0.2% 0.1% 0.2%	7,353 359 5,296 2,490 4,493 22,848 1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Cardboard/Kraft Paper Products Magazines High-Grade Paper Products Other Groundwood Paper Products Compostable Paper Products Paper Processing Sludge R/C Paper Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #3 PVC Plastic Products #5 PP Plastic Products #5 PP Plastic Products #7 Other Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Film Products R/C Plastic Froducts R/C Plastic Products Plastic Garbage Carbage Bags Plastic Film Products R/C Plastic Products R/C Plastic Products Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.1% 0.4% 0.4% 2.2% 5.6% 0.0% 0.4% 4.1% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0% 0.0% 0	0.2% 0.2% 0.4% 0.4% 0.8% 1.2% 0.0% 0.2% 0.0% 0.2% 0.0% 0.0% 0.0% 0	318 1,187 1,354 1,355 6,821 17,266 0 1,376 12,422 0 0 0 122 285 3,732 8 4,485 1,705 34,040 650 0 335 0 0 0 0 0 0 0 0 0 0 0 0 0
Other Groundwood Paper Packaging Mixed/Low Grade Paper Packaging Compostable Paper Packaging R/C Paper Packaging #1 PETE Plastic Bottles #1 PETE Plastic Non-bottles #2 HDPE Plastic Colored Bottles #2 HDPE Plastic Colored Bottles #3 PVC Plastic Packaging #4 DPE Plastic Colored Bottles #3 PVC Plastic Packaging #4 DPE Plastic Packaging #5 PP Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging Plastic Packaging Plastic Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Ronferrous Food Cans - Coated White Goods Other	0.1% 1.7% 0.8% 1.5% 0.6% 0.3% 0.3% 0.3% 0.3% 0.0% 0.6% 0.7% 0.6% 0.7% 0.6% 0.4% 0.1% 0.5% 0.4% 0.1% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.1% 0.5% 0.6% 0.3% 0.4% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3% 0.4% 0.4% 0.4% 0.3% 0.3% 0.3% 0.4% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.3% 0.2%	0.1% 0.3% 0.3% 0.4% 0.1% 0.1% 0.1% 0.2% 0.0% 0.2% 0.1% 0.2% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2%	359 5,296 2,490 4,493 22,848 1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,993 375 6,567 2,771 884 941 968 304 698 12,936	Magazines High-Grade Paper Products Other Groundwood Paper Products Compostable Paper Products Paper Processing Sludge R/C Paper Products #1 PETE Plastic Products #3 PVC Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #5 PP Plastic Products #7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products R/C Plastic Products Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.4% 0.5% 0.4% 2.2% 5.6% 0.0% 0.4% 4.1% 0.0% 0.0% 0.1% 0.0% 0.1% 1.2% 0.0% 0.6% 0.6% 1.5% 0.6% 0.6% 0.0% 0.1%	0.2% 0.1% 0.4% 0.8% 1.2% 0.0% 0.2% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0% 0.3% 0.3% 0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	1,187 1,545 1,546 0,821 17,266 0 1,376 12,423 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Mixed/Low Grade Paper Packaging Compostable Paper Packaging R/C Paper Packaging Plastic Packaging #1 PETE Plastic Bottles #1 PETE Plastic Colored Bottles #2 HDPE Plastic Colored Bottles #2 HDPE Plastic Colored Bottles #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #4 LDPE Plastic Packaging #4 LDPE Plastic Packaging #4 LDPE Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging #16 PETE Plastic Packaging Plastic Marchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2° Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Coated White Goods Other Ferrous Metal R/C Metals	1.7% 0.8% 1.5% 0.6% 0.3% 0.3% 0.3% 0.3% 0.0% 0.0% 0.0% 0.6% 0.1% 0.6% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3% 0.3% 0.2%	0.3% 0.3% 0.4% 0.1% 0.1% 0.1% 0.0% 0.0% 0.3% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1%	5,296 2,490 4,493 22,848 1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 2,1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	High-Grade Paper Products Other Groundwood Paper Products Mixed Low Grade Paper Products Compostable Paper Products Paper Processing Sludge R/C Paper Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #5 PP Plastic Products #6 PS Plastic Products PLA Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.5% 0.4% 2.2% 5.6% 0.0% 0.4% 4.1% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0% 0	0.1% 0.4% 0.8% 0.2% 0.0% 0.2% 0.0% 0.1% 0.0% 0.1% 0.0% 0.0% 0.3% 0.4% 0.4% 0.4% 0.3% 0.3% 0.0% 0.2% 0.0%	1,545 1,354 1,356 17,265 17,265 1,376 12,423 0 0 0 1,375 4,488 1,700 1,754 34,040 650 0 0 335 0 0 0 0 0 0 0 0 0 0 0 0 0
Compostable Paper Packaging R/C Paper Packaging R/C Paper Packaging 7.5'' #1 PETE Plastic Bottles #1 PETE Plastic Non-bottles #2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles #2 HDPE Plastic Colored Bottles #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #4 LDPE Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #1 Pastic Packaging PLA Packaging Plastic Packaging PLA Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Elses Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Fol/Containers Other Aluminum Other Ferrous Metal R/C Metals Other Ferrous Metal R/C Metals Other Ferrous Metal R/C Metals Other Aluminum	0.8% 1.5% 0.6% 0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.7% 0.6% 0.6% 0.4% 0.1% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.1% 0.3% 0.4% 0.1% 0.4% 0.3% 0.4% 0.1% 0.4% 0.4% 0.4% 0.4% 0.5% 0.6% 0.0%	0.3% 0.4% 0.1% 0.1% 0.1% 0.2% 0.0% 0.2% 0.1% 0.3% 0.2% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2%	2,490 4,493 22,848 1,903 990 935 956 881 79 355 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Other Groundwood Paper Products Mixed Low Grade Paper Products Compostable Paper Products Paper Processing Sludge R/C Paper Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - LCD Computer Monitors - LCD	0.4% 2.2% 5.6% 0.0% 0.4% 4.1% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0%	0.4% 0.8% 1.2% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0% 0	1,354 6,821 17,266 (1,376 12,423 (1,376 12,423 (1,27 283 3,333 (1,27 283 3,732 8,4,488 1,700 1,754 34,040 655 (1,335 (1,355) 335 (1,355) 34,041 (1,355) 1,755 (1,355) 1,75
R/C Paper Packaging 7.5' #1 PETE Plastic Bottles #1 PETE Plastic Non-bottles #2 HDPE Plastic Nor-bottles #2 HDPE Plastic Nored Bottles #2 HDPE Plastic Colored Bottles #2 HDPE Plastic Colored Bottles #2 HDPE Plastic Dackaging #4 LDPE Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Plastic Packaging Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals 0.0 Organics 30.0 Food - Non-vegetative 1	1.5% 0.6% 0.3% 0.3% 0.3% 0.0% 0.6% 0.6% 0.7% 0.6% 0.4% 0.1% 0.5% 0.4% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.6% 0.6% 0.6% 0.6% 0.6% 0.3% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.5% 0.4% 0.4% 0.5% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3% 0.4% 0.5% 0.4% 0.3% 0.3% 0.4% 0.4% 0.3% 0.3% 0.4% 0.4% 0.3% 0.3% 0.4% 0.3% 0.3% 0.3% 0.4% 0.4% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.3% 0.3% 0.2% 0.2% 0.2% 0.4% 0.3% 0.3% 0.2%	0.4% 0.1% 0.1% 0.2% 0.0% 0.2% 0.3% 0.2% 0.1% 0.7% 0.2% 0.1% 0.3% 0.2% 0.1% 0.2% 0.1% 0.2%	4,493 22,848 1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Mixed Low Grade Paper Products Compostable Paper Products Paper Processing Sludge R/C Paper Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products Plaker Plastic Products Plastic Garbage Bags Plastic Film Products R/C Plastic Products R/C Plastic Products Televisions - CRT Televisions - CRT Computer Monitors - CRT Computer Monitors - LCD Computers	2.2% 5.6% 0.0% 0.4% 4.1% 0.0% 0.0% 0.1% 0.0% 0.0% 0.0% 0.0% 0	0.8% 1.2% 0.0% 0.2% 0.0% 0.1% 0.0% 0.1% 0.0% 0.1% 0.4% 0.3% 0.3% 0.3% 0.0% 0.2% 0.0% 0.0%	6,821 17,266 () 1,377 12,423 () () () () () () () () () () () () ()
Plastic Packaging 7.5' #1 PETE Plastic Bottles #1 PETE Plastic Natural Bottles #1 PETE Plastic Natural Bottles #2 HOPE Plastic Colored Bottles #2 HOPE Plastic Colored Bottles #2 HOPE Plastic Packaging #4 LOPE Plastic Packaging #6 PS Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging Film Plastic Plastic Merchandise Bags Non-industrial Packaging Film Plastic Non-industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Green Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	5% 0.6% 0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.7% 0.6% 0.7% 0.6% 0.7% 0.6% 0.1% 0.5% 0.4% 0.1% 0.3% 0.3% 0.2%	0.1% 0.1% 0.1% 0.2% 0.0% 0.3% 0.2% 0.1% 0.1% 0.1% 0.1% 0.3% 0.2% 0.1%	22,848 1,903 990 935 956 881 79 355 1,802 2,118 1,968 202 2,1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Compostable Paper Products Paper Processing Sludge R/C Paper Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	$5.6\% \\ 0.0\% \\ 0.4\% \\ \textbf{4.1\%} \\ 0.0\% \\ 0.0\% \\ 0.1\% \\ 0.0\% \\ 0.1\% \\ 1.2\% \\ 0.0\% \\ 1.5\% \\ 0.6\% \\ \textbf{11.1\%} \\ 0.2\% \\ 0.0\% \\ 0.1\% \\ 0.0\% \\ $	1.2% 0.0% 0.2% 0.0% 0.1% 0.0% 0.1% 0.0% 0.4% 0.4% 0.4% 0.4% 0.3% 0.4% 0.3% 0.2% 0.0% 0.0%	17,266 () 1,376 12,423 () () () 283 3,732 6 3,732 6 4,48 1,709 1,754 34,040 () 650 () 335 () ()
Plastic Packaging 7.5' #1 PETE Plastic Bottles #1 PETE Plastic Natural Bottles #1 PETE Plastic Natural Bottles #2 HOPE Plastic Colored Bottles #2 HOPE Plastic Colored Bottles #2 HOPE Plastic Packaging #4 LOPE Plastic Packaging #6 PS Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging Film Plastic Plastic Merchandise Bags Non-industrial Packaging Film Plastic Non-industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Green Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.6% 0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.6% 0.6% 0.1% 0.5% 2.6% 0.4% 0.1% 0.5% 2.6% 0.4% 0.3% 0.3% 0.3% 0.2%	0.1% 0.1% 0.2% 0.2% 0.3% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2%	1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Paper Processing Sludge R/C Paper Products Plastic Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD	0.0% 0.4% 4.1% 0.0% 0.0% 0.0% 0.1% 1.2% 0.0% 1.5% 0.6% 11.1% 0.2% 0.0% 0.0% 0.0% 0.0%	0.0% 0.2% 0.0% 0.1% 0.0% 0.0% 0.0% 0.3% 0.4% 0.3% 0.3% 0.3% 0.3% 0.0% 0.2% 0.0%	1,376 12,423 () () () () () () () () () ()
#1 PETE Plastic Bottles #1 PETE Plastic Non-bottles #2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles #3 PVC Plastic Jars & Tubs #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging PLA Packaging PLA Packaging Plastic Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1	0.6% 0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.6% 0.6% 0.1% 0.5% 2.6% 0.4% 0.1% 0.5% 2.6% 0.4% 0.3% 0.3% 0.3% 0.2%	0.1% 0.1% 0.2% 0.2% 0.3% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2%	1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Paper Processing Sludge R/C Paper Products Plastic Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD	0.0% 0.4% 4.1% 0.0% 0.0% 0.0% 0.1% 1.2% 0.0% 1.5% 0.6% 11.1% 0.2% 0.0% 0.0% 0.0% 0.0%	0.0% 0.2% 0.0% 0.1% 0.0% 0.0% 0.0% 0.3% 0.4% 0.3% 0.3% 0.3% 0.3% 0.0% 0.2% 0.0%	1,376 12,423 () () () () () () () () () ()
#1 PETE Plastic Bottles #1 PETE Plastic Non-bottles #2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles #3 PVC Plastic Jars & Tubs #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging PLA Packaging PLA Packaging PLA Packaging Plastic Packaging PLA Packaging PLA Packaging Plastic Packaging PLA Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative	0.6% 0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.6% 0.6% 0.1% 0.5% 2.6% 0.4% 0.1% 0.5% 2.6% 0.4% 0.3% 0.3% 0.3% 0.2%	0.1% 0.1% 0.2% 0.2% 0.3% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2%	1,903 990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	R/C Paper Products Plastic Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - CRT Computer Monitors - CRT Computer Monitors - LCD Computers	0.4% 4.1% 0.0% 0.1% 0.0% 0.0% 0.1% 0.0% 0.0% 0.6% 11.1% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.6% 0.6% 0.0% 0.0% 0.0% 0.6% 0.0%	0.2% 0.0% 0.0% 0.1% 0.0% 0.1% 0.3% 0.4% 0.3% 0.4% 0.3% 0.0% 0.0% 0.0%	1,376 12,423 () 12(2) 285 3,732 8 4,488 1,705 1,755 34,040 650 (335 ()
#1 PETE Plastic Non-bottles #2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles #2 HDPE Plastic Colored Bottles #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging PLA Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Store Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.7% 0.6% 0.1% 0.5% 0.4% 0.1% 0.5% 0.4% 0.1% 0.3% 0.3% 0.3% 0.2%	0.1% 0.1% 0.2% 0.2% 0.3% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2%	990 935 956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Plastic Products #1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Garbage Ba	4.1% 0.0% 0.1% 0.0% 0.1% 1.2% 0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0% 0.0% 0.0%	0.0% 0.1% 0.0% 0.1% 0.4% 0.3% 0.3% 0.4% 0.3% 0.3% 0.0% 0.2% 0.0%	12,423 () () () () () () () () () () () () ()
#2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles #2 HDPE Plastic Colored Bottles #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging PLA Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Class Containers Brown Class Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.21 Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.3% 0.3% 0.3% 0.0% 0.0% 0.6% 0.7% 0.6% 0.4% 0.4% 0.4% 0.3% 0.3% 0.3% 0.3% 0.2%	0.1% 0.1% 0.0% 0.0% 0.3% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.3% 0.2% 0.1%	935 956 881 79 35 1,802 2,118 1,968 202 2,2118 1,968 202 2,2118 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.0% 0.1% 0.0% 0.0% 1.2% 0.0% 1.5% 0.6% 0.6% 0.6% 0.6% 0.0% 0.0% 0.0% 0.0	0.0% 0.1% 0.0% 0.1% 0.4% 0.3% 0.3% 0.4% 0.3% 0.4% 0.3% 0.0% 0.0% 0.0%	() () () () () () () () () () () () () (
#2 HDPE Plastic Colored Bottles #2 HDPE Plastic Jars & Tubs #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PVC Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging PLA Packaging Plastic Packaging PLA Packaging Plastic Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1	0.3% 0.0% 0.0% 0.6% 0.7% 0.6% 0.1% 0.1% 0.5% 2.6% 0.4% 0.1% 0.1% 0.3% 0.3% 0.3% 0.2%	0.1% 0.2% 0.0% 0.3% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2%	956 881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.0% 0.1% 0.0% 0.0% 1.2% 0.0% 1.5% 0.6% 0.6% 0.6% 0.6% 0.0% 0.0% 0.0% 0.0	0.0% 0.1% 0.0% 0.1% 0.4% 0.3% 0.3% 0.4% 0.3% 0.4% 0.3% 0.0% 0.0% 0.0%	() () () () () () () () () () () () () (
#2 HDPE Plastic Jars & Tubs #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2° Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.3% 0.0% 0.6% 0.6% 0.7% 0.5% 2.6% 0.4% 0.1% 0.4% 0.4% 0.3% 0.3% 0.3% 0.3% 0.2%	0.2% 0.0% 0.3% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2%	881 79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products Plastic Garbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - CRT Televisions - CRT Computer Monitors - CRT Computer Monitors - LCD Computers	$\begin{array}{c} 0.0\% \\ 0.1\% \\ 0.0\% \\ 0.0\% \\ 0.1\% \\ 1.2\% \\ 0.0\% \\ 1.5\% \\ 0.6\% \\ \textbf{0.6\%} \\ \textbf{11.1\%} \\ 0.2\% \\ 0.0\% \\ 0.$	0.0% 0.1% 0.0% 0.1% 0.4% 0.3% 0.3% 0.4% 0.3% 0.4% 0.3% 0.0% 0.0% 0.0%	(333) (12(288) 3,733 { 4,488 1,705 1,755 34,04 (656) (333) (333)
#3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Stone Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Wetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.0% 0.0% 0.6% 0.7% 0.6% 0.1% 2.6% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3% 0.3% 0.1% 0.2%	0.0% 0.0% 0.2% 0.1% 0.1% 0.1% 0.7% 0.2% 0.1% 0.3% 0.2% 0.1% 0.2% 0.1%	79 35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products PLA Products Plastic Garbage Bags Plastic Film Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.1% 0.0% 0.1% 1.2% 0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.1% 0.0% 0.1% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	33: (28: 3,73: 4,48: 1,709 1,754 34,04 656 (333 (
#4 LDPE Plastic Packaging #5 PP Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging #7 Other Plastic Packaging PLA Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Wetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative 1	0.0% 0.6% 0.7% 0.6% 0.1% 0.5% 2.6% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3% 0.2%	0.0% 0.3% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1%	35 1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#4 LDPE Plastic Products #5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products Plastic Carbage Bags Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.0% 0.1% 1.2% 0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.0% 0.0% 0.1% 0.4% 0.3% 0.4% 0.4% 0.4% 0.4% 0.3% 0.0% 0.0% 0.0%	(12(28; 3,73; 8 4,48; 1,70; 1,754 34,04 (650; (333; (
#5 PP Plastic Packaging #6 PS Plastic Packaging #7 Other Plastic Packaging PLA Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Aluminum Other Forous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.6% 0.7% 0.6% 0.1% 0.5% 0.4% 0.4% 0.4% 0.3% 0.3% 0.3% 0.3% 0.2%	0.3% 0.2% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1% 0.2%	1,802 2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#5 PP Plastic Products #6 PS Plastic Products #7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.0% 0.1% 1.2% 0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.0% 0.1% 0.4% 0.3% 0.4% 0.4% 0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	12(28; 3,73; 4,48; 1,709 1,754 34,04 (650 (333; (
#6 PS Plastic Packaging #7 Other Plastic Packaging PLA Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2° Aluminum Beverage Cans Aluminum Foi/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.7% 0.6% 0.1% 2.6% 0.4% 0.4% 0.1% 1% 0.9% 0.3% 0.3% 0.3% 0.2%	0.2% 0.1% 0.1% 0.1% 0.7% 0.2% 0.1% 0.2% 0.1% 0.2% 0.1%	2,118 1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#6 PS Plastic Products #7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.1% 1.2% 0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.1% 0.4% 0.0% 0.3% 0.4% 0.4% 0.3% 0.0% 0.0% 0.0% 0.0%	28: 3,732 4,48: 1,709 1,754 34,04 4 650 (333
#7 Other Plastic Packaging PLA Packaging Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Wetal 4.2° Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.6% 0.1% 0.5% 2.6% 0.4% 0.1% 0.1% 0.3% 0.3% 0.3% 0.3% 0.2%	0.1% 0.1% 0.7% 0.2% 0.1% 0.3% 0.3% 0.3% 0.1% 0.2%	1,968 202 1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	#7 Other Plastic Products PLA Products Plastic Garbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	1.2% 0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.4% 0.0% 0.3% 0.4% 0.4% 0.3% 0.0% 0.0% 0.0% 0.0%	3,73; 4,48; 1,70; 1,75; 34,04 ; 65; (33;
PLA Packaging Plastic Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Brown Glass Containers Brown Glass Containers Stoneware/Kitchen Ceramics/Glassware R/C Glass 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Coated Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Proganics 30.0 Food - Vegetative 1	0.1% 0.5% 2.6% 0.4% 0.1% 1% 0.9% 0.3% 0.3% 0.3% 0.2%	0.1% 0.1% 0.2% 0.1% 0.3% 0.1% 0.3% 0.1% 0.2%	202 1,472 8,039 1,093 375 6,567 2,771 884 968 304 698 12,936	PLA Products Plastic Carbage Bags Plastic Film Products R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.0% 1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.0% 0.3% 0.4% 0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	4,483 1,709 1,754 34,04 (650 (333
Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging State Clear Glass Containers Green Glass Containers Brown Glass Containers Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Alors - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals	0.5% 2.6% 0.4% 0.1% 1% 0.9% 0.3% 0.3% 0.3% 0.2% 2% 0.3% 0.2%	0.1% 0.7% 0.2% 0.1% 0.3% 0.2% 0.1% 0.3% 0.1% 0.2%	1,472 8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Plastic Garbage Bags Plastic Film Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	1.5% 0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.3% 0.4% 0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	4,48 1,70 1,75 34,04 65((335
Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic R/C Plastic Packaging 2.1 Glass 2.1 Clear Glass Containers 2.1 Green Glass Containers 3.1 Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Containers Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals 30.0 Food - Non-vegetative 1	2.6% 0.4% 0.1% 1% 0.9% 0.3% 0.3% 0.3% 0.2% 2% 0.3% 0.2%	0.7% 0.2% 0.1% 0.3% 0.2% 0.1% 0.2% 0.1%	8,039 1,093 375 6,567 2,771 884 941 968 304 698 12,936	Plastic Film Products R/C Plastic Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.6% 0.6% 11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.4% 0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	1,709 1,754 34,04(650 (338
Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Wetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1	0.4% 0.1% 1% 0.9% 0.3% 0.3% 0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.2% 0.1% 0.3% 0.2% 0.1% 0.3% 0.1% 0.2%	1,093 375 6,567 2,771 884 941 968 304 698 12,936	R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.6% 11.1% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0%	0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	1,754 34,04(65((335
Industrial Packaging Film Plastic R/C Plastic Packaging Glass 2.1 Clear Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Wetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1	0.4% 0.1% 1% 0.9% 0.3% 0.3% 0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.2% 0.1% 0.3% 0.2% 0.1% 0.3% 0.1% 0.2%	1,093 375 6,567 2,771 884 941 968 304 698 12,936	R/C Plastic Products Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.6% 11.1% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0%	0.4% 0.3% 0.0% 0.2% 0.0% 0.0%	1,754 34,04(65((335
R/C Plastic Packaging 2.1 Clear Glass Containers 3.1 Green Glass Containers Brown Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Proganics 30.0 Food - Vegetative 1	0.1% 1% 0.9% 0.3% 0.3% 0.3% 0.2% 2% 0.3% 0.2%	0.1% 0.3% 0.2% 0.1% 0.3% 0.1% 0.2%	375 6,567 2,771 884 941 968 304 698 12,936	Consumer Products Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	11.1% 0.2% 0.0% 0.1% 0.0% 0.0%	0.3% 0.0% 0.2% 0.0% 0.0% 0.0%	34,04 650 (335
Glass 2.1 Clear Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Vetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Songanics Storey Containers 30.0 Food - Vegetative 1	1% 0.9% 0.3% 0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.3% 0.2% 0.1% 0.3% 0.1% 0.2%	6,567 2,771 884 941 968 304 698 12,936	Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.2% 0.0% 0.1% 0.0% 0.0%	0.0% 0.2% 0.0% 0.0% 0.0%	650 333
Clear Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Wetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.9% 0.3% 0.3% 0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.2% 0.1% 0.3% 0.1% 0.2%	2,771 884 941 968 304 698 12,936	Televisions - CRT Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.2% 0.0% 0.1% 0.0% 0.0%	0.0% 0.2% 0.0% 0.0% 0.0%	650 333
Clear Glass Containers Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1	0.9% 0.3% 0.3% 0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.2% 0.1% 0.3% 0.1% 0.2%	2,771 884 941 968 304 698 12,936	Televisions - LCD VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.0% 0.1% 0.0% 0.0%	0.0% 0.2% 0.0% 0.0% 0.0%	(335 (
Green Glass Containers Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Vetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.3% 0.3% 0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.2% 0.1% 0.3% 0.1% 0.2%	884 941 968 304 698 12,936	VCR's, DVD's, DVR's Computer Monitors - CRT Computer Monitors - LCD Computers	0.1% 0.0% 0.0% 0.0%	0.2% 0.0% 0.0% 0.0%	335 (
Brown Glass Containers Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Wetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Non-vegetative 1	0.3% 0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.1% 0.3% 0.1% 0.2%	941 968 304 698 12,936	Computer Monitors - CRT Computer Monitors - LCD Computers	0.0% 0.0% 0.0%	0.0% 0.0% 0.0%	(
Plate Glass Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1	0.3% 0.1% 0.2% 2% 0.3% 0.2%	0.3% 0.1% 0.2% 0.1%	968 304 698 12,936	Computer Monitors - LCD Computers	0.0% 0.0%	0.0% 0.0%	
Stoneware/Kitchen Ceramics/Glassware R/C Glass Metal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.1% 0.2% 2% 0.3% 0.2%	0.1% 0.2% 0.1%	304 698 12,936	Computers	0.0%	0.0%	
R/C Glass Vetal Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics Food - Vegetative Food - Non-vegetative	0.2% 2% 0.3% 0.2%	0.2%	698 12,936				
Wetal 4.2' Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals 30.0 Food - Non-vegetative 1	2% 0.3% 0.2%	0.1%	12,936	Computer Peripherals	0.0%		78
Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.3% 0.2%				0.070	0.0%	4
Aluminum Beverage Cans Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.3% 0.2%			Audio Equipment	0.0%	0.0%	:
Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.2%			Gaming Equipment	0.0%	0.0%	24
Aluminum Foil/Containers Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.2%		865	Other Consumer Electronics	0.6%	0.5%	1,78
Other Aluminum Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics Food - Vegetative 1 Food - Non-vegetative		0.1%	554	Textiles - Organic	4.0%	3.3%	12,12
Other Nonferrous Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Drganics 30.0 Food - Vegetative 1 Food - Non-vegetative		0.0%	39	Textiles - Synthetic	1.9%	1.5%	5,73
Food Cans - Tinned Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative 1	0.0%	0.0%	148	Shoes, Purses, Belts	0.5%	0.2%	1,40
Food Cans - Coated White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative 1							
White Goods Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative 1	0.6%	0.1%	1,696	Tires & Rubber	0.4%	0.3%	1,28
Other Ferrous Metal R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.1%	0.1%	303	Furniture	3.1%	2.9%	9,509
R/C Metals Organics 30.0 Food - Vegetative 1 Food - Non-vegetative	0.0%	0.0%	0	Mattresses	0.1%	0.2%	45
Organics 30.0 Food - Vegetative 1 Food - Non-vegetative 1	1.8%	1.1%	5,442	R/C Consumer Products	0.2%	0.2%	609
Food - Vegetative 1 Food - Non-vegetative	1.3%	0.6%	3,888				
Food - Vegetative 1 Food - Non-vegetative				Hazardous/Special Wastes	2.7%		8,41
Food - Non-vegetative	0%		91,831	Pesticides/Herbicides	0.0%	0.0%	
Food - Non-vegetative	13.5%	2.4%	41,407	Mercury Vapor Lighting	0.0%	0.0%	
	6.0%	1.9%	18,384	Compact Fluorescent Lights	0.0%	0.0%	
LEAVES & GLASS	4.0%	1.5%	12,149	Fluorescent Tubes	0.0%	0.0%	
	1.2%	1.0%	3,558	Asbestos	0.0%	0.0%	
	4.8%	2.2%		Latex Paint	0.0%	0.0%	9
			14,676 0				9
	0.0%	0.0%		Solvent-based Glues	0.0%	0.0%	
•	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	5
	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	1
R/C Organics	0.5%	0.3%	1,657	Caustic Cleaners	0.0%	0.0%	
				Dry-cell Batteries	0.0%	0.0%	12
Nood Debris 10.4	4%		31,961	Wet-cell Batteries	0.0%	0.0%	
Treated Wood	0.6%	0.6%	1,847	Gasoline/Kerosene	0.0%	0.0%	
Painted Wood	4.4%	2.5%	13,600	Motor Oil	0.0%	0.0%	
Dimensional Lumber	1.3%	1.1%	3,843	Antifreeze	0.0%	0.0%	
	0.6%	0.4%	1,921	Other Vehicle Fluids	0.0%	0.0%	
Pallets & Crates	1.2%	1.3%	3,588	Oil Filters	0.0%	0.0%	1
	1.1%	1.0%	3,304	Explosives	0.0%	0.0%	1
Wood By-Products	0.4%	0.4%	3,304 1,237	Medical Wastes	0.0%		70
						0.3%	
R/C Wood Wastes	0.9%	0.8%	2,621	Pharmaceuticals/Vitamins	0.0%	0.0%	1
				Disposable Diapers	2.2%	0.6%	6,70
Construction Materials 9.3			28,602	Other Cleaners & Soaps	0.1%	0.0%	19
Natural Wood	0.0%	0.0%	6	Other Hazardous	0.0%	0.0%	
Insulation	1.5%	2.2%	4,633	Other Non-hazardous	0.1%	0.1%	39
Asphalt Paving	1.3%	2.1%	4,068				
Concrete	0.3%	0.4%	801	Residues	1.2%		3,60
	0.7%	0.7%	2,102	Ash	0.1%	0.2%	41
Carpet	1.1%	1.4%	3,366	Dust	0.4%	0.4%	1,16
	0.0%	0.0%	0,500	Fines	0.7%	0.5%	2,01
Soil, Rocks, Sand	0.2%	0.3%	721	Sludge/Special Industrial	0.0%	0.0%	
	4 001	1.2%	3,960				
Plastic Flooring	1.3%	0.0%	55				
Ceramics & Brick R/C Construction Materials	1.3% 0.0% 0.9%	1.0%	2,718	Totals	100.0% 52		306,18



Table 37: Northwest WGA Commercial Disposed Waste Sector Detailed Composition, 2009

	Est.		Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper Packaging	7.0%	0.40/	9,207	Paper Products	13.6%	0.40/	18,013
Newspaper Packaging Cardboard/Kraft Paper Packaging	0.1% 2.4%	0.1% 0.9%	110 3,128	Newspaper Cardboard/Kraft Paper Products	0.7% 0.2%	0.4% 0.4%	876 307
Other Groundwood Paper Packaging	2.4%	0.9%	5,126	Magazines	0.2%	0.4%	217
Mixed/Low Grade Paper Packaging	1.5%	0.5%	1,971	High-Grade Paper Products	0.6%	0.2%	798
Compostable Paper Packaging	1.2%	0.7%	1,620	Other Groundwood Paper Products	0.1%	0.1%	113
R/C Paper Packaging	1.7%	0.8%	2,304	Mixed Low Grade Paper Products	2.4%	1.6%	3,218
				Compostable Paper Products	8.6%	2.6%	11,431
Plastic Packaging	8.7%		11,582	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.8%	0.3%	1,005	R/C Paper Products	0.8%	0.5%	1,052
#1 PETE Plastic Non-bottles #2 HDPE Plastic Natural Bottles	0.4% 0.4%	0.2% 0.2%	494 518	Plastic Products	4.9%		6,465
#2 HDPE Plastic Colored Bottles	0.4%	0.2%	355	#1 PETE Plastic Products	4.9% 0.0%	0.0%	0,405
#2 HDPE Plastic Jars & Tubs	0.5%	0.4%	672	#2 HDPE Plastic Products	0.0%	0.0%	ů 0
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.2%	0.3%	263
#4 LDPE Plastic Packaging	0.0%	0.0%	25	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.8%	0.6%	1,105	#5 PP Plastic Products	0.0%	0.0%	62
#6 PS Plastic Packaging	0.8%	0.3%	1,010	#6 PS Plastic Products	0.1%	0.1%	112
#7 Other Plastic Packaging	0.6%	0.3%	858	#7 Other Plastic Products	1.0%	0.5%	1,266
PLA Packaging	0.1%	0.1%	178	PLA Products	0.0%	0.0%	8
Plastic Merchandise Bags	0.3%	0.1%	337 4,293	Plastic Garbage Bags Plastic Film Products	2.1%	0.7% 0.6%	2,757
Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic	3.2% 0.4%	1.4% 0.3%	4,293	R/C Plastic Products	0.7% 0.8%	0.8%	963 1,035
R/C Plastic Packaging	0.1%	0.1%	196		0.070	0.070	1,000
ri o ridollo r dollaging	01170	0.170		Consumer Products	18.7%		24,726
Glass	1.8%		2,430	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	0.8%	0.5%	1,042	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.3%	0.2%	412	VCR's, DVD's, DVR's	0.0%	0.0%	11
Brown Glass Containers	0.3%	0.3%	387	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware R/C Glass	0.0% 0.4%	0.0% 0.5%	21 568	Computers Computer Peripherals	0.1% 0.0%	0.1% 0.0%	67 42
R/C Glass	0.4%	0.5%	506	Audio Equipment	0.0%	0.0%	42
Metal	5.0%		6,666	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.2%	0.1%	329	Other Consumer Electronics	1.0%	1.1%	1,347
Aluminum Foil/Containers	0.2%	0.2%	285	Textiles - Organic	6.3%	7.6%	8,300
Other Aluminum	0.0%	0.0%	39	Textiles - Synthetic	3.2%	3.4%	4,270
Other Nonferrous	0.0%	0.0%	28	Shoes, Purses, Belts	0.4%	0.4%	559
Food Cans - Tinned	0.6%	0.3%	768	Tires & Rubber	0.3%	0.2%	440
Food Cans - Coated	0.1%	0.1%	117	Furniture	7.0%	6.8%	9,299
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	0
Other Ferrous Metal R/C Metals	2.9% 1.0%	2.5% 0.5%	3,818 1,282	R/C Consumer Products	0.3%	0.4%	389
IVE Metals	1.078	0.376	1,202	Hazardous/Special Wastes	1.2%		1,547
Organics	24.7%		32,745	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	14.7%	4.7%	19,476	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	8.2%	4.2%	10,866	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	1.0%	1.3%	1,278	Fluorescent Tubes	0.0%	0.0%	2
Prunings	0.0%	0.0%	32	Asbestos	0.0%	0.0%	0
Animal Manure	0.6%	0.8%	728	Latex Paint	0.1%	0.1%	87
Animal Carcasses Crop Residues	0.0% 0.0%	0.0% 0.0%	0	Solvent-based Glues	0.0% 0.0%	0.0% 0.0%	0
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	0.3%	0.3%	364	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.1%	0.1%	88
Wood Debris	9.0%		11,973	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	0.3%	0.5%	371	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	2.8%	4.5%	3,686	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	0.2%	0.2%	202	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.6%	0.9%	829	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates Other Untreated Wood	2.7% 0.7%	3.0% 1.2%	3,531 986	Oil Filters Explosives	0.0% 0.0%	0.0% 0.0%	0
Wood By-Products	0.7%	0.6%	986 453	Medical Wastes	0.5%	0.0%	704
R/C Wood Debris	1.4%	1.8%	1,916	Pharmaceuticals/Vitamins	0.0%	0.0%	0
				Disposable Diapers	0.5%	0.4%	641
Construction Materials	4.7%		6,217	Other Cleaners & Soaps	0.0%	0.0%	11
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.0%	0.0%	0
Insulation	3.1%	5.2%	4,151	Other Non-hazardous	0.0%	0.0%	14
Asphalt Paving	0.0%	0.0%	0	De sideres	0.001		
Concrete	0.6%	1.0%	801	Residues	0.6%	0.00/	808
Drywall Carpet	0.0% 0.2%	0.0% 0.3%	0 265	Ash Dust	0.0% 0.1%	0.0% 0.1%	0 85
Carpet Carpet Padding	0.2%	0.3%	265	Fines	0.1%	0.1%	723
Soil, Rocks, Sand	0.0%	0.0%	0	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.0%	0.0%	138		0.070	0.070	0
Plastic Flooring	0.0%	0.0%	0				
Ceramics & Brick	0.3%	0.5%	453	Totals	100.0%		132,378
R/C Construction Materials	0.3%	0.5%	410	Sample Count	16		



Table 38: Northwest WGA Residential Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	7.6%	+/-	8,434	Paper Products	9.9%	+/-	10,980
Newspaper Packaging	0.0%	0.0%	0,434	Newspaper	3.3 % 1.0%	0.6%	1,142
Cardboard/Kraft Paper Packaging	2.3%	0.7%	2,502	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.3%	0.2%	278	Magazines	0.4%	0.3%	441
Mixed/Low Grade Paper Packaging	2.7%	0.7%	2,959	High-Grade Paper Products	0.6%	0.3%	689
Compostable Paper Packaging	0.8%	0.5%	834	Other Groundwood Paper Products	0.3%	0.3%	281
R/C Paper Packaging	1.7%	0.7%	1,861	Mixed Low Grade Paper Products	2.6%	0.9%	2,902
				Compostable Paper Products	4.9%	1.0%	5,411
Plastic Packaging	8.2%		9,074	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.6%	0.1%	642	R/C Paper Products	0.1%	0.1%	114
#1 PETE Plastic Non-bottles	0.4%	0.1%	449				
#2 HDPE Plastic Natural Bottles	0.3%	0.1%	343	Plastic Products	2.9%		3,271
#2 HDPE Plastic Colored Bottles	0.4%	0.2%	421	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.1%	0.1%	146	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.1%	0.1%	79	#3 PVC Plastic Products	0.0%	0.0%	28
#4 LDPE Plastic Packaging	0.0%	0.0%	9	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.5%	0.1%	533	#5 PP Plastic Products	0.0%	0.0%	54
#6 PS Plastic Packaging	0.8%	0.4%	848	#6 PS Plastic Products	0.1%	0.1%	142
#7 Other Plastic Packaging	0.8%	0.1%	904	#7 Other Plastic Products	0.8%	0.2%	907
PLA Packaging	0.0%	0.0%	15	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.9%	0.2%	1,052	Plastic Garbage Bags	1.2%	0.2%	1,286
Non-industrial Packaging Film Plastic	2.7%	0.4%	3,038	Plastic Film Products	0.7%	0.9%	735
Industrial Packaging Film Plastic	0.4%	0.4%	432	R/C Plastic Products	0.1%	0.1%	118
R/C Plastic Packaging	0.1%	0.1%	163				
				Consumer Products	4.6%		5,131
Glass	2.0%		2,256	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	1.1%	0.5%	1,209	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.3%	0.2%	291	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.4%	0.2%	434	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.1%	47	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.2%	205	Computers	0.0%	0.0%	11
R/C Glass	0.1%	0.1%	70	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	3
Metal	3.0%		3,296	Gaming Equipment	0.0%	0.0%	24
Aluminum Beverage Cans	0.4%	0.1%	468	Other Consumer Electronics	0.1%	0.1%	94
Aluminum Foil/Containers	0.2%	0.1%	222	Textiles - Organic	2.2%	1.2%	2,458
Other Aluminum	0.0%	0.0%	0	Textiles - Synthetic	1.0%	0.5%	1,081
Other Nonferrous	0.1%	0.1%	84	Shoes, Purses, Belts	0.5%	0.4%	506
Food Cans - Tinned	0.6%	0.2%	696	Tires & Rubber	0.5%	0.7%	609
Food Cans - Coated	0.1%	0.1%	154	Furniture	0.2%	0.3%	210
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	0
Other Ferrous Metal	1.2%	0.7%	1,297	R/C Consumer Products	0.1%	0.2%	134
R/C Metals	0.3%	0.2%	374				
				Hazardous/Special Wastes	5.2%		5,786
Organics	49.2%		54,530	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	17.9%	3.3%	19,880	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	6.2%	1.3%	6,891	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	8.3%	3.5%	9,152	Fluorescent Tubes	0.0%	0.0%	0
Prunings	3.1%	2.9%	3,493	Asbestos	0.0%	0.0%	0
Animal Manure	12.6%	6.0%	13,947	Latex Paint	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	21
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	0
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	16
R/C Organics	1.1%	0.7%	1,168	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.0%	0.0%	14
Wood Debris	1.8%		2,029	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	0.1%	0.1%	66	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	0.4%	0.4%	472	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	0.1%	0.1%	108	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.3%	0.4%	311	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	0
Other Untreated Wood	0.2%	0.3%	264	Explosives	0.0%	0.0%	2
Wood By-Products	0.7%	0.8%	784	Medical Wastes	0.0%	0.0%	3
R/C Wood Debris	0.0%	0.0%	24	Pharmaceuticals/Vitamins	0.0%	0.0%	18
				Disposable Diapers	4.8%	1.4%	5,343
Construction Materials	3.1%		3,432	Other Cleaners & Soaps	0.1%	0.1%	151
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.0%	0.0%	0
Insulation	0.2%	0.2%	167	Other Non-hazardous	0.2%	0.3%	217
Asphalt Paving	0.0%	0.0%	0				
Concrete	0.0%	0.0%	0	Residues	2.4%		2,693
Drywall	0.0%	0.0%	0	Ash	0.4%	0.6%	414
Carpet	0.3%	0.5%	371	Dust	0.9%	1.1%	1,046
Carpet Padding	0.0%	0.0%	0	Fines	1.1%	1.1%	1,233
Soil, Rocks, Sand	0.6%	0.8%	719	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.0%	0.0%	0				5
Plastic Flooring	0.1%	0.1%	55				
Ceramics & Brick	0.3%	0.2%	366	Totals	100.0%		110,912
	1.6%	2.1%	1,755	Sample Count	14		-,



Table 39: Northwest WGA Self-hauled C&D Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	0.6%		227	Paper Products	0.7%		257
Newspaper Packaging	0.0%	0.0%	10	Newspaper	0.0%	0.0%	0
Cardboard/Kraft Paper Packaging	0.4%	0.5%	151	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.0%	0.0%	0	Magazines	0.1%	0.1%	32
Mixed/Low Grade Paper Packaging	0.1%	0.2%	37	High-Grade Paper Products	0.0%	0.0%	5
Compostable Paper Packaging	0.0%	0.0%	0	Other Groundwood Paper Products	0.0%	0.0%	0
R/C Paper Packaging	0.1%	0.1%	28	Mixed Low Grade Paper Products	0.3%	0.5%	106
				Compostable Paper Products	0.1%	0.1%	26
Plastic Packaging	0.4%	0.404	130	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.0%	0.1%	12	R/C Paper Products	0.2%	0.3%	88
#1 PETE Plastic Non-bottles	0.0%	0.0%	1				
#2 HDPE Plastic Natural Bottles	0.0%	0.0%	0	Plastic Products	0.2%	0.00/	82
#2 HDPE Plastic Colored Bottles	0.0%	0.0%	4	#1 PETE Plastic Products #2 HDPE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.0%	0.0%	0		0.0%	0.0%	0
#3 PVC Plastic Packaging #4 LDPE Plastic Packaging	0.0% 0.0%	0.0% 0.0%	0	#3 PVC Plastic Products #4 LDPE Plastic Products	0.0% 0.0%	0.0% 0.0%	0
#4 LDFE Flastic Fackaging #5 PP Plastic Packaging	0.0%	0.0%	1	#4 LDPE Flastic Floducts #5 PP Plastic Products	0.0%	0.0%	0
	0.0%	0.0%	4	#6 PS Plastic Products	0.0%	0.0%	0
#6 PS Plastic Packaging #7 Other Plastic Packaging		0.0%	4 60	#7 Other Plastic Products	0.0%	0.0%	29
PLA Packaging	0.2% 0.0%	0.3%	00	PLA Products	0.1%	0.1%	29
	0.0%	0.0%	3		0.0%	0.0%	15
Plastic Merchandise Bags Non-industrial Packaging Film Plastic	0.0%	0.0%	3	Plastic Garbage Bags Plastic Film Products	0.0%	0.1%	15
Industrial Packaging Film Plastic	0.0%	0.0%	4 40	R/C Plastic Products	0.0%	0.0%	37
	0.1%	0.1%	40 1	N/G FIASIIC FIOUUCIS	0.1%	0.2%	31
R/C Plastic Packaging	0.0%	0.0%	1	Consumer Products	0.9%		350
Glass	1.5%		573	Televisions - CRT	0.9% 0.0%	0.0%	350 0
Clear Glass Containers	0.0%	0.0%	4	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.0%	0.0%	4	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.0%	0.0%	10	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	1.5%	2.5%	559	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	0	Computers	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0	Computer Peripherals	0.0%	0.0%	0
100 01233	0.070	0.070	0	Audio Equipment	0.0%	0.0%	0
Metal	0.1%		47	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.0%	0.0%	0	Other Consumer Electronics	0.0%	0.0%	28
Aluminum Foil/Containers	0.0%	0.0%	0	Textiles - Organic	0.5%	0.8%	181
Other Aluminum	0.0%	0.0%	0	Textiles - Synthetic	0.2%	0.3%	65
Other Nonferrous	0.1%	0.1%	20	Shoes, Purses, Belts	0.2%	0.3%	76
Food Cans - Tinned	0.0%	0.0%	0	Tires & Rubber	0.0%	0.0%	0
Food Cans - Coated	0.0%	0.0%	0	Furniture	0.0%	0.0%	0
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	ů 0
Other Ferrous Metal	0.0%	0.1%	15	R/C Consumer Products	0.0%	0.0%	0
R/C Metals	0.0%	0.0%	12		0.070	0.070	0
	01070	0.070		Hazardous/Special Wastes	0.1%		32
Organics	3.3%		1,222	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	0.0%	0.0%	9	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	0.0%	0.0%	0	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	3.3%	4.4%	1,213	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.0%	0.0%	0	Asbestos	0.0%	0.0%	0
Animal Manure	0.0%	0.0%	0	Latex Paint	0.0%	0.0%	9
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	0
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	0
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	0.0%	0.0%	0	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.0%	0.0%	0
Wood Debris	44.9%		16,705	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	3.6%	5.0%	1,347	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	25.2%	12.6%	9,350	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	8.9%	8.9%	3,292	Antifreeze	0.0%	0.0%	0
Engineered Wood	1.6%	1.6%	606	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	0
Other Untreated Wood	5.5%	6.8%	2,049	Explosives	0.0%	0.0%	0
Wood By-Products	0.0%	0.0%	0	Medical Wastes	0.0%	0.0%	0
R/C Wood Debris	0.2%	0.2%	61	Pharmaceuticals/Vitamins	0.0%	0.0%	1
				Disposable Diapers	0.0%	0.0%	0
Construction Materials	47.2%		17,537	Other Cleaners & Soaps	0.0%	0.0%	0
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.0%	0.0%	0
Insulation	0.5%	0.8%	188	Other Non-hazardous	0.1%	0.1%	22
Asphalt Paving	10.9%	17.0%	4,068				
Concrete	0.0%	0.0%	0	Residues	0.0%		6
Drywall	3.3%	5.3%	1,219	Ash	0.0%	0.0%	0
Carpet	6.8%	11.2%	2,516	Dust	0.0%	0.0%	0
Carpet Padding	0.0%	0.0%	0	Fines	0.0%	0.0%	6
Soil, Rocks, Sand	0.0%	0.0%	3	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	10.3%	9.5%	3,823				
Plastic Flooring	0.0%	0.0%	0				
Ceramics & Brick	5.0%	8.1%	1,840	Totals	100.0%		37,169
R/C Construction Materials	10.4%	12.3%	3,881	Sample Count	11		



Table 40: Northwest WGA Self-hauled Other Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	8.7%	••	2,243	Paper Products	14.0%		3,606
Newspaper Packaging	0.0%	0.0%	0	Newspaper	3.8%	4.6%	967
Cardboard/Kraft Paper Packaging	6.1%	5.2%	1,571	Cardboard/Kraft Paper Products	0.0%	0.1%	11
Other Groundwood Paper Packaging	0.0%	0.0%	7	Magazines	1.9%	1.8%	497
Mixed/Low Grade Paper Packaging	1.3%	0.7%	328	High-Grade Paper Products	0.2%	0.2%	53
Compostable Paper Packaging	0.1%	0.1%	37	Other Groundwood Paper Products	3.7%	3.9%	960
R/C Paper Packaging	1.2%	0.9%	300	Mixed Low Grade Paper Products	2.3%	2.6%	595
				Compostable Paper Products	1.6%	1.1%	400
Plastic Packaging	8.0%		2,061	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.9%	0.8%	244	R/C Paper Products	0.5%	0.5%	123
#1 PETE Plastic Non-bottles	0.2%	0.2%	45				
#2 HDPE Plastic Natural Bottles	0.3%	0.2%	74	Plastic Products	10.1%		2,606
#2 HDPE Plastic Colored Bottles	0.7%	0.5%	176	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.2%	0.3%	63	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.2%	0.2%	42
#4 LDPE Plastic Packaging	0.0%	0.0%	1	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.6%	0.6%	162	#5 PP Plastic Products	0.0%	0.0%	4
#6 PS Plastic Packaging	1.0%	0.6%	256	#6 PS Plastic Products	0.1%	0.2%	30
#7 Other Plastic Packaging	0.6%	0.5%	146	#7 Other Plastic Products	5.9%	3.6%	1,530
PLA Packaging	0.0%	0.1%	10	PLA Products	0.0%	0.0%	1,000
Plastic Merchandise Bags	0.3%	0.2%	80	Plastic Garbage Bags	1.7%	1.2%	427
Non-industrial Packaging Film Plastic	2.7%	1.9%	704	Plastic Film Products	0.0%	0.0%	11
Industrial Packaging Film Plastic	2.7%	0.3%	704 85	R/C Plastic Products	2.2%	0.0% 2.7%	564
R/C Plastic Packaging	0.3%	0.3%	85 14		2.270	2.1 /0	504
NO Masile Fackaying	U. 170	0.170	14	Consumer Products	14.9%		3,833
Class	5.1%		4 200			4.40/	
Glass		4 50/	1,308	Televisions - CRT	2.5%	4.1%	650
Clear Glass Containers	2.0%	1.5%	515	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.7%	1.0%	181	VCR's, DVD's, DVR's	1.3%	2.0%	324
Brown Glass Containers	0.4%	0.4%	110	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	1.4%	2.1%	362	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.3%	0.4%	79	Computers	0.0%	0.0%	0
R/C Glass	0.2%	0.2%	61	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	0
Metal	11.4%		2,927	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.3%	0.2%	68	Other Consumer Electronics	1.2%	1.3%	318
Aluminum Foil/Containers	0.2%	0.3%	46	Textiles - Organic	4.6%	3.3%	1,180
Other Aluminum	0.0%	0.0%	0	Textiles - Synthetic	1.3%	0.8%	322
Other Nonferrous	0.1%	0.1%	17	Shoes, Purses, Belts	1.0%	1.1%	264
Food Cans - Tinned	0.9%	0.6%	232	Tires & Rubber	0.9%	0.8%	237
Food Cans - Coated	0.1%	0.1%	32	Furniture	0.0%	0.0%	0
White Goods	0.0%	0.0%	0	Mattresses	1.8%	2.8%	452
Other Ferrous Metal	1.2%	0.6%	312	R/C Consumer Products	0.3%	0.5%	86
R/C Metals	8.6%	6.3%	2,220				
			_,	Hazardous/Special Wastes	4.1%		1,050
Organics	13.0%		3,334	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	7.9%	4.3%	2,043	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	2.4%	1.7%	627	Compact Fluorescent Lights	0.0%	0.0%	C
Leaves & Grass	2.0%	2.6%	506	Fluorescent Tubes	0.0%	0.0%	C
Prunings	0.1%	0.2%	34	Asbestos	0.0%	0.0%	0
Animal Manure	0.0%	0.2%	0	Latex Paint	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.3%	0.3%	68
			0				
Crop Residues	0.0%	0.0%		Latex-based Glues	0.2%	0.3%	51
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	0.5%	0.4%	125	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.1%	0.1%	21
Wood Debris	4.9%		1,253	Wet-cell Batteries	0.0%	0.0%	C
Treated Wood	0.2%	0.2%	63	Gasoline/Kerosene	0.0%	0.0%	C
Painted Wood	0.4%	0.4%	91	Motor Oil	0.0%	0.0%	C
Dimensional Lumber	0.9%	1.3%	242	Antifreeze	0.0%	0.0%	(
Engineered Wood	0.7%	1.1%	175	Other Vehicle Fluids	0.0%	0.0%	C
Pallets & Crates	0.2%	0.4%	57	Oil Filters	0.0%	0.1%	10
Other Untreated Wood	0.0%	0.0%	4	Explosives	0.0%	0.1%	11
Wood By-Products	0.0%	0.0%	0	Medical Wastes	0.0%	0.0%	1
R/C Wood Debris	2.4%	3.6%	620	Pharmaceuticals/Vitamins	0.0%	0.0%	C
				Disposable Diapers	2.8%	3.7%	716
Construction Materials	5.5%		1,416	Other Cleaners & Soaps	0.1%	0.1%	35
Natural Wood	0.0%	0.0%	6	Other Hazardous	0.0%	0.0%	C
Insulation	0.5%	0.8%	128	Other Non-hazardous	0.5%	0.8%	139
Asphalt Paving	0.0%	0.0%	0				
Concrete	0.0%	0.0%	0	Residues	0.4%		93
Drywall	3.4%	4.0%	883	Ash	0.0%	0.0%	(
Carpet	0.8%	1.3%	214	Dust	0.2%	0.3%	39
Carpet Padding	0.0%	0.0%	214	Fines	0.2%	0.3%	54
Soil, Rocks, Sand	0.0%	0.0%	0	Sludge/Special Industrial	0.2%	0.3%	
			0	Siduye/Special moustrial	0.0%	0.0%	(
Asphalt Roofing	0.0%	0.0%					
Plastic Flooring	0.0%	0.0%	0	Tatala	400.00/		0F 700
Ceramics & Brick	0.2% 0.5%	0.4% 0.6%	60 125	Totals Sample Count	100.0% 11		25,730
R/C Construction Materials							



Puget Sound Waste Generation Area Composition Tables



Table 41: Puget Sound WGA Overall Disposed Waste Stream
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	9.3%		260,030	Paper Products	9.8%		276,212
Newspaper Packaging	0.3%	0.5%	8,518	Newspaper	1.6%	0.8%	45,889
Cardboard/Kraft Paper Packaging	3.5%	1.4%	98,468	Cardboard/Kraft Paper Products	0.1%	0.1%	2,176
Other Groundwood Paper Packaging	0.1%	0.1%	3,766	Magazines	0.9%	0.4%	24,166
Mixed/Low Grade Paper Packaging	2.7%	0.7%	77,088	High-Grade Paper Products	1.0%	0.5%	27,740
Compostable Paper Packaging	1.1%	0.8%	31,986	Other Groundwood Paper Products	0.3%	0.3%	7,727
R/C Paper Packaging	1.4%	0.8%	40,202	Mixed Low Grade Paper Products	1.2%	0.5%	35,057
				Compostable Paper Products	4.4%	1.5%	122,803
Plastic Packaging	6.9%		194,420	Paper Processing Sludge	0.0%	0.0%	C
#1 PETE Plastic Bottles	0.6%	0.1%	16,317	R/C Paper Products	0.4%	0.5%	10,654
#1 PETE Plastic Non-bottles	0.3%	0.1%	8,598				
#2 HDPE Plastic Natural Bottles	0.2%	0.1%	6,179	Plastic Products	4.6%		130,360
#2 HDPE Plastic Colored Bottles	0.3%	0.1%	9,823	#1 PETE Plastic Products	0.0%	0.0%	72
#2 HDPE Plastic Jars & Tubs	0.5%	0.6%	14,994	#2 HDPE Plastic Products	0.0%	0.0%	328
#3 PVC Plastic Packaging	0.0%	0.0%	440	#3 PVC Plastic Products	0.0%	0.0%	(
#4 LDPE Plastic Packaging	0.0%	0.0%	22	#4 LDPE Plastic Products	0.0%	0.0%	(
#5 PP Plastic Packaging	0.3%	0.1%	8,597	#5 PP Plastic Products	0.1%	0.1%	2,607
#6 PS Plastic Packaging	0.4%	0.1%	10,169	#6 PS Plastic Products	0.1%	0.1%	4,180
#7 Other Plastic Packaging	0.5%	0.1%	13,873	#7 Other Plastic Products	1.3%	0.5%	36,04
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	(
Plastic Merchandise Bags	0.5%	0.1%	13,163	Plastic Garbage Bags	1.3%	0.3%	36,840
Non-industrial Packaging Film Plastic	2.0%	0.5%	57,133	Plastic Film Products	0.2%	0.2%	5,680
Industrial Packaging Film Plastic	0.3%	0.3%	9,573	R/C Plastic Products	1.6%	1.0%	44,61
R/C Plastic Packaging	0.9%	1.3%	25,537				
-				Consumer Products	6.2%		175,237
Glass	2.1%		58,769	Televisions - CRT	0.6%	1.0%	16,99
Clear Glass Containers	0.7%	0.3%	20,864	Televisions - LCD	0.0%	0.0%	(
Green Glass Containers	0.0%	0.0%	1,154	VCR's, DVD's, DVR's	0.0%	0.1%	89
Brown Glass Containers	0.2%	0.1%	4,781	Computer Monitors - CRT	0.0%	0.0%	(
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	(
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.2%	6,237	Computers	0.0%	0.0%	(
R/C Glass	0.9%	1.0%	25,732	Computer Peripherals	0.1%	0.1%	2,062
			-	Audio Equipment	0.1%	0.1%	1,838
Metal	6.7%		188,206	Gaming Equipment	0.0%	0.0%	114
Aluminum Beverage Cans	0.5%	0.3%	14,188	Other Consumer Electronics	0.8%	0.6%	22.664
Aluminum Foil/Containers	0.1%	0.1%	2,785	Textiles - Organic	1.6%	0.6%	43.874
Other Aluminum	0.1%	0.1%	3,333	Textiles - Synthetic	0.9%	0.4%	24,449
Other Nonferrous	0.1%	0.1%	2,120	Shoes, Purses, Belts	0.4%	0.2%	10,932
Food Cans - Tinned	0.8%	0.5%	21,686	Tires & Rubber	0.1%	0.1%	4,076
Food Cans - Coated	0.1%	0.1%	2,880	Furniture	1.7%	1.9%	46,845
White Goods	0.0%	0.0%	2,000	Mattresses	0.0%	0.0%	.0,010
Other Ferrous Metal	3.5%	2.3%	97,285	R/C Consumer Products	0.0%	0.0%	493
R/C Metals	1.6%	1.2%	43,930	NO Consumer roducts	0.070	0.070	430
TVO Metals	1.070	1.270	45,550	Hazardous/Special Wastes	4.1%		115,004
Organics	28.3%		795,872	Pesticides/Herbicides	0.0%	0.0%	172
Food - Vegetative	15.5%	4.6%	435,262	Mercury Vapor Lighting	0.0%	0.0%	(
Food - Non-vegetative	6.0%	2.8%	169,058	Compact Fluorescent Lights	0.0%	0.0%	75
Leaves & Grass	2.4%	2.5%	68,079	Fluorescent Tubes	0.0%	0.0%	(
Prunings	0.1%	0.1%	3,723	Asbestos	0.0%	0.0%	(
Animal Manure	3.7%	1.9%		Latex Paint	0.0%	0.0%	
Animal Manure Animal Carcasses	3.7% 0.0%	0.0%	104,798 291	Solvent-based Glues	0.1%	0.1%	2,535 7,336
				Latex-based Glues			,
Crop Residues	0.0%	0.0%	0		0.0%	0.0%	4
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	496
R/C Organics	0.5%	0.3%	14,662	Caustic Cleaners	0.0%	0.0%	638
Waad Dahria	7 60/		040 000	Dry-cell Batteries	0.0%	0.0%	494
Wood Debris	7.5%	4 404	210,036	Wet-cell Batteries	0.0%	0.0%	(
Treated Wood	1.0%	1.1%	27,488	Gasoline/Kerosene	0.0%	0.1%	1,31
Painted Wood	1.4%	1.2%	38,246	Motor Oil	0.0%	0.0%	(
Dimensional Lumber	0.7%	0.6%	19,578	Antifreeze	0.0%	0.0%	(
Engineered Wood	1.0%	0.8%	29,112	Other Vehicle Fluids	0.0%	0.0%	(
Pallets & Crates	1.6%	1.7%	45,722	Oil Filters	0.0%	0.0%	(
Other Untreated Wood	0.7%	0.9%	18,536	Explosives	0.0%	0.0%	(
Wood By-Products	0.2%	0.2%	6,276	Medical Wastes	0.3%	0.5%	9,41
R/C Wood Wastes	0.9%	0.7%	25,077	Pharmaceuticals/Vitamins	0.0%	0.0%	69
				Disposable Diapers	3.1%	1.1%	87,64
Construction Materials	14.2%		399,938	Other Cleaners & Soaps	0.1%	0.1%	3,599
Natural Wood	0.1%	0.2%	3,190	Other Hazardous	0.0%	0.0%	124
Insulation	0.4%	0.5%	9,932	Other Non-hazardous	0.0%	0.0%	422
Asphalt Paving	0.0%	0.0%	0				
Concrete	0.0%	0.1%	1,112	Residues	0.2%		6,90
Drywall	3.5%	3.6%	97,428	Ash	0.2%	0.3%	5,34
Carpet	3.7%	3.2%	103,496	Dust	0.1%	0.1%	1,55
Carpet Padding	0.9%	1.4%	24,302	Fines	0.0%	0.0%	,
Soil, Rocks, Sand	0.9%	1.0%	26,617	Sludge/Special Industrial	0.0%	0.0%	
Asphalt Roofing	1.3%	1.2%	36,881	J			
Plastic Flooring	0.3%	0.4%	7,587				
Ceramics & Brick	2.0%	2.6%	56,451	Totals	100.0%		2,810,98



Table 42: Puget Sound WGA Commercial Dis	posed Waste Sector
Detailed Composition, 200)9

Naterial	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	11.4%		152,263	Paper Products	9.3%		123,847
Newspaper Packaging	0.6%	1.0%	8,197	Newspaper	1.1%	0.9%	14,482
Cardboard/Kraft Paper Packaging	4.4%	2.3%	58,017	Cardboard/Kraft Paper Products	0.1%	0.1%	1,109
Other Groundwood Paper Packaging	0.1%	0.1%	1,769	Magazines	0.5%	0.6%	7,266
Mixed/Low Grade Paper Packaging	2.7%	1.3%	36,315	High-Grade Paper Products	1.2%	1.0%	15,973
Compostable Paper Packaging	1.7%	1.5%	22,135	Other Groundwood Paper Products	0.1%	0.1%	1,44
R/C Paper Packaging	1.9%	1.7%	25,831	Mixed Low Grade Paper Products	1.0%	0.7%	13,31
				Compostable Paper Products	5.1%	3.0%	67,998
Plastic Packaging	7.2%		95,880	Paper Processing Sludge	0.0%	0.0%	(
#1 PETE Plastic Bottles	0.3%	0.2%	4,362	R/C Paper Products	0.2%	0.2%	2,258
#1 PETE Plastic Non-bottles	0.3%	0.2%	3,574				
#2 HDPE Plastic Natural Bottles	0.1%	0.1%	1,801	Plastic Products	4.4%		58,810
#2 HDPE Plastic Colored Bottles	0.1%	0.1%	1,713	#1 PETE Plastic Products	0.0%	0.0%	72
#2 HDPE Plastic Jars & Tubs	1.0%	1.3%	13,301	#2 HDPE Plastic Products	0.0%	0.0%	(
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.0%	0.0%	(
#4 LDPE Plastic Packaging	0.0%	0.0%	0	#4 LDPE Plastic Products	0.0%	0.0%	(
#5 PP Plastic Packaging	0.2%	0.1%	2,478	#5 PP Plastic Products	0.1%	0.2%	1,432
#6 PS Plastic Packaging	0.2%	0.1%	2,344	#6 PS Plastic Products	0.2%	0.2%	2,469
#7 Other Plastic Packaging	0.3%	0.2%	3,523	#7 Other Plastic Products	0.7%	0.4%	9,803
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	(
Plastic Merchandise Bags	0.2%	0.2%	2,986	Plastic Garbage Bags	1.7%	0.7%	22,360
Non-industrial Packaging Film Plastic	2.2%	0.9%	29,707	Plastic Film Products	0.1%	0.1%	807
Industrial Packaging Film Plastic	0.5%	0.5%	6,805	R/C Plastic Products	1.6%	1.6%	21,87
R/C Plastic Packaging	1.7%	2.8%	23,287				
				Consumer Products	1.9%		25,28
Blass	1.6%		20,959	Televisions - CRT	0.0%	0.0%	
Clear Glass Containers	0.3%	0.3%	4,540	Televisions - LCD	0.0%	0.0%	
Green Glass Containers	0.0%	0.0%	0	VCR's, DVD's, DVR's	0.0%	0.0%	
Brown Glass Containers	0.0%	0.0%	405	Computer Monitors - CRT	0.0%	0.0%	
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	
Stoneware/Kitchen Ceramics/Glassware	0.1%	0.1%	674	Computers	0.0%	0.0%	(
R/C Glass	1.2%	1.9%	15,340	Computer Peripherals	0.0%	0.0%	
				Audio Equipment	0.0%	0.0%	
/letal	6.8%		90,557	Gaming Equipment	0.0%	0.0%	
Aluminum Beverage Cans	0.5%	0.5%	6,665	Other Consumer Electronics	1.2%	1.0%	15,53
Aluminum Foil/Containers	0.1%	0.1%	1,083	Textiles - Organic	0.5%	0.4%	6,30
Other Aluminum	0.2%	0.2%	2,840	Textiles - Synthetic	0.2%	0.2%	2,16
Other Nonferrous	0.2%	0.2%	2,106	Shoes, Purses, Belts	0.1%	0.1%	91
Food Cans - Tinned	0.9%	1.1%	11,638	Tires & Rubber	0.0%	0.0%	19
Food Cans - Coated	0.0%	0.0%	108	Furniture	0.0%	0.0%	
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	
Other Ferrous Metal	2.9%	3.5%	38,569	R/C Consumer Products	0.0%	0.0%	17
R/C Metals	2.1%	2.5%	27,548		0.070	0.070	
N/O metals	2.170	2.570	27,540	Hazardous/Special Wastes	2.6%		34,24
Organics	26.9%		357,976	Pesticides/Herbicides	0.0%	0.0%	04,24
Food - Vegetative	18.1%	9.4%	241,401	Mercury Vapor Lighting	0.0%	0.0%	
Food - Non-vegetative	8.1%	5.9%	107,807	Compact Fluorescent Lights	0.0%	0.0%	
Leaves & Grass	0.0%	0.1%	650	Fluorescent Tubes	0.0%	0.0%	
				Asbestos		0.0%	
Prunings	0.0%	0.0%	337		0.0%		40
Animal Manure	0.2%	0.4%	3,320	Latex Paint	0.0%	0.0%	40
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	
R/C Organics	0.3%	0.5%	4,462	Caustic Cleaners	0.0%	0.1%	55
No od Dobolo	E 664			Dry-cell Batteries	0.0%	0.0%	
Vood Debris	5.9%		78,682	Wet-cell Batteries	0.0%	0.0%	
Treated Wood	1.6%	2.2%	21,021	Gasoline/Kerosene	0.1%	0.2%	1,31
Painted Wood	1.3%	1.5%	17,508	Motor Oil	0.0%	0.0%	
Dimensional Lumber	0.7%	0.9%	9,361	Antifreeze	0.0%	0.0%	
Engineered Wood	0.8%	1.0%	10,813	Other Vehicle Fluids	0.0%	0.0%	
Pallets & Crates	0.5%	0.6%	6,204	Oil Filters	0.0%	0.0%	
Other Untreated Wood	0.1%	0.1%	1,131	Explosives	0.0%	0.0%	
Wood By-Products	0.0%	0.0%	0	Medical Wastes	0.7%	1.1%	9,12
R/C Wood Debris	0.9%	1.0%	12,645	Pharmaceuticals/Vitamins	0.0%	0.1%	63
				Disposable Diapers	1.6%	1.6%	21,72
Construction Materials	22.0%		293,562	Other Cleaners & Soaps	0.0%	0.0%	47
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.0%	0.0%	
Insulation	0.7%	1.1%	9,852	Other Non-hazardous	0.0%	0.0%	
Asphalt Paving	0.0%	0.0%	0				
	0.0%	0.0%	0	Residues	0.0%		
Concrete		7.2%	75,459	Ash	0.0%	0.0%	
Drywall	5.7%	1.2/0					
	5.7% 5.6%	6.4%	74,357	Dust	0.0%	0.0%	
Drywall Carpet	5.6%	6.4%		Dust Fines			
Drywall Carpet Carpet Padding	5.6% 1.8%	6.4% 3.0%	24,302	Fines	0.0%	0.0%	
Drywall Carpet Carpet Padding Soil, Rocks, Sand	5.6% 1.8% 1.6%	6.4% 3.0% 2.0%	24,302 21,587				
Drywall Carpet Carpet Padding Soil, Rocks, Sand Asphalt Roofing	5.6% 1.8% 1.6% 0.2%	6.4% 3.0% 2.0% 0.3%	24,302 21,587 2,378	Fines	0.0%	0.0%	
Drywall Carpet Carpet Padding Soil, Rocks, Sand	5.6% 1.8% 1.6%	6.4% 3.0% 2.0%	24,302 21,587	Fines	0.0%	0.0%	



Table 43: Puget Sound WGA Residential Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	7.8%		76,441	Paper Products	12.7%		124,036
Newspaper Packaging	0.0%	0.0%	0	Newspaper	2.1%	1.1%	20,809
Cardboard/Kraft Paper Packaging	1.5%	0.5%	15,021	Cardboard/Kraft Paper Products	0.1%	0.1%	600
Other Groundwood Paper Packaging	0.2%	0.1%	1,855	Magazines	1.3%	0.8%	12,480
Mixed/Low Grade Paper Packaging	3.8%	0.9%	37,052	High-Grade Paper Products	1.1%	0.6%	10,865
Compostable Paper Packaging	1.0%	0.7%	9,338	Other Groundwood Paper Products	0.6%	0.7%	6,282
R/C Paper Packaging	1.3%	0.2%	13,175	Mixed Low Grade Paper Products	2.1%	0.9%	20,137
			-, -	Compostable Paper Products	5.3%	1.2%	52,012
Plastic Packaging	9.0%		88,211	Paper Processing Sludge	0.0%	0.0%	02,012
#1 PETE Plastic Bottles	1.1%	0.2%	10,755	R/C Paper Products	0.1%	0.1%	851
#1 PETE Plastic Non-bottles	0.5%	0.1%	4,882		0.170	0.170	
#2 HDPE Plastic Natural Bottles	0.4%	0.2%	4,078	Plastic Products	4.4%		43,067
#2 HDPE Plastic Colored Bottles	0.4%	0.2%	7,418	#1 PETE Plastic Products	0.0%	0.0%	43,00
#2 HDPE Plastic Jars & Tubs							
	0.1%	0.1%	879	#2 HDPE Plastic Products	0.0%	0.0%	(
#3 PVC Plastic Packaging	0.0%	0.1%	379	#3 PVC Plastic Products	0.0%	0.0%	(
#4 LDPE Plastic Packaging	0.0%	0.0%	22	#4 LDPE Plastic Products	0.0%	0.0%	(
#5 PP Plastic Packaging	0.6%	0.2%	5,708	#5 PP Plastic Products	0.0%	0.0%	(
#6 PS Plastic Packaging	0.8%	0.4%	7,471	#6 PS Plastic Products	0.2%	0.1%	1,693
#7 Other Plastic Packaging	1.0%	0.2%	9,628	#7 Other Plastic Products	1.5%	1.0%	14,916
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	
Plastic Merchandise Bags	1.0%	0.2%	9,428	Plastic Garbage Bags	1.3%	0.2%	12,83
Non-industrial Packaging Film Plastic	2.6%	0.4%	25,641	Plastic Film Products	0.1%	0.1%	1,052
Industrial Packaging Film Plastic	0.0%	0.1%	318	R/C Plastic Products	1.3%	1.5%	12,575
R/C Plastic Packaging	0.2%	0.1%	1,602				,010
	0.2/0	0.170	1,002	Consumer Products	6.8%		66,31
Glass	2.4%		23,165	Televisions - CRT	1.7%	2.9%	16,99
Clear Glass Containers		0.7%	13,067		0.0%	0.0%	
	1.3%			Televisions - LCD			(
Green Glass Containers	0.1%	0.0%	620	VCR's, DVD's, DVR's	0.0%	0.0%	(
Brown Glass Containers	0.4%	0.4%	4,145	Computer Monitors - CRT	0.0%	0.0%	(
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	(
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.2%	1,642	Computers	0.0%	0.0%	(
R/C Glass	0.4%	0.2%	3,691	Computer Peripherals	0.0%	0.1%	337
				Audio Equipment	0.0%	0.0%	84
Metal	4.1%		39,582	Gaming Equipment	0.0%	0.0%	(
Aluminum Beverage Cans	0.6%	0.3%	6,336	Other Consumer Electronics	0.2%	0.2%	1,518
Aluminum Foil/Containers	0.2%	0.1%	1,641	Textiles - Organic	2.2%	1.2%	21.686
Other Aluminum	0.0%	0.1%	422	Textiles - Synthetic	1.3%	0.9%	12,803
Other Nonferrous	0.0%	0.0%	0	Shoes, Purses, Belts	0.9%	0.4%	9,026
Food Cans - Tinned	0.9%	0.4%	9,188	Tires & Rubber	0.4%	0.3%	3,545
Food Cans - Coated	0.2%	0.1%	2,415	Furniture	0.0%	0.0%	C
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	(
Other Ferrous Metal	0.9%	0.4%	8,608	R/C Consumer Products	0.0%	0.0%	323
R/C Metals	1.1%	0.7%	10,974				
				Hazardous/Special Wastes	8.1%		78,845
Organics	42.2%		412,401	Pesticides/Herbicides	0.0%	0.0%	(
Food - Vegetative	19.0%	3.0%	185,207	Mercury Vapor Lighting	0.0%	0.0%	(
Food - Non-vegetative	6.0%	1.5%	58,588	Compact Fluorescent Lights	0.0%	0.0%	53
Leaves & Grass	6.6%	7.1%	64,079	Fluorescent Tubes	0.0%	0.0%	(
Prunings	0.3%	0.3%	2,767	Asbestos	0.0%	0.0%	(
Animal Manure	9.8%	5.3%	95,461	Latex Paint	0.2%	0.2%	2,126
Animal Carcasses	0.0%	0.0%	291	Solvent-based Glues	0.2 %	1.2%	7,336
Crop Residues	0.0%	0.0%	291	Latex-based Glues	0.8%	0.0%	7,336
•							
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.1%	396
R/C Organics	0.6%	0.3%	6,008	Caustic Cleaners	0.0%	0.0%	(
				Dry-cell Batteries	0.0%	0.1%	48
Wood Debris	0.7%		6,442	Wet-cell Batteries	0.0%	0.0%	(
Treated Wood	0.0%	0.0%	38	Gasoline/Kerosene	0.0%	0.0%	(
	0.09/	0.0%	196	Motor Oil	0.0%	0.0%	(
Painted Wood	0.0%					0.0%	(
Painted Wood Dimensional Lumber	0.0%	0.0%	0	Antifreeze	0.0%	0.070	
			0 464	Antifreeze Other Vehicle Fluids	0.0% 0.0%	0.0%	(
Dimensional Lumber	0.0%	0.0%					(
Dimensional Lumber Engineered Wood	0.0% 0.0% 0.0%	0.0% 0.1% 0.0%	464 0	Other Vehicle Fluids Oil Filters	0.0% 0.0%	0.0% 0.0%	(
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood	0.0% 0.0% 0.0% 0.1%	0.0% 0.1% 0.0% 0.1%	464 0 826	Other Vehicle Fluids Oil Filters Explosives	0.0% 0.0% 0.0%	0.0% 0.0% 0.0%	(
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products	0.0% 0.0% 0.1% 0.4%	0.0% 0.1% 0.0% 0.1% 0.6%	464 0 826 3,805	Other Vehicle Fluids Oil Filters Explosives Medical Wastes	0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.1%	((29
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood	0.0% 0.0% 0.0% 0.1%	0.0% 0.1% 0.0% 0.1%	464 0 826	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins	0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.1% 0.0%	((295 48
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris	0.0% 0.0% 0.1% 0.4% 0.1%	0.0% 0.1% 0.0% 0.1% 0.6%	464 0 826 3,805 1,114	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers	0.0% 0.0% 0.0% 0.0% 6.7%	0.0% 0.0% 0.1% 0.0% 2.3%	(299 48 65,703
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials	0.0% 0.0% 0.1% 0.4% 0.1% 1.7%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1%	464 0 826 3,805 1,114 16,625	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps	0.0% 0.0% 0.0% 0.0% 6.7% 0.2%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2%	(299 41 65,703 1,85
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1%	464 0 826 3,805 1,114 16,625 84	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0%	299 44 65,703 1,85 124
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1%	464 0 826 3,805 1,114 16,625 84 0	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps	0.0% 0.0% 0.0% 0.0% 6.7% 0.2%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2%	(299 41 65,703 1,85
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1%	464 0 826 3,805 1,114 16,625 84 0 0	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous Other Non-hazardous	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0%	299 44 65,70 1,85 12 42
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1%	464 0 826 3,805 1,114 16,625 84 0	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0%	29 4 65,70 1,85 12
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1%	464 0 826 3,805 1,114 16,625 84 0 0	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous Other Non-hazardous	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0%	29 4 65,70 1,85 12 42 1,49
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving Concrete	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0% 0.0%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1% 0.0% 0.0% 0.0%	464 0 826 3,805 1,114 16,625 84 0 0 0	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous Other Non-hazardous Residues	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0% 0.1%	29 4 65,70 1,85 12 42 1,49
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving Concrete Drywall Carpet	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.1% 0.6% 0.1% 0.6% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.7%	464 0 826 3,805 1,114 16,625 84 0 0 0 0 0 7,631	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Roardous Other Non-hazardous Residues Ash Dust	0.0% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0% 0.1%	29 4 65,70 1,85 12 42 1,49 1,49
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving Concrete Drywall Carpet Padding	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.1% 0.0% 0.1% 0.6% 0.1% 0.0% 0.0% 0.0% 0.0% 0.7% 0.0%	464 0 826 3,805 1,114 16,625 84 0 0 0 0 0 7,631 0	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous Other Non-hazardous Residues Ash Dust Fines	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0% 0.0% 0.0% 0.2% 0.0% 0.2% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0% 0.1%	29 4 65,70 1,85 12 42 1,49 1,49
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving Concrete Drywall Carpet Carpet Padding Soil, Rocks, Sand	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	0.0% 0.1% 0.0% 0.1% 0.6% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.3%	464 0 826 3,805 1,114 16,625 84 0 0 0 0 7,631 7,631 0 2,235	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Roardous Other Non-hazardous Residues Ash Dust	0.0% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0% 0.1%	29 4 65,70 1,85 12 42 1,49 1,49
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving Concrete Drywall Carpet Carpet Padding Soil, Rocks, Sand Asphalt Roofing	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	0.0% 0.1% 0.1% 0.6% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	464 0 826 3,805 1,114 16,625 84 0 0 0 0 7,631 0 2,235 3,921	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous Other Non-hazardous Residues Ash Dust Fines	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0% 0.0% 0.0% 0.2% 0.0% 0.2% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0% 0.1%	29 4 65,70 1,85 12 42 1,49 1,49
Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood Wood By-Products R/C Wood Debris Construction Materials Natural Wood Insulation Asphalt Paving Concrete Drywall Carpet Carpet Padding Soil, Rocks, Sand	0.0% 0.0% 0.1% 0.4% 0.1% 1.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	0.0% 0.1% 0.0% 0.1% 0.6% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.3%	464 0 826 3,805 1,114 16,625 84 0 0 0 0 7,631 7,631 0 2,235	Other Vehicle Fluids Oil Filters Explosives Medical Wastes Pharmaceuticals/Vitamins Disposable Diapers Other Cleaners & Soaps Other Hazardous Other Non-hazardous Residues Ash Dust Fines	0.0% 0.0% 0.0% 0.0% 6.7% 0.2% 0.0% 0.0% 0.0% 0.2% 0.0% 0.2% 0.0%	0.0% 0.0% 0.1% 0.0% 2.3% 0.2% 0.0% 0.1%	29 4 65,70 1,85 12 42 1,49 1,49



Table 44: Puget Sound WGA Self-hauled C&D Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	0.8%		1,498	Paper Products	0.5%		904
Newspaper Packaging	0.0%	0.0%	0	Newspaper	0.0%	0.0%	0
Cardboard/Kraft Paper Packaging	0.7%	0.9%	1,308	Cardboard/Kraft Paper Products	0.3%	0.4%	467
Other Groundwood Paper Packaging	0.0%	0.0%	0	Magazines	0.0%	0.0%	0
Mixed/Low Grade Paper Packaging	0.0%	0.0%	0	High-Grade Paper Products	0.0%	0.0%	4
Compostable Paper Packaging	0.0%	0.1%	85	Other Groundwood Paper Products	0.0%	0.0%	0
R/C Paper Packaging	0.1%	0.1%	105	Mixed Low Grade Paper Products	0.0%	0.1%	85
				Compostable Paper Products	0.2%	0.2%	341
Plastic Packaging	1.0%		1,816	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.0%	0.0%	86	R/C Paper Products	0.0%	0.0%	7
#1 PETE Plastic Non-bottles	0.0%	0.0%	0	·			
#2 HDPE Plastic Natural Bottles	0.1%	0.1%	141	Plastic Products	1.6%		2,886
#2 HDPE Plastic Colored Bottles	0.0%	0.0%	4	#1 PETE Plastic Products	0.0%	0.0%	_,0
#2 HDPE Plastic Jars & Tubs	0.4%	0.7%	743	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.0%	0.0%	0
#4 LDPE Plastic Packaging	0.0%	0.0%	0 0	#4 LDPE Plastic Products	0.0%	0.0%	ő
#5 PP Plastic Packaging	0.0%	0.0%	52	#5 PP Plastic Products	0.0%	0.0%	Ő
#6 PS Plastic Packaging	0.0%	0.0%	48	#6 PS Plastic Products	0.0%	0.0%	19
		0.0%	40				665
#7 Other Plastic Packaging	0.0%		0	#7 Other Plastic Products	0.4%	0.5%	000
PLA Packaging	0.0%	0.0%		PLA Products	0.0%	0.0%	
Plastic Merchandise Bags	0.0%	0.0%	22	Plastic Garbage Bags	0.3%	0.2%	529
Non-industrial Packaging Film Plastic	0.2%	0.2%	273	Plastic Film Products	0.0%	0.0%	7
Industrial Packaging Film Plastic	0.2%	0.3%	410	R/C Plastic Products	0.9%	1.4%	1,666
R/C Plastic Packaging	0.0%	0.0%	28				
				Consumer Products	3.1%		5,566
Glass	0.2%		434	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	0.2%	0.3%	434	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.0%	0.0%	0	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.0%	0.0%	0	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	0	Computers	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	0
Metal	2.1%		3,841	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.0%	0.0%	10	Other Consumer Electronics	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	11	Textiles - Organic	0.1%	0.1%	127
Other Aluminum	0.0%	0.0%	0	Textiles - Synthetic	0.3%	0.4%	493
Other Nonferrous	0.0%	0.0%	0	Shoes, Purses, Belts	0.0%	0.0%	22
Food Cans - Tinned	0.0%	0.0%	26	Tires & Rubber	0.1%	0.1%	93
Food Cans - Coated	0.0%	0.0%	0	Furniture	2.7%	4.5%	4,831
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	4,001
Other Ferrous Metal	1.7%	1.6%	3,034	R/C Consumer Products	0.0%	0.0%	0
R/C Metals	0.4%	0.4%	761	N/C Consumer Froducts	0.078	0.078	0
R/C Metals	0.4%	0.4%	701	Hazardous/Special Wastes	0.0%		78
Organica	3.0%		E 444	Pesticides/Herbicides	0.0%	0.0%	/ o 0
Organics		0.70/	5,444				
Food - Vegetative	0.5%	0.7%	849	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	0.3%	0.4%	482	Compact Fluorescent Lights	0.0%	0.0%	22
Leaves & Grass	0.0%	0.0%	0	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.0%	0.1%	63	Asbestos	0.0%	0.0%	0
Animal Manure	0.0%	0.0%	0	Latex Paint	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	0
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	41
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	2.2%	2.2%	4,049	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.0%	0.0%	11
Wood Debris	43.5%		78,865	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	3.5%	6.0%	6,366	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	10.1%	14.2%	18,354	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	5.5%	6.6%	9,917	Antifreeze	0.0%	0.0%	0
Engineered Wood	9.8%	10.3%	17,836	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	4.0%	6.3%	7,316	Oil Filters	0.0%	0.0%	Ő
Other Untreated Wood	7.7%	13.1%	13,928	Explosives	0.0%	0.0%	0
Wood By-Products	0.5%	0.7%	831	Medical Wastes	0.0%	0.0%	0
R/C Wood Debris	2.4%	2.6%	4,318	Pharmaceuticals/Vitamins	0.0%	0.0%	4
	2.7/0	2.070	4,010	Disposable Diapers	0.0%	0.0%	4
Construction Materials	44.1%		79,842	Other Cleaners & Soaps	0.0%	0.0%	0
Natural Wood		2 00/					
	1.7%	2.9%	3,105	Other Hazardous	0.0%	0.0%	0
Insulation	0.0%	0.1%	80	Other Non-hazardous	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0				-
Concrete	0.0%	0.0%	0	Residues	0.0%		0
Drywall	10.1%	15.6%	18,348	Ash	0.0%	0.0%	0
Carpet	10.8%	17.7%	19,498	Dust	0.0%	0.0%	0
	0.0%	0.0%	0	Fines	0.0%	0.0%	0
Carpet Padding				Obudate (On a stall is described		0.0%	0
Carpet Padding Soil, Rocks, Sand	1.5%	2.6%	2,795	Sludge/Special Industrial	0.0%	0.0%	0
	1.5% 16.9%	2.6% 17.8%	2,795 30,581	Sludge/Special Industrial	0.0%	0.0%	0
Soil, Rocks, Sand Asphalt Roofing	16.9%	17.8%	30,581	Sludge/Special Industrial	0.0%	0.0%	0
Soil, Rocks, Sand				Sludge/Special industrial	0.0% 100.0%	0.0%	181,174



Table 45: Puget Sound WGA Self-hauled Other Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	9.3%		29,827	Paper Products	8.5%		27,424
Newspaper Packaging	0.1%	0.1%	321	Newspaper	3.3%	4.3%	10,598
Cardboard/Kraft Paper Packaging	7.5%	7.1%	24,123	Cardboard/Kraft Paper Products	0.0%	0.0%	(
Other Groundwood Paper Packaging	0.0%	0.1%	143	Magazines	1.4%	1.5%	4,420
Mixed/Low Grade Paper Packaging	1.2%	1.0%	3,721	High-Grade Paper Products	0.3%	0.4%	898
Compostable Paper Packaging	0.1%	0.2%	428	Other Groundwood Paper Products	0.0%	0.0%	(
R/C Paper Packaging	0.3%	0.3%	1,091	Mixed Low Grade Paper Products	0.5%	0.6%	1,519
			.,	Compostable Paper Products	0.8%	0.8%	2,452
Plastic Packaging	2.7%		8,513	Paper Processing Sludge	0.0%	0.0%	2,432
#1 PETE Plastic Bottles	0.3%	0.3%	1,113	R/C Paper Products	2.3%	3.9%	7,538
#1 PETE Plastic Non-bottles	0.0%	0.3%	143	No raper riducia	2.570	0.070	7,000
#2 HDPE Plastic Natural Bottles	0.0%	0.1%	143	Plastic Products	8.0%		25,591
						0.00/	
#2 HDPE Plastic Colored Bottles	0.2%	0.2%	688	#1 PETE Plastic Products	0.0%	0.0%	(
#2 HDPE Plastic Jars & Tubs	0.0%	0.0%	71	#2 HDPE Plastic Products	0.1%	0.1%	328
#3 PVC Plastic Packaging	0.0%	0.0%	61	#3 PVC Plastic Products	0.0%	0.0%	(
#4 LDPE Plastic Packaging	0.0%	0.0%	0	#4 LDPE Plastic Products	0.0%	0.0%	(
#5 PP Plastic Packaging	0.1%	0.1%	359	#5 PP Plastic Products	0.4%	0.4%	1,175
#6 PS Plastic Packaging	0.1%	0.1%	307	#6 PS Plastic Products	0.0%	0.0%	(
#7 Other Plastic Packaging	0.2%	0.2%	715	#7 Other Plastic Products	3.3%	2.4%	10,657
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	
Plastic Merchandise Bags	0.2%	0.1%	727	Plastic Garbage Bags	0.3%	0.2%	1,12
Non-industrial Packaging Film Plastic	0.5%	0.3%	1,511	Plastic Film Products	1.2%	1.3%	3,814
Industrial Packaging Film Plastic	0.5%	0.5%	2,040	R/C Plastic Products	2.6%	2.5%	8,49
R/C Plastic Packaging		0.5%	2,040		2.070	2.J /0	0,49
NO FIASUU FAUKAYINY	0.2%	0.1%	620	Concurrer Broducto	24.20/		70.0-
2laaa	4 404		44.040	Consumer Products	24.3%	0.00/	78,07
Glass	4.4%	4 664	14,210	Televisions - CRT	0.0%	0.0%	
Clear Glass Containers	0.9%	1.3%	2,823	Televisions - LCD	0.0%	0.0%	
Green Glass Containers	0.2%	0.2%	535	VCR's, DVD's, DVR's	0.3%	0.5%	89
Brown Glass Containers	0.1%	0.1%	232	Computer Monitors - CRT	0.0%	0.0%	
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	
Stoneware/Kitchen Ceramics/Glassware	1.2%	2.0%	3,921	Computers	0.0%	0.0%	
R/C Glass	2.1%	3.2%	6,701	Computer Peripherals	0.5%	0.9%	1,72
			-, -	Audio Equipment	0.5%	0.7%	1,75
Metal	16.9%		54,225	Gaming Equipment	0.0%	0.1%	11-
Aluminum Beverage Cans	0.4%	0.4%	1,178	Other Consumer Electronics	1.7%	2.4%	5,61
Aluminum Foil/Containers	0.4%	0.4%	50		4.9%	3.4%	15.75
				Textiles - Organic			-, -
Other Aluminum	0.0%	0.0%	71	Textiles - Synthetic	2.8%	1.8%	8,98
Other Nonferrous	0.0%	0.0%	14	Shoes, Purses, Belts	0.3%	0.5%	96
Food Cans - Tinned	0.3%	0.2%	834	Tires & Rubber	0.1%	0.1%	24
Food Cans - Coated	0.1%	0.1%	356	Furniture	13.1%	16.4%	42,01
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	(
Other Ferrous Metal	14.7%	13.3%	47,074	R/C Consumer Products	0.0%	0.0%	(
R/C Metals	1.4%	1.2%	4,648				
			,	Hazardous/Special Wastes	0.6%		1,84
Organics	6.2%		20,052	Pesticides/Herbicides	0.1%	0.1%	17
Food - Vegetative	2.4%	2.1%	7,805	Mercury Vapor Lighting	0.0%	0.0%	
Food - Non-vegetative	0.7%	0.8%	2,181	Compact Fluorescent Lights	0.0%	0.0%	
Leaves & Grass	1.0%	1.8%	3,350	Fluorescent Tubes	0.0%	0.0%	
Prunings	0.2%	0.3%	556	Asbestos	0.0%	0.0%	
Animal Manure	1.9%	2.0%	6,016	Latex Paint	0.0%	0.0%	
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.1%	10
R/C Organics	0.0%	0.1%	143	Caustic Cleaners	0.0%	0.0%	8
				Dry-cell Batteries	0.0%	0.0%	
Nood Debris	14.3%		46,046	Wet-cell Batteries	0.0%	0.0%	
Treated Wood	0.0%	0.0%	64	Gasoline/Kerosene	0.0%	0.0%	
Painted Wood	0.7%	0.8%	2.189	Motor Oil	0.0%	0.0%	
Dimensional Lumber	0.1%	0.2%	299	Antifreeze	0.0%	0.0%	
Engineered Wood	0.1%	0.2%	299	Other Vehicle Fluids	0.0%	0.0%	
Pallets & Crates	10.0%	0.0% 14.5%	32,202	Oil Filters	0.0%	0.0%	
Other Untreated Wood							
	0.8%	1.1%	2,652	Explosives	0.0%	0.0%	
Wood By-Products	0.5%	0.8%	1,640	Medical Wastes	0.0%	0.0%	
R/C Wood Debris	2.2%	3.5%	7,000	Pharmaceuticals/Vitamins	0.0%	0.0%	
				Disposable Diapers	0.1%	0.1%	21
Construction Materials	3.1%		9,908	Other Cleaners & Soaps	0.4%	0.6%	1,26
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.0%	0.0%	
Insulation	0.0%	0.0%	0	Other Non-hazardous	0.0%	0.0%	
Asphalt Paving	0.0%	0.0%	0				
Concrete	0.3%	0.6%	1,112	Residues	1.7%		5,40
Drywall	1.1%	1.9%	3,621	Ash	1.7%	2.6%	5,34
Carpet	0.6%	1.0%	2,010	Dust	0.0%	0.0%	6
Carpet Padding	0.0%	0.0%	0	Fines	0.0%	0.0%	
Soil, Rocks, Sand	0.0%	0.0%	0	Sludge/Special Industrial	0.0%	0.0%	
Asphalt Roofing	0.0%	0.0%	0				
Plastic Flooring	0.0%	0.0%	0				
Ceramics & Brick	0.1%	0.2%	385	Totals	100.0%		321,12



Southwest Waste Generation Area Composition Tables



Table 46: Southwest WGA Overall Disposed Waste Sector Detailed Composition, 2009

					-		
Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	10.7%		45,753	Paper Products	7.6%		32,492
Newspaper Packaging	0.4%	0.2%	1,750	Newspaper	0.4%	0.2%	1,745
Cardboard/Kraft Paper Packaging	2.8%	0.7%	11,801	Cardboard/Kraft Paper Products	0.1%	0.1%	330
Other Groundwood Paper Packaging	0.2%	0.2%	682	Magazines	0.6%	0.3%	2,636
Mixed/Low Grade Paper Packaging	1.7%	0.5%	7,200	High-Grade Paper Products	0.9%	0.4%	3,822
Compostable Paper Packaging	1.7%	1.2%	7,273	Other Groundwood Paper Products	0.1%	0.1%	446
R/C Paper Packaging	4.0%	2.8%	17,048	Mixed Low Grade Paper Products	1.5%	0.8%	6,583
				Compostable Paper Products	3.6%	1.3%	15,273
Plastic Packaging	6.5%	0.00/	27,823	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.6%	0.2%	2,471	R/C Paper Products	0.4%	0.3%	1,657
#1 PETE Plastic Non-bottles	0.2%	0.0%	837	Direction Davadase to	4.40/		47.045
#2 HDPE Plastic Natural Bottles	0.3%	0.1%	1,112	Plastic Products	4.1%	0.00/	17,345
#2 HDPE Plastic Colored Bottles	0.2%	0.0%	858	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.2%	0.2%	872	#2 HDPE Plastic Products	0.0%	0.0%	66
#3 PVC Plastic Packaging #4 LDPE Plastic Packaging	0.0% 0.0%	0.0% 0.0%	45 37	#3 PVC Plastic Products #4 LDPE Plastic Products	0.0% 0.0%	0.0% 0.0%	38 0
00	0.0%	0.0%	1,080	#4 LDFE Flastic Floducts #5 PP Plastic Products	0.0%	0.0%	323
#5 PP Plastic Packaging	0.3%	0.0%	1,080	#6 PS Plastic Products	0.1%	0.1%	873
#6 PS Plastic Packaging							
#7 Other Plastic Packaging	0.5% 0.0%	0.2% 0.0%	2,347 13	#7 Other Plastic Products PLA Products	1.2% 0.0%	0.4% 0.0%	5,238 41
PLA Packaging		0.0%	1,697		1.2%	0.0%	5,145
Plastic Merchandise Bags	0.4%			Plastic Garbage Bags			
Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic	3.0% 0.4%	1.8%	12,878	Plastic Film Products R/C Plastic Products	0.3% 1.0%	0.2% 0.6%	1,368
	0.4%	0.3% 0.1%	1,616 569	NO FIASILE FIOUUCIS	1.0%	0.070	4,253
R/C Plastic Packaging	0.1%	U.1%	800	Consumer Products	9.2%		39,399
Glass	3.1%		13,450	Televisions - CRT	9.2% 1.1%	0.8%	4,539
Clear Glass Containers	0.9%	0.4%	3,725	Televisions - LCD	0.0%	0.0%	4,559
Green Glass Containers	0.3%	0.4%	1.258	VCR's, DVD's, DVR's	0.0%	0.0%	339
Brown Glass Containers	0.5%	0.2%	1,230	Computer Monitors - CRT	0.1%	0.1%	519
Plate Glass	0.5%	0.5%	2,252	Computer Monitors - LCD	0.0%	0.2 %	0
Stoneware/Kitchen Ceramics/Glassware	0.3%	0.3%	985	Computers	0.0%	0.0%	495
R/C Glass	0.8%	0.2%	3,251	Computer Peripherals	0.0%	0.0%	137
N/C Glass	0.076	0.076	3,231	Audio Equipment	0.0%	0.0%	414
Metal	4.7%		20,157	Gaming Equipment	0.0%	0.0%	171
Aluminum Beverage Cans	0.2%	0.1%	1,035	Other Consumer Electronics	0.0%	0.3%	1,541
Aluminum Foil/Containers	0.2 %	0.1%	377	Textiles - Organic	2.5%	1.0%	10,821
Other Aluminum	0.0%	0.0%	70	Textiles - Synthetic	0.8%	0.3%	3,561
Other Nonferrous	0.1%	0.0%	618	Shoes, Purses, Belts	0.3%	0.2%	1,355
Food Cans - Tinned	0.6%	0.1%	2,464	Tires & Rubber	0.3%	0.2%	1,203
Food Cans - Coated	0.1%	0.2%	2,404	Furniture	2.0%	1.4%	8,657
White Goods	0.2%	0.3%	655	Mattresses	0.5%	0.6%	2,182
Other Ferrous Metal	1.9%	0.8%	8,269	R/C Consumer Products	0.8%	0.8%	3,464
R/C Metals	1.5%	0.7%	6,393		0.070	0.070	0,404
n e motale		0.1.70	0,000	Hazardous/Special Wastes	5.6%		24,125
Organics	23.5%		100,440	Pesticides/Herbicides	0.0%	0.0%	44
Food - Vegetative	12.6%	3.6%	53,864	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	5.3%	1.5%	22,519	Compact Fluorescent Lights	0.0%	0.0%	6
Leaves & Grass	2.4%	1.3%	10,076	Fluorescent Tubes	0.0%	0.0%	51
Prunings	0.6%	0.5%	2,482	Asbestos	0.0%	0.0%	0
Animal Manure	2.1%	0.7%	9,021	Latex Paint	0.1%	0.1%	410
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	41
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	13
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	64
R/C Organics	0.6%	0.3%	2,479	Caustic Cleaners	0.0%	0.0%	0
-				Dry-cell Batteries	0.1%	0.0%	264
Wood Debris	12.3%		52,579	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	3.1%	3.2%	13,329	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	2.0%	2.0%	8,446	Motor Oil	0.1%	0.1%	270
Dimensional Lumber	1.2%	0.7%	4,969	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.8%	0.6%	3,440	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	2.6%	2.1%	11,320	Oil Filters	0.0%	0.0%	143
Other Untreated Wood	0.2%	0.3%	1,011	Explosives	0.0%	0.0%	0
Wood By-Products	0.7%	0.5%	3,120	Medical Wastes	1.1%	1.1%	4,579
R/C Wood Wastes	1.6%	1.0%	6,945	Pharmaceuticals/Vitamins	0.0%	0.0%	31
				Disposable Diapers	3.9%	1.4%	16,793
Construction Materials	12.1%		51,976	Other Cleaners & Soaps	0.2%	0.1%	792
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.1%	0.1%	503
Insulation	0.3%	0.2%	1,256	Other Non-hazardous	0.0%	0.0%	123
Asphalt Paving	0.9%	1.4%	3,684				
Concrete	0.2%	0.3%	832	Residues	0.6%		2,545
Drywall	2.1%	1.1%	9,152	Ash	0.4%	0.7%	1,732
Carpet	1.5%	1.0%	6,355	Dust	0.1%	0.1%	249
Carpet Padding	0.6%	0.5%	2,483	Fines	0.1%	0.1%	565
Soil, Rocks, Sand	2.1%	3.3%	9,072	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	2.0%	2.5%	8,492				
Plastic Flooring	0.2%	0.3%	767				
Ceramics & Brick	0.7%	1.0%	3,047	Totals	100.0%		428,085
R/C Construction Materials	1.6%	0.8%	6,836	Sample Count	88		



Table 47: Southwest WGA Commercial Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	15.2%		31,648	Paper Products	8.0%		16,693
Newspaper Packaging	0.4%	0.3%	749	Newspaper	0.4%	0.3%	750
Cardboard/Kraft Paper Packaging	3.3%	1.1%	6,918	Cardboard/Kraft Paper Products	0.1%	0.1%	175
Other Groundwood Paper Packaging	0.3%	0.4%	566	Magazines	0.6%	0.5%	1,280
Mixed/Low Grade Paper Packaging	1.4%	0.8%	3,005	High-Grade Paper Products	0.9%	0.5%	1,980
Compostable Paper Packaging	2.6%	2.4%	5,380	Other Groundwood Paper Products	0.0%	0.1%	97
R/C Paper Packaging	7.2%	5.7%	15,031	Mixed Low Grade Paper Products	1.6%	1.5%	3,341
				Compostable Paper Products	3.7%	2.5%	7,634
Plastic Packaging	7.2%	0.00/	15,027	Paper Processing Sludge	0.0%	0.0%	(
#1 PETE Plastic Bottles	0.5%	0.3%	1,051	R/C Paper Products	0.7%	0.7%	1,437
#1 PETE Plastic Non-bottles	0.1%	0.1%	250	Plastia Producto	4 40/		0 667
#2 HDPE Plastic Natural Bottles	0.2%	0.1%	313	Plastic Products	4.1%	0.00/	8,553
#2 HDPE Plastic Colored Bottles #2 HDPE Plastic Jars & Tubs	0.1%	0.1%	186	#1 PETE Plastic Products	0.0%	0.0%	
	0.4%	0.3%	750	#2 HDPE Plastic Products	0.0%	0.1%	66
#3 PVC Plastic Packaging	0.0% 0.0%	0.0% 0.0%	20 0	#3 PVC Plastic Products #4 LDPE Plastic Products	0.0% 0.0%	0.0% 0.0%	37
#4 LDPE Plastic Packaging			271				147
#5 PP Plastic Packaging	0.1%	0.1%	495	#5 PP Plastic Products	0.1%	0.1%	
#6 PS Plastic Packaging	0.2%	0.1%		#6 PS Plastic Products	0.3%	0.3%	543
#7 Other Plastic Packaging	0.4%	0.3%	924	#7 Other Plastic Products	0.7%	0.4%	1,437
PLA Packaging	0.0%	0.0%	13	PLA Products	0.0%	0.0%	(
Plastic Merchandise Bags	0.1%	0.1%	251	Plastic Garbage Bags	1.5%	0.8%	3,211
Non-industrial Packaging Film Plastic	4.3%	3.6%	8,949	Plastic Film Products	0.2%	0.2%	405
Industrial Packaging Film Plastic	0.6%	0.6%	1,277	R/C Plastic Products	1.3%	1.2%	2,70
R/C Plastic Packaging	0.1%	0.1%	277		C F0/		40 -
Class	2.0%		4 00 4	Consumer Products	6.5%	0.70/	13,53
Glass	2.0%	0.00/	4,094	Televisions - CRT	0.4%	0.7%	884
Clear Glass Containers	0.9%	0.8%	1,948	Televisions - LCD	0.0%	0.0%	(
Green Glass Containers	0.3%	0.3%	610	VCR's, DVD's, DVR's	0.0%	0.0%	(
Brown Glass Containers	0.5%	0.7%	956	Computer Monitors - CRT	0.0%	0.0%	(
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	(
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	36	Computers	0.0%	0.0%	(
R/C Glass	0.3%	0.3%	543	Computer Peripherals	0.0%	0.0%	(
M-1-1	4 00/		0 000	Audio Equipment	0.0%	0.0%	(
Metal	4.8%	0.40/	9,933	Gaming Equipment	0.0%	0.0%	(
Aluminum Beverage Cans	0.2%	0.1%	355	Other Consumer Electronics	0.0%	0.0%	
Aluminum Foil/Containers	0.0%	0.0%	92	Textiles - Organic	2.5%	1.8%	5,299
Other Aluminum	0.0%	0.0%	12	Textiles - Synthetic	0.4%	0.3%	846
Other Nonferrous	0.2%	0.3%	394	Shoes, Purses, Belts	0.1%	0.1%	24
Food Cans - Tinned	0.5%	0.5%	1,074	Tires & Rubber	0.2%	0.1%	322
Food Cans - Coated	0.0%	0.0%	8	Furniture	1.8%	2.4%	3,714
White Goods	0.0%	0.0%	0	Mattresses	0.6%	1.0%	1,207
Other Ferrous Metal	2.2%	1.4%	4,641	R/C Consumer Products	0.5%	0.6%	1,021
R/C Metals	1.6%	1.2%	3,358				
	10.00/			Hazardous/Special Wastes	4.9%	0.00/	10,339
Organics	18.0%	7 00/	37,615	Pesticides/Herbicides	0.0%	0.0%	(
Food - Vegetative	11.7%	7.2%	24,389	Mercury Vapor Lighting	0.0%	0.0%	(
Food - Non-vegetative	4.2%	2.7%	8,711	Compact Fluorescent Lights	0.0%	0.0%	(
Leaves & Grass	1.1%	1.5%	2,340	Fluorescent Tubes	0.0%	0.0%	40
Prunings	0.0%	0.0%	13	Asbestos	0.0%	0.0%	(
Animal Manure	0.7%	1.1%	1,375	Latex Paint	0.0%	0.0%	56
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	(
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	(
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	30
R/C Organics	0.4%	0.5%	787	Caustic Cleaners	0.0%	0.0%	(
No od Dobala	10.001		oc	Dry-cell Batteries	0.0%	0.0%	38
Wood Debris	16.2%	0.5%	33,794	Wet-cell Batteries	0.0%	0.0%	(
Treated Wood	5.7%	6.5%	11,938	Gasoline/Kerosene	0.0%	0.0%	(
Painted Wood	2.5%	4.0%	5,300	Motor Oil	0.1%	0.2%	27
Dimensional Lumber	1.0%	1.1%	1,993	Antifreeze	0.0%	0.0%	(
Engineered Wood	1.3%	1.0%	2,626	Other Vehicle Fluids	0.0%	0.0%	(
Pallets & Crates	4.1%	3.9%	8,601	Oil Filters	0.0%	0.0%	(
Other Untreated Wood	0.1%	0.1%	111	Explosives	0.0%	0.0%	1.04
Wood By-Products	0.4%	0.6%	861	Medical Wastes	2.1%	2.3%	4,31
R/C Wood Debris	1.1%	1.8%	2,363	Pharmaceuticals/Vitamins	0.0%	0.0%	
	10.07		ar	Disposable Diapers	2.5%	2.7%	5,213
Construction Materials	12.3%	0.671	25,752	Other Cleaners & Soaps	0.0%	0.0%	(
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.2%	0.3%	375
Insulation	0.1%	0.2%	296	Other Non-hazardous	0.0%	0.0%	(
Asphalt Paving	1.7%	2.8%	3,621	-			
Concrete	0.0%	0.0%	0	Residues	0.9%		1,88
Drywall	0.0%	0.0%	28	Ash	0.8%	1.3%	1,73
Carpet	0.1%	0.1%	234	Dust	0.0%	0.0%	
Carpet Padding	0.3%	0.5%	660	Fines	0.1%	0.1%	14
Soil, Rocks, Sand	4.2%	6.8%	8,839	Sludge/Special Industrial	0.0%	0.0%	
Asphalt Roofing	3.1%	5.1%	6,438				
Plastic Flooring	0.3%	0.6%	709				
Ceramics & Brick	1.2%	2.0%	2,576	Totals	100.0%		208,86
R/C Construction Materials	1.1%	1.1%	2,351	Sample Count	27		



Table 48: Southwest WGA Residential Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	8.6%		12,317	Paper Products	10.2%		14,650
Newspaper Packaging	0.6%	0.5%	904	Newspaper	0.7%	0.3%	955
Cardboard/Kraft Paper Packaging	2.6%	1.1%	3,797	Cardboard/Kraft Paper Products	0.0%	0.1%	52
Other Groundwood Paper Packaging	0.1%	0.1%	94	Magazines	0.7%	0.4%	1,028
Mixed/Low Grade Paper Packaging	2.8%	0.6%	3,981	High-Grade Paper Products	1.3%	0.8%	1,797
Compostable Paper Packaging	1.3%	0.6%	1,817	Other Groundwood Paper Products	0.1%	0.1%	161
R/C Paper Packaging	1.2%	0.2%	1,724	Mixed Low Grade Paper Products	2.1%	0.7%	3,048
				Compostable Paper Products	5.2%	1.4%	7,478
Plastic Packaging	8.3%		11,827	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.9%	0.1%	1,354	R/C Paper Products	0.1%	0.1%	130
#1 PETE Plastic Non-bottles	0.4%	0.1%	563				
#2 HDPE Plastic Natural Bottles	0.5%	0.2%	781	Plastic Products	4.5%		6,489
#2 HDPE Plastic Colored Bottles	0.4%	0.1%	641	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.1%	0.1%	101	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	26	#3 PVC Plastic Products	0.0%	0.0%	0
#4 LDPE Plastic Packaging	0.0%	0.0%	37	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.5%	0.0%	778	#5 PP Plastic Products	0.1%	0.1%	174
#6 PS Plastic Packaging	0.5%	0.2%	769	#6 PS Plastic Products	0.2%	0.1%	284
#7 Other Plastic Packaging	0.9%	0.2%	1,264	#7 Other Plastic Products	1.7%	0.7%	2,501
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	41
Plastic Merchandise Bags	1.0%	0.2%	1,416	Plastic Garbage Bags	1.3%	0.1%	1,898
Non-industrial Packaging Film Plastic	2.5%	0.3%	3,623	Plastic Film Products	0.7%	0.5%	948
Industrial Packaging Film Plastic	0.1%	0.1%	206	R/C Plastic Products	0.4%	0.2%	643
R/C Plastic Packaging	0.2%	0.1%	268				
To Thable Tablaging	0.270	0.170	200	Consumer Products	7.0%		10.068
Glass	3.0%		4,278	Televisions - CRT	0.8%	1.3%	1,143
Clear Glass Containers	1.2%	0.4%	1,754	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.4%	0.3%	636	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.6%	0.3%	857	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	0	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.3%	0.2%	473	Computers	0.0%	0.0%	6
R/C Glass	0.3%	0.2%	558	Computer Peripherals	0.0%	0.0%	51
170 01855	0.478	0.270	556	Audio Equipment	0.3%	0.0%	414
Metal	3.1%		4,469		0.3%	0.4%	137
		0.40/		Gaming Equipment			
Aluminum Beverage Cans	0.5%	0.1%	663	Other Consumer Electronics	0.9%	0.8%	1,281
Aluminum Foil/Containers	0.2%	0.1%	278	Textiles - Organic	2.5%	0.7%	3,562
Other Aluminum	0.0%	0.0%	52	Textiles - Synthetic	1.3%	0.7%	1,876
Other Nonferrous	0.0%	0.1%	62	Shoes, Purses, Belts	0.4%	0.3%	519
Food Cans - Tinned	0.9%	0.2%	1,324	Tires & Rubber	0.4%	0.3%	602
Food Cans - Coated	0.2%	0.1%	251	Furniture	0.0%	0.0%	0
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	0
Other Ferrous Metal	0.7%	0.4%	1,074	R/C Consumer Products	0.3%	0.3%	476
R/C Metals	0.5%	0.4%	766				
	10 50		F0 070	Hazardous/Special Wastes	8.9%	0.00/	12,784
Organics	40.5%		58,076	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	20.2%	2.2%	28,913	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	9.3%	2.1%	13,355	Compact Fluorescent Lights	0.0%	0.0%	6
Leaves & Grass	3.5%	2.2%	4,967	Fluorescent Tubes	0.0%	0.0%	12
Prunings	1.5%	1.4%	2,184	Asbestos	0.0%	0.0%	0
Animal Manure	4.9%	1.4%	7,054	Latex Paint	0.0%	0.0%	7
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	40
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	9
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	32
R/C Organics	1.1%	0.5%	1,604	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.1%	0.1%	210
Wood Debris	2.1%		3,055	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	0.3%	0.4%	451	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	0.8%	0.6%	1,124	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	0.1%	0.1%	156	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.1%	0.1%	111	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.1%	0.1%	143
Other Untreated Wood	0.0%	0.0%	28	Explosives	0.0%	0.0%	0
Wood By-Products	0.4%	0.3%	609	Medical Wastes	0.2%	0.2%	259
R/C Wood Debris	0.4%	0.4%	576	Pharmaceuticals/Vitamins	0.0%	0.0%	28
				Disposable Diapers	7.9%	1.9%	11,351
Construction Materials	3.3%		4,686	Other Cleaners & Soaps	0.3%	0.2%	486
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.1%	0.1%	80
Insulation	0.3%	0.5%	443	Other Non-hazardous	0.1%	0.1%	121
Asphalt Paving	0.0%	0.1%	62				
Concrete	0.1%	0.1%	125	Residues	0.5%		657
Drywall	0.4%	0.4%	572	Ash	0.0%	0.0%	0
Carpet	1.2%	1.3%	1,680	Dust	0.2%	0.2%	249
Carpet Padding	0.2%	0.4%	330	Fines	0.3%	0.3%	408
Soil, Rocks, Sand	0.1%	0.2%	208	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.1%	0.1%	91				Ū
Plastic Flooring	0.0%	0.1%	58				
Ceramics & Brick	0.1%	0.1%	137	Totals	100.0%		143,358



Table 49: Southwest WGA Self-hauled C&D Disposed Waste Sector Detailed Composition, 2009

					-		
Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	2.0%		571	Paper Products	0.3%		73
Newspaper Packaging	0.3%	0.5%	92	Newspaper	0.0%	0.0%	3
Cardboard/Kraft Paper Packaging	1.3%	0.7%	354	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.0%	0.0%	0	Magazines	0.0%	0.1%	9
Mixed/Low Grade Paper Packaging	0.4%	0.6%	112	High-Grade Paper Products	0.0%	0.1%	12
Compostable Paper Packaging	0.0%	0.0%	2	Other Groundwood Paper Products	0.0%	0.0%	0
R/C Paper Packaging	0.0%	0.0%	11	Mixed Low Grade Paper Products	0.0%	0.0%	3
Disetia Deskezing	0.4%		124	Compostable Paper Products	0.0%	0.0%	1 0
Plastic Packaging #1 PETE Plastic Bottles	0.4%	0.0%	124	Paper Processing Sludge R/C Paper Products	0.0% 0.2%	0.0% 0.3%	46
#1 PETE Plastic Dottles	0.0%	0.0%	° 5	R/C Paper Ploducis	0.2%	0.3%	40
#2 HDPE Plastic Natural Bottles	0.0%	0.0%	3	Plastic Products	2.0%		557
#2 HDPE Plastic Colored Bottles	0.0%	0.0%	9	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.0%	0.0%	0	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.0%	0.0%	0
#4 LDPE Plastic Packaging	0.0%	0.0%	0	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.0%	0.0%	3	#5 PP Plastic Products	0.0%	0.0%	1
#6 PS Plastic Packaging	0.0%	0.0%	0	#6 PS Plastic Products	0.1%	0.1%	24
#7 Other Plastic Packaging	0.0%	0.0%	6	#7 Other Plastic Products	0.4%	0.3%	99
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.0%	0.0%	2	Plastic Garbage Bags	0.0%	0.0%	4
Non-industrial Packaging Film Plastic	0.0%	0.0%	2	Plastic Film Products	0.0%	0.1%	11
Industrial Packaging Film Plastic	0.0%	0.0%	86	R/C Plastic Products	1.5%	1.5%	418
R/C Plastic Packaging	0.0%	0.2%	1		1.070		410
The Flasher dokaging	0.070	0.070		Consumer Products	2.6%		738
Glass	9.8%		2,749	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	0.0%	0.0%	_,	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.0%	0.1%	12	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.0%	0.1%	14	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	6.7%	8.1%	1,880	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	0	Computers	0.0%	0.0%	0
R/C Glass	3.0%	4.9%	835	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	0
Metal	4.9%		1,384	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.0%	0.0%	4	Other Consumer Electronics	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	1	Textiles - Organic	1.5%	2.5%	426
Other Aluminum	0.0%	0.0%	6	Textiles - Synthetic	0.1%	0.1%	16
Other Nonferrous	0.6%	0.6%	160	Shoes, Purses, Belts	1.0%	1.6%	285
Food Cans - Tinned	0.0%	0.0%	4	Tires & Rubber	0.0%	0.1%	11
Food Cans - Coated	0.0%	0.0%	1	Furniture	0.0%	0.0%	0
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	0
Other Ferrous Metal	3.0%	3.1%	837	R/C Consumer Products	0.0%	0.0%	0
R/C Metals	1.3%	1.6%	371				
				Hazardous/Special Wastes	0.1%		38
Organics	1.3%		357	Pesticides/Herbicides	0.0%	0.0%	0
Food - Vegetative	0.0%	0.1%	13	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	0.0%	0.0%	0	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	0.0%	0.0%	2	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.6%	1.0%	173	Asbestos	0.0%	0.0%	0
Animal Manure	0.3%	0.5%	93	Latex Paint	0.1%	0.2%	30
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	0
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	0
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	0
R/C Organics	0.3%	0.3%	75	Caustic Cleaners	0.0%	0.0%	0
				Dry-cell Batteries	0.0%	0.0%	0
Wood Debris	30.2%		8,508	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	3.2%	5.3%	900	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	5.9%	4.9%	1,648	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	4.8%	3.3%	1,351	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.0%	0.0%	6	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	0
Other Untreated Wood	3.0%	4.6%	848	Explosives	0.0%	0.0%	0
Wood By-Products	3.9%	5.9%	1,096	Medical Wastes	0.0%	0.0%	0
R/C Wood Debris	9.4%	6.7%	2,659	Pharmaceuticals/Vitamins	0.0%	0.0%	0
• • • • • • • • •	10.0-1			Disposable Diapers	0.0%	0.0%	1
Construction Materials	46.3%	0.071	13,048	Other Cleaners & Soaps	0.0%	0.0%	7
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.0%	0.0%	0
Insulation	1.6%	1.8%	463	Other Non-hazardous	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0				-
Concrete	2.5%	4.1%	707	Residues	0.0%	0.0	9
Drywall	24.9%	13.4%	7,022	Ash	0.0%	0.0%	0
Carpet	0.3%	0.3%	76	Dust	0.0%	0.0%	0
Carpet Padding	0.0%	0.0%	0	Fines	0.0%	0.1%	9
Soil, Rocks, Sand	0.0%	0.0%	12	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	6.6%	7.4%	1,861				
Plastic Flooring	0.0%	0.0%	0	T - (-) -	100 000		00 150
Ceramics & Brick	1.2%	1.4%	334	Totals	100.0%		28,156
R/C Construction Materials	9.1%	7.4%	2,573	Sample Count	19		



Table 50: Southwest WGA Self-hauled Other Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	2.6%		1,218	Paper Products	2.3%		1,075
Newspaper Packaging	0.0%	0.0%	5	Newspaper	0.1%	0.1%	37
Cardboard/Kraft Paper Packaging	1.5%	1.1%	731	Cardboard/Kraft Paper Products	0.2%	0.3%	103
Other Groundwood Paper Packaging	0.0%	0.1%	23	Magazines	0.7%	1.0%	319
Mixed/Low Grade Paper Packaging	0.2%	0.2%	102	High-Grade Paper Products	0.1%	0.1%	33
Compostable Paper Packaging	0.2%	0.2% 0.7%	74 282	Other Groundwood Paper Products	0.4%	0.6%	187
R/C Paper Packaging	0.6%	0.7%	282	Mixed Low Grade Paper Products	0.4% 0.3%	0.6% 0.3%	192 160
Plastic Packaging	1.8%		844	Compostable Paper Products Paper Processing Sludge	0.3%	0.3%	001
#1 PETE Plastic Bottles	0.1%	0.2%	58	R/C Paper Products	0.0%	0.0%	44
#1 PETE Plastic Non-bottles	0.0%	0.2%	20	No raper rioducia	0.170	0.170	
#2 HDPE Plastic Natural Bottles	0.0%	0.0%	15	Plastic Products	3.7%		1,745
#2 HDPE Plastic Colored Bottles	0.0%	0.0%	22	#1 PETE Plastic Products	0.0%	0.0%	1,745
#2 HDPE Plastic Jars & Tubs	0.0%	0.0%	21	#2 HDPE Plastic Products	0.0%	0.0%	0
#3 PVC Plastic Packaging	0.0%	0.0%	0	#3 PVC Plastic Products	0.0%	0.0%	1
#4 LDPE Plastic Packaging	0.0%	0.0%	0	#4 LDPE Plastic Products	0.0%	0.0%	0
#5 PP Plastic Packaging	0.1%	0.1%	29	#5 PP Plastic Products	0.0%	0.0%	2
#6 PS Plastic Packaging	0.3%	0.4%	126	#6 PS Plastic Products	0.0%	0.1%	22
#7 Other Plastic Packaging	0.3%	0.3%	152	#7 Other Plastic Products	2.5%	2.6%	1,201
PLA Packaging	0.0%	0.3%	0	PLA Products	0.0%	0.0%	1,201
Plastic Merchandise Bags	0.0%	0.0%	27	Plastic Garbage Bags	0.0%	0.0%	31
Non-industrial Packaging Film Plastic	0.1%	0.5%	304	Plastic Film Products	0.0%	0.0%	3
Industrial Packaging Film Plastic	0.6%	0.5%	304 47	R/C Plastic Products	0.0%	1.0%	د 486
R/C Plastic Packaging	0.1%	0.1%	24		1.0 /0	1.0 /0	400
NOT INSUET AURAGING	0.078	0.170	24	Consumer Products	31.6%		15,052
Glass	4.9%		2,329	Televisions - CRT	5.3%	4.9%	2,512
Clear Glass Containers	0.0%	0.0%	15	Televisions - LCD	0.0%	0.0%	2,512
Green Glass Containers	0.0%	0.0%	0	VCR's, DVD's, DVR's	0.7%	0.0%	339
Brown Glass Containers	0.0%	0.0%	151	Computer Monitors - CRT	1.1%	1.8%	519
Plate Glass	0.3%	1.2%	373	Computer Monitors - CCT	0.0%	0.0%	518
Stoneware/Kitchen Ceramics/Glassware	1.0%	1.2%	476		1.0%	1.2%	490
R/C Glass	2.8%	4.4%	1,315	Computers Computer Peripherals	0.2%	0.2%	490
R/C Glass	2.0%	4.4%	1,515	Audio Equipment	0.2%	0.2%	00
Motol	9.2%		4 274				34
Metal		0.00/	4,371	Gaming Equipment	0.1%	0.1%	
Aluminum Beverage Cans	0.0%	0.0%	13	Other Consumer Electronics	0.5%	0.6%	253
Aluminum Foil/Containers	0.0%	0.0%	5	Textiles - Organic	3.2%	3.7%	1,535
Other Aluminum	0.0%	0.0%	0	Textiles - Synthetic	1.7%	1.2%	823
Other Nonferrous	0.0%	0.0%	3	Shoes, Purses, Belts	0.6%	0.7%	310
Food Cans - Tinned	0.1%	0.2%	63	Tires & Rubber	0.6%	0.7%	268
Food Cans - Coated	0.0%	0.1%	17	Furniture	10.4%	7.0%	4,943
White Goods	1.4%	2.3%	655	Mattresses	2.0%	3.3%	975
Other Ferrous Metal	3.6%	2.3%	1,717	R/C Consumer Products	4.1%	6.6%	1,967
R/C Metals	4.0%	3.1%	1,898	11 (0 i-1) M(0.0%		
Ormaniaa	0.0%		4 202	Hazardous/Special Wastes	2.0%	0.40/	964
Organics	9.2%	4.00/	4,393	Pesticides/Herbicides	0.1%	0.1%	44
Food - Vegetative	1.2%	1.2%	549	Mercury Vapor Lighting	0.0%	0.0%	C
Food - Non-vegetative	0.9%	0.8%	453	Compact Fluorescent Lights	0.0%	0.0%	C
Leaves & Grass	5.8%	6.5%	2,767	Fluorescent Tubes	0.0%	0.0%	C
Prunings	0.2%	0.4%	112	Asbestos	0.0%	0.0%	0
Animal Manure	1.0%	1.7%	498	Latex Paint	0.7%	1.0%	316
Animal Carcasses	0.0%	0.0%	0	Solvent-based Glues	0.0%	0.0%	1
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	4
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.0%	0.0%	2
R/C Organics	0.0%	0.0%	14	Caustic Cleaners	0.0%	0.0%	(
Need Debrie	45 494		- 000	Dry-cell Batteries	0.0%	0.0%	16
Nood Debris	15.1%	0.404	7,222	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	0.1%	0.1%	39	Gasoline/Kerosene	0.0%	0.0%	C
Painted Wood	0.8%	0.9%	374	Motor Oil	0.0%	0.0%	(
Dimensional Lumber	3.1%	4.0%	1,469	Antifreeze	0.0%	0.0%	(
Engineered Wood	1.5%	2.4%	697	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	5.7%	7.0%	2,719	Oil Filters	0.0%	0.0%	(
Other Untreated Wood	0.0%	0.1%	24	Explosives	0.0%	0.0%	0
Wood By-Products	1.2%	1.2%	554	Medical Wastes	0.0%	0.0%	3
R/C Wood Debris	2.8%	2.6%	1,347	Pharmaceuticals/Vitamins	0.0%	0.0%	3
				Disposable Diapers	0.5%	0.7%	228
Construction Materials	17.8%		8,489	Other Cleaners & Soaps	0.6%	0.7%	299
Natural Wood	0.0%	0.0%	0	Other Hazardous	0.1%	0.1%	48
Insulation	0.1%	0.2%	54	Other Non-hazardous	0.0%	0.0%	1
Asphalt Paving	0.0%	0.0%	0				
Concrete	0.0%	0.0%	0	Residues	0.0%		C
Drywall	3.2%	5.3%	1,529	Ash	0.0%	0.0%	(
Carpet	9.2%	7.9%	4,365	Dust	0.0%	0.0%	(
Carpet Padding	3.1%	3.5%	1,494	Fines	0.0%	0.0%	(
Soil, Rocks, Sand	0.0%	0.0%	12	Sludge/Special Industrial	0.0%	0.0%	(
Asphalt Roofing	0.2%	0.3%	101	- ·			
Plastic Flooring	0.0%	0.0%	0				
Ceramics & Brick	0.0%	0.0%	0	Totals	100.0%		47,704
	2.0%	2.6%	933	Sample Count	19		,. •



2009 Washington Statewide Waste Characterization Study Appendix D: Waste Generation Area Composition Results

West Waste Generation Area Composition Tables



Table 51: West WGA Overall Disposed Waste StreamDetailed Composition, 2009

	Est.		_Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper Packaging Newspaper Packaging	9.0%	0.20/	15,788	Paper Products	10.4%	0.00/	18,179
Cardboard/Kraft Paper Packaging	0.5% 3.4%	0.3% 0.8%	940 5,998	Newspaper Cardboard/Kraft Paper Products	0.7% 0.1%	0.2% 0.1%	1,297 136
Other Groundwood Paper Packaging	0.1%	0.8%	239	Magazines	1.3%	0.1%	2,272
Mixed/Low Grade Paper Packaging	2.1%	0.1%	3,657	High-Grade Paper Products	1.0%	0.3%	1,685
Compostable Paper Packaging	1.4%	0.4%	2,520	Other Groundwood Paper Products	0.1%	0.2 %	200
R/C Paper Packaging	1.4%	0.5%	2,433	Mixed Low Grade Paper Products	1.5%	0.4%	2,663
N/O T upor T dokuging	1.470	0.070	2,400	Compostable Paper Products	4.7%	1.5%	8,283
Plastic Packaging	7.5%		13,190	Paper Processing Sludge	0.0%	0.0%	0,200
#1 PETE Plastic Bottles	0.8%	0.1%	1,423	R/C Paper Products	0.9%	0.5%	1,642
#1 PETE Plastic Non-bottles	0.3%	0.1%	536	····			.,
#2 HDPE Plastic Natural Bottles	0.3%	0.1%	569	Plastic Products	6.0%		10,494
#2 HDPE Plastic Colored Bottles	0.4%	0.1%	724	#1 PETE Plastic Products	0.0%	0.0%	63
#2 HDPE Plastic Jars & Tubs	0.3%	0.2%	451	#2 HDPE Plastic Products	0.2%	0.3%	392
#3 PVC Plastic Packaging	0.0%	0.0%	48	#3 PVC Plastic Products	0.1%	0.1%	119
#4 LDPE Plastic Packaging	0.0%	0.0%	12	#4 LDPE Plastic Products	0.0%	0.0%	16
#5 PP Plastic Packaging	0.4%	0.1%	661	#5 PP Plastic Products	0.1%	0.0%	103
#6 PS Plastic Packaging	0.4%	0.1%	676	#6 PS Plastic Products	0.1%	0.0%	114
#7 Other Plastic Packaging	0.5%	0.1%	949	#7 Other Plastic Products	2.3%	1.1%	3,948
PLA Packaging	0.0%	0.0%	1	PLA Products	0.0%	0.0%	5
Plastic Merchandise Bags	0.5%	0.1%	913	Plastic Garbage Bags	1.7%	0.7%	2,980
Non-industrial Packaging Film Plastic	2.2%	0.5%	3,878	Plastic Film Products	0.4%	0.2%	630
Industrial Packaging Film Plastic	0.7%	0.4%	1,256	R/C Plastic Products	1.2%	0.8%	2,124
R/C Plastic Packaging	0.6%	0.5%	1,093				,
0.0				Consumer Products	7.0%		12,249
Glass	2.6%		4,603	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	1.2%	0.2%	2,031	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.4%	0.2%	667	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.6%	0.2%	1,112	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	36	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.1%	0.0%	102	Computers	0.0%	0.0%	2
R/C Glass	0.4%	0.2%	655	Computer Peripherals	0.4%	0.6%	614
				Audio Equipment	0.0%	0.0%	55
Metal	6.5%		11,292	Gaming Equipment	0.0%	0.0%	62
Aluminum Beverage Cans	0.5%	0.1%	886	Other Consumer Electronics	0.2%	0.1%	268
Aluminum Foil/Containers	0.1%	0.0%	194	Textiles - Organic	2.1%	0.5%	3,714
Other Aluminum	0.1%	0.0%	150	Textiles - Synthetic	1.2%	0.4%	2,059
Other Nonferrous	0.1%	0.0%	115	Shoes, Purses, Belts	0.3%	0.1%	611
Food Cans - Tinned	0.8%	0.2%	1,357	Tires & Rubber	0.3%	0.2%	553
Food Cans - Coated	0.2%	0.1%	325	Furniture	1.5%	0.8%	2,618
White Goods	0.1%	0.2%	251	Mattresses	0.4%	0.5%	771
Other Ferrous Metal	3.0%	0.9%	5,277	R/C Consumer Products	0.5%	0.6%	922
R/C Metals	1.6%	0.6%	2,738				
			,	Hazardous/Special Wastes	3.5%		6,065
Organics	23.5%		41,190	Pesticides/Herbicides	0.0%	0.0%	28
Food - Vegetative	10.6%	1.5%	18,539	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	5.8%	1.5%	10,062	Compact Fluorescent Lights	0.0%	0.0%	8
Leaves & Grass	3.1%	1.4%	5,489	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.8%	1.1%	1,390	Asbestos	0.0%	0.0%	0
Animal Manure	2.8%	1.1%	4,886	Latex Paint	0.1%	0.1%	205
Animal Carcasses	0.1%	0.1%	104	Solvent-based Glues	0.0%	0.1%	81
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.0%	54
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.1%	0.1%	133
R/C Organics	0.4%	0.1%	719	Caustic Cleaners	0.0%	0.0%	45
				Dry-cell Batteries	0.1%	0.0%	129
Wood Debris	14.2%		24,909	Wet-cell Batteries	0.1%	0.2%	207
Treated Wood	1.9%	2.6%	3,380	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	2.8%	1.6%	4,879	Motor Oil	0.0%	0.1%	68
Dimensional Lumber	2.2%	1.7%	3,905	Antifreeze	0.0%	0.0%	3
Engineered Wood	2.2%	1.4%	3,811	Other Vehicle Fluids	0.0%	0.0%	35
Pallets & Crates	1.8%	2.0%	3,194	Oil Filters	0.0%	0.0%	70
Other Untreated Wood	0.3%	0.3%	473	Explosives	0.0%	0.0%	2
Wood By-Products	0.5%	0.3%	846	Medical Wastes	0.4%	0.5%	653
R/C Wood Wastes	2.5%	2.7%	4,421	Pharmaceuticals/Vitamins	0.0%	0.0%	18
				Disposable Diapers	2.3%	0.6%	4,059
Construction Materials	9.5%		16,592	Other Cleaners & Soaps	0.1%	0.0%	205
Natural Wood	0.1%	0.1%	140	Other Hazardous	0.0%	0.0%	51
Insulation	0.2%	0.2%	394	Other Non-hazardous	0.0%	0.0%	12
Asphalt Paving	0.1%	0.1%	159				
Concrete	0.1%	0.1%	196	Residues	0.2%		420
Drywall	2.1%	1.6%	3,592	Ash	0.0%	0.0%	0
Carpet	2.5%	2.3%	4,333	Dust	0.1%	0.1%	262
Carpet Padding	0.7%	0.7%	1,157	Fines	0.1%	0.1%	158
Soil, Rocks, Sand	0.6%	0.4%	971	Sludge/Special Industrial	0.0%	0.0%	0
Asphalt Roofing	0.7%	0.7%	1,263	÷ · ·			
Plastic Flooring	0.0%	0.0%	0				
Ceramics & Brick	0.4%	0.2%	636	Totals	100.0%		174,971



Table 52: West WGA Commercial Disposed Waste Sector
Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	8.5%		5,940	Paper Products	12.2%		8,559
Newspaper Packaging	0.3%	0.3%	187	Newspaper	0.6%	0.3%	449
Cardboard/Kraft Paper Packaging	3.3%	1.4%	2,285	Cardboard/Kraft Paper Products	0.2%	0.2%	135
Other Groundwood Paper Packaging	0.0%	0.0%	6	Magazines	1.4%	1.2%	984
Mixed/Low Grade Paper Packaging	1.6%	0.7%	1,110	High-Grade Paper Products	0.8%	0.4%	565
Compostable Paper Packaging	1.3%	0.9%	877	Other Groundwood Paper Products	0.2%	0.2%	128
R/C Paper Packaging	2.1%	1.1%	1,475	Mixed Low Grade Paper Products	1.2%	0.6%	839
				Compostable Paper Products	6.3%	3.7%	4,414
Plastic Packaging	7.5%	0.00/	5,211	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.5%	0.2%	356	R/C Paper Products	1.5%	1.1%	1,045
#1 PETE Plastic Non-bottles	0.3%	0.2%	177		a 494		=
#2 HDPE Plastic Natural Bottles	0.3%	0.1%	219	Plastic Products	8.1%	0.00/	5,638
#2 HDPE Plastic Colored Bottles	0.4%	0.3%	260	#1 PETE Plastic Products	0.0%	0.0%	13
#2 HDPE Plastic Jars & Tubs	0.4%	0.4%	254	#2 HDPE Plastic Products	0.5%	0.7%	320
#3 PVC Plastic Packaging	0.0%	0.0%	3	#3 PVC Plastic Products	0.0%	0.1%	31
#4 LDPE Plastic Packaging	0.0%	0.0%	5	#4 LDPE Plastic Products	0.0%	0.0%	8
#5 PP Plastic Packaging	0.2%	0.1%	149	#5 PP Plastic Products	0.1%	0.1%	38
#6 PS Plastic Packaging	0.4%	0.2%	254	#6 PS Plastic Products	0.1%	0.0%	36
#7 Other Plastic Packaging	0.3%	0.1%	226	#7 Other Plastic Products	2.9%	2.4%	1,999
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	C
Plastic Merchandise Bags	0.2%	0.1%	144	Plastic Garbage Bags	2.5%	1.7%	1,732
Non-industrial Packaging Film Plastic	2.4%	1.1%	1,704	Plastic Film Products	0.4%	0.4%	294
Industrial Packaging Film Plastic	1.2%	0.8%	841	R/C Plastic Products	1.7%	2.0%	1,167
R/C Plastic Packaging	0.9%	1.1%	620				
				Consumer Products	2.2%		1,553
Glass	0.9%		625	Televisions - CRT	0.0%	0.0%	C
Clear Glass Containers	0.3%	0.2%	192	Televisions - LCD	0.0%	0.0%	C
Green Glass Containers	0.1%	0.1%	76	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.3%	0.3%	234	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.0%	10	Computer Monitors - LCD	0.0%	0.0%	C
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	18	Computers	0.0%	0.0%	C
R/C Glass	0.1%	0.1%	95	Computer Peripherals	0.0%	0.0%	2
				Audio Equipment	0.0%	0.1%	34
Metal	5.9%		4,100	Gaming Equipment	0.0%	0.0%	12
Aluminum Beverage Cans	0.3%	0.2%	205	Other Consumer Electronics	0.1%	0.1%	72
Aluminum Foil/Containers	0.1%	0.1%	60	Textiles - Organic	0.8%	0.7%	578
Other Aluminum	0.0%	0.0%	34	Textiles - Synthetic	0.7%	0.5%	466
Other Nonferrous	0.1%	0.1%	67	Shoes, Purses, Belts	0.2%	0.2%	129
Food Cans - Tinned	0.6%	0.4%	452	Tires & Rubber	0.2%	0.2%	143
Food Cans - Coated	0.1%	0.1%	74	Furniture	0.2%	0.3%	112
White Goods	0.0%	0.0%	0	Mattresses	0.0%	0.0%	0
Other Ferrous Metal	3.0%	1.9%	2,077	R/C Consumer Products	0.0%	0.0%	4
R/C Metals	1.6%	1.1%	1,131		0.070	0.070	
	1.070	1.170	1,101	Hazardous/Special Wastes	1.9%		1,324
Organics	16.4%		11,484	Pesticides/Herbicides	0.0%	0.0%	., -
Food - Vegetative	7.4%	2.9%	5,196	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	7.8%	3.5%	5,470	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	0.8%	0.7%	566	Fluorescent Tubes	0.0%	0.0%	C
Prunings	0.1%	0.1%	45	Asbestos	0.0%	0.0%	0
Animal Manure	0.2%	0.1%	116	Latex Paint	0.0%	0.0%	7
Animal Carcasses	0.2%	0.2%	0	Solvent-based Glues	0.0%	0.0%	77
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.1%	0.2 %	41
•			0				41
Fruit Waste	0.0%	0.0%		Oil-based Paint & Solvent	0.0%	0.0%	
R/C Organics	0.1%	0.1%	91	Caustic Cleaners	0.0%	0.0%	C
Weed Debrie	00.00/		40.000	Dry-cell Batteries	0.0%	0.0%	11
Wood Debris	23.9%	0 -01	16,669	Wet-cell Batteries	0.1%	0.1%	35
Treated Wood	4.1%	6.5%	2,896	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	4.2%	4.0%	2,935	Motor Oil	0.0%	0.0%	14
Dimensional Lumber	3.1%	4.2%	2,163	Antifreeze	0.0%	0.0%	C
Engineered Wood	2.7%	3.2%	1,905	Other Vehicle Fluids	0.0%	0.1%	35
Pallets & Crates	3.8%	5.0%	2,651	Oil Filters	0.1%	0.1%	51
Other Untreated Wood	0.5%	0.7%	365	Explosives	0.0%	0.0%	C
Wood By-Products	0.0%	0.0%	20	Medical Wastes	0.8%	1.1%	556
R/C Wood Debris	5.3%	6.8%	3,733	Pharmaceuticals/Vitamins	0.0%	0.0%	14
				Disposable Diapers	0.6%	0.6%	454
Construction Materials	12.5%		8,748	Other Cleaners & Soaps	0.0%	0.0%	19
Natural Wood	0.1%	0.1%	58	Other Hazardous	0.0%	0.0%	11
Insulation	0.1%	0.1%	44	Other Non-hazardous	0.0%	0.0%	0
Asphalt Paving	0.2%	0.4%	159				
Concrete	0.0%	0.0%	0	Residues	0.1%		35
Drywall	1.9%	3.2%	1,352	Ash	0.0%	0.0%	(
Carpet	4.9%	5.7%	3,438	Dust	0.0%	0.0%	10
Carpet Padding	1.0%	1.6%	674	Fines	0.0%	0.1%	25
Soil, Rocks, Sand	0.7%	0.8%	468	Sludge/Special Industrial	0.0%	0.0%	_(
Asphalt Roofing	0.0%	0.1%	32		0.070	2.270	
	0.0%	0.0%	0				
Plastic Flooring Ceramics & Brick	0.0% 0.1%	0.0% 0.1%	0 60	Totals	100.0%		69,886



Table 53: West WGA Residential Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	10.3%		7,063	Paper Products	11.5%		7,915
Newspaper Packaging	1.1%	0.7%	737	Newspaper	1.2%	0.4%	806
Cardboard/Kraft Paper Packaging	2.6%	0.7%	1,800	Cardboard/Kraft Paper Products	0.0%	0.0%	0
Other Groundwood Paper Packaging	0.3%	0.3%	218	Magazines	1.2%	0.4%	852
Mixed/Low Grade Paper Packaging	3.2%	0.6%	2,217	High-Grade Paper Products	1.4%	0.4%	937
Compostable Paper Packaging	2.1%	1.1%	1,409	Other Groundwood Paper Products	0.1%	0.1%	59
R/C Paper Packaging	1.0%	0.2%	683	Mixed Low Grade Paper Products	1.9%	0.6%	1,284
Direction Development	0 70/		o oo o	Compostable Paper Products	5.4%	1.2%	3,682
Plastic Packaging	9.7%	0.00/	6,687	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	1.4%	0.2%	948	R/C Paper Products	0.4%	0.2%	294
#1 PETE Plastic Non-bottles	0.5%	0.1%	335	Direction Developments	4 50/		0.447
#2 HDPE Plastic Natural Bottles	0.4%	0.1%	307	Plastic Products #1 PETE Plastic Products	4.5%	0.40/	3,117
#2 HDPE Plastic Colored Bottles	0.6%	0.1%	401		0.1%	0.1%	49
#2 HDPE Plastic Jars & Tubs	0.2%	0.2%	120	#2 HDPE Plastic Products	0.0%	0.0%	28
#3 PVC Plastic Packaging	0.1% 0.0%	0.1% 0.0%	43 6	#3 PVC Plastic Products #4 LDPE Plastic Products	0.0% 0.0%	0.1% 0.0%	29 4
#4 LDPE Plastic Packaging		0.0%	441				13
#5 PP Plastic Packaging	0.6%	0.1%	313	#5 PP Plastic Products #6 PS Plastic Products	0.0%	0.0%	40
#6 PS Plastic Packaging	0.5%		541		0.1%	0.1%	
#7 Other Plastic Packaging	0.8%	0.1%	541 1	#7 Other Plastic Products	1.6%	0.6%	1,069
PLA Packaging	0.0%	0.0%		PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	1.0%	0.1%	702	Plastic Garbage Bags	1.7%	0.2%	1,174
Non-industrial Packaging Film Plastic	2.9% 0.1%	0.4% 0.1%	1,996 76	Plastic Film Products R/C Plastic Products	0.3% 0.8%	0.2% 0.4%	189 521
Industrial Packaging Film Plastic R/C Plastic Packaging	0.1%	0.1%	76 457	INC FIASILE FIOURCIS	0.8%	0.4%	521
R/C Plastic Packaging	0.7%	0.6%	457	Consumer Bradueta	E E0/		2 750
Glass	4.8%		3,281	Consumer Products Televisions - CRT	5.5% 0.0%	0.0%	3,759 0
Clear Glass Containers	4.0 % 2.5%	0.5%		Televisions - CCT Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.8%	0.5%	1,691 583	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	1.2%	0.4%	831	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.0%	0.5%	3		0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.0%	0.0%	39	Computer Monitors - LCD	0.0%	0.0%	0
R/C Glass	0.1%	0.0%	135	Computers	0.0%	1.4%	611
R/C Glass	0.2%	0.2%	155	Computer Peripherals Audio Equipment	0.9%	0.0%	4
Metal	4.7%		3,198	Gaming Equipment	0.0%	0.0%	4 50
	4.7% 0.9%	0.2%	3,196 602		0.1%	0.1%	105
Aluminum Beverage Cans	0.9%		127	Other Consumer Electronics	2.5%	0.1%	
Aluminum Foil/Containers Other Aluminum	0.2%	0.1% 0.1%	85	Textiles - Organic Textiles - Synthetic	2.5%	0.7%	1,743 669
Other Nonferrous	0.1%	0.1%	85 9	Shoes, Purses, Belts	0.5%	0.4%	319
Food Cans - Tinned	1.2%	0.0%	9 856	Tires & Rubber	0.5%	0.2%	245
Food Cans - Tinned Food Cans - Coated		0.2%	234	Furniture	0.4%	0.3%	245
	0.3%		234				
White Goods	0.0%	0.0%		Mattresses	0.0%	0.0%	0
Other Ferrous Metal	0.8%	0.3%	519	R/C Consumer Products	0.0%	0.0%	12
R/C Metals	1.1%	0.6%	766	Hazardaus/Spacial Wastas	5.9%		4,046
Organics	39.4%		27,034	Hazardous/Special Wastes Pesticides/Herbicides	0.0%	0.0%	4,040
Food - Vegetative	18.0%	2.4%	12,359	Mercury Vapor Lighting	0.0%	0.0%	21
Food - Non-vegetative	6.3%	1.2%	4,293	Compact Fluorescent Lights	0.0%	0.0%	8
Leaves & Grass	5.6%	3.3%	3,874	Fluorescent Tubes	0.0%	0.0%	0
Prunings	1.7%	2.8%	1,194	Asbestos	0.0%	0.0%	0
Animal Manure	6.9%	2.0%	4,768	Latex Paint	0.0%	0.0%	135
Animal Carcasses	0.9%	0.0%	4,700	Solvent-based Glues	0.2 %	0.2 %	0
Crop Residues	0.0%	0.0%	- 0	Latex-based Glues	0.0%	0.0%	1
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.2%	0.3%	108
R/C Organics	0.8%	0.3%	541	Caustic Cleaners	0.2%	0.0%	0
The organios	0.070	0.070	041	Dry-cell Batteries	0.2%	0.1%	103
Wood Debris	1.3%		905	Wet-cell Batteries	0.0%	0.0%	0
Treated Wood	0.1%	0.1%	65	Gasoline/Kerosene	0.0%	0.0%	Ő
Painted Wood	0.1%	0.3%	292	Motor Oil	0.1%	0.1%	53
Dimensional Lumber	0.3%	0.3%	194	Antifreeze	0.0%	0.0%	0
Engineered Wood	0.3%	0.3%	187	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	0.0%	0.0%	0	Oil Filters	0.0%	0.0%	19
Other Untreated Wood	0.0%	0.0%	23	Explosives	0.0%	0.0%	0
Wood By-Products	0.0%	0.1%	124	Medical Wastes	0.0%	0.0%	52
R/C Wood Debris	0.2%	0.2%	20	Pharmaceuticals/Vitamins	0.0%	0.0%	4
	0.075	2.370		Disposable Diapers	4.9%	1.2%	3,361
Construction Materials	2.0%		1,369	Other Cleaners & Soaps	0.2%	0.1%	147
Natural Wood	0.1%	0.1%	38	Other Hazardous	0.2%	0.0%	28
Insulation	0.0%	0.0%	0	Other Non-hazardous	0.0%	0.0%	5
	0.0%	0.0%	0				5
Asphalt Paving	0.2%	0.3%	132	Residues	0.4%		263
Asphalt Paving Concrete				Ash	0.0%	0.0%	0
Concrete		0.1%	46				
Concrete Drywall	0.1%	0.1% 0.2%	46 98			0.2%	142
Concrete Drywall Carpet	0.1% 0.1%	0.2%	98	Dust	0.2%	0.2% 0.3%	142 121
Concrete Drywall Carpet Carpet Padding	0.1% 0.1% 0.0%	0.2% 0.0%	98 4	Dust Fines	0.2% 0.2%	0.3%	121
Concrete Drywall Carpet Carpet Padding Soil, Rocks, Sand	0.1% 0.1% 0.0% 0.7%	0.2% 0.0% 0.6%	98 4 497	Dust	0.2%		
Concrete Drywall Carpet Carpet Padding Soil, Rocks, Sand Asphalt Roofing	0.1% 0.1% 0.0% 0.7% 0.0%	0.2% 0.0% 0.6% 0.0%	98 4 497 0	Dust Fines	0.2% 0.2%	0.3%	121
Concrete Drywall Carpet Carpet Padding Soil, Rocks, Sand	0.1% 0.1% 0.0% 0.7%	0.2% 0.0% 0.6%	98 4 497	Dust Fines	0.2% 0.2%	0.3%	121



Table 54: West WGA Self-hauled C&D Disposed Waste Sector
Detailed Composition, 2009

Paper Products 0.9% 0.0%	Est. Es Percent + / - Ton	Est. aterial Percent + /	Est. - Tons
Cardbaint/Kint Pager Products 0.0%		Paper Products 0.9%	103
Other Groundwood Paper Preksinging 0.1% 0.1% 14 Magazines 0.1%			
Nikodi, W. Grado Papier Packaging 0.1% 0.1% 12 Hijf-Grado Papier Poducts 0.1%			
Compositable Pager Pockaging 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.0% <			
PLC Paper Packaging 0.7% 1.2% 87 Mixed Low Grade Paper Products 0.0% 0.0% Plastic Packaging 1.9% 229 Paper Processing Sludge 0.0% 0.0% Plastic Packaging 0.9% 0.0%			
Composition Function Composition Functions 0.0% 0.1% 218 af PETE Plastic Bodies 0.0% 0.0% 1 RC Paper Products 0.3% 0.5% af PETE Plastic Bodies 0.0%			
Plastic Packaging 1.9% 229 Paper Processing Sludge 0.0% 0.0% af PETE Pasic Non-bottes 0.1%	kaging 0.7% 1.2% 8		
af PETE Paist: Boiles 0.0% 0.0% 1 R.C Paper Products 0.3% 0.5% af HPETE Plastic Natural Bottles 0.0% 0.0% 0 af HPETE Plastic Products 0.0% 0.0% af HDPE Plastic Colored Bottles 0.0% 0.0% 0 af HPETE Plastic Products 0.0%			
#** PET Plastic Non-bottles 0.1% 0.7% 0.8 #*** PLPE Plastic Colord Bottles 0.0% 0.0% 0.0% 0.1% </td <td></td> <td></td> <td></td>			
g2 HOPE Plasic Natural Borties 0.0%		R/C Paper Products 0.3% 0.5	% 37
g2 HOPE Plasic Colord Bottles 0.0% 0 #1 PETE Plasic Products 0.0% 0.0% #3 PVC Plasic Packaging 0.0% 0.0% 0 #1 DPE Plasic Products 0.0% 0.0% #1 DPE Plasic Packaging 0.0% <td< td=""><td></td><td></td><td></td></td<>			
p2 HOPE Plastic Jans A Tubis 0.2% 0.4% 28 #2 HOPE Plastic Products 0.1% 0.1% #3 PVC Plastic Packaging 0.0% 0.0% 0.4 HUPE Plastic Products 0.0% 0.0% #5 PV Plastic Packaging 0.2% 0.4% 28 #5 PP Plastic Products 0.0% 0.0% #7 Other Flastic Packaging 0.7% 1.1% 7 #7 Other Flastic Products 0.2% 0.0% #7 Other Flastic Packaging 0.7% 0.0% 0.0% 0.7% 0.7% 1.3% 1.5% Master Macchandles Bage 0.0% 0.0% 0.7% 7 RC Plastic Packaging 0.7% 0.7% 1.3% 1.5% RC Plastic Packaging 0.0% 0.0% 0.7%			417
B→EVC Plastic Packaging 0.0% 0.0% 0 #J DPE Plastic Packaging 0.0% 0.0% #J DPE Plastic Packaging 0.0% <td></td> <td></td> <td></td>			
# LDPE Plastic Peakaging 0.0% 0.0% 0 # 4LDPE Plastic Products 0.0% 0.0% #FS PP Slastic Peakaging 0.1% 1.1% 8 #FS PP Slastic Products 0.0% 0.0% #TO ther Plastic Products 0.0% <td< td=""><td></td><td></td><td></td></td<>			
#5 PP Plastic Products 0.0% 0.0			
Brie PS Plasite Products 0.0% 0			
PT Other Plastic Packaging 0.7% 1.1% 79 #7 Other Plastic Products 1.2% 1.9% PLAP Exclarging 0.0% 0.0% 0 Plastic Garbage Bags 0.0% 0.1% Plastic Marchandise Bags 0.0% 0.0% 0 Plastic Garbage Bags 0.0% 0.0% Industrial Packaging Film Plastic 0.6% 0.6% 73 R/C Plastic Products 0.8% 1.3% 1.5% R/C Plastic Packaging 0.0% 0.0% 3 Televisions - CRT 0.0% <	0 0		
PLA Peakaging 0.0% 0.0% 0 PLA Productis 0.0% 0.0% 0.0% Non-industrial Packaging Film Plastic 0.6% 0.0% 2 Plastic Garbage Bags 0.0% 0.0% Industrial Packaging Film Plastic 0.6% 0.6% 73 RC C Plastic Products 0.3% 1.3% R/C Plastic Packaging 0.0% 0.0% 0 Consumer Products 3.4% Clear Clear Scottainers 0.0% 0.0% 0 VCRs, D/DS, D/VRS 0.0%	5 5		
Plastic Marchandise Bags 0.0% 0			
Non-industrial Packaging Film Plastic 0.0% 0.0% 73 Plastic Film Products 0.4% 1.0% RUC Plastic Products 1.3% 1.5% RUC Plastic Products 3.4% Glass 0.3% 0.0% 0.0% 0.0% Glass Containers 0.0% 0.0% 3 Televisions - CRT 0.0% 0.0% Glass Containers 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Stoneware/Kitchen Ceramics/Glassware 0.0% 0%			
Industrial Packaging 0.6% 7.3 R/C Plastic Products 1.3% 1.5% R/C Plastic Packaging 0.0% 0.0% 0 Glass 0.0% 0.			
RC Plastic Packaging 0.0% 0.0% 0 Glass 0.3% 3.2 Televisions - CRT 0.0% 0.0% 0.0% Claar Glass Containers 0.0%<			
Consume Products 3.4% Glass O.1% 32 Televisions -CRT 0.0% 0	0 0	R/G PIASTIC Products 1.3% 1.5	% 156
Blass 0.3% 32 Televisions - CRT 0.0%	ckaging 0.0% 0.0%	Demonstration of the	
Clear Calaises Containers 0.0% 0.0% 3 Televisions - LCD 0.0% 0.0% Brown Glass Containers 0.1% 0.1% 0.1% 0.0% 0.0% 0.0% Brown Glass Containers 0.1% 0.1% 0.0%			407
Green Glass Containers 0.0% 0.0% VCR's, DVD's, DVR's 0.0% 0.0% Plate Glass 0.0% </td <td></td> <td></td> <td></td>			
Brown Class Containers 0.1% 0.1% 0.0% Computer Monitors - CRT 0.0% 0.0% Stoneware/Kitchen Ceramics/Glassware 0.0% 0.0% 0.0mputers 0.0% 0.0% ViC Glass 0.2% 0.3% 21 Computer Monitors - LCD 0.0% 0.0% 0.0% ViC Glass 0.2% 0.3% 21 Computer Peripherals 0.0% 0.0% 0.0% Auminum Geurce Peripherals 0.0% 0.0% 0 Textiles - Synthetic 0.0% 0.0% Aluminum Foll/Containers 0.0% 0.0% 0 Textiles - Synthetic 0.0% </td <td></td> <td></td> <td></td>			
Plate Glass 0.0% 0.0% 0 Computer Montors - LCD 0.0% 0.0% RUC Glass 0.2% 0.3% 21 Computer Peripherals 0.0% 0.0% 0.0% Autinum Beverage Cans 0.0% 0.0% 2 Gaming Equipment 0.0% 0.0% Autinum Beverage Cans 0.0% 0.0% 2 Other Consumer Electronics 0.0% 0.0% Autinum Toil/Containers 0.1% 0.2% 14 Shoese, Purses, Belts 0.0% </td <td></td> <td></td> <td></td>			
Shoneware/Kirchen Ceramics//Giassware 0.0% 0.0% 0 Computers 0.0% <td></td> <td></td> <td></td>			
R/C Glass 0.2% 0.3% 21 Computer Peripherals Audio Equipment 0.0% 0.0% Metal 3.3% 392 Gaming Equipment 0.1% 0.2% Alurnium Deverage Cans 0.0% 0.0% 2 Other Consumer Electronics 0.0% 0.0% Other Alurnium 0.0% 0.0% 0 Textiles - Organic 0.0% 0.0% Other Alurnium 0.0% 0.0% 0 Textiles - Organic 0.0% 0.0% Other Nonferrous 0.1% 0.2% 14 Shoes, Purses, Belts 0.0% 0.0% Food Cans - Coated 0.0% 0.0% 0 Tires & Rubber 0.1% 0.3% Other Ferrous Metal 2.3% 2.0% 276 R/C Consumer Products 0.0% 0.5% Food - Non-vegetative 0.5% 0.8% 57 Macruny Vapor Lighting 0.0% 0.0% Food - Non-vegetative 0.5% 0.8% 57 Macruny Vapor Lighting 0.0% 0.0% Food - Non-vegetative 0.5% </td <td></td> <td></td> <td></td>			
Audio Equipment 0.1% 0.2% Aluminum Beverage Cans 0.0% 0.0% 2 Other Consumer Electronics 0.0% 0.0% Aluminum FollContainers 0.0% 0.0% 0 Textiles - Organic 0.0% 0.0% Other Aluminum 0.0% 0.0% 0 Textiles - Synthetic 0.0% 0.0% Other Aluminum 0.0% 0.0% 0 Textiles - Synthetic 0.0% 0.0% Other Aluminum 0.0% 0.0% 0 Textiles - Synthetic 0.0% 0.0% Food Cans - Tinned 0.0% 0.0% 0 Tires & Rubber 0.1% 0.1% Vhite Goods 0.0% 0.0% Mattersesses 2.9% 4.7% Vice Metals 2.3% 2.0% 276 R/C Consumer Products 0.3% 0.5% Floor Strass 2.5% 0.7% 0.7% 0.7% 0.7% 0.7% Food - Nor-vegetative 0.5% 0.8% 57 Mercury Vapor Lighting 0.0% 0.0%			
Metal 3.3% 392 Gaming Equipment 0.0%	0.2% 0.3% 2		
Aluminum Beverage Cans 0.0% 0.0% 2 Other Consumer Electronics 0.0% 0.0% Aluminum Foil/Containers 0.0% 0.0% 0 Texilies - Organic 0.0% 0.0% Other Aluminum 0.0% 0.0% 0 Texilies - Synthetic 0.0% 0.0% Other Aluminum 0.0% 0.0% 0 Tress Rubber 0.1% 0.1% Food Cans - Tinned 0.0% 0.0% 0 Furses Rubber 0.0% 0.0% Other Konstein 0.0% 0.0% 0 Furses Rubber 0.0% 0.0% Other Consumer Products 0.0% 0.0% 0 Hattresses 2.9% 4.7% R/C Metals 0.0% 0.0% 0.0 1 Pesticides/Herbicides 0.0% 0.0% Food - Non-vegetative 0.5% 0.8% 57 Mercury Vapor Lighting 0.0% 0.0% Food - Non-vegetative 0.0% 0.0% 0 Laves & Grass 0.0% 0.0% 0.0% 0.0% 0.0% <td></td> <td></td> <td></td>			
Aluminum Foll/Containers 0.0% 0.0% 0 Textiles - Synthetic 0.0%		0 1 1	
Other Nonferrous 0.0% 0.0% 0 Textiles - Synthetic 0.0% 0.0% Other Nonferrous 0.1% 0.2% 14 Shoes, Purses, Belts 0.0% 0.0% Food Cans - Tinned 0.0% 0.0% 0 Tires & Rubber 0.1% 0.1% Food Cans - Coated 0.0% 0.0% 0 Furniture 0.0% 0.0% Other Forrous Metal 2.3% 2.0% 276 R/C Consumer Products 0.3% 0.5% Organics 2.5% 301 Pesticides/Herbicides 0.0% <td></td> <td></td> <td></td>			
Other Nonferrous 0.1% 0.2% 14 Shoes, Purses, Belts 0.0% 0.0% Food Cans - Tinned 0.0% 0.0% 0 Tires & Rubber 0.1% 0.1% 0.1% 0.0% 0.0% 0 Humbure 0.0% <td< td=""><td></td><td></td><td></td></td<>			
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		Totale 100.0%	44 000
Ceramics & Brick 3.1% 2.9% 368 Totals 100.0% R/C Construction Materials 5.1% 4.3% 601 Sample Count 18			11,808



Table 55: West WGA Self-hauled Other Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper Packaging	8.7%		2,142	Paper Products	6.5%		1,602
Newspaper Packaging	0.0%	0.1%	11	Newspaper	0.2%	0.2%	43
Cardboard/Kraft Paper Packaging	5.6%	2.7%	1,385	Cardboard/Kraft Paper Products	0.0%	0.0%	1
Other Groundwood Paper Packaging	0.0%	0.1%	11	Magazines	1.6%	1.2%	394
Mixed/Low Grade Paper Packaging	1.3%	0.7%	318	High-Grade Paper Products	0.7%	0.8%	176
Compostable Paper Packaging	0.9%	1.1%	228	Other Groundwood Paper Products	0.0%	0.0%	0
R/C Paper Packaging	0.8%	0.6%	189	Mixed Low Grade Paper Products	2.2%	1.9%	540
				Compostable Paper Products	0.7%	0.6%	182
Plastic Packaging	4.3%		1,062	Paper Processing Sludge	0.0%	0.0%	0
#1 PETE Plastic Bottles	0.5%	0.3%	117	R/C Paper Products	1.1%	1.0%	266
#1 PETE Plastic Non-bottles	0.1%	0.1%	16				
#2 HDPE Plastic Natural Bottles	0.2%	0.1%	43	Plastic Products	5.4%		1,322
#2 HDPE Plastic Colored Bottles	0.3%	0.2%	64	#1 PETE Plastic Products	0.0%	0.0%	0
#2 HDPE Plastic Jars & Tubs	0.2%	0.3%	49	#2 HDPE Plastic Products	0.1%	0.2%	35
#3 PVC Plastic Packaging	0.0%	0.0%	1	#3 PVC Plastic Products	0.2%	0.3%	59
#4 LDPE Plastic Packaging	0.0%	0.0%	1	#4 LDPE Plastic Products	0.0%	0.0%	4
#5 PP Plastic Packaging	0.2%	0.1%	42	#5 PP Plastic Products	0.2%	0.2%	53
#6 PS Plastic Packaging	0.4%	0.4%	99	#6 PS Plastic Products	0.2%	0.2%	38
#7 Other Plastic Packaging	0.4%	0.2%	103	#7 Other Plastic Products	3.0%	3.0%	732
PLA Packaging	0.0%	0.0%	0	PLA Products	0.0%	0.0%	0
Plastic Merchandise Bags	0.3%	0.1%	67	Plastic Garbage Bags	0.3%	0.2%	71
Non-industrial Packaging Film Plastic	0.7%	0.5%	176	Plastic Film Products	0.2%	0.3%	49
Industrial Packaging Film Plastic	1.1%	1.3%	266	R/C Plastic Products	1.1%	0.7%	280
R/C Plastic Packaging	0.1%	0.1%	16				
				Consumer Products	26.5%		6,531
Glass	2.7%		664	Televisions - CRT	0.0%	0.0%	0
Clear Glass Containers	0.6%	0.7%	145	Televisions - LCD	0.0%	0.0%	0
Green Glass Containers	0.0%	0.0%	8	VCR's, DVD's, DVR's	0.0%	0.0%	0
Brown Glass Containers	0.2%	0.2%	39	Computer Monitors - CRT	0.0%	0.0%	0
Plate Glass	0.1%	0.1%	22	Computer Monitors - LCD	0.0%	0.0%	0
Stoneware/Kitchen Ceramics/Glassware	0.2%	0.2%	46	Computers	0.0%	0.0%	2
R/C Glass	1.6%	1.3%	404	Computer Peripherals	0.0%	0.0%	0
				Audio Equipment	0.0%	0.0%	0
Metal	14.6%		3,602	Gaming Equipment	0.0%	0.0%	0
Aluminum Beverage Cans	0.3%	0.2%	76	Other Consumer Electronics	0.4%	0.5%	92
Aluminum Foil/Containers	0.0%	0.0%	8	Textiles - Organic	5.6%	2.6%	1,389
Other Aluminum	0.1%	0.1%	31	Textiles - Synthetic	3.7%	2.3%	923
Other Nonferrous	0.1%	0.1%	25	Shoes, Purses, Belts	0.7%	0.5%	163
Food Cans - Tinned	0.2%	0.1%	49	Tires & Rubber	0.6%	0.6%	155
Food Cans - Coated	0.1%	0.1%	17	Furniture	10.2%	5.8%	2,506
White Goods	1.0%	1.7%	251	Mattresses	1.7%	2.8%	430
Other Ferrous Metal	9.8%	3.6%	2,405	R/C Consumer Products	3.5%	4.0%	872
R/C Metals	3.0%	2.3%	741				
				Hazardous/Special Wastes	2.8%		694
Organics	9.6%		2,371	Pesticides/Herbicides	0.0%	0.0%	7
Food - Vegetative	3.8%	1.8%	926	Mercury Vapor Lighting	0.0%	0.0%	0
Food - Non-vegetative	1.2%	0.7%	300	Compact Fluorescent Lights	0.0%	0.0%	0
Leaves & Grass	3.3%	3.0%	807	Fluorescent Tubes	0.0%	0.0%	0
Prunings	0.6%	0.8%	149	Asbestos	0.0%	0.0%	0
Animal Manure	0.0%	0.0%	2	Latex Paint	0.3%	0.3%	63
Animal Carcasses	0.4%	0.6%	100	Solvent-based Glues	0.0%	0.0%	4
Crop Residues	0.0%	0.0%	0	Latex-based Glues	0.0%	0.1%	12
Fruit Waste	0.0%	0.0%	0	Oil-based Paint & Solvent	0.1%	0.2%	25
R/C Organics	0.4%	0.3%	87	Caustic Cleaners	0.2%	0.3%	45
-				Dry-cell Batteries	0.1%	0.1%	15
Wood Debris	14.1%		3,466	Wet-cell Batteries	0.7%	1.1%	172
Treated Wood	0.7%	0.8%	166	Gasoline/Kerosene	0.0%	0.0%	0
Painted Wood	2.6%	2.2%	632	Motor Oil	0.0%	0.0%	0
Dimensional Lumber	1.6%	1.1%	393	Antifreeze	0.0%	0.0%	3
Engineered Wood	3.8%	3.2%	947	Other Vehicle Fluids	0.0%	0.0%	0
Pallets & Crates	1.4%	2.4%	350	Oil Filters	0.0%	0.0%	0
Other Untreated Wood	0.0%	0.0%	3	Explosives	0.0%	0.0%	2
Wood By-Products	2.7%	2.2%	656	Medical Wastes	0.2%	0.3%	45
R/C Wood Debris	1.3%	1.7%	320	Pharmaceuticals/Vitamins	0.0%	0.0%	0
				Disposable Diapers	1.0%	1.0%	244
Construction Materials	4.3%		1,062	Other Cleaners & Soaps	0.2%	0.2%	39
Natural Wood	0.2%	0.3%	44	Other Hazardous	0.0%	0.1%	12
Insulation	0.7%	1.1%	172	Other Non-hazardous	0.0%	0.0%	7
Asphalt Paving	0.0%	0.0%	0				-
Concrete	0.0%	0.0%	0	Residues	0.5%		122
	0.0%	0.3%	47	Ash	0.0%	0.0%	0
	1.0%	0.7%	234	Dust	0.4%	0.6%	110
Drywall		J /0	204				
Drywall Carpet		0.9%	144	Fines	0.0%	0.1%	12
Drywall Carpet Carpet Padding	0.6%	0.9% 0.0%	144 7	Fines Sludge/Special Industrial	0.0%	0.1% 0.0%	12 0
Drywall Carpet Carpet Padding Soil, Rocks, Sand	0.6% 0.0%	0.0%	7	Fines Sludge/Special Industrial	0.0% 0.0%	0.1% 0.0%	12 0
Drywall Carpet Carpet Padding Soil, Rocks, Sand Asphalt Roofing	0.6% 0.0% 0.3%	0.0% 0.4%	7 72				
Drywall Carpet Carpet Padding Soil, Rocks, Sand	0.6% 0.0%	0.0%	7				



Appendix E: Supplemental Composition Results

This section presents waste composition results for the supplemental statewide study. The supplemental study generates statewide findings that incorporate recent studies done by King, Snohomish, and Thurston counties with data collected in the ten-county statewide study. First, data tables show supplemental composition results for the Puget Sound Waste Generation Area alone. Subsequently, statewide data are presented for the state overall and each waste sector (commercial, residential, self-hauled C&D, and self-hauled other) in three ways:

- 1. A pie chart presents an overview of waste composition by **Material Class**.
- 2. A table shows the 15 most prevalent *material types* by weight.
- 3. A detailed table lists the full composition and quantity results for the 50 *material types*. Because King, Snohomish, and Thurston counties each used a different list of *material types* for sorting—and none of the three used the same list as the 2009 statewide study—the list of 130 original *material types* was merged into a list of 50 materials compatible with all four studies.

To combine the existing composition data from King, Snohomish, and Thurston counties with data collected in the ten sampled counties, Cascadia needed to merge or "roll up" four different material lists. Each study used a unique list of materials and grouped individual materials differently, so some materials in the four lists had to be merged into broader categories.

The first column of Table 56 presents these 50 "rolled up" *material types*. The remaining four columns show the relationships between the material list used in the supplemental study list (50 materials) and the material lists used in the statewide study (130 materials), the King County study, the Snohomish County study, and the Thurston County study.

For example, the various *food material types* found in the four distinct studies—statewide study, King County, Snohomish County, and Thurston County—vary enough (six separate categories in the King County study, two in the Washington statewide study, and a single category for Snohomish and Thurston) that the common denominator ends up being only one category: *food*. Once a single material failed to be defined consistently in all four lists, a "rollup" occurred until consensus was found among all lists.



Supplemental Study (rolled-up) Material Types	Statewide Study Material Types	King County Material Types	Snohomish County Material Types	Thurston County Material Types
er in the second se				
Newspaper	Newspaper Packaging Newspaper	Newspaper (ONP)	Newspaper	Newspaper
Cardboard	Cardboard/Kraft Paper Packaging Cardboard/Kraft Paper Products	Corrugated Cardboard (OCC)	Cardboard	Cardboard
Mixed Grade Paper	Other Groundwood Packaging Mixed/Low Grade Paper Packaging Magazines High-Grade Paper Products Other Groundwood Paper Products Mixed Low Grade Paper Products	High Grade Low Grade Recyclable Bleached Polycoated Paperboard	Phone Books Mixed Waste Paper Milk Cartons and Other Asceptic Containers	Phone Books Mixed Waste Paper Milk Cartons and Other Asceptic Containers
Compostable Paper	Compostable Paper Packaging Compostable Paper Products	Compostable Paper	Compostable Paper	Compostable Paper
R/C Paper	R/C Paper Packaging Paper Processing Sludge R/C Paper Products	Paper and Other Materials Other Paper	Non-Recyclable Paper	Non-Recyclable Paper
tic				
#1 PET Bottles	#1 PETE Plastic Bottles	PET Bottles	PET Bottles	PET Bottles
#2 HDPE Bottles	#2 HDPE Plastic Natural Bottles #2 HDPE Plastic Colored Bottles	HDPE Bottles	HDPE Bottles	HDPE Bottles
Other Plastic Packaging	#1 PETE Plastic Non-bottles #2 HDPE Plastic Jars & Tubs #3 PVC Plastic Packaging #4 LDPE Plastic Packaging #5 PP Plastic Packaging #7 Other Plastic Packaging	Other Plastic Containers Other Plastic Packaging	Bottle Types 3-7 Plastic Packaging	Bottle Types 3-7 Tubs Plastic Packaging
Other Plastic Products	#1 PETE Plastic Products #2 HDPE Plastic Products #3 PVC Plastic Products #4 LDPE Plastic Products #5 PP Plastic Products #7 Other Plastic Products	Plastic Products	Plastic Products	Plastic Products
Bags and Film	Plastic Merchandise Bags Non-industrial Packaging Film Plastic Industrial Packaging Film Plastic Plastic Garbage Bags Plastic Film Products	Plastic Film and Bags	Bags and Film Tyvek Vapor Barrier	Film and Bags
R/C Plastics	#6 PS Packaging R/C Packaging #6 PS R/C Products PLA Packaging PLA Products	Expanded Polystyrene Plastic and Other Materials	Expanded Polystyrene	Expanded Polystyrene
S				
Clear Glass Containers	Clear Glass Containers	Clear Containers	Clear Glass Containers	Clear Bottles
Green Glass Containers	Green Glass Containers	Green Containers	Green Glass Containers	Green Bottles
Brown Glass Containers	Brown Glass Containers	Brown Containers	Brown Glass Containers	Brown Bottles
R/C Glass	Plate Glass	Other Glass	Non-Recyclable Glass	Light Bulbs

Table 56: Supplemental Statewide Results—Four Study Material Type Translation



Supplemental Study (rolled-up) Material Types	Statewide Study Material Types	King County Material Types	Snohomish County Material Types	Thurston County Material Types
etal				
Aluminum Cans	Aluminum Beverage Cans	Aluminum Cans	Aluminum Cans	Aluminum Cans
Tin Cans	Food Cans - Tinned Food Cans - Coated	Tinned Food Cans	Tin Cans	Tin Cans
Other Ferrous Metals	White Goods Other Ferrous Metal	Other Ferrous Compressed Gas Cylinders (empty)	Ferrous Metals White Goods Aerosol Cans	Ferrous Metals White Goods Aerosol Cans
Other Non-Ferrous Metals	Aluminum Foil/Containers Other Aluminum Other Nonferrous	Other Aluminum Other Non-Ferrous	Aluminum Foil Non-Ferrous Metals	Aluminum Foil Non-Ferrous Metals
R/C Metals	R/C Metals	Mixed Metals/Other Materials	Mixed Metal/Materials	Mixed Metals/Materials Auto Parts
ganics				
Food	Food - Vegetative Food - Non-vegetative	Packaged Bakery Items Opened/Unpackaged/Scrap Bakery Items Packaged Vegetative Food Opened/Unpackaged/Scrap Vegetative Food Packaged Non-vegetative Food Opened/Unpackaged/Scrap Non-vegetative Food	Food Waste	Food Waste
Green Waste	Leaves & Grass Prunings Crop Residues Fruit Waste	Yard Wastes Large Prunings	Yard Debris	Yard and Garden
Animal Manure	Animal Manure	Animal Feces	Animal Excrement	Animal Excrement
Animal Carcasses	Animal Carcasses	Animal Carcasses	Animal Carcasses	Animal Carcasses
ood Debris				
Lumber and Pallets	Treated Wood Painted Wood Dimensional Lumber Engineered Wood Pallets & Crates Other Untreated Wood	Dimensional Lumber/Engineered Wood Treated Wood Other Wood Roofing and Siding Wood	Pallets Other Clean Wood Other Wood Waste Roofing Hog Fuel	Dimension Lumber Pallets Treated Wood Plywood Particle Board/Fiberboard Wood Products Other Wood Waste Roofing
Natural Wood	Natural Wood	Stumps	Natural Wood	Stumps and Other Bulky Wood
R/C Wood	Wood By-Products R/C Wood	Contaminated Wood	Other Contaminated Wood	Contaminated Wood
Instruction Materials				
Roofing	Asphalt Roofing	Asphalt Shingles	Roofing	Roofing Waste
Drywall	Drywall	Gypsum Wallboard	Gypsum Board	Gypsum Board
Carpet	Carpet	Carpet	Carpet	Carpeting
Carpet Padding	Carpet Padding	Foam Rubber and Padding	Carpet Padding	Carpet Padding
Other Construction Materials	Insulation Asphalt Paving Concrete Plastic Flooring R/C Construction Materials	C&D Wastes	Concrete Fiberglass Insulation Other Fiberglass Asphalt Other C&D	Concrete Fiberglass Insulation Other Fiberglass Asphalt Other C&D

Table 56: Supplemental Statewide Results—Four Study Material Type Translation, Continued



Supplemental Study (rolled-up) Material Types	Statewide Study Material Types	King County Material Types	Snohomish County Material Types	Thurston County Material Types
ardous/Special Wastes				
Gasoline and Fuel Oils	Gasoline/Kerosene	Gasoline and Fuel Oil	Gasoline and Fuel Oil	Gasoline and Fuel Oil
	Oil Filters		Oil Filters	Motor Oil, Other
	Antifreeze	Used Oil	Motor Oil	Oil Filters
Vehicle & Equipment Fluids	Motor Oil	Antifreeze/Brake Fluid	Antifreeze	Antifreeze
	Other Vehicle Fluids	Antineeze/brake i luid	Brake and Hydraulic Fluid	Other Automotive Maintenance
Vehicle Batteries	Wet-cell Batteries	Vehicle Batteries	Car Batteries	Car Batteries
Household Batteries	Dry-cell Batteries	Household Batteries	Household Batteries	Household Batteries
_atex Paint	Latex Paint	Latex Paint	Latex Paint	Latex Paint
Dil-based Paint & Solvents	Oil-based Paint & Solvent	Oil-based Paint	Oil-Based Paint	Oil-Based Paint
Di-based i ant & Solvents	On-based I and & Solvent	Solvents and Thinners	Solvents	Solvents
Adhesives and Glues	Solvent-based Glues	Adhesives and Glue	Adhesives and Glues	Adhesives and Glues
Adriesives and Glues	Latex-based Glues	Adriesives and Glue	Adhesives and Glues	Adhesives and Glues
Pesticides/Herbicides	Pesticides/Herbicides	Pesticides and Herbicides	Pesticides and Herbicides	Pesticides and Herbicides
Pesticides/Herbicides	Pesticides/Herbicides	Pesticides and Herbicides	Pesticides and Herbicides	Fertilizers with Pesticides and Herbicides
	Medical Wastes		Pharmaceuticals	Medical Wastes
Medical/Pharmaceutical Waste	Pharmaceuticals/Vitamins	Medical Waste	Medical Wastes	Pharmaceuticals
Cleaners and Corrosives	Caustic Cleaners	Cleaners and Corrosives	Cleaners and Corrosives	Cleaners and Corrosives
Diapers	Disposable Diapers	Disposable Diapers	Diapers	Disposable Diapers
	Mercury Vapor Lighting			
	Compact Fluorescent Lights			
	Fluorescent Tubes		Asbestos	Gas Cylinders (partially full)
Other Hazardous Wastes/Special Wastes	Asbestos	Other Hazardous Waste	Fertilizers	Fertilizers without Pesticides and Herbicid
	Explosives		Other Hazardous and Special Waste	Other Hazardous and Special Waste
			Other hazardous and opecial waste	Other Hazardous and Opecial Waste
	Other Hazardous			
	Other Non-hazardous			
sumer Products				
	Textiles - Organic	Textiles:Clothes/Other Recyclables		
Textiles	Textiles - Synthetic	Other Textiles	Textiles	Textiles
	Shoes, Purses, Belts	Other rexules		
Tires and Rubber	Tires & Rubber	Tires	Tires	Tires
Thes and Rubber	Thes & Rubbel	Rubber Products	Rubber Products	Rubber Products
Furniture/Mattresses	Furniture	Furniture/Mattresses	Furniture	Furniture and Mattresses
uniture/mattresses	Mattresses	Furniture/Mattresses	Furniture	Furniture and Mattresses
	Televisions - CRT			
	Televisions - LCD	Office Electropics		
	Computer Monitors - CRT	Office Electronics		
	Computer Monitors - LCD	Computer Monitors		
	Computers	Televisions	E-Waste	E-Waste
E-Waste		Laptops/LCD Monitors		
	VCR's, DVD's, DVR's	Household Appliances	Other Electronics	Other Electronics
	Computer Peripherals	Printers/Copiers/Fax Machines		
	Audio Equipment	Cell Phones		
	Gaming Equipment			
	Other Consumer Electronics			
dues				
	Ash			
Ash and Dust	Dust	Ash	Ash and Dust	Ash and Dust
	Fines			
	Sludge/Special Industrial			Residuals
			Residuals	Ceramics, Porcelain, and China
	Soil, Rocks, Sand	Miscellaneous Inorganics	Ceramics, Porcelain, and China	Rocks and Brick
Fines/Residues/Inerts/Remainders	Ceramics & Brick	Nondistinct Fines	Rocks and Brick	Soil, Dirt, and Non-Distinct Fines
and a conductor montor containuoro	Stone/kitchenware			
	R/C Organics	Miscellaneous Organics	Soil, Dirt, and Non-Distinct Fines	Miscellaneous Organics
	Other Cleaners & Soaps		Cosmetics	Miscellaneous Inorganics
				Cosmetics
	R/C Consumer			

Table 56: Supplemental Statewide Results—Four Study Material Type Translation, Continued



Supplemental Results for Puget Sound WGA

Table 57: Supplemental Results—Puget Sound WGA Overall Disposed Waste Detailed Composition, 2009

	Est.		_Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	22.0%		619,479	Construction Materials	7.5%		211,671
Newspaper	1.6%	0.2%	44,019	Roofing	0.6%	0.2%	17,485
Cardboard	5.2%	0.7%	146,753	Drywall	1.1%	0.3%	29,702
Mixed Grade Paper	7.5%	0.8%	210,702	Carpet	2.5%	0.7%	70,792
Compostable Paper	6.2%	0.5%	173,730	Carpet Padding	0.5%	0.1%	12,802
R/C Paper	1.6%	0.2%	44,274	Other Construction Materials	2.9%	0.6%	80,890
Plastic	13.1%		368,267	Hazardous/Special Wastes	3.4%		96,045
#1 PET Bottles	0.8%	0.1%	23,586	Gasoline and Fuel Oils	0.0%	0.0%	556
#2 HDPE Bottles	0.5%	0.0%	13,580	Vehicle & Equipment Fluids	0.0%	0.0%	1,318
Other Plastic Packaging	1.7%	0.2%	48,192	Vehicle Batteries	0.0%	0.0%	559
Other Plastic Products	2.8%	0.4%	78,629	Household Batteries	0.1%	0.0%	1,952
Bags and Film	5.9%	0.4%	166,538	Latex Paint	0.1%	0.1%	2,682
R/C Plastics	1.3%	0.2%	37,743	Oil-based Paint & Solvents	0.0%	0.0%	711
				Adhesives and Glues	0.0%	0.0%	1,187
Glass	2.7%		75,888	Pesticides/Herbicides	0.0%	0.0%	1,190
Clear Glass Containers	1.0%	0.1%	29,088	Medical/Pharmaceutical Waste	0.2%	0.1%	4,404
Green Glass Containers	0.4%	0.0%	10,548	Cleaners and Corrosives	0.0%	0.0%	807
Brown Glass Containers	0.6%	0.1%	16,285	Diapers	2.7%	0.2%	76,301
R/C Glass	0.7%	0.2%	19,966	Other Hazardous/Special Wastes	0.2%	0.1%	4,379
Metal	6.0%		169,159	Consumer Products	6.7%		189,105
Aluminum Cans	0.4%	0.0%	11,543	Textiles	3.3%	0.4%	91,530
Tin Cans	1.1%	0.1%	30,249	Tires and Rubber	0.5%	0.1%	12,722
Other Ferrous Metals	2.1%	0.4%	59,191	Furniture/Mattresses	2.2%	0.5%	61,716
Other Non-Ferrous Metals	0.9%	0.2%	26,525	E-Waste	0.8%	0.2%	23,137
R/C Metals	1.5%	0.2%	41,651				-, -
			,	Residues	5.4%		152,726
Organics	24.0%		675,434	Ash and Dust	0.3%	0.1%	8,838
Food Scraps	18.3%	2.2%	515,643	Fines/Residues/Inerts/Remainders	5.1%	0.7%	143,888
Green Waste	3.5%	0.5%	99,127				
Animal Manure	2.1%	0.2%	60,073				
Animal Carcasses	0.0%	0.0%	591				
Wood Debris	9.0%		253,214				
Lumber and Pallets	7.1%	1.2%	198,201				
Natural Wood	0.5%	0.4%	13,349	Totals	100.0%		2,810,988
R/C Wood	1.5%	0.3%	41,663	Sample Count	923		,,



Table 58: Supplemental Results—Puget Sound WGA Commercial Disposed Waste
Detailed Composition, 2009

	Est.		Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	26.9%		358,588	Construction Materials	6.7%		89,065
Newspaper	1.7%	0.3%	22,840	Roofing	0.2%	0.2%	3,258
Cardboard	7.2%	1.4%	96,535	Drywall	0.5%	0.4%	7,108
Mixed Grade Paper	8.4%	1.3%	111,255	Carpet	3.0%	1.3%	40,312
Compostable Paper	7.7%	0.9%	102,993	Carpet Padding	0.5%	0.2%	6,562
R/C Paper	1.9%	0.3%	24,965	Other Construction Materials	2.4%	0.9%	31,826
Plastic	15.1%		200,867	Hazardous/Special Wastes	2.1%		28,112
#1 PET Bottles	0.8%	0.1%	10,913	Gasoline and Fuel Oils	0.0%	0.1%	546
#2 HDPE Bottles	0.4%	0.1%	5,929	Vehicle & Equipment Fluids	0.0%	0.0%	263
Other Plastic Packaging	1.8%	0.3%	23,708	Vehicle Batteries	0.0%	0.0%	0
Other Plastic Products	2.9%	0.7%	38,514	Household Batteries	0.0%	0.0%	576
Bags and Film	7.6%	0.8%	100,702	Latex Paint	0.1%	0.1%	1,529
R/C Plastics	1.6%	0.4%	21,101	Oil-based Paint & Solvents	0.0%	0.0%	56
			, -	Adhesives and Glues	0.0%	0.0%	189
Glass	2.3%		29,996	Pesticides/Herbicides	0.1%	0.1%	809
Clear Glass Containers	0.9%	0.1%	11,432	Medical/Pharmaceutical Waste	0.2%	0.2%	2,831
Green Glass Containers	0.3%	0.1%	3,769	Cleaners and Corrosives	0.0%	0.0%	167
Brown Glass Containers	0.5%	0.2%	7,283	Diapers	1.5%	0.3%	20,200
R/C Glass	0.6%	0.3%	7,513	Other Hazardous/Special Wastes	0.1%	0.0%	946
Metal	5.3%		70,829	Consumer Products	4.7%		63,190
Aluminum Cans	0.4%	0.1%	5,163	Textiles	2.8%	0.5%	37,707
Tin Cans	0.9%	0.2%	12,125	Tires and Rubber	0.5%	0.1%	6,679
Other Ferrous Metals	1.8%	0.6%	24,105	Furniture/Mattresses	0.7%	0.3%	9,164
Other Non-Ferrous Metals	0.7%	0.3%	9,616	E-Waste	0.7%	0.3%	9,639
R/C Metals	1.5%	0.5%	19,819				-,
			-,	Residues	5.1%		67,678
Organics	23.6%		314,279	Ash and Dust	0.2%	0.1%	3,295
Food Scraps	20.2%	3.7%	268,493	Fines/Residues/Inerts/Remainders	4.8%	1.1%	64,383
Green Waste	2.8%	0.8%	36,780				- ,
Animal Manure	0.7%	0.2%	8,959				
Animal Carcasses	0.0%	0.0%	47				
Wood Debris	8.2%		109,464				
Lumber and Pallets	6.7%	1.8%	88,728				
Natural Wood	0.6%	0.9%	8,337	Totals	100.0%		1,332,068
R/C Wood	0.9%	0.4%	12,399	Sample Count	295		



	Est.		Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	21.5%		210,404	Construction Materials	2.0%		19,427
Newspaper	1.9%	0.3%	18,549	Roofing	0.1%	0.1%	1,35
Cardboard	3.3%	0.4%	32,474	Drywall	0.4%	0.2%	3,43
Mixed Grade Paper	8.6%	1.3%	84,234	Carpet	0.6%	0.3%	6,25
Compostable Paper	6.3%	0.4%	61,899	Carpet Padding	0.1%	0.1%	99
R/C Paper	1.4%	0.2%	13,248	Other Construction Materials	0.8%	0.3%	7,38
Plastic	12.7%		124,457	Hazardous/Special Wastes	6.2%		60,21
#1 PET Bottles	1.1%	0.1%	11,189	Gasoline and Fuel Oils	0.0%	0.0%	1
#2 HDPE Bottles	0.7%	0.1%	6,498	Vehicle & Equipment Fluids	0.1%	0.1%	84
Other Plastic Packaging	2.0%	0.3%	19,708	Vehicle Batteries	0.1%	0.1%	55
Other Plastic Products	2.1%	0.2%	20,024	Household Batteries	0.1%	0.0%	1,17
Bags and Film	5.7%	0.5%	55,526	Latex Paint	0.1%	0.0%	64
R/C Plastics	1.2%	0.2%	11,512	Oil-based Paint & Solvents	0.0%	0.1%	47
			,	Adhesives and Glues	0.1%	0.1%	65
Glass	3.4%		32,727	Pesticides/Herbicides	0.0%	0.0%	27
Clear Glass Containers	1.5%	0.1%	14,873	Medical/Pharmaceutical Waste	0.1%	0.1%	1,44
Green Glass Containers	0.6%	0.1%	5,461	Cleaners and Corrosives	0.0%	0.0%	35
Brown Glass Containers	0.7%	0.1%	7,322	Diapers	5.4%	0.5%	53,20
R/C Glass	0.5%	0.1%	5,071	Other Hazardous/Special Wastes	0.1%	0.0%	58
Metal	5.5%		54,087	Consumer Products	7.9%		77,47
Aluminum Cans	0.6%	0.0%	5,563	Textiles	4.2%	0.7%	41,08
Tin Cans	1.3%	0.1%	13,127	Tires and Rubber	0.3%	0.1%	3,31
Other Ferrous Metals	1.5%	0.5%	14,820	Furniture/Mattresses	2.4%	1.2%	23,84
Other Non-Ferrous Metals	1.2%	0.3%	11,348	E-Waste	0.9%	0.4%	9,23
R/C Metals	0.9%	0.2%	9,229				-,
			-,	Residues	6.6%		64,34
Organics	31.6%		308,316	Ash and Dust	0.3%	0.1%	2,86
Food Scraps	23.0%	3.6%	224.732	Fines/Residues/Inerts/Remainders	6.3%	1.4%	61,47
Green Waste	3.9%	0.9%	37,907				• .,
Animal Manure	4.6%	0.6%	45,139				
Animal Carcasses	0.1%	0.1%	537				
Wood Debris	2.6%		25,179				
Lumber and Pallets	1.8%	0.6%	17,748				
Natural Wood	0.2%	0.2%	1,574	Totals	100.0%		976,62
R/C Wood	0.6%	0.2%	5,857	Sample Count	251		,

Table 59: Supplemental Results—Puget Sound WGA Residential Disposed Waste Detailed Composition, 2009



Table 60: Supplemental Results—Puget Sound WGA Self-hauled C&D Disposed Waste
Detailed Composition, 2009

	Est.		_Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	7.3%		13,141	Construction Materials	32.8%		59,481
Newspaper	0.2%	0.1%	407	Roofing	5.3%	2.7%	9,683
Cardboard	2.7%	0.8%	4,844	Drywall	5.1%	3.1%	9,244
Mixed Grade Paper	1.4%	0.6%	2,518	Carpet	8.6%	3.5%	15,495
Compostable Paper	2.1%	2.1%	3,885	Carpet Padding	1.2%	0.6%	2,192
R/C Paper	0.8%	0.5%	1,488	Other Construction Materials	12.6%	4.5%	22,867
Plastic	7.1%		12,898	Hazardous/Special Wastes	1.5%		2,723
#1 PET Bottles	0.2%	0.1%	400	Gasoline and Fuel Oils	0.0%	0.0%	0
#2 HDPE Bottles	0.2%	0.1%	312	Vehicle & Equipment Fluids	0.0%	0.0%	15
Other Plastic Packaging	0.8%	0.6%	1,523	Vehicle Batteries	0.0%	0.0%	0
Other Plastic Products	3.3%	2.1%	5,925	Household Batteries	0.0%	0.0%	34
Bags and Film	2.0%	0.7%	3,594	Latex Paint	0.1%	0.2%	270
R/C Plastics	0.6%	0.5%	1,144	Oil-based Paint & Solvents	0.0%	0.1%	66
				Adhesives and Glues	0.0%	0.0%	9
Glass	1.4%		2,449	Pesticides/Herbicides	0.0%	0.0%	0
Clear Glass Containers	0.2%	0.1%	451	Medical/Pharmaceutical Waste	0.0%	0.0%	13
Green Glass Containers	0.2%	0.1%	368	Cleaners and Corrosives	0.0%	0.0%	0
Brown Glass Containers	0.1%	0.1%	228	Diapers	0.3%	0.2%	588
R/C Glass	0.8%	0.5%	1,401	Other Hazardous/Special Wastes	1.0%	1.5%	1,729
Metal	5.8%		10,550	Consumer Products	3.6%		6,564
Aluminum Cans	0.2%	0.1%	283	Textiles	0.9%	0.4%	1,698
Tin Cans	0.2%	0.1%	293	Tires and Rubber	0.2%	0.2%	380
Other Ferrous Metals	3.2%	1.4%	5,796	Furniture/Mattresses	2.0%	1.3%	3,574
Other Non-Ferrous Metals	0.2%	0.2%	441	E-Waste	0.5%	0.4%	911
R/C Metals	2.1%	1.0%	3,737				
			-,	Residues	3.1%		5,601
Organics	4.4%		8,053	Ash and Dust	0.8%	1.2%	1,394
Food Scraps	3.0%	1.5%	5,515	Fines/Residues/Inerts/Remainders	2.3%	0.9%	4,207
Green Waste	0.7%	0.6%	1,333		2.070	0.070	.,_07
Animal Manure	0.7%	0.5%	1,200				
Animal Carcasses	0.0%	0.0%	5				
Wood Debris	33.0%		59,716				
Lumber and Pallets	25.7%	9.0%	46,564				
Natural Wood	0.4%	0.4%	814	Totals	100.0%		181,174
R/C Wood	6.8%	2.7%	12,337	Sample Count	117		,



Table 61: Supplemental Results—Puget Sound WGA Self-hauled Other Disposed Waste
Detailed Composition, 2009

	Est.		Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	11.6%		37,346	Construction Materials	13.6%		43,699
Newspaper	0.7%	0.2%	2,224	Roofing	1.0%	0.5%	3,194
Cardboard	4.0%	0.7%	12,901	Drywall	3.1%	1.2%	9,912
Mixed Grade Paper	4.0%	0.9%	12,695	Carpet	2.7%	1.1%	8,732
Compostable Paper	1.5%	0.3%	4,953	Carpet Padding	1.0%	0.6%	3,052
R/C Paper	1.4%	0.4%	4,573	Other Construction Materials	5.9%	1.7%	18,809
Plastic	9.4%		30,044	Hazardous/Special Wastes	1.6%		4,997
#1 PET Bottles	0.3%	0.1%	1,085	Gasoline and Fuel Oils	0.0%	0.0%	0
#2 HDPE Bottles	0.3%	0.1%	841	Vehicle & Equipment Fluids	0.1%	0.0%	191
Other Plastic Packaging	1.0%	0.2%	3,253	Vehicle Batteries	0.0%	0.0%	8
Other Plastic Products	4.4%	0.8%	14,165	Household Batteries	0.1%	0.0%	167
Bags and Film	2.1%	0.4%	6,716	Latex Paint	0.1%	0.1%	242
R/C Plastics	1.2%	0.7%	3,985	Oil-based Paint & Solvents	0.0%	0.0%	117
				Adhesives and Glues	0.1%	0.1%	339
Glass	3.3%		10,717	Pesticides/Herbicides	0.0%	0.0%	111
Clear Glass Containers	0.7%	0.2%	2,332	Medical/Pharmaceutical Waste	0.0%	0.0%	112
Green Glass Containers	0.3%	0.1%	950	Cleaners and Corrosives	0.1%	0.0%	285
Brown Glass Containers	0.5%	0.2%	1,453	Diapers	0.7%	0.4%	2,311
R/C Glass	1.9%	1.0%	5,981	Other Hazardous/Special Wastes	0.3%	0.3%	1,115
Metal	10.5%		33,693	Consumer Products	13.0%		41,880
Aluminum Cans	0.2%	0.0%	534	Textiles	3.4%	0.6%	11,039
Tin Cans	1.5%	0.5%	4,704	Tires and Rubber	0.7%	0.3%	2,348
Other Ferrous Metals	4.5%	1.3%	14,470	Furniture/Mattresses	7.8%	1.9%	25,136
Other Non-Ferrous Metals	1.6%	0.5%	5,120	E-Waste	1.0%	0.5%	3,358
R/C Metals	2.8%	0.6%	8,865				
				Residues	4.7%		15,104
Organics	13.9%		44,786	Ash and Dust	0.4%	0.2%	1,284
Food Scraps	5.3%	1.3%	16,904	Fines/Residues/Inerts/Remainders	4.3%	1.4%	13,820
Green Waste	7.2%	2.1%	23,106				
Animal Manure	1.5%	0.6%	4,775				
Animal Carcasses	0.0%	0.0%	1				
Wood Debris	18.3%		58,854				
Lumber and Pallets	14.1%	3.8%	45,160				
Natural Wood	0.8%	0.8%	2,624	Totals	100.0%		321,121
R/C Wood	3.4%	1.1%	11,071	Sample Count	260		•



Supplemental Statewide Results—Overall Disposed Waste Stream

This section characterizes the overall disposed MSW stream for the entire state of Washington by combining all four sectors and all six WGAs considered in this study with supplemental data from recent studies completed by King, Snohomish, and Thurston counties. It uses the list of 50 *material types* that resulted from the process of combining material lists from these four analyses.

Overview by Material Class

Composition estimates by **Material Class** for the overall statewide disposed waste stream are illustrated in Figure 33. The largest **Material Class** in the overall waste stream is **Organics**, which account for approximately 25 percent of the waste stream by weight, followed by **Paper** (21 percent) and **Plastic** (12 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

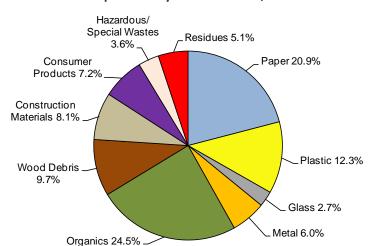


Figure 33: Supplemental Statewide Results—Overall Statewide Disposed Waste Stream Composition by Material Class, 2009

Fifteen Most Prevalent Materials

When combined, the 15 most prevalent *material types* in the overall waste stream account for more than three quarters of the waste stream (76 percent). As shown in Table 62, *Food scraps* (17 percent) is the most prevalent *material type*. *Mixed grade paper* is the most prevalent *material type* that is commonly recyclable, comprising seven percent of the overall waste stream.



	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Food Scraps	16.6%	16.6%	824,605
Lumber and Pallets	7.9%	24.4%	392,420
Mixed Grade Paper	7.3%	31.8%	363,920
Compostable Paper	5.6%	37.4%	278,932
Bags and Film	5.4%	42.8%	269,539
Green Waste	5.3%	48.1%	265,570
Fines/Residues/Inerts/Remainders	4.8%	52.9%	240,128
Cardboard	4.7%	57.7%	235,313
Textiles	3.3%	61.0%	166,545
Other Construction Materials	3.3%	64.3%	161,980
Diapers	2.6%	66.8%	128,676
Furniture/Mattresses	2.4%	69.2%	118,151
Animal Manure	2.3%	71.5%	115,163
Other Ferrous Metals	2.3%	73.8%	114,491
Carpet	2.3%	76.1%	112,579
Total	76.1%		3,788,012

Table 62: Supplemental Statewide Results—Overall Statewide Disposed Waste Stream Fifteen Most Prevalent Material Types, 2009



Detailed Composition

Table 63 lists the composition percentages by weight for each *material type* in Washington's overall disposed waste stream.

Table 63: Supplemental Statewide Results—Overall Statewide Disposed Waste Stream Detailed Composition, 2009

	Est.		_Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	20.9%		1,042,861	Construction Materials	8.1%		402,838
Newspaper	1.5%	0.1%	72,295	Roofing	0.9%	0.3%	42,819
Cardboard	4.7%	0.5%	235,313	Drywall	1.3%	0.3%	63,749
Mixed Grade Paper	7.3%	0.8%	363,920	Carpet	2.3%	0.5%	112,579
Compostable Paper	5.6%	0.4%	278,932	Carpet Padding	0.4%	0.1%	21,711
R/C Paper	1.9%	0.3%	92,400	Other Construction Materials	3.3%	0.6%	161,980
Plastic	12.3%		611,632	Hazardous/Special Wastes	3.6%		177,079
#1 PET Bottles	0.8%	0.0%	40,613	Gasoline and Fuel Oils	0.0%	0.0%	556
#2 HDPE Bottles	0.5%	0.0%	27,143	Vehicle & Equipment Fluids	0.1%	0.0%	3,457
Other Plastic Packaging	1.6%	0.2%	80,303	Vehicle Batteries	0.0%	0.0%	766
Other Plastic Products	2.2%	0.3%	110,350	Household Batteries	0.1%	0.0%	2,923
Bags and Film	5.4%	0.5%	269,539	Latex Paint	0.1%	0.1%	6,360
R/C Plastics	1.7%	0.3%	83,684	Oil-based Paint & Solvents	0.0%	0.0%	2,301
				Adhesives and Glues	0.0%	0.0%	2,043
Glass	2.7%		132,433	Pesticides/Herbicides	0.0%	0.0%	1,271
Clear Glass Containers	1.0%	0.1%	50,577	Medical/Pharmaceutical Waste	0.4%	0.2%	20,706
Green Glass Containers	0.4%	0.0%	17,986	Cleaners and Corrosives	0.0%	0.0%	969
Brown Glass Containers	0.6%	0.1%	28,994	Diapers	2.6%	0.2%	128,676
R/C Glass	0.7%	0.2%	34,876	Other Hazardous/Special Wastes	0.1%	0.1%	7,051
Metal	6.0%		296,667	Consumer Products	7.2%		359,431
Aluminum Cans	0.4%	0.0%	20,386	Textiles	3.3%	0.4%	166,545
Tin Cans	0.9%	0.1%	46,509	Tires and Rubber	0.5%	0.1%	23,862
Other Ferrous Metals	2.3%	0.3%	114,491	Furniture/Mattresses	2.4%	0.5%	118,151
Other Non-Ferrous Metals	0.7%	0.1%	34,734	E-Waste	1.0%	0.3%	50,874
R/C Metals	1.6%	0.2%	80,548				, -
			,	Residues	5.1%		254,011
Organics	24.5%		1,218,236	Ash and Dust	0.3%	0.1%	13,883
Food Scraps	16.6%	1.4%	824,605	Fines/Residues/Inerts/Remainders	4.8%	0.8%	240,128
Green Waste	5.3%	0.9%	265,570				-, -
Animal Manure	2.3%	0.3%	115,163				
Animal Carcasses	0.3%	0.4%	12,898				
Wood Debris	9.7%		483,309				
Lumber and Pallets	7.9%	1.2%	392,420				
Natural Wood	0.3%	0.2%	15,307	Totals	100.0%		4,978,496
R/C Wood	1.5%	0.3%	75,582	Sample Count	1,412		.,



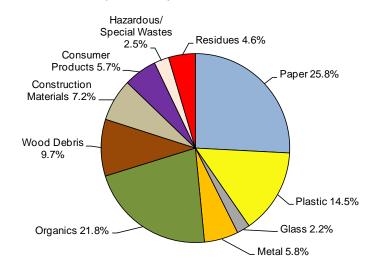
Supplemental Statewide Results—Commercial Waste

This section characterizes the MSW disposed by the commercial sector from the entire state of Washington by combining data from all six WGAs considered in this study with supplemental data from recent studies completed by King, Snohomish, and Thurston counties. It uses the list of 50 *material types* that resulted from the process of combining material lists from these four analyses.

Overview by Material Class

Composition estimates by **Material Class** for the statewide commercial disposed waste sector are illustrated in Figure 34. The largest **Material Class** in this waste sector is **Paper**, which accounts for approximately 26 percent of the waste sector by weight, followed by **Organics** (22 percent) and **Plastic** (15 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

Figure 34: Supplemental Statewide Results—Statewide Commercial Disposed Waste Sector Composition by Material Class, 2009





Fifteen Most Prevalent Materials

The 15 most prevalent *material types* in the commercial waste sector as shown in Table 64 combined account for more than 80 percent of the waste sector (81 percent). The four most prevalent materials—*food scraps, lumber and pallets, mixed grade paper,* and *compostable paper*—are all typically recoverable either through compost or recycling programs. Together these four materials account for approximately 42 percent of the waste sector by weight.

Table 64: Supplemental Statewide Results—Statewide Commercial Disposed Waste Sector
Fifteen Most Prevalent Material Types, 2009

	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Food Scraps	18.2%	18.2%	396,411
Lumber and Pallets	8.2%	26.4%	177,311
Mixed Grade Paper	8.0%	34.4%	173,452
Compostable Paper	7.2%	41.6%	156,906
Bags and Film	7.1%	48.6%	153,550
Cardboard	6.5%	55.1%	141,019
Fines/Residues/Inerts/Remainders	4.3%	59.5%	94,328
Other Construction Materials	3.1%	62.6%	68,482
Textiles	3.0%	65.6%	65,130
Green Waste	2.9%	68.5%	63,740
R/C Paper	2.7%	71.2%	58,333
Carpet	2.5%	73.7%	53,853
Other Ferrous Metals	2.4%	76.1%	51,186
Other Plastic Products	2.3%	78.4%	49,976
R/C Plastics	2.2%	80.6%	48,337
Total	80.6%		1,752,013



Detailed Composition

Table 65 lists the composition percentages by weight for each *material type* in Washington's commercial disposed waste sector.

Table 65: Supplemental Statewide Results—Statewide Commercial Disposed Waste Sector Detailed Composition, 2009

Material	Est. Percent	+/-	Est. Tons	Material	Est. Percent	+/-	Est. Tons
Paper	25.8%	+/-	561,485	Construction Materials	7.2%	+/-	157,485
Newspaper	1.5%	0.2%	31,776	Roofing	0.5%	0.5%	10,121
Cardboard	6.5%	0.2%	141,019	Drywall	0.7%	0.6%	15,996
Mixed Grade Paper	8.0%	1.4%	173,452	Carpet	2.5%	0.0%	53,853
Compostable Paper	7.2%	0.8%	156,906	Carpet Padding	0.4%	0.2%	9,033
R/C Paper	2.7%	0.7%	58,333	Other Construction Materials	3.1%	1.0%	68,482
Plastic	14.5%		316,264	Hazardous/Special Wastes	2.5%		55,325
#1 PET Bottles	0.8%	0.1%	17,431	Gasoline and Fuel Oils	0.0%	0.0%	546
#2 HDPE Bottles	0.5%	0.1%	9,898	Vehicle & Equipment Fluids	0.1%	0.1%	1.918
Other Plastic Packaging	1.7%	0.3%	37,072	Vehicle Batteries	0.0%	0.0%	35
Other Plastic Products	2.3%	0.5%	49,976	Household Batteries	0.0%	0.0%	918
Bags and Film	7.1%	0.9%	153,550	Latex Paint	0.1%	0.1%	2.027
R/C Plastics	2.2%	0.7%	48,337	Oil-based Paint & Solvents	0.0%	0.0%	100
			- ,	Adhesives and Glues	0.0%	0.0%	701
Glass	2.2%		48,812	Pesticides/Herbicides	0.0%	0.1%	819
Clear Glass Containers	0.9%	0.1%	19,391	Medical/Pharmaceutical Waste	0.7%	0.4%	15,921
Green Glass Containers	0.3%	0.1%	6,980	Cleaners and Corrosives	0.0%	0.0%	180
Brown Glass Containers	0.6%	0.2%	12,266	Diapers	1.4%	0.3%	29,896
R/C Glass	0.5%	0.2%	10,174	Other Hazardous/Special Wastes	0.1%	0.1%	2,263
Metal	5.8%		126,888	Consumer Products	5.7%		123,729
Aluminum Cans	0.4%	0.0%	8,106	Textiles	3.0%	0.7%	65,130
Tin Cans	0.8%	0.1%	17,100	Tires and Rubber	0.5%	0.1%	11,224
Other Ferrous Metals	2.4%	0.6%	51,186	Furniture/Mattresses	1.5%	0.7%	33,120
Other Non-Ferrous Metals	0.6%	0.2%	13,365	E-Waste	0.7%	0.3%	14,256
R/C Metals	1.7%	0.4%	37,132				
				Residues	4.6%		99,763
Organics	21.8%		472,974	Ash and Dust	0.3%	0.2%	5,435
Food Scraps	18.2%	2.6%	396,411	Fines/Residues/Inerts/Remainders	4.3%	1.2%	94,328
Green Waste	2.9%	0.8%	63,740				
Animal Manure	0.6%	0.2%	12,776				
Animal Carcasses	0.0%	0.0%	47				
Wood Debris	9.7%		211,349				
Lumber and Pallets	8.2%	2.1%	177,311				
Natural Wood	0.4%	0.5%	8,459	Totals	100.0%		2,174,075
R/C Wood	1.2%	0.4%	25,579	Sample Count	446		



Plastic 12.4%

Glass 3.1%

Metal 5.1%

Supplemental Statewide Results—Residential Waste

This section characterizes the MSW disposed by the residential sector from the entire state of Washington by combining data from all six WGAs considered in this study with data from recent studies completed by King, Snohomish, and Thurston counties. It uses the list of 50 *material types* that resulted from the process of combining material lists from these four analyses.

Overview by Material Class

Products 6.7%

Organics 35.0%

Construction Materials 2.1% Wood Debris 2.2%

Figure 35 shows composition estimates by **Material Class** for the statewide residential disposed waste sector. The largest **Material Class** in this waste sector is **Organics**, which account for approximately 35 percent of the waste sector by weight, followed by **Paper** (22 percent) and **Plastic** (12 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

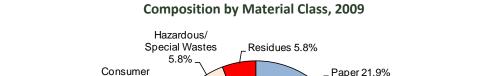


Figure 35: Supplemental Statewide Results—Statewide Residential Disposed Waste Sector Composition by Material Class, 2009



Fifteen Most Prevalent Materials

Food scraps is the most prevalent *material type*, comprising about 22 percent of residential disposed waste. A total of about 82 percent of residential waste is composed of the 15 *material type*s shown in Table 66. *Mixed grade paper* is the most prevalent *material type* that is traditionally recyclable, comprising approximately nine percent of residential disposed waste.

Table 66: Supplemental Statewide Results—Statewide Residential Disposed Waste Sector Fifteen Most Prevalent Material Types, 2009

	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Food Scraps	21.6%	21.6%	394,943
Mixed Grade Paper	9.0%	30.6%	164,547
Green Waste	8.1%	38.7%	148,271
Compostable Paper	6.0%	44.8%	110,383
Bags and Film	5.5%	50.3%	100,139
Fines/Residues/Inerts/Remainders	5.5%	55.7%	99,649
Animal Manure	5.2%	60.9%	94,672
Diapers	5.1%	66.0%	93,709
Textiles	4.0%	70.1%	73,188
Cardboard	3.5%	73.5%	63,060
Newspaper	2.0%	75.5%	36,383
Other Plastic Packaging	2.0%	77.5%	35,941
Other Plastic Products	1.6%	79.1%	30,010
Lumber and Pallets	1.5%	80.6%	27,304
Other Ferrous Metals	1.5%	82.1%	27,118
Total	82.1%	I	1,499,318



Detailed Composition

Table 67 lists the composition percentages by weight for each *material type* in Washington's residential disposed waste sector.

Table 67: Supplemental Statewide Results—Statewide Residential Disposed Waste Sector Detailed Composition, 2009

	Est.		Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	21.9%		399,387	Construction Materials	2.1%		38,053
Newspaper	2.0%	0.3%	36,383	Roofing	0.1%	0.1%	2,088
Cardboard	3.5%	0.5%	63,060	Drywall	0.3%	0.1%	4,790
Mixed Grade Paper	9.0%	1.6%	164,547	Carpet	0.7%	0.2%	12,845
Compostable Paper	6.0%	0.4%	110,383	Carpet Padding	0.2%	0.1%	2,769
R/C Paper	1.4%	0.2%	25,013	Other Construction Materials	0.9%	0.3%	15,561
Plastic	12.4%		225,984	Hazardous/Special Wastes	5.8%		106,810
#1 PET Bottles	1.1%	0.1%	20,943	Gasoline and Fuel Oils	0.0%	0.0%	10
#2 HDPE Bottles	0.8%	0.1%	15,463	Vehicle & Equipment Fluids	0.1%	0.0%	1,307
Other Plastic Packaging	2.0%	0.3%	35,941	Vehicle Batteries	0.0%	0.0%	551
Other Plastic Products	1.6%	0.2%	30,010	Household Batteries	0.1%	0.0%	1,726
Bags and Film	5.5%	0.7%	100,139	Latex Paint	0.1%	0.0%	1,297
R/C Plastics	1.3%	0.2%	23,488	Oil-based Paint & Solvents	0.0%	0.0%	829
				Adhesives and Glues	0.0%	0.0%	765
Glass	3.1%		57,461	Pesticides/Herbicides	0.0%	0.0%	291
Clear Glass Containers	1.4%	0.1%	26,398	Medical/Pharmaceutical Waste	0.2%	0.1%	4,244
Green Glass Containers	0.5%	0.1%	9,459	Cleaners and Corrosives	0.0%	0.0%	459
Brown Glass Containers	0.8%	0.1%	13,927	Diapers	5.1%	0.4%	93,709
R/C Glass	0.4%	0.1%	7,678	Other Hazardous/Special Wastes	0.1%	0.0%	1,624
Metal	5.1%		92,467	Consumer Products	6.7%		122,747
Aluminum Cans	0.6%	0.0%	11,011	Textiles	4.0%	0.6%	73,188
Tin Cans	1.3%	0.1%	23,666	Tires and Rubber	0.4%	0.1%	6,836
Other Ferrous Metals	1.5%	0.5%	27,118	Furniture/Mattresses	1.3%	0.7%	24,605
Other Non-Ferrous Metals	0.8%	0.2%	14,471	E-Waste	1.0%	0.4%	18,118
R/C Metals	0.9%	0.2%	16,202				
				Residues	5.8%		105,224
Organics	35.0%		638,597	Ash and Dust	0.3%	0.1%	5,575
Food Scraps	21.6%	2.3%	394,943	Fines/Residues/Inerts/Remainders	5.5%	1.2%	99,649
Green Waste	8.1%	2.0%	148,271				
Animal Manure	5.2%	0.7%	94,672				
Animal Carcasses	0.0%	0.0%	711				
Wood Debris	2.2%		39,790				
Lumber and Pallets	1.5%	0.4%	27,304				
Natural Wood	0.2%	0.1%	3,282	Totals	100.0%		1,826,521
R/C Wood	0.5%	0.1%	9,204	Sample Count	389		



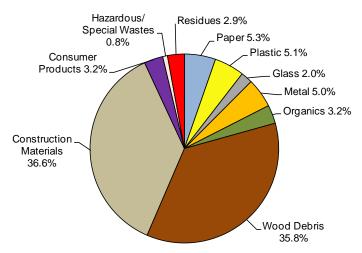
Supplemental Statewide Results—Self-hauled C&D Waste

This section characterizes the MSW disposed by the self-hauled C&D sector from the entire state of Washington by combining data from all six WGAs considered in this study with data from recent studies completed by King, Snohomish, and Thurston counties. It uses the list of 50 *material types* that resulted from the process of combining material lists from these four analyses.

Overview by Material Class

Figure 36 shows composition estimates by **Material Class** for the statewide self-hauled C&D disposed waste sector. The largest **Material Class** in this waste sector is **Construction Materials**, which accounts for approximately 37 percent of the waste sector by weight, followed by **Wood Debris** (36 percent). The eight remaining **Material Classes** combined comprise approximately 27 percent of the self-hauled C&D disposed waste sector. See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.







Fifteen Most Prevalent Materials

When combined, the 15 most prevalent *material types* in the self-hauled C&D disposed waste sector account for approximately 90 percent of the waste sector as shown in Table 68. *Lumber and pallets* is the most prevalent *material type*, comprising nearly one-third of the self-hauled C&D disposed waste sector.

	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Lumber and Pallets	30.2%	30.2%	112,952
Other Construction Materials	12.8%	43.0%	47,995
Drywall	8.0%	51.0%	29,853
Carpet	7.5%	58.4%	27,996
Roofing	7.2%	65.7%	27,102
R/C Wood	5.4%	71.1%	20,233
Other Ferrous Metals	2.7%	73.8%	10,254
Cardboard	2.7%	76.5%	10,018
Fines/Residues/Inerts/Remainders	2.5%	79.0%	9,421
Other Plastic Products	2.3%	81.4%	8,760
Furniture/Mattresses	1.8%	83.2%	6,797
R/C Metals	1.8%	85.0%	6,754
R/C Glass	1.7%	86.7%	6,375
Food Scraps	1.5%	88.2%	5,629
Bags and Film	1.4%	89.6%	5,141
Total	89.6%		335,279

Table 68: Supplemental Statewide Results—Statewide Self-hauled C&D Disposed Waste Sector
Fifteen Most Prevalent Material Types, 2009



Detailed Composition

Table 69 lists the composition percentages by weight for each *material type* in Washington's self-hauled C&D disposed waste sector.

Table 69: Supplemental Statewide Results—Statewide Self-hauled C&D Disposed Waste Sector Detailed Composition, 2009

	Est.	,	Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	5.3%	0.40/	20,026	Construction Materials	36.6%	0.40/	136,96
Newspaper	0.1%	0.1%	526	Roofing	7.2%	2.4%	27,10
Cardboard	2.7%	0.8%	10,018	Drywall	8.0%	2.3%	29,85
Mixed Grade Paper	0.9%	0.3%	3,329	Carpet	7.5%	2.5%	27,99
Compostable Paper	1.1%	1.0%	4,040	Carpet Padding	1.1%	0.4%	4,01
R/C Paper	0.6%	0.3%	2,113	Other Construction Materials	12.8%	4.4%	47,99
Plastic	5.1%		19,249	Hazardous/Special Wastes	0.8%		3,02
#1 PET Bottles	0.1%	0.0%	432	Gasoline and Fuel Oils	0.0%	0.0%	
#2 HDPE Bottles	0.1%	0.0%	337	Vehicle & Equipment Fluids	0.0%	0.0%	1
Other Plastic Packaging	0.5%	0.3%	1,832	Vehicle Batteries	0.0%	0.0%	
Other Plastic Products	2.3%	1.2%	8,760	Household Batteries	0.0%	0.0%	3
Bags and Film	1.4%	0.4%	5,141	Latex Paint	0.1%	0.1%	54
R/C Plastics	0.7%	0.4%	2,747	Oil-based Paint & Solvents	0.0%	0.0%	6
				Adhesives and Glues	0.0%	0.0%	1
Glass	2.0%		7,505	Pesticides/Herbicides	0.0%	0.0%	
Clear Glass Containers	0.1%	0.1%	467	Medical/Pharmaceutical Waste	0.0%	0.0%	1
Green Glass Containers	0.1%	0.1%	380	Cleaners and Corrosives	0.0%	0.0%	
Brown Glass Containers	0.1%	0.0%	283	Diapers	0.2%	0.1%	58
R/C Glass	1.7%	1.0%	6,375	Other Hazardous/Special Wastes	0.5%	0.7%	1,75
Metal	5.0%		18,788	Consumer Products	3.2%		12,11
Aluminum Cans	0.1%	0.0%	315	Textiles	0.8%	0.3%	2,90
Tin Cans	0.1%	0.0%	331	Tires and Rubber	0.3%	0.3%	1,19
Other Ferrous Metals	2.7%	0.8%	10,254	Furniture/Mattresses	1.8%	1.1%	6,79
Other Non-Ferrous Metals	0.3%	0.1%	1,135	E-Waste	0.3%	0.2%	1,21
R/C Metals	1.8%	0.7%	6,754				,
			-,	Residues	2.9%		10,81
Organics	3.2%		11,873	Ash and Dust	0.4%	0.6%	1,39
Food Scraps	1.5%	0.7%	5,629	Fines/Residues/Inerts/Remainders	2.5%	1.4%	9,42
Green Waste	1.3%	0.8%	4,946				,
Animal Manure	0.3%	0.2%	1,293				
Animal Carcasses	0.0%	0.0%	5				
Wood Debris	35.8%		134,033				
Lumber and Pallets	30.2%	9.5%	112,952				
Natural Wood	0.2%	0.2%	847	Totals	100.0%		374,38
R/C Wood	5.4%	1.8%	20.233	Sample Count	217		0,00



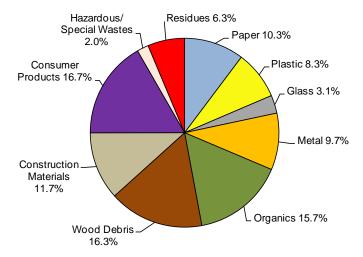
Supplemental Statewide Results—Self-hauled Other Waste

This section characterizes the MSW disposed by the self-hauled other sector from the entire state of Washington by combining data from all six WGAs considered in this study with data from recent studies completed by King, Snohomish, and Thurston counties. It uses the list of 50 *material types* that resulted from the process of combining material lists from these four analyses.

Overview by Material Class

Figure 37 illustrates composition estimates by **Material Class** for the statewide self-hauled other disposed waste sector. The largest **Material Class** in this waste sector is **Consumer Products**, which accounts for approximately 17 percent of the waste sector by weight, followed by **Wood Debris** (16 percent) and **Organics** (16 percent). See Appendix B: List and Definitions of Material Types for a description of the *material types* included in each **Material Class**.

Figure 37: Supplemental Statewide Results—Statewide Self-hauled Other Disposed Waste Sector Composition by Material Class, 2009





Fifteen Most Prevalent Materials

When combined, the 15 most prevalent *material types* in the self-hauled other disposed waste sector account for more than three quarters (77 percent) of the waste sector as shown in Table 70. *Lumber and pallets* (12 percent) and *furniture/mattresses* (nine percent) are the two most prevalent materials in the self-hauled other disposed waste sector.

Table 70: Supplemental Statewide Results—Statewide Self-hauled Other Disposed Waste Sector					
Fifteen Most Prevalent Material Types, 2009					

	Est.	Cum.	Est.
Material	Percent	Percent	Tons
Lumber and Pallets	12.4%	12.4%	74,854
Furniture/Mattresses	8.9%	21.3%	53,628
Green Waste	8.1%	29.3%	48,613
Fines/Residues/Inerts/Remainders	6.1%	35.4%	36,731
Other Construction Materials	5.0%	40.4%	29,942
Food Scraps	4.6%	45.0%	27,621
Other Ferrous Metals	4.3%	49.3%	25,934
Textiles	4.2%	53.5%	25,323
Mixed Grade Paper	3.7%	57.2%	22,593
Other Plastic Products	3.6%	60.8%	21,604
Cardboard	3.5%	64.3%	21,216
R/C Wood	3.4%	67.7%	20,565
R/C Metals	3.4%	71.1%	20,460
Carpet	3.0%	74.1%	17,885
E-Waste	2.9%	76.9%	17,285
Total	76.9%		464,255



Detailed Composition

Table 71 lists the composition percentages by weight for each *material type* in Washington's self-hauled other disposed waste sector.

Table 71: Supplemental Statewide Results—Statewide Self-hauled Other Disposed Waste Sector Detailed Composition, 2009

	Est.	,	Est.		Est.		Est.
Material	Percent	+/-	Tons	Material	Percent	+/-	Tons
Paper	10.3%	0.00/	61,963	Construction Materials	11.7%	0.00/	70,339
Newspaper	0.6%	0.3%	3,610	Roofing	0.6%	0.3%	3,508
Cardboard	3.5%	0.6%	21,216	Drywall	2.2%	0.8%	13,110
Mixed Grade Paper	3.7%	1.0%	22,593	Carpet	3.0%	1.1%	17,885
Compostable Paper	1.3%	0.3%	7,604	Carpet Padding	1.0%	0.5%	5,894
R/C Paper	1.2%	0.3%	6,941	Other Construction Materials	5.0%	1.6%	29,942
Plastic	8.3%		50,135	Hazardous/Special Wastes	2.0%		11,918
#1 PET Bottles	0.3%	0.1%	1,807	Gasoline and Fuel Oils	0.0%	0.0%	0
#2 HDPE Bottles	0.2%	0.0%	1,446	Vehicle & Equipment Fluids	0.0%	0.0%	217
Other Plastic Packaging	0.9%	0.2%	5,458	Vehicle Batteries	0.0%	0.0%	180
Other Plastic Products	3.6%	0.8%	21,604	Household Batteries	0.0%	0.0%	245
Bags and Film	1.8%	0.4%	10,709	Latex Paint	0.4%	0.4%	2,493
R/C Plastics	1.5%	0.6%	9,112	Oil-based Paint & Solvents	0.2%	0.3%	1,306
			,	Adhesives and Glues	0.1%	0.0%	563
Glass	3.1%		18,655	Pesticides/Herbicides	0.0%	0.0%	162
Clear Glass Containers	0.7%	0.2%	4,321	Medical/Pharmaceutical Waste	0.1%	0.1%	527
Green Glass Containers	0.2%	0.1%	1,167	Cleaners and Corrosives	0.1%	0.0%	330
Brown Glass Containers	0.4%	0.1%	2,519	Diapers	0.7%	0.3%	4,482
R/C Glass	1.8%	0.7%	10,649	Other Hazardous/Special Wastes	0.2%	0.2%	1,414
Metal	9.7%		58,524	Consumer Products	16.7%		100,842
Aluminum Cans	0.2%	0.0%	955	Textiles	4.2%	0.9%	25,323
Tin Cans	0.9%	0.3%	5,413	Tires and Rubber	0.8%	0.3%	4,605
Other Ferrous Metals	4.3%	1.1%	25,934	Furniture/Mattresses	8.9%	2.1%	53,628
Other Non-Ferrous Metals	1.0%	0.3%	5,763	E-Waste	2.9%	1.8%	17,285
R/C Metals	3.4%	0.9%	20,460	2 114010	2.070		,200
IVC metals	0.170	0.070	20,100	Residues	6.3%		38,208
Organics	15.7%		94.792	Ash and Dust	0.2%	0.1%	1,478
Food Scraps	4.6%	0.9%	27,621	Fines/Residues/Inerts/Remainders	6.1%	3.0%	36,731
Green Waste	8.1%	3.0%	48,613				
Animal Manure	1.1%	0.4%	6,422				
Animal Carcasses	2.0%	3.0%	12,135				
Wood Debris	16.3%		98,138				
Lumber and Pallets	12.4%	3.3%	74,854				
Natural Wood	0.5%	0.4%	2,719	Totals	100.0%		603,514
R/C Wood	3.4%	1.0%	20,565	Sample Count	360		000,014

