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Solid Waste Characterization Study for West Virginia

GAI Project Number: R231053.00

January 2025

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Prepared for: WV Department of Environmental Protection.
Office of Environmental Advocate
Rehabilitation Environmental Action Plan (REAP)
601 57th Street, SE
Charleston, West Virginia 25304

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Table of Contents

List of Figures

Table of Contents (Continued)

List of Tables

Table of Contents (Continued)

I.0 Introduction

The generation of municipal solid waste (MSW) in the United States (U.S.) has historically been ever increasing. According to the U.S. Environmental Protection Agency (EPA), the average annual growth rate of MSW generation from the time period of 1995 to 2018 has been 3.23 percent in the U.S. The EPA also reports the average annual population growth rate in the U.S. from 1990 to 2020 to be 33 percent. Therefore, without controlling the generation rate of MSW as the population increases, the quantity of MSW will become paramount thus creating a waste management crisis in the U.S. Source reduction and material recovery have been proposed to control MSW generation. Source reduction includes methods of product reuse, product redesign including material substitution, and modification of manufacturing procedures to reduce the quantity of waste produced. Material recovery includes methods of recycling, composting, and incineration to retrieve materials or energy from waste produced. Both generation control methods work to minimize the quantity of MSW disposed in landfills.

On October 18, 1991, West Virginia passed legislation for the development and implementation of mandatory recycling programs by October 18, 1992. As part of this program, each municipality with a population of 10,000 people or more was mandated to develop a recycling program. Based on this legislation, the Solid Waste Management Board of West Virginia (SWMB) took a pro-active stand towards minimizing the quantity of municipal solid waste disposed of in landfills. The Solid Waste Management Board funded a Study to obtain waste characterization data for the State of West Virginia waste stream.

GAI provided Engineering Services for the Study from 1995-1997, which was performed at four landfills in West Virginia. GAI then provided the Waste Characterization Study report in March 1997, which represented the methodology, results, and findings of the study performed.

GAI's methodology for conducting this study was a source-specific approach in which the individual components of the waste stream were sampled, sorted, and weighed. GAI's approach for this study was to review existing waste stream data, collect data, and develop fundamental results on the quantity and classification of the components in the solid waste stream in the rural and urban areas of West Virginia. GAI identified potential recoverable materials and estimated per capita generation of municipal solid waste disposed of in landfills.

Since the previous study was performed over 25 years ago, The West Virginia Department of Environmental Protection, Office of Environmental Advocate, Rehabilitation Environmental Action Plan (REAP) retained an engineering firm to conduct an updated Waste Characterization Study to update and compare results with the 1997 Study.

This report presents the methodology, results, and findings of the waste characterization study performed. The methodology was like the 1997 study. The individual components of the waste stream were sampled, sorted, and weighed. GAI 's approach for this study was to review existing waste stream data, collect data, and develop fundamental results on the quantity and classification of the components in the solid waste stream in West Virginia. The intent of this characterization study was to determine waste stream components and estimate per capita generation of MSW. The scope of included: review of existing waste characterization data, field sampling and sorting of MSW, analysis of field data, estimation of per capita generation, report submittal, and presentation of results.

2.0 Materials, Methods, And Field Program

GAI developed a work plan document to govern implementation of the waste characterization activities. The work plan outlined GAI’s technical approach for waste characterization and data evaluation. The work plan details are presented in the following sections.

2.1 Study Area Selection

Based on discussions with the project team, the study locations selected were to be Waste Management's Disposal Services Landfill in Putnam County, Waste Management's City of Charleston Landfill in Kanawha County, Waste Management's Northwestern Landfill in Wood County, Tucker County Landfill, Greenbrier County Landfill and Nicholas County Transfer Station. The location of the sites are shown on Figure 1 which also shows the wasteshed locations in West Virginia. Three of the locations are generally in urban areas (Wastesheds C and H), and three are located in rural areas (Wastesheds B and F). The sample locations (Disposal Services Landfill, City of Charleston Landfill, Greenbrier County Landfill and Nicholas County Landfill/Transfer Station) from the 1997 study were included in the current study.

Waste stream samples that are representative were required to characterize the waste stream. Waste stream sampling was determined to be most effective if completed at a landfill/transfer station which allowed for ease of sample disposal, adequate sorting area, and ease in determination of waste sample origin and type (residential, commercial, etc.). All landfills/transfer stations to be sampled had similar characteristics to reduce the number of variables that influence the waste characterization data.

2.2 Field Waste Characterization

Sampling and characterization of solid waste was performed in September 2024. The field staff were trained in the characterization of the solid waste sampling methods and safety procedures prior to beginning field sampling. The training included emphasis on the accuracy and consistency in the collection of the data and was geared toward the specified methodologies in this study. Additionally, the field operations manager (FOM) received training in the categories of waste generators, truck types, and equipment utilized during field activities to aid in interview activities. The FOM was the person overseeing field activities and assuring the activities were being completed as required by the work plan. The FOM participated in all field activities including sampling and characterization of MSW. Field characterization activities were completed utilizing three staff members.

The driver of each disposal truck sampled was interviewed. The format of the interview form is presented in Figure 2. The interview consisted of determining the origin of the waste, whether it was from single-family residence, multi-family residence, or commercial/institutional sources, and whether the waste was generated within the wasteshed. Only waste generated in West Virginia from residential and commercial sources was sampled and sorted. The type of disposal vehicle was recorded. The net load weight of the disposal vehicle was obtained from the driver during the interview or from the landfill scale master. Completed driver interview forms are presented in Appendix A.

Approximately 30 to 100 pounds of waste were randomly collected at the specific landfill from four trucks as they unloaded. The solid waste was in a pile as it was being emptied from the truck. The samples were collected from the perimeter sides and top of each load to attempt to provide a random sample and to reduce the potential of sample bias. This sampling method allowed for samples to be obtained from the entire length of the collection route. The samples collected were then transported to the sorting area. A portable shelter to offer protection from the elements during the sorting operations and to prevent the wind from blowing away the lighter materials was available. The aggregate sample was weighed to determine the bag weight of the sample prior to sorting. Sorting was performed on a sorting table. The sorting table had a wire screen bottom with one (l) inch square openings and was placed over a plastic sheet. This allowed for the "fines" and "supermix" materials to fall through onto the plastic. Materials categorized as "Fines and Supermix" were any items without respect to their material composition that passed the one (1) inch square screen during sorting activities. The "fines" and "supermix" were combined and weighed. The remaining materials on the screen table were hand sorted into the categories as listed below:

- Paper
  - Newspaper
  - Magazine
  - Corrugated
  - Other Paperboards
  - Books
  - Office Paper
  - Other (Shredded, etc.)
- Organics
  - Food
  - Disposable Diapers
  - Yard & Garden Waste
- Textiles
- Metals
  - Aluminum Cans
  - Bimetal Cans
  - Ferrous/Tinned Cans
  - Other Ferrous Metal i.e., Appliances
  - Other Non-Ferrous Metal
- Rubber
- Rubble
  - Asphalt
  - Concrete/Brick/Rock
  - Other
- Plastics
  - PET
  - HDPE
  - Commercial Plastics
  - Other – Rigid
  - Other – Flexible
  - Styrofoam
- Wood
  - Pallets
  - Lumber
  - Other
- Glass
- Miscellaneous and Fines
  - Contaminated Soil
  - Fines and Supermix
- Oversized Items

Upon completion of material segregation, each category of constituents was weighed. A platform scale with a minimum capacity of 50 pounds capable of reading accurately to a tenth of a pound was utilized to weigh the different categories of waste. The scales were checked for calibration prior to each day's sampling by zeroing the scale and determining the weight of objects with known weights. Two scales were available for use if a problem with a scale occurred in the field. Data collection forms for each sample were used to document the quantity by weight of each category of the segregated waste. The format of the data collection form is presented in Figure 3. Completed sampling forms are included in Appendix B.

Prior to sample disposal, the sampling form and sample were reviewed and checked by the FOM to ensure materials were classified properly, no materials were missed or erroneously recorded, and all categories roughly equated the estimated total sample weight. The driver interview form was also reviewed prior to the truck leaving the site.

Other quality control measures performed by field personnel consisted of daily verification of scale calibration, separately weighing all of the samples by two field personnel, and comparison of results with variations being resolved prior to finalizing the data collection forms. Two field personnel reviewed and signed the forms denoting the forms were checked, and they agreed with the data.

2.3 Health and Safety Plan

To assure the health and safety of GAI employees, the project Health and Safety Plan (HASP) was prepared to address the specific hazards and conditions present or anticipated during field work required for this project. The HASP included requirements and procedures for employee health and safety training, safe work practices and procedures, safe access and egress from the site, requirements for personal protective equipment (PPE), such as disposable coveralls, puncture resistant gloves, boots, respirators, etc., requirements for air monitoring, procedures for emergency response and accessing local emergency medical services. It was the intent of the HASP to aid in the protection of GAI employees and contract

personnel from unnecessary exposures to harmful substances, to provide safe working conditions, and to ensure compliance with federal, state, and local regulations.

The plan was prepared in accordance with the regulatory requirements of 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response. It specifically addressed those activities associated with this Waste Characterization Study at various locations within West Virginia.

During development of the plan, consideration was given to current safety standards, as defined by EPA/OSHA/NIOSH, health effects and standards for known contaminants, and procedures designed to account for the potential exposure to unknown substances. Specifically, the following reference sources have been consulted:

- OSHA 29 CFR 1910.120 and EPA 40 CFR 311
- U.S. EPA, OERR ERT Standard Operating Safety Guidelines
- OHSA/NIOSH/EPA/USCG Occupational Health and Safety Guidelines
- NIOSH Pocket Guide to Chemical Hazards

Specifically included in the plan were health and safety responsibilities, standard operating procedures, levels of protection, monitoring requirements, contingency plan, and emergency notification requirements associated with the tasks involved in the referenced project. The content of the plan was subject to change or revision based upon additional information made available to health and safety personnel or project management involving soil or groundwater characterization and/or changes in the original scope of work that may have occurred subsequent to the preparation of the HASP.

The FOM ensured that the requirements of the HASP were followed during field activities. As an additional insurance that field work would be conducted safely, the FOM had up-to-date training and certification for landfill site safety and First Aid/CPR. Further, all field personnel were trained in the requirements of the HASP prior to the start of field activities.

GAI's Director of Health and Safety, a Certified Industrial Hygienist and Certified Safety Professional, directed and reviewed the project's HASP, directed field training as required by the HASP, assisted the project manager in enforcing and auditing staff compliance with the HASP, and was available for consultation on any specific health and safety aspects which may have arisen during the project.

3.0 Waste Characterization

3.1 Sample Weight and Type Generator

During the waste stream characterization study, approximately 1,146 pounds of MSW were sorted at landfills from Wastesheds B, C, F, and H in September 2024. The total weights of MSW sorted in each wasteshed are as follows: Wasteshed B - 161.2 pounds, Wasteshed C - 277.0 pounds, Wasteshed F - 330.5 pounds, Wasteshed H - 376.9 pounds. The detailed weights of each sample during the period at each landfill are presented on the waste characterization sampling forms in Appendix B. The quantity of MSW disposed at the landfills during this study is presented in Tables 1 through 7. MSW samples were generally collected in the bag as they were unloaded at the landfills. The average weight per bag sampled for all wastesheds was 12 pounds per bag.

3.2 Results

Upon completion of field waste characterization activities, the data collected was reduced to allow analysis and evaluation of the data relative to the waste characterization study. Table 8 presents the average percent by total weight of each component of the waste stream results. The results reflect “as sorted” data without an adjustment for the moisture content of the waste.

A direct comparison, using the general classification categories delineated in this study (paper, organics, plastics, textiles, glass, metals, electronics, batteries, hazardous waste, rubber, construction rubble, wood

products, miscellaneous and fines, and oversized), of the average total percent of each component by total weight for the waste stream in Wastesheds B, C, F and H is presented in Table 1. Batteries, electronics and hazardous waste were be identified in the sorting process, however, none were found in the sorting process. Figure 4 presents a graphical representation of the data in Table 1. From Table 1, the material making up the largest majority of the waste stream is plastics for Wastesheds B, F, and H. Paper is the material most present in samples for Wasteshed C. Plastic makes up approximately 27.5 to 35.6 percent of the waste stream in Wastesheds B, F, and H. Paper makes up approximately 28.5 percent of the waste stream in Wasteshed C. Figures 5 through 11 graphically present the composition of the total waste stream sampled at each landfill during the sampling period.

3.3 Evaluation

3.3.1 Paper

The paper category was subdivided into seven subcategories: newspaper, magazines, corrugated, other paperboard, books, office paper, and other. The “office paper” subcategory makes up the largest percentage of paper by weight and shown in Table 1 for Wastesheds C and H. The “other” paper subcategory generally contained discarded mail, tissue and paper towels, paper plates and cups, brown paper bags, wrapping papers, and other paper packaging. The recyclability of the materials in the “other” paper subcategory is questionable due to the lower grade of the papers in the category and their contamination with organics as observed during sampling activities.

“Other” paper accounted for 15.1, 0, 10.9, and 8.3 percent of the total paper in Wastesheds B, C, F, and H, respectively. If the remaining subcategories are recyclable, approximately 10, 28.5, 15.9, and 19.5 percent of the residential and commercial waste stream in Wastesheds B, C, F, and H, respectively was recyclable paper.

3.3.2 Plastics

The plastics category was subdivided into six subcategories: PET, HDPE, commercial plastics, other-rigid, other-flexible, and Styrofoam. In GAI’s sorting activities, PET, HDPE, and “other flexible” made up the majority of plastics sorted. The percent Styrofoam by weight was lower than PET and HDPE because of the difference in material densities. Most plastics sorted consisted of packaging containers for food and drinks. The EPA reports that plastic packaging containers make up the majority of recycled plastic. Approximately 27.5 percent, 24.7 percent, 29.0 percent, and 35.6 percent based of total weight of the residential and commercial waste stream was composed of recyclable plastic in Wastesheds B, C, F, and H, respectively.

3.3.3 Metals

The metals category was subdivided into five categories: aluminum cans, bi-metal cans, ferrous/tinned cans, other ferrous, and other non-ferrous. During the sorting activities, aluminum and ferrous/tinned cans made up the majority of metals sorted. The majority of cans consisted of packaging containers for food and drinks. Approximately 7.8 percent, 5.1 percent, 8.1 percent, and 6.7 percent based of total weight of the residential and commercial waste stream was composed of recyclable metals in Wastesheds B, C, F, and H, respectively.

3.3.4 Textiles

The textiles category in GAI’s study contained primarily discarded clothing. This type of textile, if recovered, is reused as clothing by others and potentially will reenter the waste stream at a later time. Therefore, recovery of textiles is a diversion of materials rather than recycling of a material. Based on this information the recyclability of textiles is considered to be minimal. Reuse (hand-me-down clothing, rags, etc.) of textiles should be encouraged prior to disposal to maximize material usage. GAI’s data indicates that textiles accounted for 1.3 percent, 9.9 percent,

8.7 percent, and 14.0 percent by weight of the residential and commercial waste stream sampled in Wastesheds B, C, F, and H, respectively.

3.3.5 Organics

The organics category was subdivided into three subcategories: food, disposable diapers, and yard and garden waste. For the sorting activities food waste made up the largest percentage of organics sorted in all four wastesheds. The percent of food waste in the waste stream was 21.8, 9.4, 17.2, and 7.0 in Wastesheds B, C, F and H, respectively. Comparing the data, this could indicate the usage of garbage disposals in urban areas is higher than rural areas as one would expect to observe or the use of more prepared foods in homes in Wasteshed H. GAI believes recovery of food wastes are most feasible in areas with industrial or institutional activities related to food preparation. This is the case because the separation of food included in the residential and commercial waste stream could be tedious and not cost effective.

The samples from the four wastesheds did not contain yard or garden waste. This could be the result of the samples being taken during a drought in the summer as opposed to during the fall when leaf litter is high. This percentage does not account for “backyard” disposal or composting by individuals. The “backyard” disposal and/or composting of yard and garden wastes are believed to be higher in rural areas than urban areas. Therefore, recovery of yard and garden wastes for large scale composting is most likely to benefit urban areas, while organizing public awareness for “backyard” composting is more suited for rural areas.

3.3.6 Glass

Glass categorized in the study was almost exclusively in the form of packaging containers for food and drinks. From EPA data, glass packaging containers make up the majority of glass recycled. Approximately 3.7, 4.5, 2.3, and 2.8 percent in Wastesheds B, C, F, and H, respectively, based on the total weight of the residential and commercial waste stream sampled was composed of recyclable glass.

3.3.7 Others

The percent by weight of disposable diapers in the waste stream was highest in Wasteshed C. The percent of diapers were 4.4, 7.9, 1.7, and 0.6 of the waste streams in Wastesheds B, C, F, and H, respectively. The recovery and recyclability of diapers is believed to be minimal for all wastesheds due to the combination of materials that are incorporated in diapers (plastic, rubber, textiles) as well as separation from MSW would be tedious and not cost effective.

The recyclability of the other categories delineated are considered minimal due to the small quantity of the materials sampled in the MSW stream during this study. Specific products may be recyclable on a regional basis, such as tires and wood, however determination of the generation of such products was outside the scope of this study.

4.0 Per Capita Generation

Generation of MSW by individuals (per capita generation rate) is an important parameter used by solid waste management planners for predicting waste generation and sizing of disposal and resource recovery facilities. However, per capita generation rates (PCG) are not appropriate for design of collection systems. Collection systems are more suited to be designed on a rate of pounds per household per week. During this study, numerous methods to evaluate MSW per capita generation were considered prior to actual analysis being completed. GAI determined that the method to evaluate per capita generation would need to be based on data similar to that of previous studies so that comparisons could be drawn between results. Also, the influence of population density would need to be accounted for in the analysis. After evaluation of possible methods, one evaluation method that accounted for all analysis criteria could not be determined. Therefore, MSW per capita generation was evaluated by two separate analysis methods.

4.1 Method 1

The per capita generation of MSW was determined by obtaining the total weight of MSW disposed in the wasteshed that had been generated in that wasteshed for a year and divided by the population of the wasteshed. This method allowed comparisons that assess the influence of population density to be evaluated by comparing the rates obtained for Wastesheds B, C, F and H. The total weight of MSW in a given wasteshed was obtained from the 2021 WV Solid Waste Management Board Landfill Tonnage Report. The weight of MSW disposed in the wasteshed was a total weight including all MSW (residential, commercial, industrial (excluding sludge), construction/demolition, institutional, agricultural, bulky goods, asbestos, petroleum contaminated soils, and tires) as reported by the landfills in West Virginia. The population of each wasteshed was determined from the 2020 Census. Per capita generation rates were determined for Wastesheds B, C, F and H for 2021. Similarly, the per capita generation rates for the state of West Virginia were calculated for the years 2021, 2022, and 2023. Calculations for determining PCG are presented in Appendix C.

The per capita generations determined per the method above are as follows:

Wasteshed	Per Capita Generation
B	2.86 pounds/person/day
C	4.37 pounds/person/day
F	3.43 pounds/person/day
H	3.34 pounds/person/day

WV PCG Year	Per Capita Generation
2021	5.68 pounds/person/day
2022	5.65 pounds/person/day
2023	5.68 pounds/person/day

4.2 Method 2

Another method to evaluate the per capita generation of MSW utilized the weight of MSW disposed in the wasteshed that was produced by residential and commercial sources in a given time period (365 days) and divided this weight by the number of people per residential and commercial customer serviced that contribute to the weight. In order to find the PCG of MSW for Wastesheds F and H, the following equation was generated:

$$\mathrm{PCG} = \frac{\mathrm{W}}{\mathrm{D[CRPR + CCPC]}}$$

Where:

PCG = Per capita generation of MSW (pounds per person per day)

W = Weight of residential and commercial MSW landfilled in the wasteshed (pounds)

D = Days per time period (days)

C_R = Total residential customers (units)

C_C = Total commercial customers (units)

P_R = People per residential customers (people per unit)

P_C = People per commercial customers (people per unit)

This equation was generated by knowing that the goal was to find the PCG of MSW in pounds per person per day. There are three main attributes to this equation: (1) the weight of the MSW landfilled (in residential and commercial units, W); (2) the number of people that produced the landfilled MSW (CRPR + CCPC); and (3) the time period in which this MSW was landfilled (d). The following methodology shows the techniques and sources used to estimate the variables to solve this equation. Per capita generation calculations are presented in Appendix C.

It was determined that for each landfill there were two main sources of MSW delivery: (1) private haulers and (2) municipal haulers. Private haulers are MSW hauling companies who provide waste collection and disposal to residential and/or commercial generators for a stated fee. Municipal haulers are MSW haulers who are managed and owned by the individual municipality that is providing the collection and disposal service. Generally, municipal haulers are only responsible for collection and disposal of residential and/or commercial MSW within their municipality. Per capita generation rates were estimated over the wasteshed to minimize the effect of haulers servicing an area (county or wasteshed) that is not the primary source for MSW tonnages reported at landfills included in the sampling program of this study.

The approximate number of customers serviced by the landfills was obtained through the 2020 Census. The approximate number of customers was determined by dividing the sum of population by the sum of housing units reported in the census by county.

Census data source lists by county: (1) the names of the haulers; (2) the number of units served (residential and commercial) by each hauler; and (3) the landfill(s) which each hauler delivers the collected MSW. The number of units served by private haulers, which have their MSW landfilled in the wastesheds were estimated from the PSC data.

By using another data list from the PSC entitled “County Municipalities Having Own Trash Service”, the municipalities which provide their own MSW collection and disposal service were determined. The list provided information about the number of residential and commercial units served by each municipality. A list of the municipalities, which provide MSW collection and disposal services in the wastesheds, was compiled.

After the total number of residential and commercial customers per private hauler and municipal hauler was determined, the next step was to find the number of people that CR and CC represented. The persons per customer were taken from the persons per household for the 2020 Census and calculated using the West Virginia Bureau of Employment Program 2020 Employment and Wages Report. Persons per residential customer (PR) were assumed to be equivalent to the average number of persons per household as reported by the 2020 Census for the state of West Virginia.

In the “West Virginia Employment and Wages Report" the number of employed people and the number of commercial units are listed per county. By dividing the number of commercial units into the total number of employed people, an average number of people per commercial unit per county was found. These numbers were then averaged over the counties encompassed in the wasteshed.

The next step was to find the total amount of waste generated by these individuals, W. “Monthly Tonnage Reports” were obtained from the West Virginia Department of Environmental Protection (WVDEP) for each landfill in Wastesheds B, C, F and H. Contained on these reports were the amounts of residential and commercial MSW, which each landfill received during the given month. Each report was broken down into “In-shed MSW" (MSW received from sources within the wasteshed) and “Out-of-Shed MSW” (MSW received from sources lying outside of the wasteshed). Only in-shed MSW was used in this per capita generation determination. From these reports the tonnage of MSW per landfill was determined, and then the total tonnage of “In-shed” MSW per wasteshed were totaled, hence W. Residential and commercial tonnages were taken from landfill tonnage sheets and were based on each individual landfill classification of the source of MSW generation. Variations in the classification of the type of MSW by landfill operators was minimized by taking residential and commercial sources as a total weight of MSW to reduce variations in waste classification reporting.

The following are the results of the calculations:

	WASTESHED B (Pounds Per Person Per Day)	WASTESHED C (Pounds Per Person Per Day)	WASTESHED F (Pounds Per Person Per Day)	WASTESHED H (Pounds Per Person Per Day)
2021	1.94	2.97	2.40	2.32

WV PCG Year	Per Capita Generation
2021	3.74 pounds/person/day
2022	3.73 pounds/person/day
2023	3.74 pounds/person/day

This method to evaluate the PCG rate does not account for industrial, construction/demolition, institutional, agricultural. bulky goods, asbestos, petroleum contaminated soils, sewage sludge, industrial sludge, and tire wastes. The PCG rates were based on residential and commercial tonnages only.

The PCG rates calculated do not account for tonnages of illegal waste service (e.g. neighbors combining waste and paying only for one service). Although, the MSW tonnage is accounted for the number of persons that contribute the tonnages are not included in the customer totals. Including these persons, even if it was possible to account for them, would only, in GAI's opinion, reduce the PCG rate by an insignificant amount. The PCG rates calculated do not account for tonnages of MSW disposed in the wasteshed at sites not regulated by the West Virginia Department of Environmental Protection (e.g. private citizens dumping waste behind their house). The persons who generate this waste were not included as customers since there was no method to estimate the number of persons. Likewise, the tonnage of waste they generate were not included in MSW weight. Private citizens that haul their own waste to landfills are not accounted for in the PCG rate presented. In GAI's opinion, the effect of such persons on the rate given the tonnage they contributed compared to commercial haulers is insignificant on the PCG rate. However, the tonnage of these persons is accounted for in the weight of residential and commercial MSW. Therefore, neglecting these customers has produced, an increase in the PCG rate. In GAI's opinion, this increase is insignificant to the calculated PCG rate.

4.3 Analyses

In an attempt to evaluate the validity of the per capita generation, rates calculated, the generation rates were multiplied by the population of its respective wasteshed per the 2020 Census. This provides an estimate of the quantity of MSW generated by residential and commercial sources based on the calculated generation rates.

The tonnages of residential and commercial waste disposed during 2021 in Wastesheds B, C, F and H were determined from WVDEP Monthly Tonnage Reports. In Wasteshed B, approximately 211,470.54 tons of waste including residential and commercial sources were disposed. In Wasteshed C, approximately 106410.47 tons of waste including residential and commercial sources were disposed. In Wasteshed F, approximately 46,173.24 tons of waste including residential and commercial sources were disposed. In Wasteshed H, approximately 299,860.98 tons of waste including residential and commercial sources were disposed.

The per capita generation rates determined using the two analysis methods were comparably similar. The highest and lowest PCG rates calculated were1.94 and 4.37 pounds per person per day, respectively. PCG rates for the rural areas (Wastesheds B and F) varied from 1.94 to 3.43 pounds per person per day. The urban areas (Wastesheds C and H) PCG rates varied from 2.32 to 4.37 per person per day.

In both methods of determining per capita generation, Wasteshed C's generation rate was the highest of all wastesheds included in this study. The factors that affect this observation could be localized disposal

habits or regulations since the per capita generation for Wasteshed C was highest for both analysis methods. This could indicate different disposal habits in rural areas compared to urban areas. However, this trend should be further developed prior to concluding the influencing factors of this observation.

The factors that affect the MSW generation and per capita generation are beyond the scope of this study. There are a vast quantity of methods and data available to estimate the per capita generation of MSW. Other studies could be undertaken that concentrates on per capita generation. These studies could include evaluating factors affecting MSW per capita generation for the years of 2021 to 2023 are similar and slightly larger than each of individual wasteshed from the study.

5.0 Comparison of 1997 Report

The 2024 composition of the waste categories were similar to the 1997 study except for plastic and paper. The percentage for paper and plastic are generally equivalent totaling approximately 50 percent of the waste stream. A large portion of these components were packing material from other products.

Figure 12 and Table 9 shows the waste stream characterization from 1997 between Wasteshed F (rural) and Wasteshed H (urban). Figures 13 through 21 and Tables 10 through 18 presents the individual landfill composition from the 1997 study. Figure 22 and Table 19 presents the rural versus urban distribution from 1997. Figure 23 and Table 20 presents a comparison of the 1997 study versus the 2024 study.

For rural areas, the percentage of paper decreased by approximately 8% and plastics content increased by approximately 13%. In addition, organics increased by approximately 2.5% and glass decreased by approximately 3%. All other categories were within 2% of the 1997 values.

For urban areas, the percentage of paper decreased by approximately 17% and plastics content increased by approximately 16%. In addition, organics and glass decreased by approximately 9% and 6%, respectfully. Textiles increased by approximately 10%. All other categories were within 2% of the 1997 values.

The per capita generation for 1997 was 3.1 pounds per person per day for a rural area and 4.0 pounds per person per day for urban areas. The 2024 calculations ranged in per capita generation of 2.4 to 2.9 pound per person per day for rural areas and 2.8 to 3.7 pounds per person per day for urban areas. The state per capita generation value for 2021 to 2023 was approximately 4.7 pounds per person per day. These calculated values for the wastesheds are similar to a slight increase over the 1997 values.

6.0 Conclusions

This report was to summarize the sampling procedures, present the sampling results, and present conclusions that could be drawn from the sampling program data and analysis. Based on data collected and analyzed during this MSW Characterization Study the following conclusions have been drawn based on GAI's interpretation of the data collected:

- The per capita generation in Wasteshed C is greater than the generation rates in Wastesheds B, F and H.
- The per capita generation rate in Wasteshed B is approximately 2.41 pounds per person per day.
- The per capita generation rate in Wasteshed C is approximately 3.67 pounds per person per day.
- The per capita generation rate in Wasteshed F is approximately 2.94 pounds per person per day.
- The per capita generation rate in Wasteshed H is approximately 2.83 pounds per person per day.

- The per capita generation for the State in 2023 is approximately 4.71 pounds per person per day.

As previously shown in the per capita generation section, Wasteshed C's PCG is slightly higher than Wastesheds B, F and H. Therefore, an increased weight of recyclables should be expected from Wasteshed C, assuming that the wastesheds generate proportionate quantities of materials for each person in the wasteshed.

- The average weight of a bag of MSW sampled is approximately 12 pounds.
- Paper, plastic, metals, and glass are considered the wastestream components most feasible to be recycled.
- Plastic and paper compose the largest percentage of the waste stream.
- Based on data from this study, the residential and commercial waste stream from the overall study was composed of the following percentages of each component sampled. The percentages are based on the total weight of each component sorted and the total weight of MSW sorted in the wasteshed during samplings. Percentages may not equal 100 percent due to sample loss and/or absorption of moisture during sampling

    Overall

        Plastics = 30.2 %
        Paper = 27.2%
        Organics = 12.5%
        Textiles = 10.7%
        Miscellaneous and Fines = 8.5%
        Metals = 6.9%
        Glass = 2.2%
        Construction Rubble = 0.9%
        Rubber = 0.8%
        Wood Products = 0.2%

    Wasteshed B

        Plastics = 27.5 %
        Paper = 25.1%
        Organics = 21.8%
        Miscellaneous and Fines = 12.7%
        Metals = 7.8%
        Glass = 3.7%
        Textiles = 1.3%
        Rubber = 0%
        Construction Rubble = 0%
        Wood Products = 0%
        Oversized Items = 0%

    Wasteshed C

        Paper = 28.5%
        Plastics = 24.6%
        Miscellaneous and Fines = 17.9%
        Textiles = 14.1%

Organics = 9.4%
Metals = 5.1%
Glass = 0.5%
Rubber = 0%
Construction Rubble = 0%
Wood Products = 0%
Oversized Items = 0%

Wasteshed F

Plastics = 29.9%
Paper = 26.5%
Organics = 17.0%
Textiles = 8.6%
Metals = 8.0%
Miscellaneous and Fines = 4.1%
Construction Rubble =3.0%
Glass = 2.3%
Wood Products = 0.6%
Rubber = 0%
Oversized Items = 0%

Wasteshed H

Plastics = 35.6%
Paper = 27.8%
Textiles = 14.0%
Organics = 7.0%
Metals = 6.7%
Miscellaneous and Fines= 3.8%
Glass = 2.8%
Rubber = 2.3%
Construction Rubble = 0%
Wood Products = 0%
Oversized Items = 0%

Urban Areas (Wastesheds C & H)

Plastics = 30.9%
Paper = 28.1%
Textiles = 12.7%
Miscellaneous and Fines= 9.7%
Organics = 7.9%
Metals = 6.0%
Glass = 1.8%
Rubber = 1.3%
Construction Rubble = 0%

Wood Products = 0%
Oversized Items = 0%

Rural Areas (Wastesheds B &F)
Plastics = 29.1%
Paper = 26.0%
Organics = 18.6%
Metals = 8.0%
Miscellaneous and Fines= 6.9%
Textiles = 6.2%
Glass = 3.4%
Construction Rubble = 2.0%
Wood Products = 0.4%
Rubber = 0%
Oversized Items = 0%

- Based on GAI's evaluation of the data, recovery of the Organics portion of the residential and commercial waste stream is minimal. Recovery of the organics portion is considered most feasible in areas with higher organics generation rates (industrial or institutional related activities) and source separation prior to disposal.

7.0 Limitations

The disadvantage of characterization studies based on a limited number of samples is that the data may be skewed and misleading, if based on sampling during atypical circumstances, for example, unusually wet or dry season, delivery of some unusual wastes, or errors in sampling methodology. Another disadvantage of sampling studies is they do not provide information about trends unless they are performed in a consistent manner over a long period of time. During this study, sampling methods may have created some bias of the samples since only a small portion of a truck was sampled and any loose waste (not in plastic waste bags), such as wood, boxes, etc., may have been omitted or not proportionately collected based on their concentration in the load of waste. Proportional collection requires field estimation of the quantity of the materials by an individual which is inherently biased due to the judgement of different individuals and/or inaccurate estimation of material concentration in the load.

The study conducted presents a point in time of the waste stream of the wastesheds. The conclusions presented are in reference to the data collected and interpretations of GAI's data analysis for this "snapshot" sampling during September 2024. Extrapolation of this data in waste management should be done under extreme care. Any waste management decisions based on this data should be reviewed periodically to evaluate that the waste stream characteristics have not changed. Waste management must be flexible to change as the waste stream characteristics change.

This report represents GAI's understanding of the factors and data as presented in this report. If factors change as additional data concerning the solid waste stream in West Virginia is obtained, we should be informed so that we may examine the data, and, if necessary, modify or revise the conclusions presented in this report.

8.0 References

Corbitt, Robert A. Standard Handbook of Environmental Engineering, McGraw-Hill, Inc. 1990 p.8.4 to 8.36

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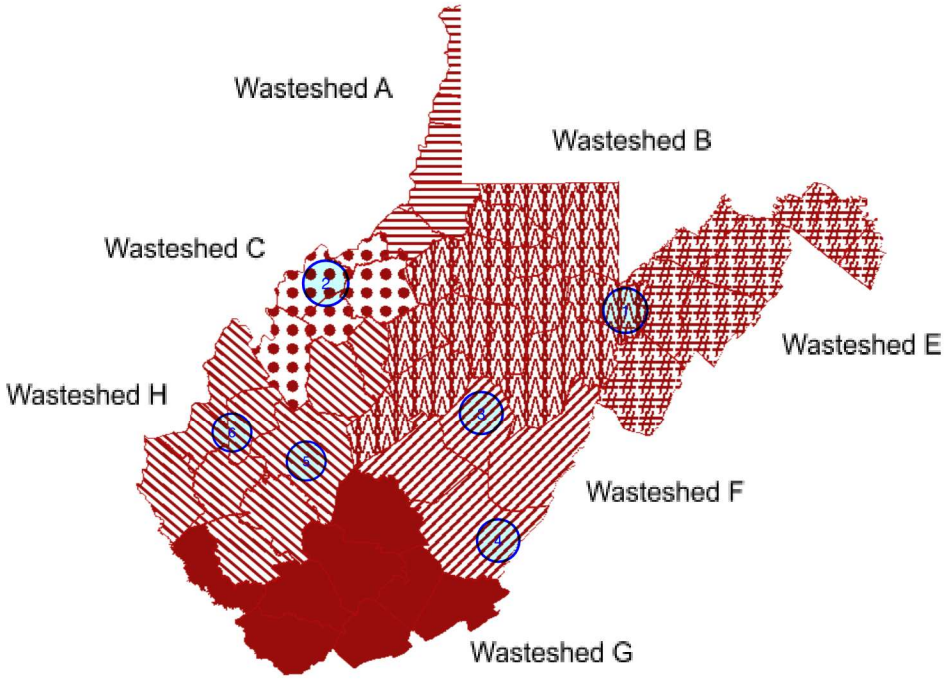
West Virginia Public Service Commission. County Municipalities Trash Customers Serviced,

West Virginia Public Service Commission. Hauler Information.

FIGURES

Map 3-1
West Virginia Wasteshed Map



Wasteshed A
- Brooke
- Hancock
- Marshall
- Ohio
- Tyler
- Wetzel

Wasteshed B
- Barbour
- Braxton
- Clay
- Doddridge
- Gilmer
- Harrison
- Lewis
- Marion
- Monongalia
- Preston
- Randolph
- Taylor
- Tucker
- Upshur

Wasteshed C
- Jackson
- Pleasants
- Ritchie
- Wirt
- Wood

Wasteshed E
- Berkeley
- Grant
- Hampshire
- Hardy
- Jefferson
- Mineral
- Morgan
- Pendleton

Wasteshed F
- Greenbrier
- Nicholas
- Pocahontas
- Webster

Wasteshed G
- Fayette
- McDowell
- Mercer
- Mingo
- Monroe
- Raleigh
- Summers
- Wyoming

Wasteshed H
- Boone
- Cabell
- Calhoun
- Kanawha
- Lincoln
- Logan
- Mason
- Putnam
- Roane
- Wayne

Figure 1

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME _____

PROJECT NUMBER _____

LANDFILL _____

INTERVIEWER _____ DATE AND TIME _____

REVIEWED BY _____ DATE AND TIME _____

SAMPLE NUMBER _____ WASTESHED _____

COMPANY _____

TYPE OF TRUCK _____

TRUCK CAPACITY _____

WASTE ORIGIN

County _____

Town _____

Other _____

TYPE OF WASTE

Single Family Residence _____

Multi-Family Residence _____

Commercial/Institutional _____

Is there a recycling program that exists in the area of the route? _____

If so, what materials are recycled? _____

ADDITIONAL INFORMATION

_____

_____

_____

_____

_____

_____

NOTES

_____

_____

_____

_____

_____

_____

Figure 2

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER _____ SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD		
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET		
HDPE		
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE		
STYROFOAM		
TOTAL PLASTICS		
TEXTILES		
GLASS		
METALS		
ALUMINUM CANS		
BI-METAL CANS		
FERROUS/TINNED CANS		
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

Figure 3

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER _____ SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX		
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

Figure 3

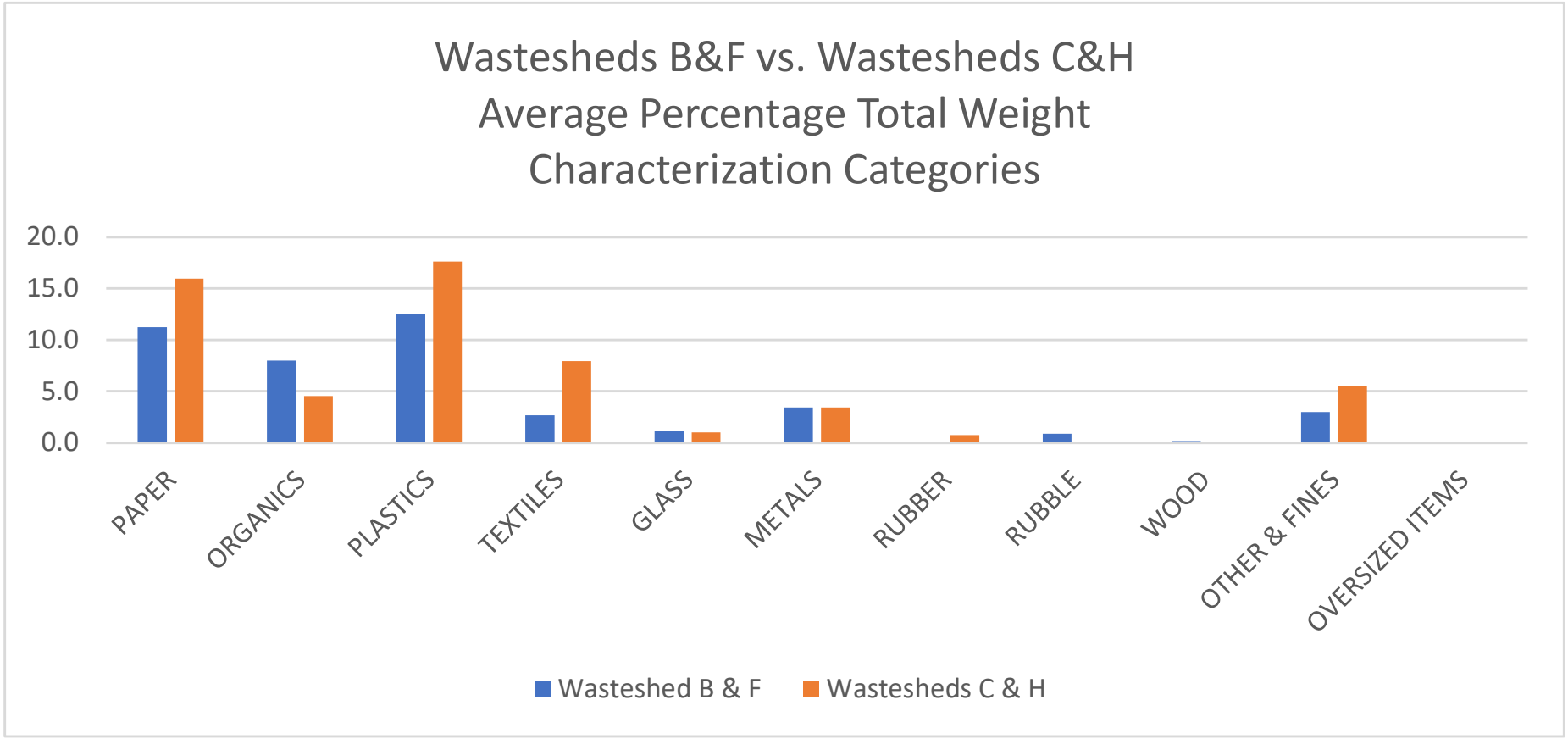

Wastesheds B&F vs. Wastesheds C&H
Average Percentage Total Weight
Characterization Categories
20.0
15.0
10.0
5.0
0.0
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED ITEMS
Wasteshed B & F
Wastesheds C & H

Figure 4

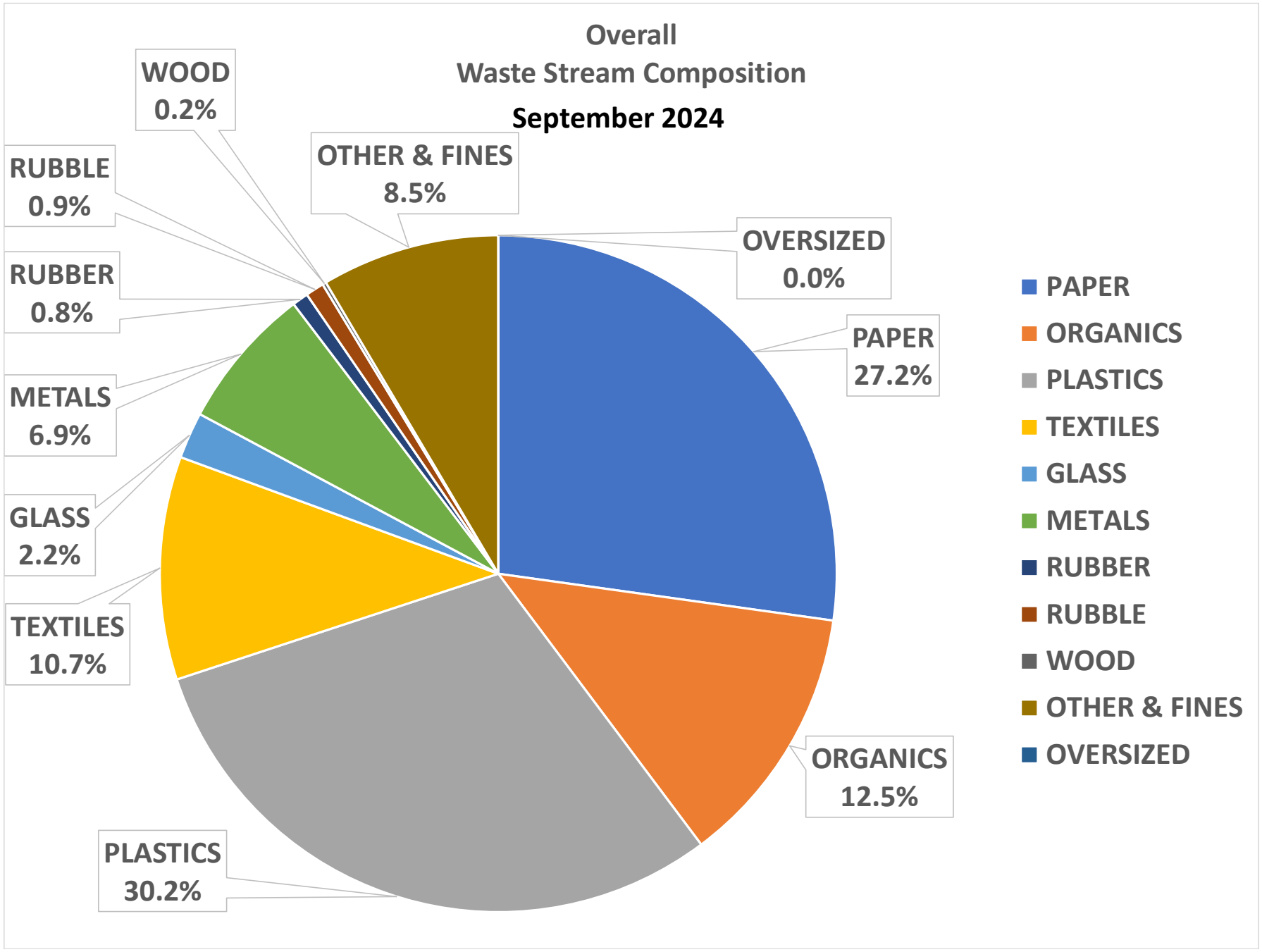

Overall
Waste Stream Composition
September 2024
WOOD
0.2%
OTHER & FINES
8.5%
RUBBLE
0.9%
OVERSIZED
0.0%
RUBBER
0.8%
PAPER
27.2%
METALS
6.9%
GLASS
2.2%
TEXTILES
10.7%
ORGANICS
12.5%
PLASTICS
30.2%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 5

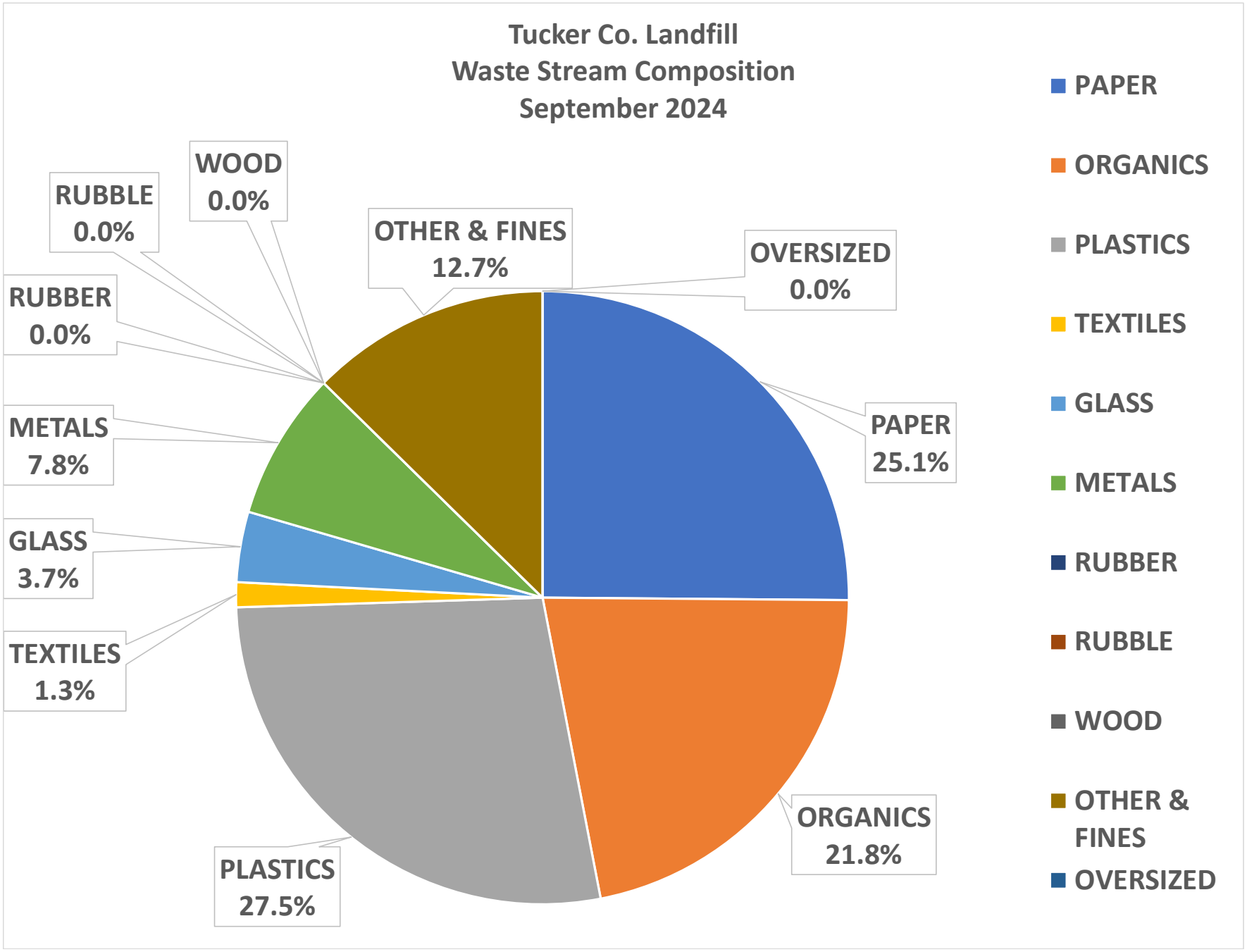

Tucker Co. Landfill
Waste Stream Composition
September 2024
PAPER
25.1%
ORGANICS
21.8%
PLASTICS
27.5%
TEXTILES
1.3%
GLASS
3.7%
METALS
7.8%
RUBBER
0.0%
RUBBLE
0.0%
WOOD
0.0%
OTHER & FINES
12.7%
OVERSIZED
0.0%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 6

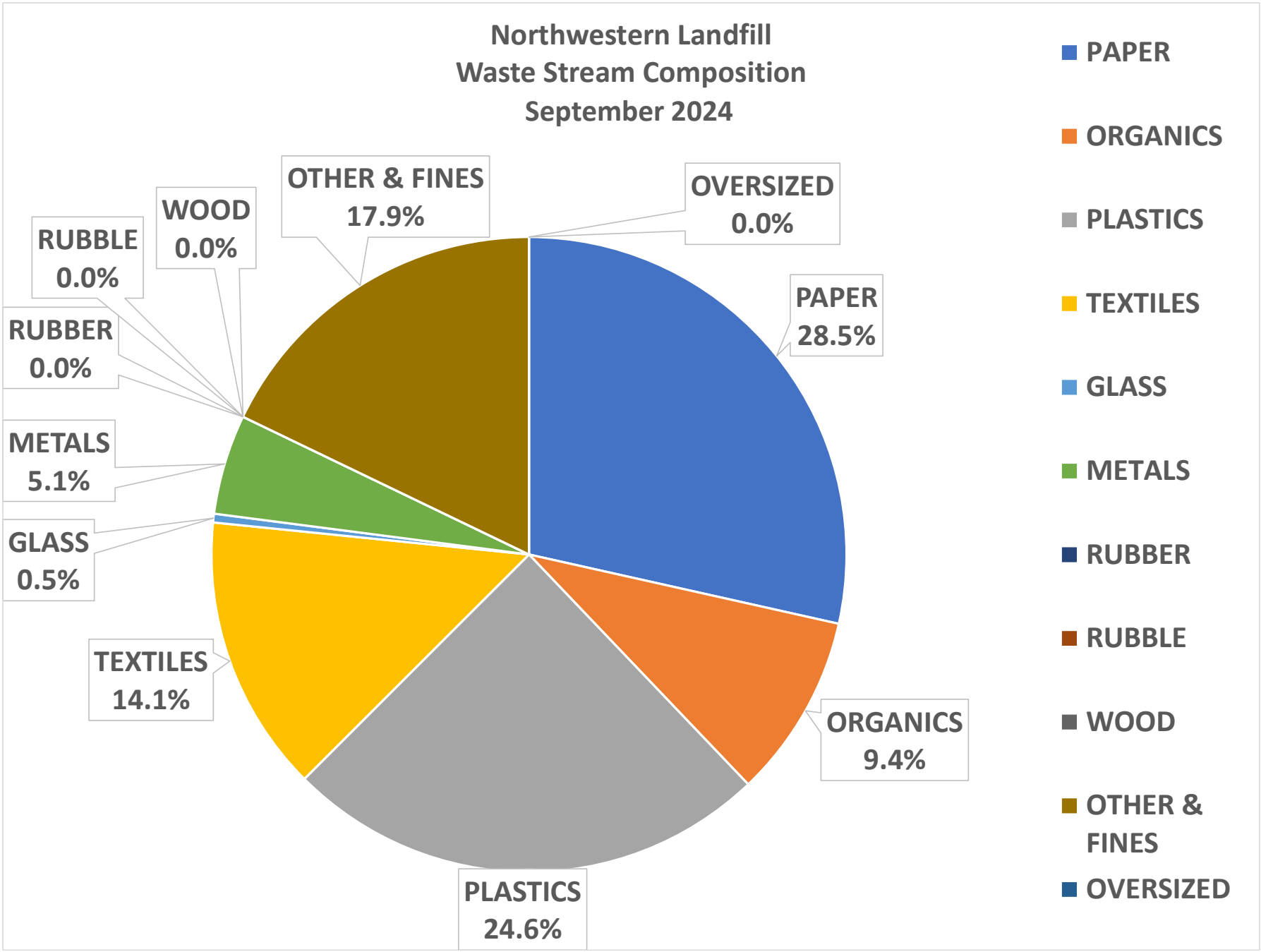

Northwestern Landfill
Waste Stream Composition
September 2024
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED
PAPER 28.5%
ORGANICS 9.4%
PLASTICS 24.6%
TEXTILES 14.1%
GLASS 0.5%
METALS 5.1%
RUBBER 0.0%
RUBBLE 0.0%
WOOD 0.0%
OTHER & FINES 17.9%
OVERSIZED 0.0%

Figure 7

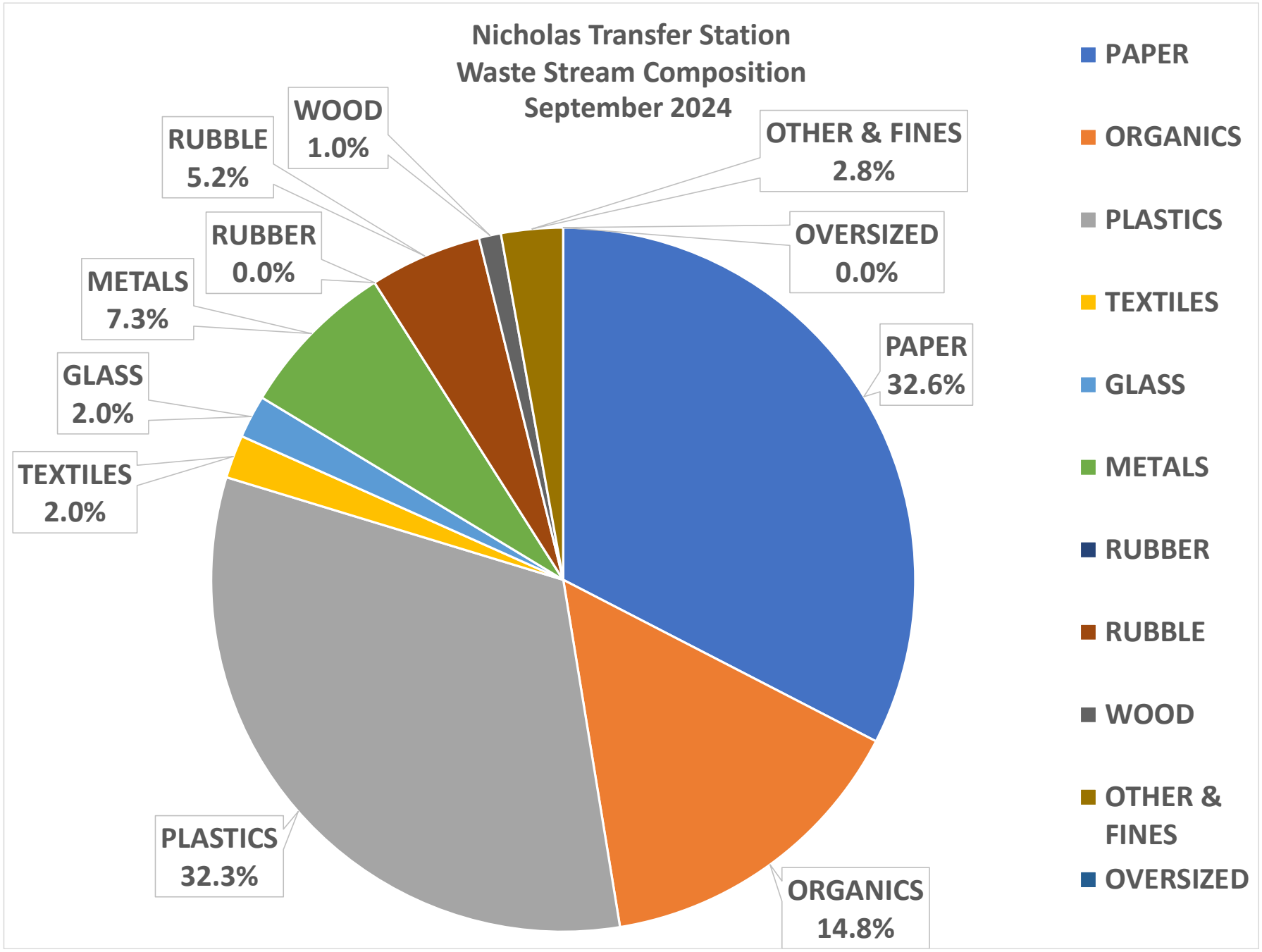

Nicholas Transfer Station
Waste Stream Composition
September 2024
PAPER
32.6%
ORGANICS
14.8%
PLASTICS
32.3%
TEXTILES
2.0%
GLASS
2.0%
METALS
7.3%
RUBBER
0.0%
RUBBLE
5.2%
WOOD
1.0%
OTHER & FINES
2.8%
OVERSIZED
0.0%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 8

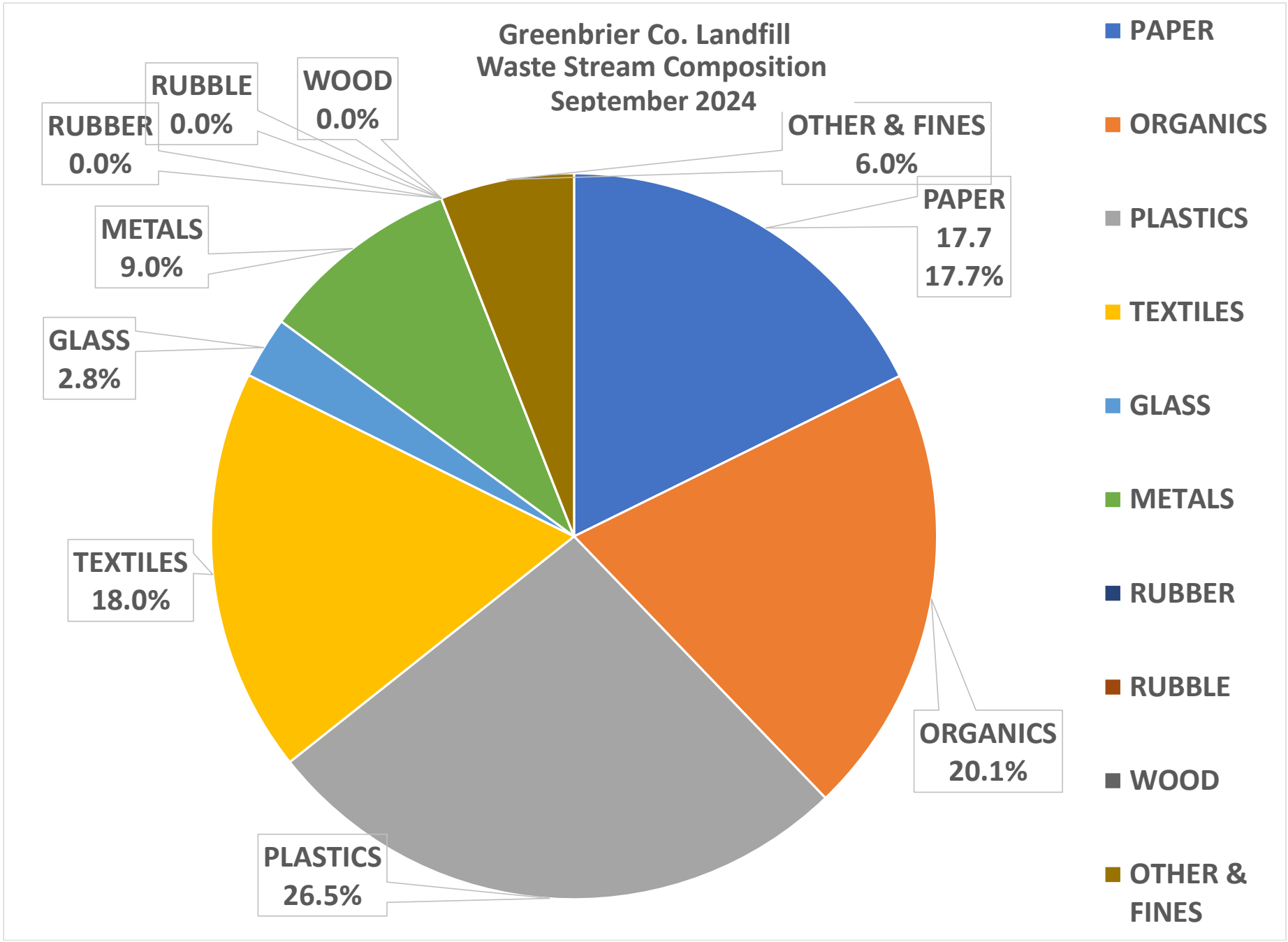

Greenbrier Co. Landfill
Waste Stream Composition
September 2024
RUBBLE 0.0%
WOOD 0.0%
RUBBER 0.0%
OTHER & FINES 6.0%
METALS 9.0%
PAPER 17.7 17.7%
GLASS 2.8%
TEXTILES 18.0%
ORGANICS 20.1%
PLASTICS 26.5%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES

Figure 9

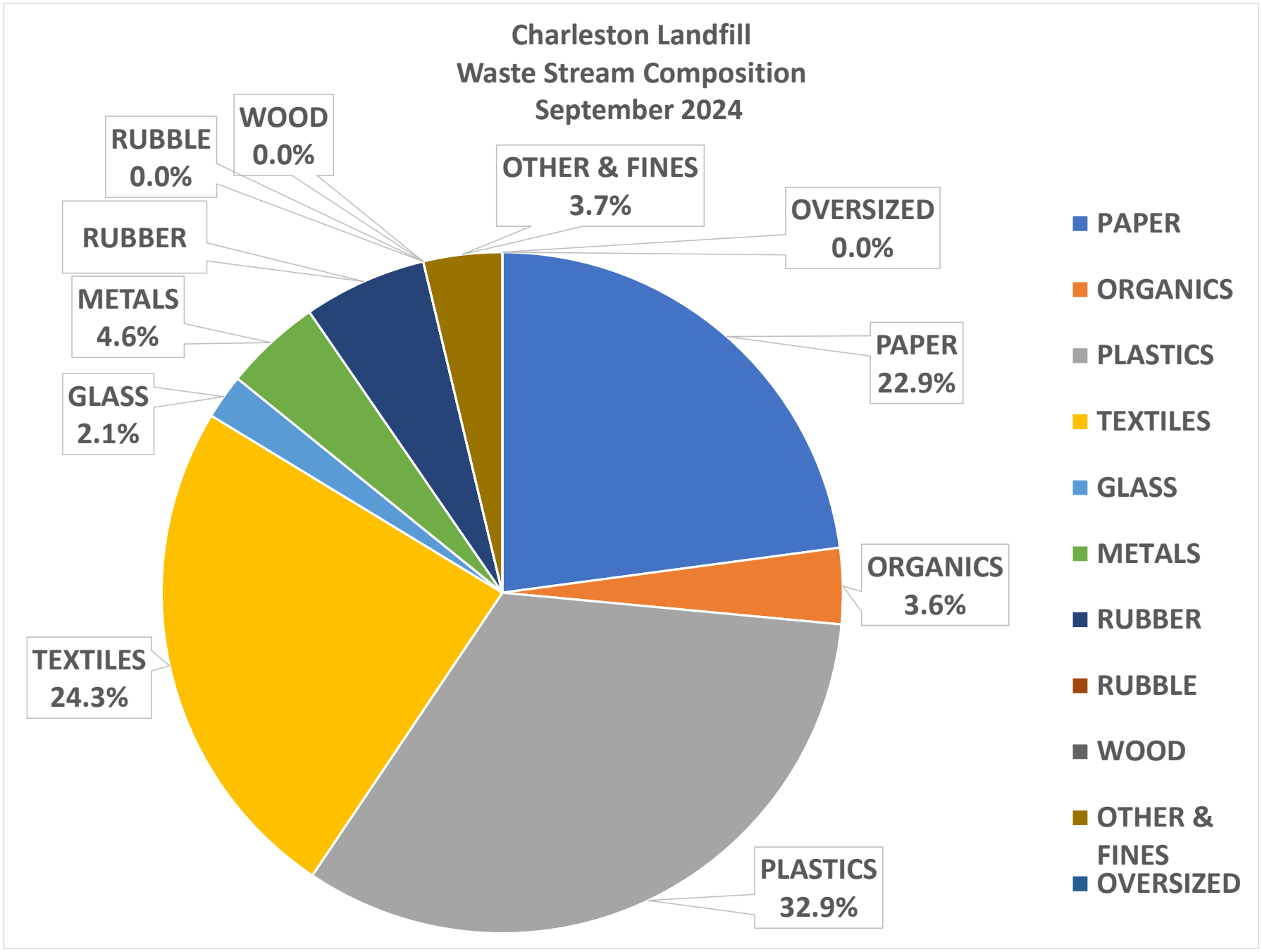

Charleston Landfill
Waste Stream Composition
September 2024
WOOD 0.0%
RUBBLE 0.0%
OTHER & FINES 3.7%
OVERSIZED 0.0%
RUBBER
METALS 4.6%
PAPER 22.9%
GLASS 2.1%
ORGANICS 3.6%
TEXTILES 24.3%
PLASTICS 32.9%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 10

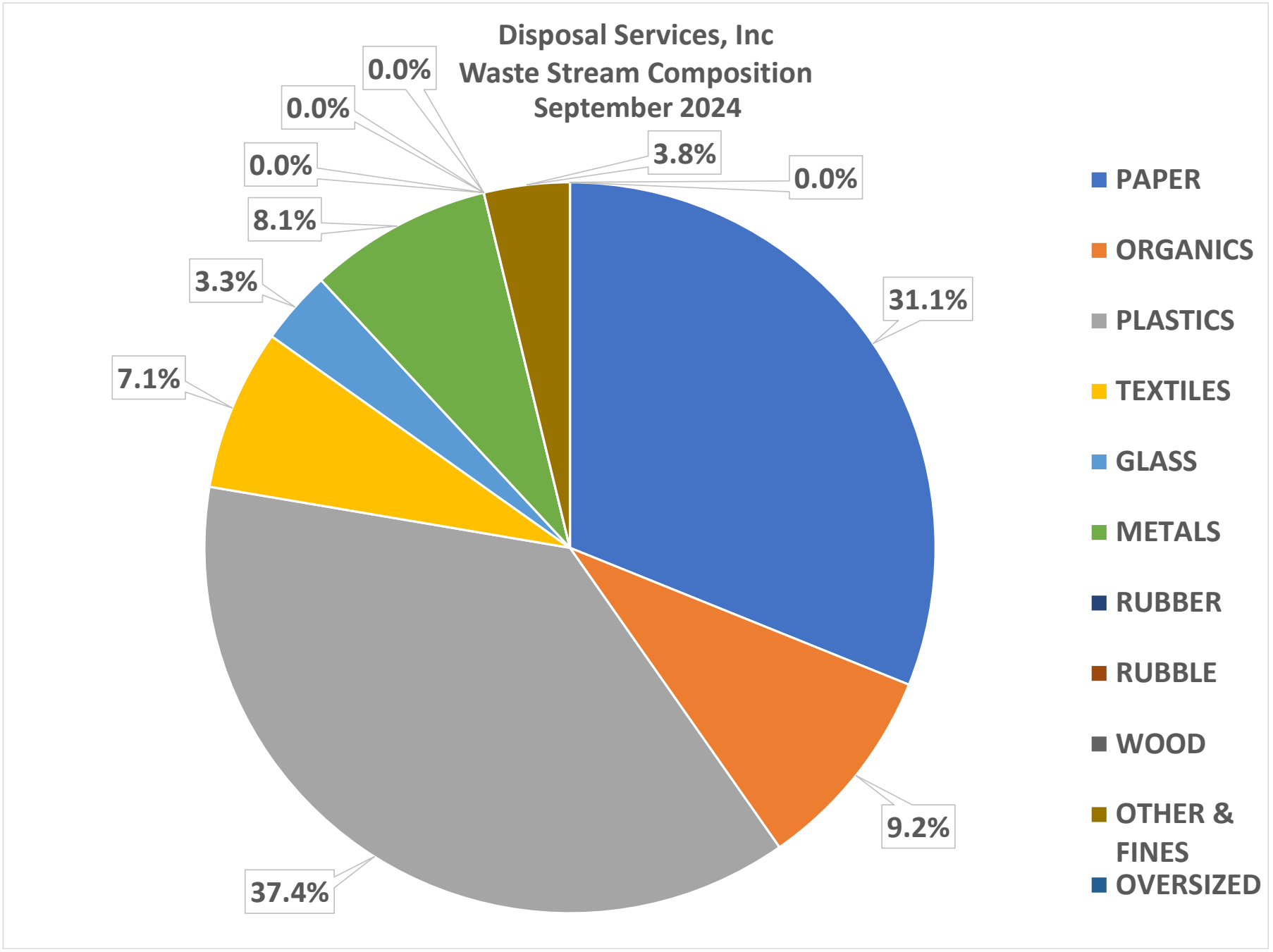

Disposal Services, Inc
Waste Stream Composition
September 2024
0.0%
0.0%
0.0%
3.8%
0.0%
8.1%
3.3%
31.1%
7.1%
9.2%
37.4%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 11

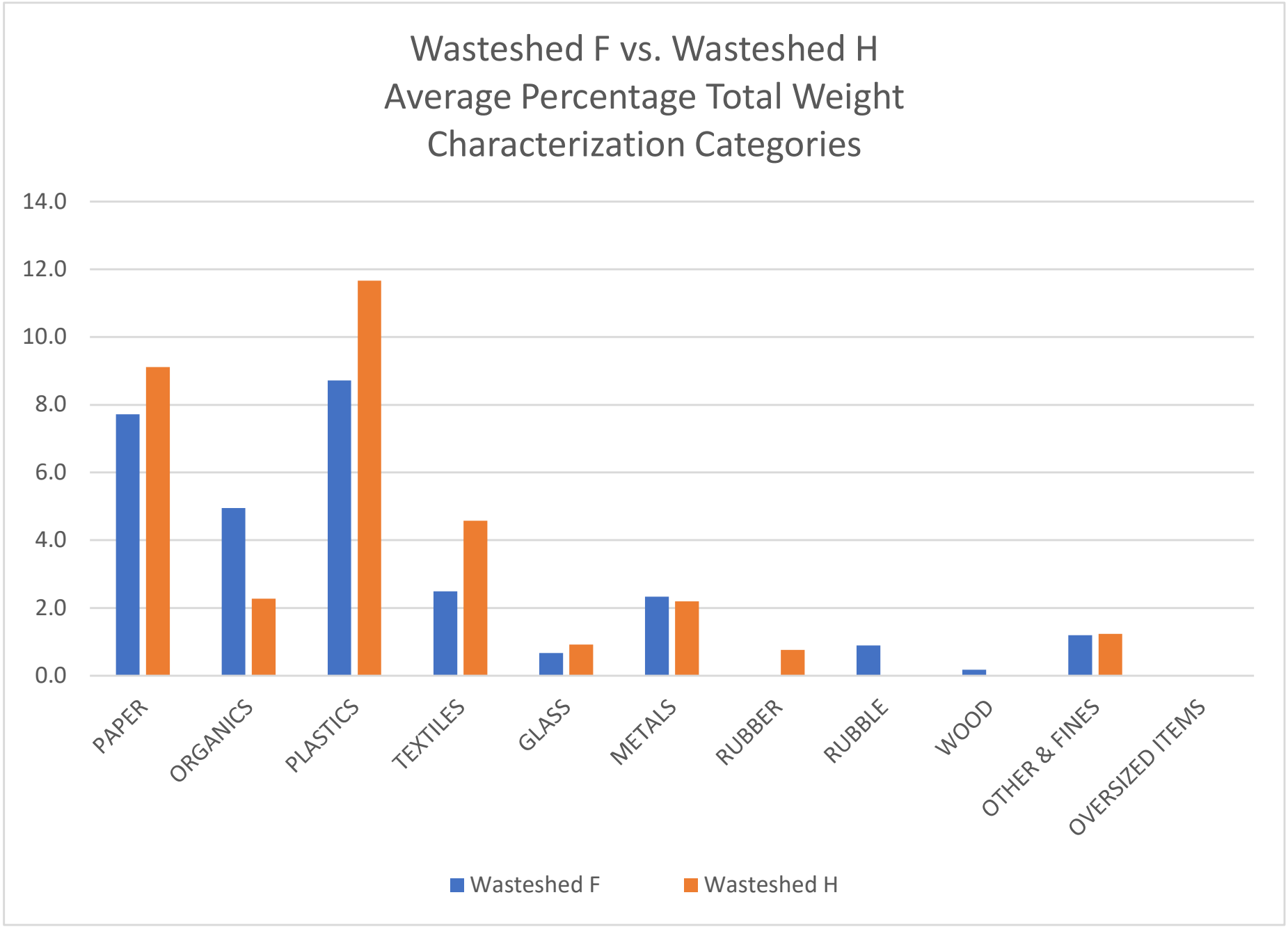

Wasteshed F vs. Wasteshed H
Average Percentage Total Weight
Characterization Categories
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED ITEMS
Wasteshed F
Wasteshed H

Figure 12

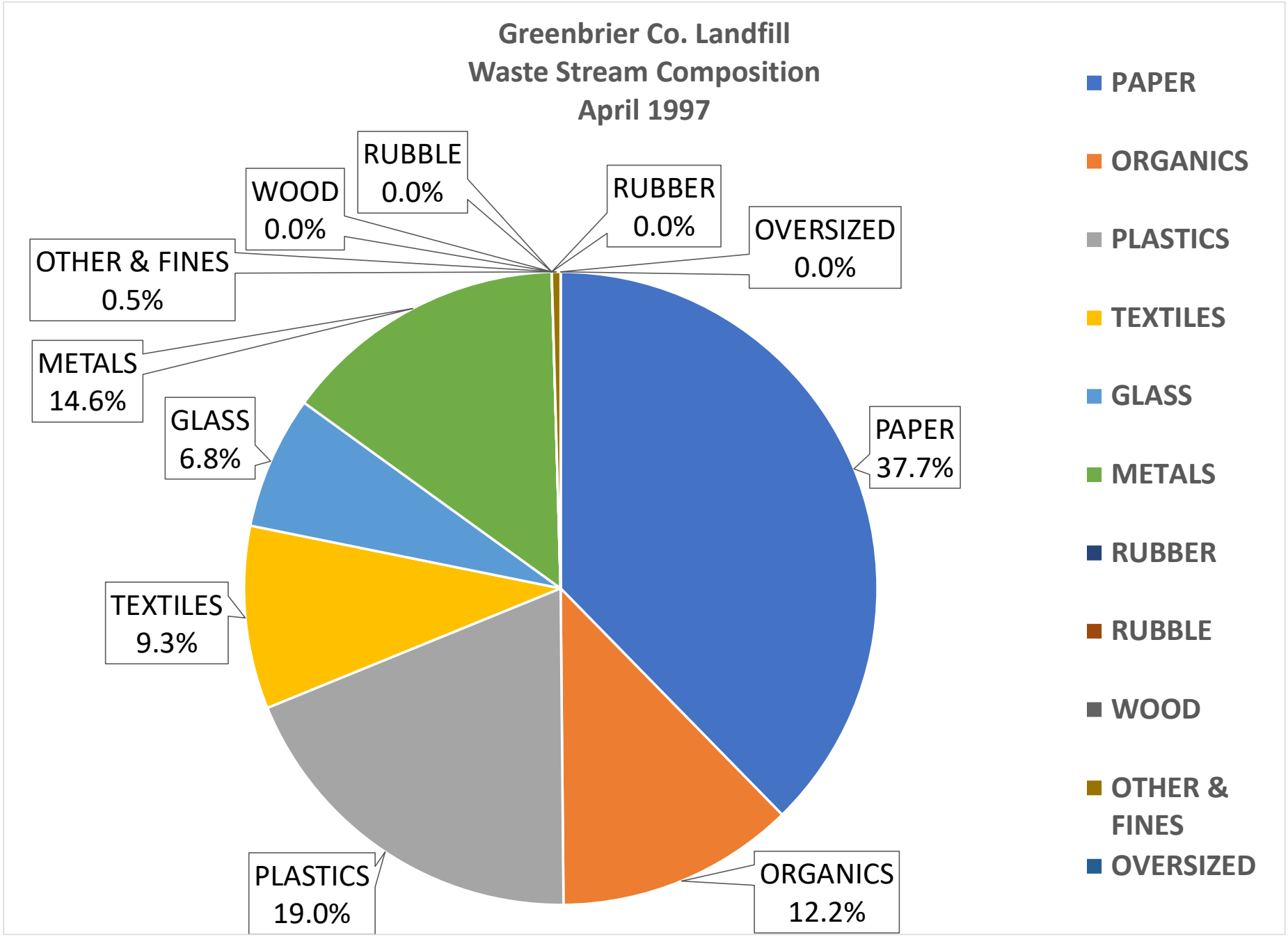

Greenbrier Co. Landfill
Waste Stream Composition
April 1997
RUBBLE 0.0%
WOOD 0.0%
RUBBER 0.0%
OVERSIZED 0.0%
OTHER & FINES 0.5%
METALS 14.6%
GLASS 6.8%
PAPER 37.7%
TEXTILES 9.3%
PLASTICS 19.0%
ORGANICS 12.2%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 13

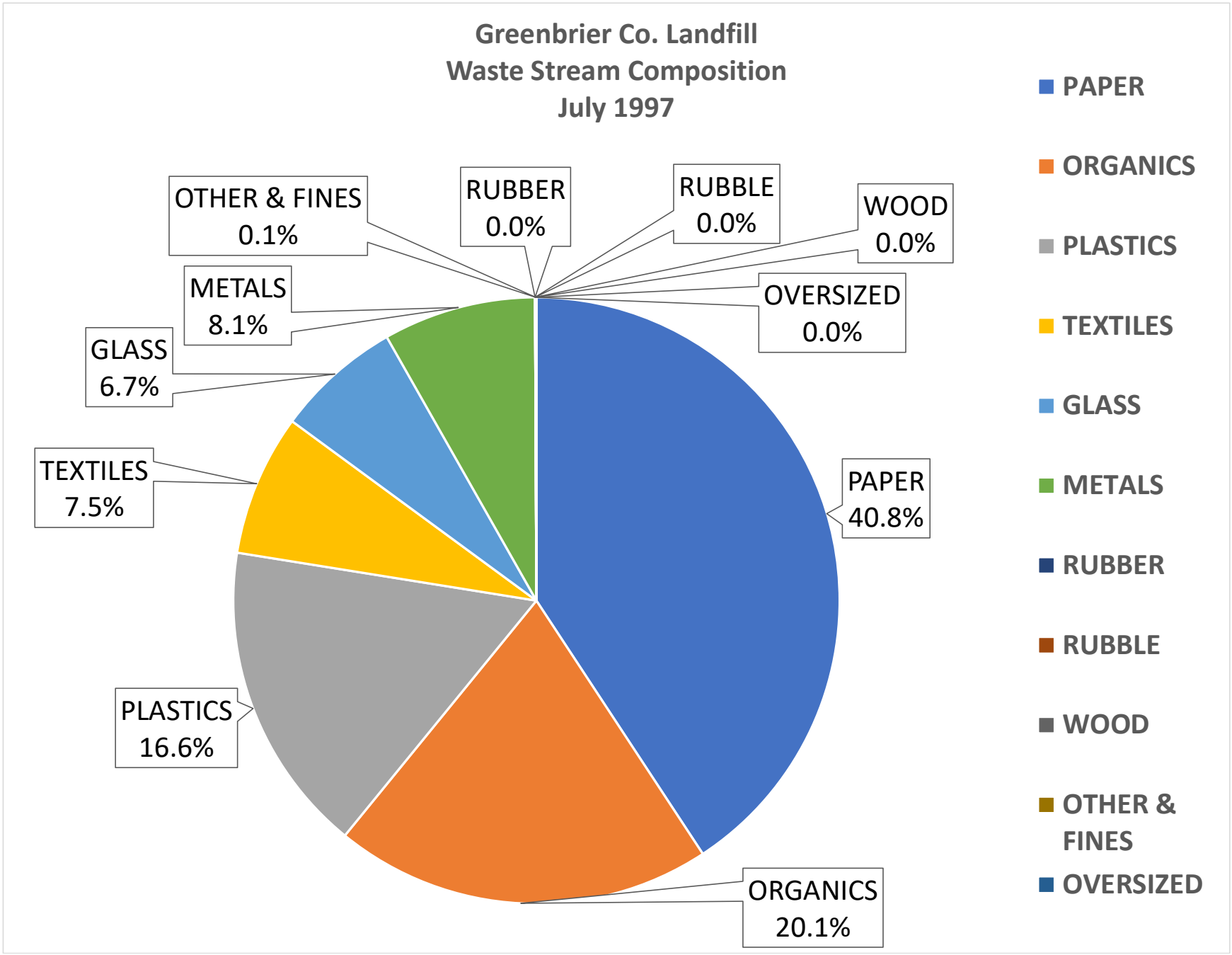

Greenbrier Co. Landfill
Waste Stream Composition
July 1997
PAPER
40.8%
ORGANICS
20.1%
PLASTICS
16.6%
TEXTILES
7.5%
GLASS
6.7%
METALS
8.1%
OTHER & FINES
0.1%
RUBBER
0.0%
RUBBLE
0.0%
WOOD
0.0%
OVERSIZED
0.0%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 14

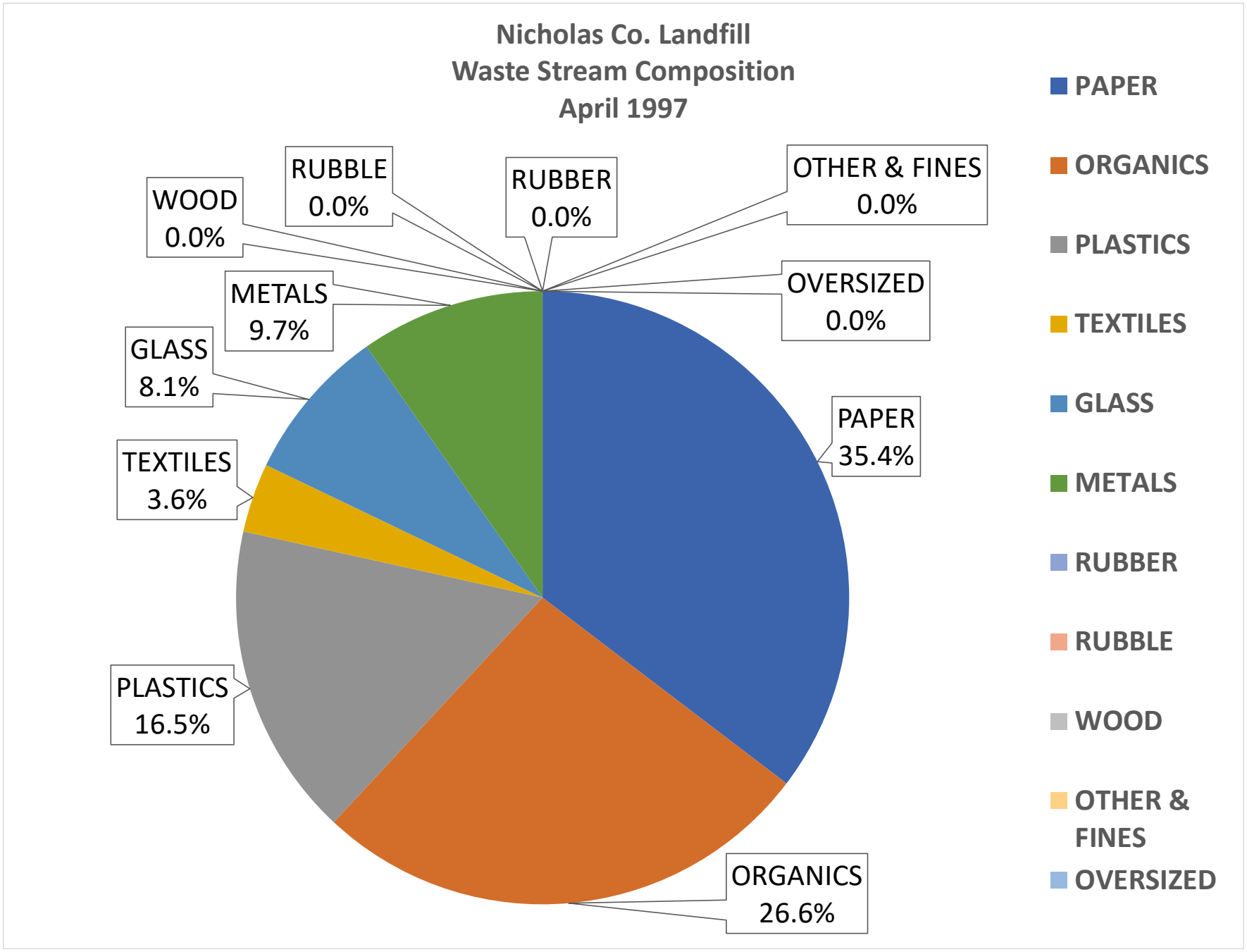

Nicholas Co. Landfill
Waste Stream Composition
April 1997
RUBBLE 0.0%
RUBBER 0.0%
OTHER & FINES 0.0%
WOOD 0.0%
METALS 9.7%
OVERSIZED 0.0%
GLASS 8.1%
PAPER 35.4%
TEXTILES 3.6%
PLASTICS 16.5%
ORGANICS 26.6%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 15

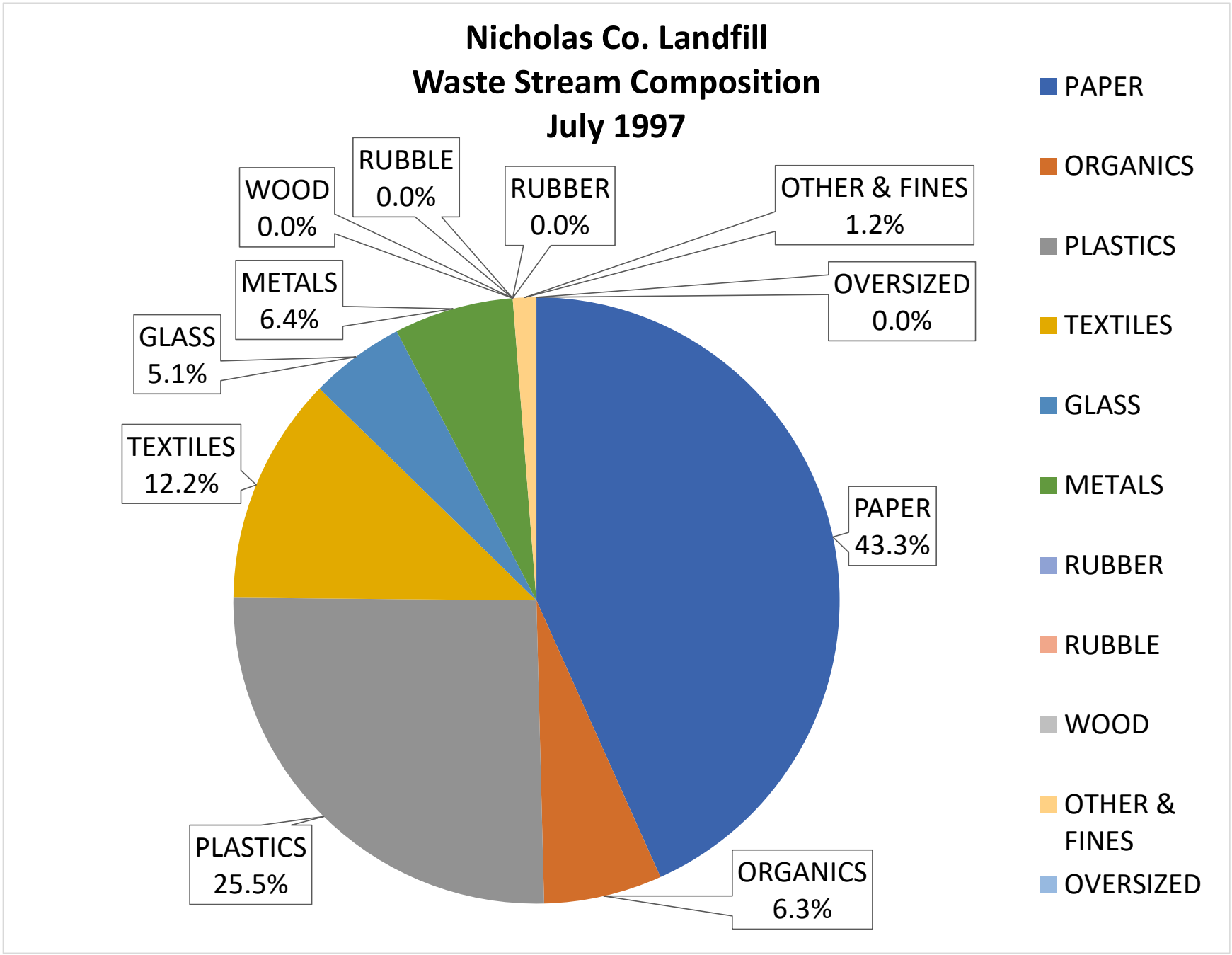

Nicholas Co. Landfill
Waste Stream Composition
July 1997
PAPER
43.3%
ORGANICS
6.3%
PLASTICS
25.5%
TEXTILES
12.2%
GLASS
5.1%
METALS
6.4%
WOOD
0.0%
RUBBLE
0.0%
RUBBER
0.0%
OTHER & FINES
1.2%
OVERSIZED
0.0%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 16

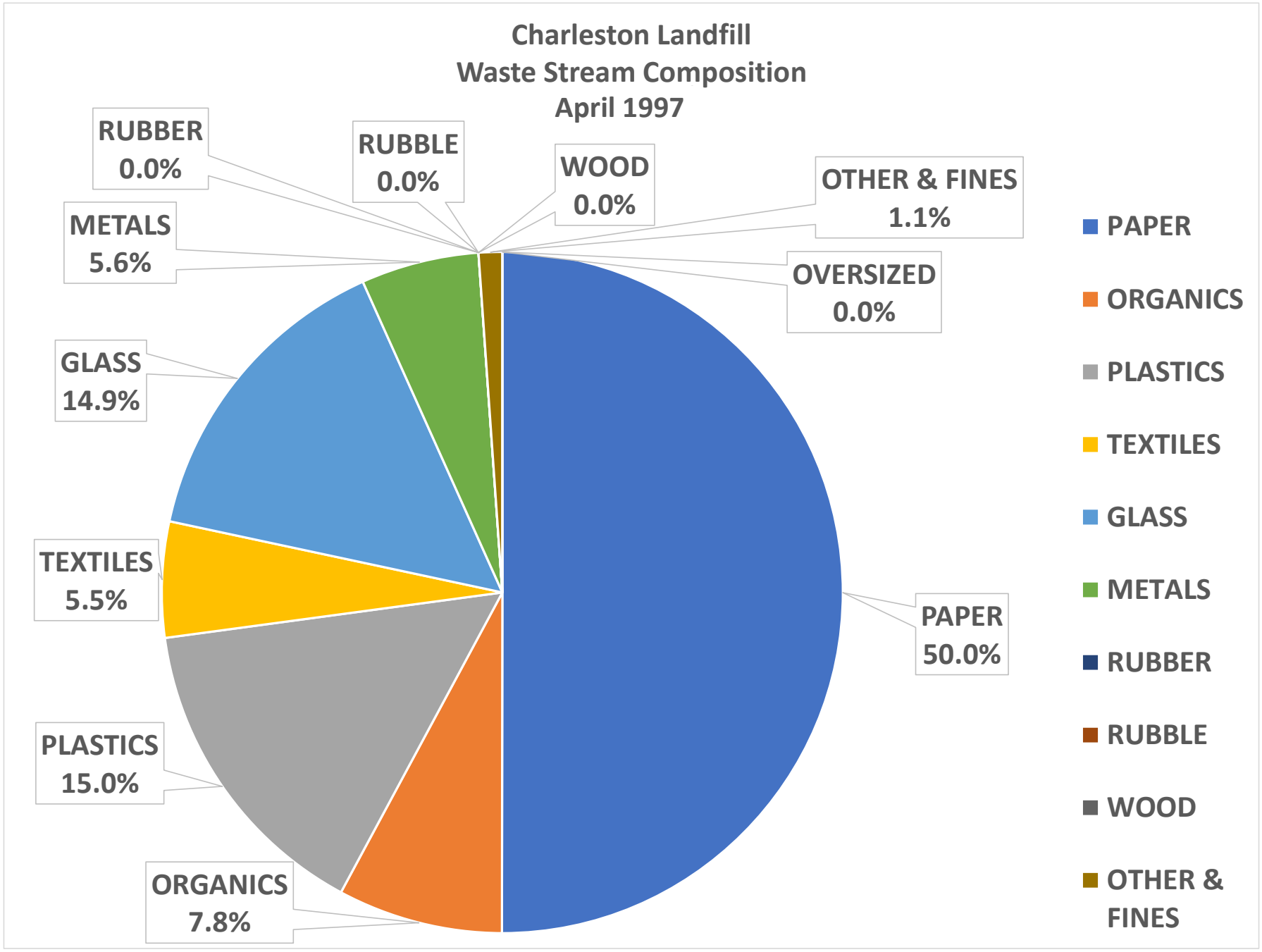

Charleston Landfill
Waste Stream Composition
April 1997
RUBBER 0.0%
RUBBLE 0.0%
WOOD 0.0%
OTHER & FINES 1.1%
METALS 5.6%
OVERSIZED 0.0%
GLASS 14.9%
TEXTILES 5.5%
PAPER 50.0%
PLASTICS 15.0%
ORGANICS 7.8%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES

Figure 17

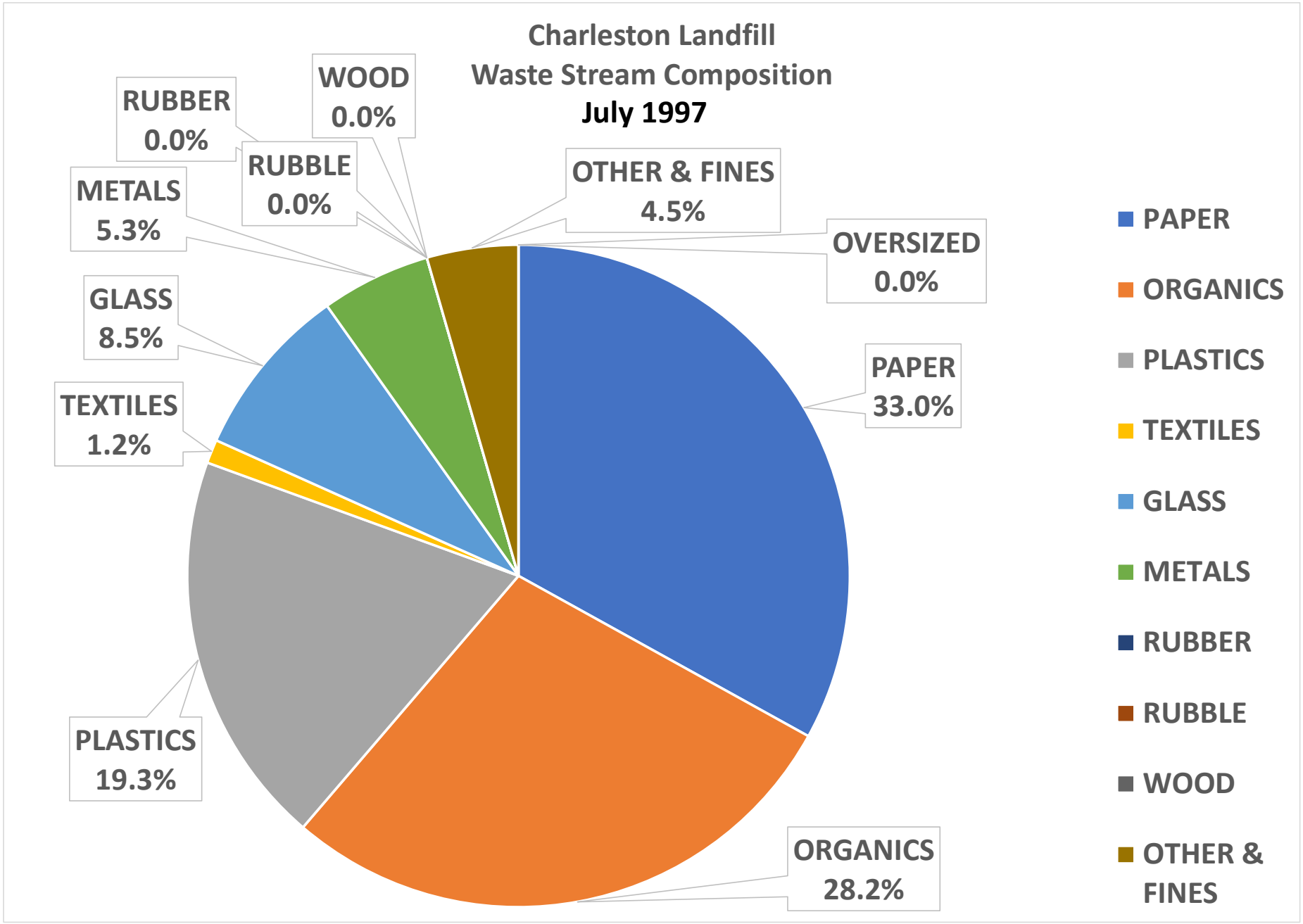

Charleston Landfill
Waste Stream Composition
July 1997
WOOD 0.0%
RUBBER 0.0%
RUBBLE 0.0%
METALS 5.3%
OTHER & FINES 4.5%
OVERSIZED 0.0%
GLASS 8.5%
PAPER 33.0%
TEXTILES 1.2%
PLASTICS 19.3%
ORGANICS 28.2%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES

Figure 18

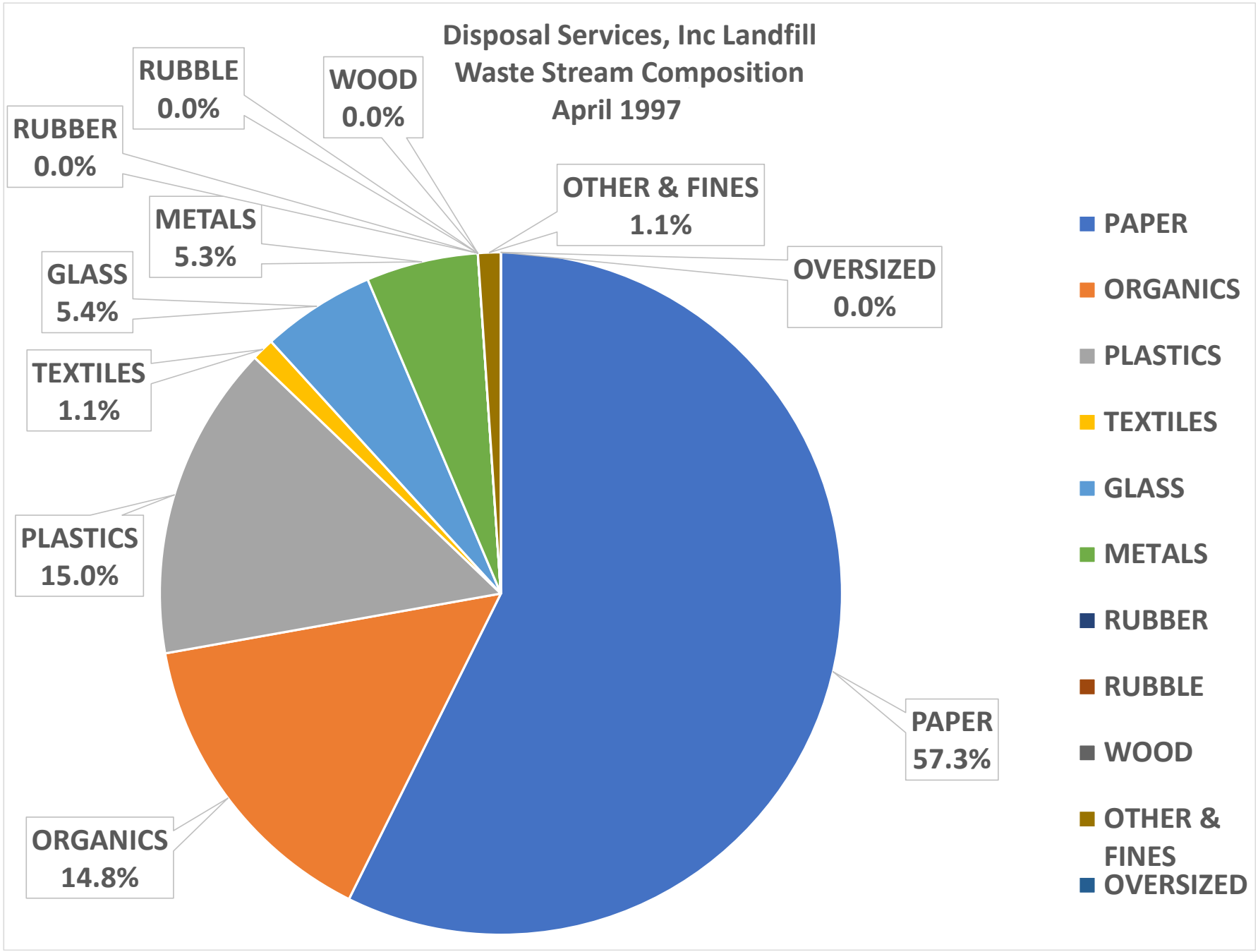

Disposal Services, Inc Landfill
Waste Stream Composition
April 1997
RUBBLE 0.0%
WOOD 0.0%
RUBBER 0.0%
OTHER & FINES 1.1%
METALS 5.3%
OVERSIZED 0.0%
GLASS 5.4%
TEXTILES 1.1%
PLASTICS 15.0%
PAPER 57.3%
ORGANICS 14.8%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 19

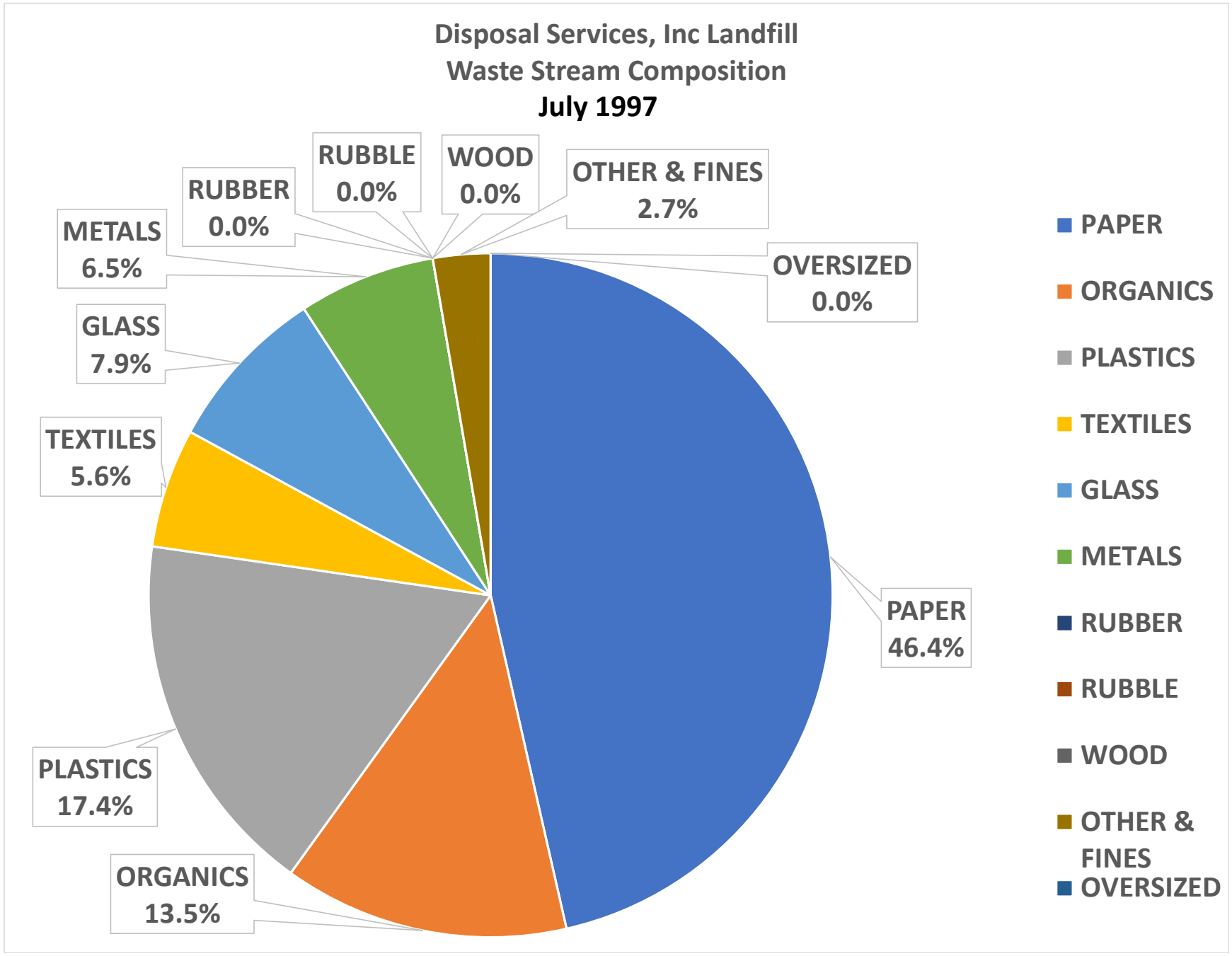

Disposal Services, Inc Landfill
Waste Stream Composition
July 1997
RUBBLE 0.0%
WOOD 0.0%
OTHER & FINES 2.7%
RUBBER 0.0%
METALS 6.5%
OVERSIZED 0.0%
GLASS 7.9%
TEXTILES 5.6%
PAPER 46.4%
PLASTICS 17.4%
ORGANICS 13.5%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 20

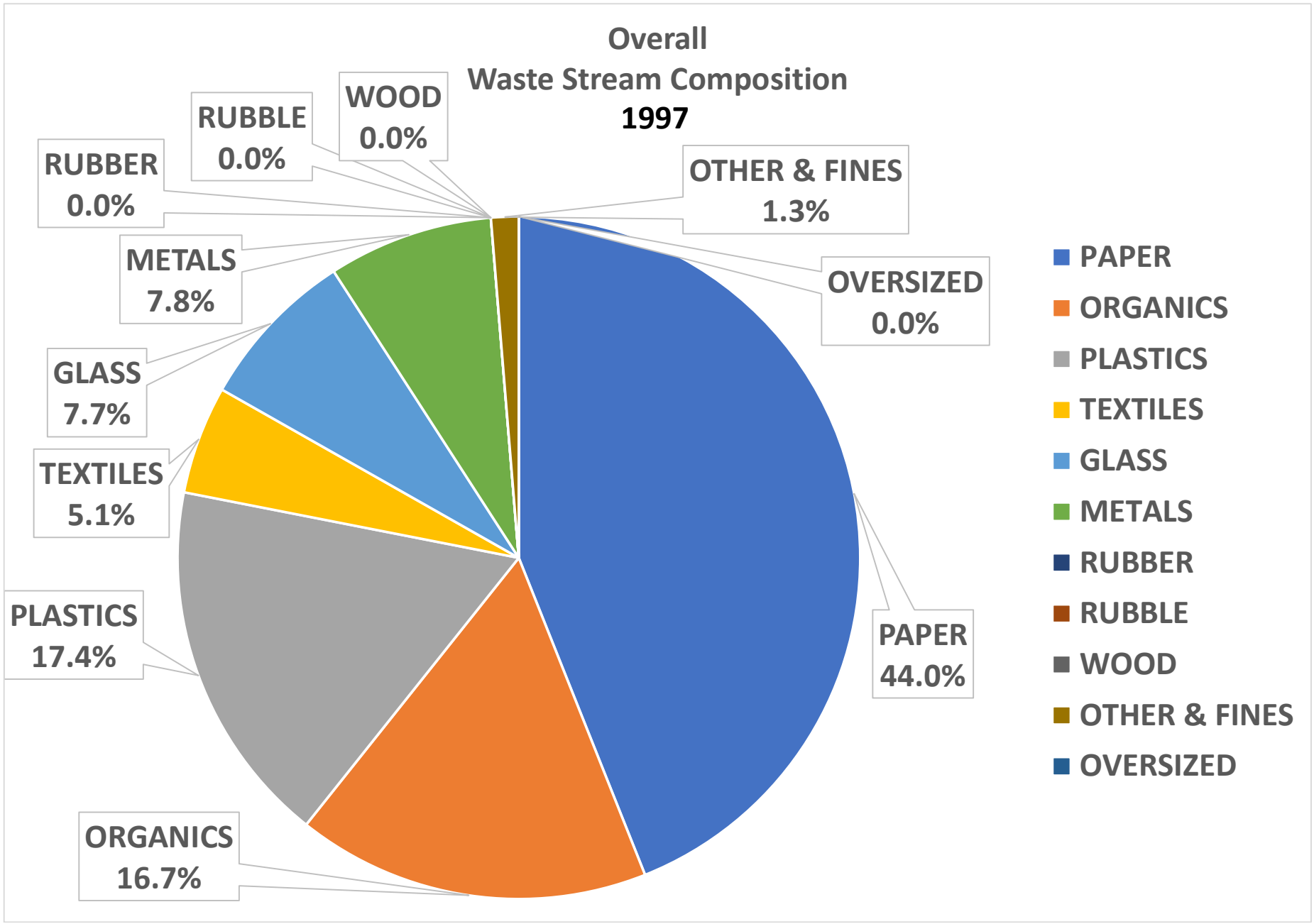

Overall
Waste Stream Composition
1997
WOOD
0.0%
RUBBLE
0.0%
RUBBER
0.0%
OTHER & FINES
1.3%
METALS
7.8%
OVERSIZED
0.0%
GLASS
7.7%
TEXTILES
5.1%
PLASTICS
17.4%
PAPER
44.0%
ORGANICS
16.7%
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED

Figure 21

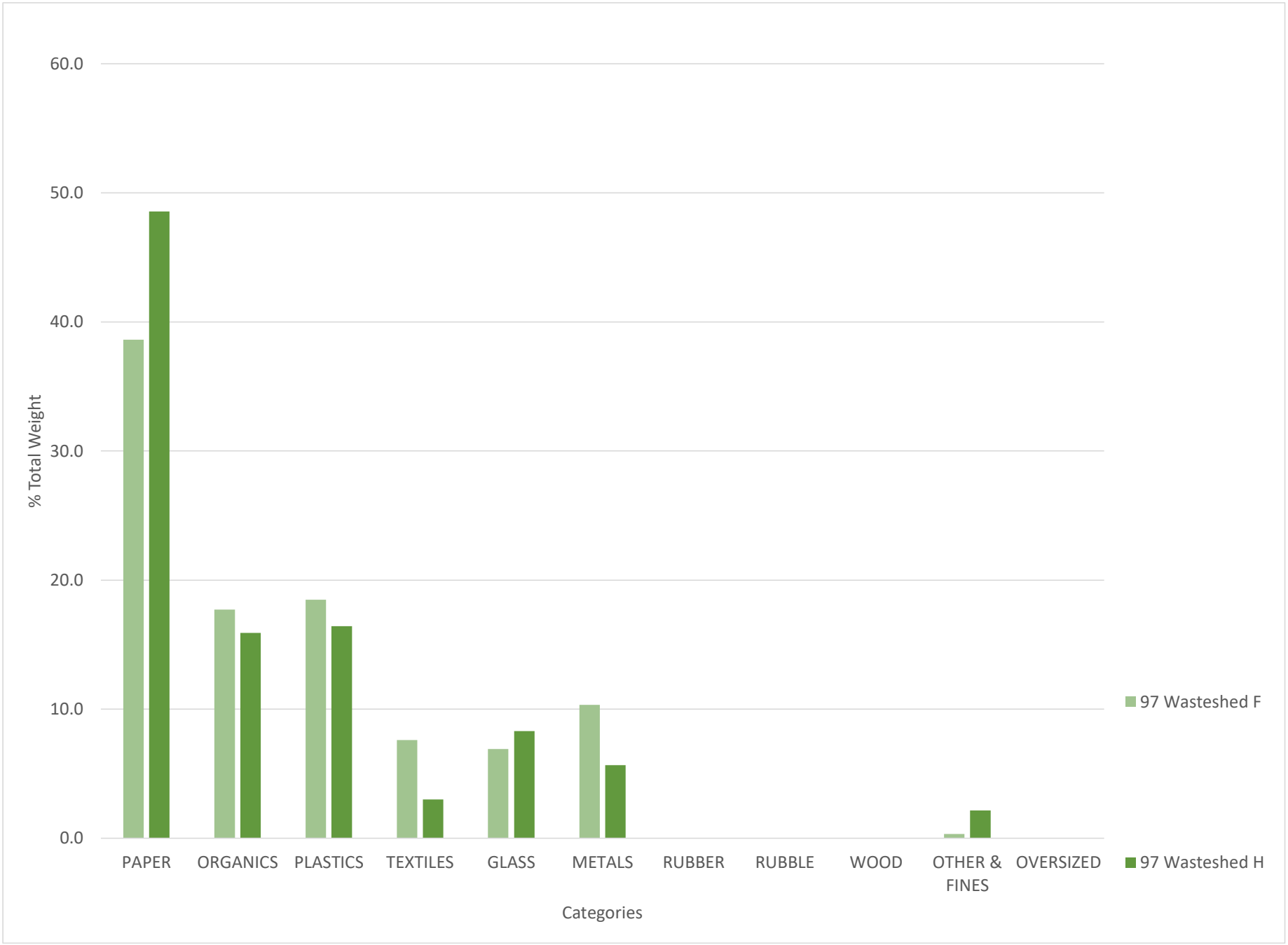

Wasteshed F vs H
1997 Study
60.0
50.0
40.0
30.0
20.0
10.0
0.0
% Total Weight
PAPER
ORGANICS
PLASTICS
TEXTILES
GLASS
METALS
RUBBER
RUBBLE
WOOD
OTHER & FINES
OVERSIZED
Categories
97 Wasteshed F
97 Wasteshed H

Figure 22

Waste Stream Characterization
1997 vs 2024

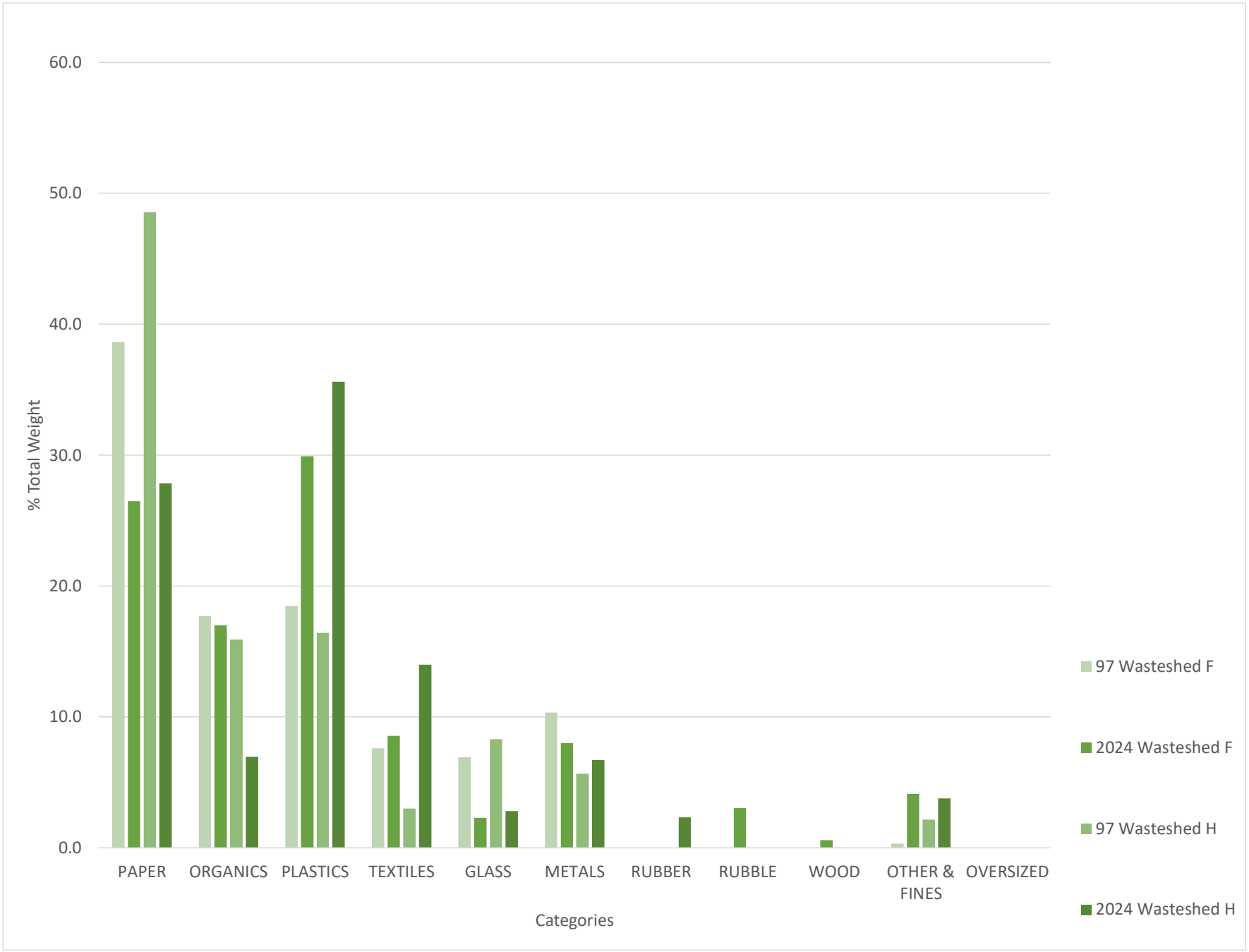


Figure 23

TABLES

TABLE 1

WASTE STREAM CHARACTERIZATION SAMPLING FORM

OVERALL SUMMARY

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT	RURAL				URBAN			
			Wasteshed B		Wasteshed F		Wasteshed C		Wasteshed H	
			TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER	5.9	0.5	1.2	0.7	1.6	0.5	0.0	0.0	3.1	0.8
MAGAZINE	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0
CORRUGATED	60.9	5.3	8.8	5.5	15.0	4.5	20.6	7.4	16.5	4.4
OTHER PAPERBOARDS	31.1	2.7	6.1	3.8	25.0	7.5	0.0	0.0	0.0	0.0
BOOKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OFFICE PAPER	123.3	10.7	0.0	0.0	11.0	3.3	58.4	21.1	53.9	14.3
OTHER	91.8	8.0	24.4	15.1	36.0	10.7	0.0	0.0	31.4	8.3
TOTAL PAPER	**313.2**	**27.2**	**40.5**	**25.1**	**88.8**	**26.5**	**79.0**	**28.5**	**104.9**	**27.8**
ORGANICS										
FOOD	144.4	12.5	35.2	21.8	57.0	17.0	26.0	9.4	26.2	7.0
YARD & GARDEN WASTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ORGANICS	**144.4**	**12.5**	**35.2**	**21.8**	**57.0**	**17.0**	**26.0**	**9.4**	**26.2**	**7.0**
PLASTICS										
PET	100.4	8.7	13.2	8.2	32.5	9.7	12.0	4.3	42.7	11.3
HDPE	57.3	5.0	3.0	1.9	18.7	5.6	12.8	4.6	22.8	6.0
COMMERCIAL PLASTICS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER-RIGID	25.2	2.2	3.9	2.4	6.7	2.0	8.7	3.1	5.9	1.6
OTHER-FLEXIBLE	151.9	13.2	23.2	14.4	37.0	11.0	33.2	12.0	58.5	15.5
STYROFOAM	12.4	1.1	1.1	0.7	5.4	1.6	1.6	0.6	4.3	1.1
TOTAL PLASTICS	**347.2**	**30.2**	**44.4**	**27.5**	**100.3**	**29.9**	**68.3**	**24.6**	**134.2**	**35.6**
TOTAL TEXTILES	**122.6**	**10.7**	**2.1**	**1.3**	**28.7**	**8.6**	**39.1**	**14.1**	**52.7**	**14.0**
TOTAL GLASS	**25.55**	**2.2**	**6.0**	**3.7**	**7.7**	**2.3**	**1.3**	**0.5**	**10.6**	**2.8**
METALS										
ALUMINUM CANS	37.8	3.3	6.2	3.8	8.8	2.6	8.2	3.0	14.6	3.9
BI-METAL CANS	1.2	0.1	0.0	0.0	1.2	0.4	0.0	0.0	0.0	0.0
FERROUS/TINNED CANS	32.3	2.8	6.4	4.0	9.3	2.8	5.9	2.1	10.7	2.8
OTHER FERROUS	2.0	0.2	0.0	0.0	2.0	0.6	0.0	0.0	0.0	0.0
OTHER-NON-FERROUS	5.6	0.5	0.0	0.0	5.6	1.7	0.0	0.0	0.0	0.0
TOTAL METALS	**78.85**	**6.9**	**12.6**	**7.8**	**26.9**	**8.0**	**14.1**	**5.1**	**25.3**	**6.7**
TOTAL RUBBER	**8.8**	**0.8**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**8.8**	**2.3**
CONSTRUCTION RUBBLE										
ASPHALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CONCRETE/BRICK/BLOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER	10.2	0.9	0.0	0.0	10.2	3.0	0.0	0.0	0.0	0.0
TOTAL RUBBLE	**10.2**	**0.9**	**0.0**	**0.0**	**10.2**	**3.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUMBER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER	2.0	0.2	0.0	0.0	2.0	0.6	0.0	0.0	0.0	0.0
TOTAL WOOD	**2.0**	**0.2**	**0.0**	**0.0**	**2.0**	**0.6**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL	10.6	0.9	0.0	0.0	0.0	0.0	10.6	3.8	0.0	0.0
FINES & SUPERMIX	50.4	4.4	13.3	8.3	8.1	2.4	16.9	6.1	12.1	3.2
DISPOSABLE DIAPERS	36.9	3.2	7.1	4.4	5.7	1.7	22.0	7.9	2.1	0.6
TOTAL OTHER & FINES	**97.9**	**8.5**	**20.4**	**12.7**	**13.8**	**4.1**	**49.5**	**17.9**	**14.2**	**3.8**
TOTAL OVERSIZED	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**1150.7**		**161.2**		**335.4**		**277.3**		**376.9**	
AVERAGE WEIGHT PER BAG			40.3		41.9		69.3		47.1	

TABLE 2

WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED B - TUCKER COUNTY (RURAL)

CATEGORIES	Sample 1		Sample 2		Sample 3		Sample 4		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER	0.1	0.3		0.0	1.1	2.4		0.0	1.2	0.7
MAGAZINE		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED	0.6	1.6	3.0	9.0		0.0	5.2	11.9	8.8	5.5
OTHER PAPERBOARDS		0.0		0.0	5.8	12.5	0.3	0.7	6.1	3.8
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0	6.0	17.9	11.8	25.4	6.6	15.1	24.4	15.1
TOTAL PAPER	**0.7**	**1.9**	**9.0**	**26.9**	**18.7**	**40.3**	**12.1**	**27.8**	**40.5**	**25.1**
ORGANICS										
FOOD	14.0	37.1	8.7	26.0	5.1	11.0	7.4	17.0	35.2	21.8
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**14.0**	**37.1**	**8.7**	**26.0**	**5.1**	**11.0**	**7.4**	**17.0**	**35.2**	**21.8**
PLASTICS										
PET	2.8	7.4	3.0	9.0	4.8	10.3	2.6	6.0	13.2	8.2
HDPE	1.0	2.7		0.0		0.0	2.0	4.6	3.0	1.9
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID	0.3	0.8	0.7	2.1	2.9	6.3		0.0	3.9	2.4
OTHER-FLEXIBLE	11.6	30.8	2.8	8.4	3.8	8.2	5.0	11.5	23.2	14.4
STYROFOAM	0.1	0.3	0.1	0.3	0.9	1.9		0.0	1.1	0.7
TOTAL PLASTICS	**15.8**	**41.9**	**6.6**	**19.7**	**12.4**	**26.7**	**9.6**	**22.0**	**44.4**	**27.5**
TOTAL TEXTILES	**1.0**	**2.7**	**0.3**	**0.9**	**0.0**	**0.0**	**0.8**	**1.8**	**2.1**	**1.3**
TOTAL GLASS	**0.0**	**0.0**	**3.0**	**9.0**	**0.0**	**0.0**	**3.0**	**6.9**	**6.0**	**3.7**
METALS										
ALUMINUM CANS	1.6	4.2	1.8	5.4	1.0	2.2	1.8	4.1	6.2	3.8
BI-METAL CANS		0.0		0.0		0.0		0.0	0.0	0.0
FERROUS/TINNED CANS	3.0	8.0	0.6	1.8	2.2	4.7	0.6	1.4	6.4	4.0
OTHER FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL METALS	**4.6**	**12.2**	**2.4**	**7.2**	**3.2**	**6.9**	**2.4**	**5.5**	**12.6**	**7.8**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0	3.5	10.4	1.5	3.2	8.3	19.0	13.3	8.3
DISPOSABLE DIAPERS	1.6	4.2		0.0	5.5	11.9		0.0	7.1	4.4
TOTAL OTHER & FINES	**1.6**	**4.2**	**3.5**	**10.4**	**7.0**	**15.1**	**8.3**	**19.0**	**20.4**	**12.7**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**37.7**		**33.5**		**46.4**		**43.6**		**161.2**	

TABLE 3
WASTE STREAM CHARACTERIZATION SAMPLING FORM
WASTESHED C - NORTHWESTERN (URBAN)

CATEGORIES	Sample 1		Sample 2		Sample 3		Sample 4		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER		0.0		0.0		0.0		0.0	0.0	0.0
MAGAZINE		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED	1.6	1.7	2.4	3.4	2.6	6.7	14.0	19.6	20.6	7.4
OTHER PAPERBOARDS		0.0		0.0		0.0		0.0	0.0	0.0
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER	27.2	28.5	13.4	18.7	7.4	19.1	10.4	14.6	58.4	21.1
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL PAPER	**28.8**	**30.2**	**15.8**	**22.1**	**10.0**	**25.8**	**24.4**	**34.2**	**79.0**	**28.5**
ORGANICS										
FOOD	7.5	7.9	11.1	15.5	6.5	16.8	0.9	1.3	26.0	9.4
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**7.5**	**7.9**	**11.1**	**15.5**	**6.5**	**16.8**	**0.9**	**1.3**	**26.0**	**9.4**
PLASTICS										
PET	4.6	4.8	2.2	3.1	2.8	7.2	2.4	3.4	12.0	4.3
HDPE	5.0	5.2	4.4	6.1	2.2	5.7	1.2	1.7	12.8	4.6
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID	5.3	5.6	0.5	0.7		0.0	2.9	4.1	8.7	3.1
OTHER-FLEXIBLE	8.4	8.8	12.4	17.3	9.6	24.7	2.8	3.9	33.2	12.0
STYROFOAM	0.6	0.6	0.3	0.4	0.7	1.8		0.0	1.6	0.6
TOTAL PLASTICS	**23.9**	**25.0**	**19.8**	**27.7**	**15.3**	**39.4**	**9.3**	**13.0**	**68.3**	**24.6**
TOTAL TEXTILES	**11.6**	**12.2**	**1.2**	**1.7**	**3.0**	**7.7**	**23.3**	**32.6**	**39.1**	**14.1**
TOTAL GLASS	**0.3**	**0.3**	**1.0**	**1.4**		**0.0**		**0.0**	**1.3**	**0.5**
METALS										
ALUMINUM CANS	2.6	2.7	2.0	2.8	1.8	4.6	1.8	2.5	8.2	3.0
BI-METAL CANS		0.0		0.0		0.0		0.0	0.0	0.0
FERROUS/TINNED CANS	3.3	3.5	1.5	2.1	1.1	2.8		0.0	5.9	2.1
OTHER FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL METALS	**5.9**	**6.2**	**3.5**	**4.9**	**2.9**	**7.5**	**1.8**	**2.5**	**14.1**	**5.1**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0	10.6	14.8		0.0		0.0	10.6	3.8
FINES & SUPERMIX	2.7	2.8	5.1	7.1	1.1	2.8	8.0	11.2	16.9	6.1
DISPOSABLE DIAPERS	14.8	15.5	3.5	4.9		0.0	3.7	5.2	22.0	7.9
TOTAL OTHER & FINES	**17.5**	**18.3**	**19.2**	**26.8**	**1.1**	**2.8**	**11.7**	**16.4**	**49.5**	**17.9**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**95.5**		**71.6**		**38.8**		**71.4**		**277.3**	

TABLE 4

WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED F - NICHOLAS TRANSFER STATION (RURAL)

CATEGORIES	Sample 1		Sample 2		Sample 3		Sample 4		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER	0.2	0.6		0.0		0.0		0.0	0.2	0.1
MAGAZINE		0.0	0.2	0.5		0.0		0.0	0.2	0.1
CORRUGATED	2.4	7.0		0.0	1.6	2.9	6.0	8.7	10.0	5.1
OTHER PAPERBOARDS	8.4	24.5	7.6	19.1	9.0	16.5		0.0	25.0	12.7
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0	7.0	17.6	4.0	7.4		0.0	11.0	5.6
OTHER		0.0		0.0		0.0	18.0	26.0	18.0	9.1
TOTAL PAPER	**11.0**	**32.1**	**14.8**	**37.3**	**14.6**	**26.8**	**24.0**	**34.7**	**64.4**	**32.6**
ORGANICS										
FOOD	3.1	9.0	9.7	24.4	5.5	10.1	11.0	15.9	29.3	14.8
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**3.1**	**9.0**	**9.7**	**24.4**	**5.5**	**10.1**	**11.0**	**15.9**	**29.3**	**14.8**
PLASTICS										
PET	4.3	12.5	3.9	9.8	5.9	10.8	7.6	11.0	21.7	11.0
HDPE	2.3	6.7	1.1	2.8	3.0	5.5	4.3	6.2	10.7	5.4
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID	1.3	3.8	1.3	3.3	1.1	2.0	3.0	4.3	6.7	3.4
OTHER-FLEXIBLE	5.8	16.9	4.1	10.3	4.4	8.1	6.3	9.1	20.6	10.4
STYROFOAM	1.3	3.8	1.3	3.3	1.2	2.2	0.3	0.4	4.1	2.1
TOTAL PLASTICS	**15.0**	**43.7**	**11.7**	**29.5**	**15.6**	**28.7**	**21.5**	**31.1**	**63.8**	**32.3**
TOTAL TEXTILES	**0.2**	**0.6**	**0.0**	**0.0**	**0.2**	**0.4**	**3.5**	**5.1**	**3.9**	**2.0**
TOTAL GLASS	**0.0**	**0.0**	**0.0**	**0.0**	**3.4**	**6.3**	**0.5**	**0.7**	**3.9**	**2.0**
METALS										
ALUMINUM CANS	1.0	2.9	1.0	2.5	2.3	4.2	1.0	1.4	5.3	2.7
BI-METAL CANS		0.0		0.0		0.0	1.2	1.7	1.2	0.6
FERROUS/TINNED CANS	2.0	5.8	1.0	2.5	2.3	4.2	0.5	0.7	5.8	2.9
OTHER FERROUS		0.0		0.0		0.0	1.0	1.4	1.0	0.5
OTHER-NON-FERROUS		0.0	0.2	0.5		0.0	1.0	1.4	1.2	0.6
TOTAL METALS	**3.0**	**8.7**	**2.2**	**5.5**	**4.6**	**8.5**	**4.7**	**6.8**	**14.5**	**7.3**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0	10.2	18.8		0.0	10.2	5.2
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**10.2**	**18.8**	**0.0**	**0.0**	**10.2**	**5.2**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER	1.0	2.9		0.0		0.0	1.0	1.4	2.0	1.0
TOTAL WOOD	**1.0**	**2.9**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.4**	**2.0**	**1.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX	1.0	2.9	1.3	3.3	0.3	0.6	1.5	2.2	4.1	2.1
DISPOSABLE DIAPERS		0.0		0.0		0.0	1.5	2.2	1.5	0.8
TOTAL OTHER & FINES	**1.0**	**2.9**	**1.3**	**3.3**	**0.3**	**0.6**	**3.0**	**4.3**	**5.6**	**2.8**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**34.3**		**39.7**		**54.4**		**69.2**		**197.6**	

TABLE 5

WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED F - GREENBRIER COUNTY (RURAL)

CATEGORIES	Sample 1		Sample 2		Sample 3		Sample 4		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER	1.4	4.4		0.0		0.0		0.0	1.4	1.0
MAGAZINE		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED		0.0		0.0		0.0	5.0	14.3	5.0	3.6
OTHER PAPERBOARDS		0.0		0.0		0.0		0.0	0.0	0.0
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER	6.2	19.6	1.8	5.7	6.8	17.1	3.2	9.2	18.0	13.1
TOTAL PAPER	**7.6**	**24.1**	**1.8**	**5.7**	**6.8**	**17.1**	**8.2**	**23.5**	**24.4**	**17.7**
ORGANICS										
FOOD	13.0	41.1	3.7	11.8	8.9	22.3	2.1	6.0	27.7	20.1
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**13.0**	**41.1**	**3.7**	**11.8**	**8.9**	**22.3**	**2.1**	**6.0**	**27.7**	**20.1**
PLASTICS										
PET	0.8	2.5	6.6	21.0	2.2	5.5	1.2	3.4	10.8	7.8
HDPE	2.0	6.3	3.2	10.2	2.8	7.0		0.0	8.0	5.8
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-FLEXIBLE	3.0	9.5	6.6	21.0	3.8	9.5	3.0	8.6	16.4	11.9
STYROFOAM	0.4	1.3	0.2	0.6	0.7	1.8		0.0	1.3	0.9
TOTAL PLASTICS	**6.2**	**19.6**	**16.6**	**52.9**	**9.5**	**23.8**	**4.2**	**12.0**	**36.5**	**26.5**
TOTAL TEXTILES	**1.4**	**4.4**	**2.6**	**8.3**	**3.8**	**9.5**	**17.0**	**48.7**	**24.8**	**18.0**
TOTAL GLASS	**0.4**	**1.3**	**0.0**	**0.0**	**1.0**	**2.5**	**2.4**	**6.9**	**3.8**	**2.8**
METALS										
ALUMINUM CANS	0.6	1.9	0.4	1.3	2.5	6.3		0.0	3.5	2.5
BI-METAL CANS		0.0		0.0		0.0		0.0	0.0	0.0
FERROUS/TINNED CANS	1.3	4.1	1.9	6.1	0.3	0.6		0.0	3.5	2.5
OTHER FERROUS		0.0		0.0	1.0	2.5		0.0	1.0	0.7
OTHER-NON-FERROUS		0.0	4.4	14.0		0.0		0.0	4.4	3.2
TOTAL METALS	**1.9**	**6.0**	**6.7**	**21.3**	**3.8**	**9.4**	**0.0**	**0.0**	**12.4**	**9.0**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX	1.1	3.5		0.0	1.9	4.8	1.0	2.9	4.0	2.9
DISPOSABLE DIAPERS		0.0		0.0	4.2	10.5		0.0	4.2	3.0
TOTAL OTHER & FINES	**1.1**	**3.5**	**0.0**	**0.0**	**6.1**	**15.3**	**1.0**	**2.9**	**8.2**	**6.0**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**31.6**		**31.4**		**39.9**		**34.9**		**137.8**	

TABLE 6

WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED H - CHARLESTON (URBAN)

CATEGORIES	Sample 1		Sample 2		Sample 3		Sample 4		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER		0.0		0.0		0.0		0.0	0.0	0.0
MAGAZINE		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED	0.4	1.0	2.6	9.5		0.0		0.0	3.0	2.0
OTHER PAPERBOARDS		0.0		0.0		0.0		0.0	0.0	0.0
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER	8.8	22.6	3.2	11.7	9.2	20.4	10.2	26.2	31.4	20.9
TOTAL PAPER	**9.2**	**23.7**	**5.8**	**21.2**	**9.2**	**20.4**	**10.2**	**26.2**	**34.4**	**22.9**
ORGANICS										
FOOD	0.9	2.3	0.5	1.8	3.3	7.3	0.7	1.8	5.4	3.6
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**0.9**	**2.3**	**0.5**	**1.8**	**3.3**	**7.3**	**0.7**	**1.8**	**5.4**	**3.6**
PLASTICS										
PET	1.0	2.6	3.0	11.0	2.6	5.8	17.2	44.1	23.8	15.8
HDPE	1.8	4.6	1.8	6.6	1.2	2.7	0.8	2.1	5.6	3.7
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-FLEXIBLE	3.4	8.7	5.4	19.8	5.8	12.9	3.8	9.7	18.4	12.2
STYROFOAM	1.1	2.8	0.3	1.1		0.0	0.3	0.8	1.7	1.1
TOTAL PLASTICS	**7.3**	**18.8**	**10.5**	**38.5**	**9.6**	**21.3**	**22.1**	**56.7**	**49.5**	**32.9**
TOTAL TEXTILES	**15.0**	**38.6**	**1.0**	**3.7**	**19.6**	**43.5**	**0.9**	**2.3**	**36.5**	**24.3**
TOTAL GLASS	**0.2**	**0.5**	**0.7**	**2.6**	**1.3**	**2.9**	**1.0**	**2.6**	**3.2**	**2.1**
METALS										
ALUMINUM CANS	1.2	3.1	1.8	6.6	0.6	1.3	0.8	2.1	4.4	2.9
BI-METAL CANS		0.0		0.0		0.0		0.0	0.0	0.0
FERROUS/TINNED CANS		0.0	0.3	1.1	0.2	0.4	2.0	5.1	2.5	1.7
OTHER FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL METALS	**1.2**	**3.1**	**2.1**	**7.7**	**0.8**	**1.8**	**2.8**	**7.2**	**6.9**	**4.6**
TOTAL RUBBER	**3.6**	**9.3**	**5.2**	**19.0**		**0.0**		**0.0**	**8.8**	**5.9**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX	1.5	3.9	1.5	5.5	1.3	2.9	1.3	3.3	5.6	3.7
DISPOSABLE DIAPERS		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL OTHER & FINES	**1.5**	**3.9**	**1.5**	**5.5**	**1.3**	**2.9**	**1.3**	**3.3**	**5.6**	**3.7**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**38.9**		**27.3**		**45.1**		**39.0**		**150.3**	

TABLE 7

WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED H - DISPOSAL SERVICES, INC (URBAN)

CATEGORIES	Sample 1		Sample 2		Sample 3		Sample 4		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER		0.0		0.0	3.1	8.9		0.0	3.1	1.4
MAGAZINE		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED	4.7	9.2	3.8	4.7		0.0	5.0	8.3	13.5	6.0
OTHER PAPERBOARDS		0.0		0.0		0.0		0.0	0.0	0.0
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER	14.0	27.5	22.1	27.5	4.6	13.3	13.2	21.9	53.9	23.8
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL PAPER	**18.7**	**36.7**	**25.9**	**32.2**	**7.7**	**22.2**	**18.2**	**30.1**	**70.5**	**31.1**
ORGANICS										
FOOD	5.0	9.8	3.5	4.3	3.6	10.4	8.7	14.4	20.8	9.2
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**5.0**	**9.8**	**3.5**	**4.3**	**3.6**	**10.4**	**8.7**	**14.4**	**20.8**	**9.2**
PLASTICS										
PET	6.0	11.8	9.4	11.7	1.0	2.9	2.5	4.1	18.9	8.3
HDPE	2.0	3.9	7.6	9.4	2.6	7.5	5.0	8.3	17.2	7.6
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID	2.0	3.9	0.9	1.1	0.3	0.9	2.7	4.5	5.9	2.6
OTHER-FLEXIBLE	6.3	12.4	9.0	11.2	15.6	45.0	9.2	15.2	40.1	17.7
STYROFOAM		0.0	1.0	1.2	0.7	2.0	0.9	1.5	2.6	1.1
TOTAL PLASTICS	**16.3**	**32.0**	**27.9**	**34.7**	**20.2**	**58.2**	**20.3**	**33.6**	**84.7**	**37.4**
TOTAL TEXTILES		**0.0**	**11.8**	**14.7**		**0.0**	**4.4**	**7.3**	**16.2**	**7.1**
TOTAL GLASS	**4.0**	**7.8**	**1.0**	**1.2**		**0.0**	**2.4**	**4.0**	**7.4**	**3.3**
METALS										
ALUMINUM CANS	4.2	8.2	2.2	2.7	1.0	2.9	2.8	4.6	10.2	4.5
BI-METAL CANS		0.0		0.0		0.0		0.0	0.0	0.0
FERROUS/TINNED CANS		0.0	6.7	8.3	1.3	3.7	0.2	0.3	8.2	3.6
OTHER FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL METALS	**4.2**	**8.2**	**8.9**	**11.1**	**2.3**	**6.6**	**3.0**	**5.0**	**18.4**	**8.1**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX	2.8	5.5	1.5	1.9	0.9	2.6	1.3	2.2	6.5	2.9
DISPOSABLE DIAPERS		0.0		0.0		0.0	2.1	3.5	2.1	0.9
TOTAL OTHER & FINES	**2.8**	**5.5**	**1.5**	**1.9**	**0.9**	**2.6**	**3.4**	**5.6**	**8.6**	**3.8**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**51.0**		**80.5**		**34.7**		**60.4**		**226.6**	

TABLE 8

AVERAGE PERCENT TOTAL WEIGHT OF

CHARACTERIZATION CATEGORIES BY WASTESHED

RURAL vs URBAN

	Rural	Urban
CATEGORIES	**Wastesheds B & F**	**Wastesheds C & H**
PAPER	11.2	16.0
ORGANICS	8.0	4.5
PLASTICS	12.6	17.6
TEXTILES	2.7	8.0
GLASS	1.2	1.0
METALS	3.4	3.4
RUBBER	0.0	0.8
RUBBLE	0.9	0.0
WOOD	0.2	0.0
OTHER & FINES	3.0	5.5
OVERSIZED ITEMS	0.0	0.0

TABLE 9

AVERAGE PERCENT TOTAL WEIGHT OF

CHARACTERIZATION CATEGORIES BY WASTESHED

F vs H

	Rural		Urban	
CATEGORIES	**Wasteshed F**		**Wasteshed H**	
	TOTAL WEIGHT (LBS)	**PERCENT**	**TOTAL WEIGHT (LBS)**	**PERCENT**
PAPER	88.8	7.7	104.9	9.1
ORGANICS	57.0	5.0	26.2	2.3
PLASTICS	100.3	8.7	134.2	11.7
TEXTILES	28.7	2.5	52.7	4.6
GLASS	7.7	0.7	10.6	0.9
METALS	26.9	2.3	25.3	2.2
RUBBER	0.0	0.0	8.8	0.8
RUBBLE	10.2	0.9	0.0	0.0
WOOD	2.0	0.2	0.0	0.0
OTHER & FINES	13.8	1.2	14.2	1.2
OVERSIZED ITEMS	0.0	0.0	0.0	0.0
TOTAL SAMPLE WEIGHT	335.4		376.9	

TABLE 10

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED F - GREENBRIER COUNTY (RURAL) - APRIL

CATEGORIES	Sample 1 - April		Sample 3 - April		Sample 4 - April		Sample 5 - April		Sample 6 - April		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER												
NEWSPAPER	4.8	9.5	4.9	6.8	1.2	2.3	1.2	2.4		0.0	12.1	4.3
MAGAZINE		0.0		0.0		0.0		0.0	3.0	5.6	3.0	1.1
CORRUGATED		0.0	6.1	8.5	4.6	8.5	5.1	10.2		0.0	15.8	5.7
OTHER PAPERBOARDS	3.2	6.4	7.4	10.3	5.1	9.4	4.6	9.3	11.5	21.8	31.7	11.4
BOOKS		0.0		0.0		0.0		0.0	9.4	17.9	9.4	3.4
OFFICE PAPER		0.0		0.0	3.9	7.2		0.0		0.0	3.9	1.4
OTHER	5.1	10.1	3.5	4.9	8.3	15.4	6.9	13.9	5.3	10.1	29.2	10.5
TOTAL PAPER	**13.2**	**26.0**	**21.8**	**30.4**	**23.0**	**42.7**	**17.9**	**35.8**	**29.1**	**55.5**	**105.0**	**37.7**
ORGANICS												
FOOD	10.3	20.3	3.4	4.7	5.9	10.9	3.1	6.1	2.1	4.0	24.7	8.9
YARD & GARDEN WASTE		0.0		0.0	0.2	0.3	9.1	18.3		0.0	9.3	3.3
TOTAL ORGANICS	**10.3**	**20.3**	**3.4**	**4.7**	**6.0**	**11.2**	**12.2**	**24.4**	**2.1**	**4.0**	**33.9**	**12.2**
PLASTICS												
PET	3.9	7.7	3.6	5.1	3.5	6.5	5.1	10.3	2.3	4.4	18.5	6.6
HDPE	0.8	1.7	13.3	18.6	14.7	27.3	3.6	7.2	0.8	1.5	33.3	12.0
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0	0.5	0.7		0.0		0.0		0.0	0.5	0.2
OTHER-FLEXIBLE		0.0		0.0		0.0		0.0		0.0	0.0	0.0
STYROFOAM	0.2	0.4	0.1	0.1	0.1	0.1	0.3	0.5		0.0	0.6	0.2
TOTAL PLASTICS	**5.0**	**9.8**	**17.5**	**24.5**	**18.3**	**33.9**	**9.0**	**18.0**	**3.1**	**5.9**	**52.9**	**19.0**
TOTAL TEXTILES	**1.4**	**2.8**	**4.2**	**5.8**	**0.4**	**0.8**	**4.9**	**9.8**	**15.1**	**28.8**	**26.0**	**9.3**
TOTAL GLASS	**5.3**	**10.4**	**6.6**	**9.2**	**3.8**	**7.0**	**1.5**	**2.9**	**1.9**	**3.6**	**19.0**	**6.8**
METALS												
ALUMINUM CANS	0.4	0.8	8.3	11.5	0.2	0.4	1.9	3.7	0.2	0.3	10.9	3.9
BI-METAL CANS	2.3	4.6	8.7	12.2	2.1	3.9	2.7	5.4	1.0	1.9	16.8	6.0
FERROUS/TINNED CANS		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER FERROUS	12.9	25.5		0.0		0.0		0.0		0.0	12.9	4.6
OTHER-NON-FERROUS		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL METALS	**15.6**	**30.8**	**17.0**	**23.7**	**2.3**	**4.3**	**4.5**	**9.1**	**1.2**	**2.2**	**40.6**	**14.6**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE												
ASPHALT		0.0		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS												
PALLETS		0.0		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES												
CONTAMINATED SOIL		0.0		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0		0.0		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS		0.0	1.3	1.8		0.0		0.0		0.0	1.3	0.5
TOTAL OTHER & FINES	**0.0**	**0.0**	**1.3**	**1.8**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.3**	**0.5**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**50.7**		**71.6**		**53.9**		**49.9**		**52.5**		**278.6**	

TABLE 11

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED F - GREENBRIER COUNTY (RURAL) - JULY

CATEGORIES	Sample 1 - July		Sample 2 - July		Sample 3 - July		Sample 4 - July		Sample 5 - July		Sample 6 - July		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER														
NEWSPAPER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
MAGAZINE		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED		0.0	5.9	16.9		0.0		0.0		0.0		0.0	5.9	2.3
OTHER PAPERBOARDS	5.2	20.8	3.3	9.5	3.7	9.4	1.7	3.4	10.1	16.2	5.1	11.0	29.1	11.3
BOOKS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0	19.4	49.8		0.0		0.0		0.0	19.4	7.5
OTHER	0.2	0.8	11.8	34.2		0.0	14.0	27.4	14.9	23.8	9.9	21.5	50.8	19.7
TOTAL PAPER	**5.4**	**21.6**	**21.0**	**60.7**	**23.1**	**59.2**	**15.7**	**30.8**	**25.0**	**40.0**	**14.9**	**32.6**	**105.1**	**40.8**
ORGANICS														
FOOD	10.2	40.7	3.1	8.9		0.0	7.6	14.8	15.5	24.8	15.6	34.1	51.9	20.1
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**10.2**	**40.7**	**3.1**	**8.9**	**0.0**	**0.0**	**7.6**	**14.8**	**15.5**	**24.8**	**15.6**	**34.1**	**51.9**	**20.1**
PLASTICS														
PET	1.7	6.6	3.8	10.8	4.1	10.5	5.3	10.3	5.0	8.0	5.5	12.0	25.3	9.8
HDPE	4.2	16.9	1.2	3.5	1.6	4.1	0.4	0.8	2.7	4.3	1.2	2.7	11.4	4.4
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0		0.0		0.0	2.5	4.9		0.0	0.5	1.1	3.0	1.2
OTHER-FLEXIBLE		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
STYROFOAM	0.3	1.2	1.8	5.1	0.3	0.8	0.4	0.8	0.2	0.4	0.3	0.7	3.3	1.3
TOTAL PLASTICS	**6.2**	**24.7**	**6.7**	**19.4**	**6.0**	**15.4**	**8.6**	**16.8**	**7.9**	**12.7**	**7.5**	**16.5**	**42.9**	**16.6**
TOTAL TEXTILES	**0.0**	**0.0**	**0.1**	**0.3**	**0.9**	**2.3**	**12.8**	**25.0**	**5.7**	**9.1**		**0.0**	**19.5**	**7.5**
TOTAL GLASS	**1.7**	**6.9**	**2.1**	**6.1**	**3.0**	**7.7**	**3.3**	**6.5**	**4.5**	**7.2**	**2.7**	**5.8**	**17.3**	**6.7**
METALS														
ALUMINUM CANS	1.0	4.1	0.7	2.1	0.2	0.6	0.9	1.8	0.8	1.2	0.6	1.2	4.2	1.6
BI-METAL CANS	0.5	2.0	0.9	2.6	5.8	14.8	2.0	3.9	2.9	4.7	4.5	9.9	16.6	6.4
FERROUS/TINNED CANS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER FERROUS		0.0		0.0		0.0	0.3	0.5		0.0		0.0	0.3	0.1
OTHER-NON-FERROUS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL METALS	**1.5**	**6.1**	**1.6**	**4.7**	**6.0**	**15.4**	**3.1**	**6.1**	**3.7**	**5.9**	**5.1**	**11.1**	**21.0**	**8.1**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE														
ASPHALT		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**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**
WOOD PRODUCTS														
PALLETS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**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**
MISCELLANEOUS & FINES														
CONTAMINATED SOIL		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS		0.0		0.0		0.0		0.0	0.2	0.3		0.0	0.2	0.1
TOTAL OTHER & FINES	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.2**	**0.3**	**0.0**	**0.0**	**0.2**	**0.1**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**25.0**		**34.6**		**39.0**		**51.0**		**62.5**		**45.7**		**257.8**	

TABLE 12

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED F - NICHOLAS COUNTY (RURAL) - APRIL

CATEGORIES	Sample 2 - April		Sample 3 - April		Samples 4 & 5 - April		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER								
NEWSPAPER	6.0	6.2	4.1	8.1	4.1	3.8	14.1	5.6
MAGAZINE		0.0		0.0		0.0	0.0	0.0
CORRUGATED	12.7	13.0		0.0	8.2	7.8	20.9	8.3
OTHER PAPERBOARDS	3.7	3.8	8.1	16.2	9.5	9.0	21.3	8.4
BOOKS		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0		0.0	0.0	0.0
OTHER	17.5	17.9	6.5	13.0	9.2	8.7	33.1	13.1
TOTAL PAPER	**39.9**	**40.9**	**18.6**	**37.3**	**31.0**	**29.3**	**89.4**	**35.4**
ORGANICS								
FOOD	43.7	44.9	13.2	26.5	10.3	9.7	67.2	26.6
YARD & GARDEN WASTE		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**43.7**	**44.9**	**13.2**	**26.5**	**10.3**	**9.7**	**67.2**	**26.6**
PLASTICS								
PET	8.7	8.9	6.7	13.4	15.9	15.1	31.3	12.4
HDPE	1.2	1.2	2.4	4.9	5.2	4.9	8.8	3.5
COMMERCIAL PLASTICS		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0		0.0		0.0	0.0	0.0
OTHER-FLEXIBLE		0.0		0.0		0.0	0.0	0.0
STYROFOAM	0.5	0.5	0.4	0.7	0.9	0.8	1.7	0.7
TOTAL PLASTICS	**10.4**	**10.7**	**9.5**	**19.0**	**22.0**	**20.8**	**41.8**	**16.5**
TOTAL TEXTILES	**1.5**	**1.5**	**0.2**	**0.3**	**7.6**	**7.2**	**9.2**	**3.6**
TOTAL GLASS	**1.2**	**1.2**	**4.7**	**9.4**	**14.7**	**13.9**	**20.6**	**8.1**
METALS								
ALUMINUM CANS	0.8	0.8	0.9	1.8	2.6	2.5	4.3	1.7
BI-METAL CANS		0.0	2.8	5.6	13.9	13.2	16.7	6.6
FERROUS/TINNED CANS		0.0		0.0		0.0	0.0	0.0
OTHER FERROUS		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0		0.0	3.6	3.4	3.6	1.4
TOTAL METALS	**0.8**	**0.8**	**3.7**	**7.4**	**20.1**	**19.0**	**24.6**	**9.7**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE								
ASPHALT		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS								
PALLETS		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES								
CONTAMINATED SOIL		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS		0.0		0.0		0.0	0.0	0.0
TOTAL OTHER & FINES	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**97.5**		**49.8**		**105.6**		**252.9**	

TABLE 13

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED F - NICHOLAS COUNTY (RURAL) - JULY

CATEGORIES	Sample 1 - July		Sample 2 - July		Samples 3 - July		Sample 4 - July		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER		0.0		0.0		0.0		0.0	0.0	0.0
MAGAZINE		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED	3.7	11.3		0.0		0.0		0.0	3.7	3.1
OTHER PAPERBOARDS	11.3	34.8	6.9	20.2	4.1	11.2	1.3	9.5	23.6	20.2
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER	3.4	10.4	7.6	22.1	9.7	26.8	2.5	18.9	23.2	19.9
TOTAL PAPER	**18.3**	**56.5**	**14.5**	**42.3**	**13.8**	**37.9**	**3.8**	**28.4**	**50.4**	**43.3**
ORGANICS										
FOOD	2.9	9.0		0.0		0.0	4.4	33.0	7.4	6.3
YARD & GARDEN WASTE		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**2.9**	**9.0**	**0.0**	**0.0**	**0.0**	**0.0**	**4.4**	**33.0**	**7.4**	**6.3**
PLASTICS										
PET	6.7	20.7	7.4	21.5	3.6	9.8	1.8	13.5	19.5	16.7
HDPE	0.0	0.1	1.8	5.3	6.6	18.2	0.5	3.7	9.0	7.7
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-FLEXIBLE		0.0		0.0		0.0		0.0	0.0	0.0
STYROFOAM	0.2	0.5	0.7	2.0	0.4	1.0	0.1	0.7	1.3	1.1
TOTAL PLASTICS	**6.9**	**21.3**	**9.9**	**28.9**	**10.5**	**29.0**	**2.4**	**18.0**	**29.7**	**25.5**
TOTAL TEXTILES		**0.0**	**5.2**	**15.1**	**9.0**	**24.8**		**0.0**	**14.2**	**12.2**
TOTAL GLASS	**2.2**	**6.8**	**0.9**	**2.6**	**2.0**	**5.4**	**0.8**	**6.2**	**5.9**	**5.1**
METALS										
ALUMINUM CANS	0.4	1.3	1.3	3.8	0.4	1.0	1.0	7.2	3.0	2.6
BI-METAL CANS	0.7	2.1	2.1	6.1	0.7	1.9	1.0	7.2	4.4	3.8
FERROUS/TINNED CANS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL METALS	**1.1**	**3.3**	**3.4**	**9.8**	**1.1**	**2.9**	**1.9**	**14.3**	**7.4**	**6.4**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS	1.0	3.1	0.5	1.3		0.0		0.0	1.5	1.2
TOTAL OTHER & FINES	**1.0**	**3.1**	**0.5**	**1.3**	**0.0**	**0.0**	**0.0**	**0.0**	**1.5**	**1.2**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**32.4**		**34.3**		**36.3**		**13.4**		**116.4**	

TABLE 14

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED H - CHARLESTON (URBAN) - APRIL

CATEGORIES	Sample 2 - April		Sample 4 - April		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER						
NEWSPAPER	1.1	1.4	4.1	3.9	5.3	2.8
MAGAZINE		0.0		0.0	0.0	0.0
CORRUGATED	4.3	5.3		0.0	4.3	2.3
OTHER PAPERBOARDS	6.5	8.0	12.8	12.2	19.3	10.4
BOOKS		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0	0.0	0.0
OTHER	25.4	31.5	38.8	36.9	64.3	34.6
TOTAL PAPER	**37.3**	**46.1**	**55.7**	**53.0**	**93.0**	**50.0**
ORGANICS						
FOOD	7.6	9.3	7.0	6.7	14.6	7.8
YARD & GARDEN WASTE		0.0		0.0	0.0	0.0
TOTAL ORGANICS	**7.6**	**9.3**	**7.0**	**6.7**	**14.6**	**7.8**
PLASTICS						
PET	5.6	7.0	10.7	10.2	16.3	8.8
HDPE	3.6	4.4	4.5	4.3	8.1	4.4
COMMERCIAL PLASTICS		0.0		0.0	0.0	0.0
OTHER-RIGID	0.7	0.9		0.0	0.7	0.4
OTHER-FLEXIBLE		0.0		0.0	0.0	0.0
STYROFOAM	2.2	2.7	0.6	0.6	2.8	1.5
TOTAL PLASTICS	**12.1**	**15.0**	**15.8**	**15.0**	**27.9**	**15.0**
TOTAL TEXTILES	**8.9**	**11.0**	**1.3**	**1.2**	**10.2**	**5.5**
TOTAL GLASS	**9.6**	**11.9**	**18.1**	**17.2**	**27.8**	**14.9**
METALS						
ALUMINUM CANS	2.6	3.2	2.3	2.1	4.9	2.6
BI-METAL CANS	0.7	0.8	4.9	4.7	5.6	3.0
FERROUS/TINNED CANS		0.0		0.0	0.0	0.0
OTHER FERROUS		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0		0.0	0.0	0.0
TOTAL METALS	**3.3**	**4.0**	**7.2**	**6.8**	**10.4**	**5.6**
TOTAL RUBBER		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE						
ASPHALT		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0	0.0	0.0
OTHER		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS						
PALLETS		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0	0.0	0.0
OTHER		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES						
CONTAMINATED SOIL		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS	2.1	2.6		0.0	2.1	1.1
TOTAL OTHER & FINES	**2.1**	**2.6**	**0.0**	**0.0**	**2.1**	**1.1**
TOTAL OVERSIZED		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**80.8**		**105.2**		**186.0**	

TABLE 15

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED H - CHARLESTON (URBAN) - JULY

CATEGORIES	Sample 1 - July		Sample 2 - July		Sample 3 - July		Sample 4 - July		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER		0.0		0.0		0.0		0.0	0.0	0.0
MAGAZINE		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED		0.0	5.5	8.3		0.0		0.0	5.5	2.6
OTHER PAPERBOARDS	3.4	6.7	1.5	2.3	2.4	5.9	2.4	4.7	9.6	4.7
BOOKS		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0	6.5	9.9		0.0		0.0	6.5	3.1
OTHER	12.5	24.9	18.6	28.2	5.7	13.7	10.1	20.2	46.8	22.6
TOTAL PAPER	**15.8**	**31.5**	**32.1**	**48.7**	**8.1**	**19.5**	**12.4**	**25.0**	**68.4**	**33.0**
ORGANICS										
FOOD	22.1	44.0	1.5	2.3	1.7	4.1	12.5	25.1	37.8	18.2
YARD & GARDEN WASTE		0.0		0.0	20.8	50.2		0.0	20.8	10.0
TOTAL ORGANICS	**22.1**	**44.0**	**1.5**	**2.3**	**22.5**	**54.3**	**12.5**	**25.1**	**58.5**	**28.2**
PLASTICS										
PET	4.1	8.2	4.8	7.2	3.3	8.0	3.2	6.3	15.3	7.4
HDPE	2.4	4.8	0.1	0.1	1.1	2.6	0.1	0.1	3.6	1.7
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0	18.7	28.3		0.0		0.0	18.7	9.0
OTHER-FLEXIBLE		0.0		0.0		0.0		0.0	0.0	0.0
STYROFOAM	0.1	0.2	1.6	2.4	0.2	0.5	0.5	1.0	2.4	1.1
TOTAL PLASTICS	**6.6**	**13.1**	**25.1**	**38.0**	**4.6**	**11.0**	**3.7**	**7.4**	**39.9**	**19.3**
TOTAL TEXTILES		**0.0**	**0.1**	**0.2**		**0.0**	**2.3**	**4.6**	**2.4**	**1.2**
TOTAL GLASS	**4.5**	**9.0**	**3.2**	**4.9**	**4.0**	**9.6**	**5.9**	**11.9**	**17.6**	**8.5**
METALS										
ALUMINUM CANS	0.9	1.7	2.0	3.0	1.7	4.1	0.3	0.6	4.8	2.3
BI-METAL CANS	0.3	0.6	0.1	0.2	0.6	1.5	3.4	6.8	4.4	2.1
FERROUS/TINNED CANS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER FERROUS		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS		0.0	1.9	2.9		0.0		0.0	1.9	0.9
TOTAL METALS	**1.2**	**2.3**	**4.0**	**6.0**	**2.3**	**5.6**	**3.7**	**7.4**	**11.1**	**5.3**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS		0.0		0.0		0.0	9.3	18.6	9.3	4.5
TOTAL OTHER & FINES	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**9.3**	**18.6**	**9.3**	**4.5**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**50.2**		**66.0**		**41.3**		**49.7**		**207.2**	

TABLE 16

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED H - DISPOSAL SERVICES, INC (URBAN) - APRIL

CATEGORIES	Sample 4 - April		Sample 5 - April		Sample 6 - April		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER								
NEWSPAPER	0.5	0.5	20.3	12.8	25.8	17.0	46.5	11.7
MAGAZINE		0.0	33.7	21.2		0.0	33.7	8.5
CORRUGATED	7.7	8.7		0.0		0.0	7.7	1.9
OTHER PAPERBOARDS	7.6	8.6	11.7	7.4	11.6	7.6	30.9	7.7
BOOKS		0.0		0.0	4.1	2.7	4.1	1.0
OFFICE PAPER	13.6	15.4	22.6	14.2		0.0	36.1	9.1
OTHER	24.3	27.7	22.9	14.4	22.5	14.8	69.7	17.5
TOTAL PAPER	**53.6**	**60.9**	**111.2**	**70.0**	**64.0**	**42.1**	**228.7**	**57.3**
ORGANICS								
FOOD	6.0	6.9	1.2	0.7	6.5	4.3	13.7	3.4
YARD & GARDEN WASTE		0.0		0.0	45.5	29.9	45.5	11.4
TOTAL ORGANICS	**6.0**	**6.9**	**1.2**	**0.7**	**52.0**	**34.2**	**59.2**	**14.8**
PLASTICS								
PET	15.9	18.1	9.6	6.0	9.0	5.9	34.4	8.6
HDPE	2.0	2.3	10.0	6.3	3.2	2.1	15.1	3.8
COMMERCIAL PLASTICS		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID	4.7	5.3	0.6	0.4	1.6	1.1	6.9	1.7
OTHER-FLEXIBLE		0.0		0.0		0.0	0.0	0.0
STYROFOAM	2.8	3.2	0.4	0.3		0.0	3.2	0.8
TOTAL PLASTICS	**25.4**	**28.9**	**20.6**	**13.0**	**13.7**	**9.0**	**59.7**	**15.0**
TOTAL TEXTILES		**0.0**	**1.6**	**1.0**	**2.7**	**1.8**	**4.3**	**1.1**
TOTAL GLASS	**0.8**	**0.9**	**13.9**	**8.8**	**6.7**	**4.4**	**21.5**	**5.4**
METALS								
ALUMINUM CANS	1.8	2.0	2.9	1.8	3.3	2.2	8.0	2.0
BI-METAL CANS		0.0	7.5	4.7	5.4	3.5	12.9	3.2
FERROUS/TINNED CANS		0.0		0.0		0.0	0.0	0.0
OTHER FERROUS		0.0		0.0		0.0	0.0	0.0
OTHER-NON-FERROUS	0.3	0.4		0.0		0.0	0.3	0.1
TOTAL METALS	**2.1**	**2.4**	**10.4**	**6.6**	**8.7**	**5.7**	**21.2**	**5.3**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE								
ASPHALT		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS								
PALLETS		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES								
CONTAMINATED SOIL		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS		0.0		0.0	4.3	2.8	4.3	1.1
TOTAL OTHER & FINES	**0.0**	**0.0**	**0.0**	**0.0**	**4.3**	**2.8**	**4.3**	**1.1**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**87.9**		**158.8**		**152.1**		**398.9**	

TABLE 17

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

WASTESHED H - DISPOSAL SERVICES, INC (URBAN) - JULY

CATEGORIES	Sample 1 - July		Sample 2 - July		Sample 3 - July		Sample 4 - July		Sample 5 - July		Sample 6 - July		Combined	
	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER														
NEWSPAPER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
MAGAZINE		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
CORRUGATED		0.0	3.4	7.5		0.0		0.0	1.1	4.5		0.0	3.4	1.3
OTHER PAPERBOARDS	9.9	14.2	6.5	14.4	6.8	13.1	3.9	10.0		0.0	0.8	2.4	23.1	8.8
BOOKS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OFFICE PAPER		0.0		0.0	10.8	20.7		0.0		0.0		0.0	10.8	4.1
OTHER	27.7	39.9	10.1	22.4		0.0	12.8	33.1	19.0	76.9	9.3	28.2	78.8	30.0
TOTAL PAPER	**37.5**	**54.1**	**19.9**	**44.3**	**17.5**	**33.8**	**16.7**	**43.1**	**20.2**	**81.4**	**10.1**	**30.7**	**121.8**	**46.4**
ORGANICS														
FOOD	5.0	7.2	10.0	22.2		0.0	6.6	17.0		0.0	4.9	14.8	26.4	10.1
YARD & GARDEN WASTE		0.0		0.0		0.0	9.0	23.3		0.0		0.0	9.0	3.4
TOTAL ORGANICS	**5.0**	**7.2**	**10.0**	**22.2**	**0.0**	**0.0**	**15.6**	**40.3**	**0.0**	**0.0**	**4.9**	**14.8**	**35.4**	**13.5**
PLASTICS														
PET	10.0	14.3	8.8	19.7	3.4	6.6	4.0	10.2	2.4	9.7	10.4	31.7	38.9	14.8
HDPE	1.2	1.7		0.0	2.9	5.6		0.0	0.2	0.6	0.4	1.2	4.6	1.8
COMMERCIAL PLASTICS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-RIGID		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER-FLEXIBLE		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
STYROFOAM	0.1	0.1	0.6	1.2	0.3	0.5	0.7	1.7	0.1	0.4	0.4	1.1	2.0	0.8
TOTAL PLASTICS	**11.2**	**16.1**	**9.4**	**20.9**	**6.6**	**12.7**	**4.6**	**11.9**	**2.7**	**10.7**	**11.1**	**34.0**	**45.5**	**17.4**
TOTAL TEXTILES	**8.6**	**12.4**	**0.4**	**1.0**	**4.7**	**9.1**	**0.7**	**1.7**	**0.4**	**1.6**		**0.0**	**14.8**	**5.6**
TOTAL GLASS	**2.4**	**3.5**	**3.0**	**6.6**	**9.5**	**18.3**	**0.6**	**1.4**		**0.0**	**5.3**	**16.1**	**20.7**	**7.9**
METALS														
ALUMINUM CANS	1.8	2.5	1.9	4.1	1.1	2.1	0.4	1.0	1.4	5.5	0.2	0.6	6.7	2.5
BI-METAL CANS	2.9	4.2	0.4	0.9	3.8	7.3	0.1	0.3	0.2	0.8	1.3	3.8	8.7	3.3
FERROUS/TINNED CANS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER FERROUS		0.0		0.0	1.6	3.0		0.0		0.0		0.0	1.6	0.6
OTHER-NON-FERROUS		0.0		0.0		0.0	0.1	0.3		0.0		0.0	0.1	0.0
TOTAL METALS	**4.7**	**6.7**	**2.3**	**5.0**	**6.5**	**12.5**	**0.6**	**1.6**	**1.6**	**6.3**	**1.5**	**4.4**	**17.0**	**6.5**
TOTAL RUBBER		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE														
ASPHALT		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
CONCRETE/BRICK/BLOCK		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL RUBBLE	**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**
WOOD PRODUCTS														
PALLETS		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
LUMBER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
OTHER		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
TOTAL WOOD	**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**
MISCELLANEOUS & FINES														
CONTAMINATED SOIL		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
FINES & SUPERMIX		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.0
DISPOSABLE DIAPERS		0.0		0.0	7.1	13.7		0.0		0.0		0.0	7.1	2.7
TOTAL OTHER & FINES	**0.0**	**0.0**	**0.0**	**0.0**	**7.1**	**13.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**7.1**	**2.7**
TOTAL OVERSIZED		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**69.4**		**44.8**		**51.9**		**38.6**		**24.8**		**32.8**		**262.2**	

TABLE 18

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

OVERALL SUMMARY

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT	WASTESHED F - RURAL				WASTESHED H - URBAN			
			Greenbrier		Nicholas		Charleston		DSI, Inc	
			TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
PAPER										
NEWSPAPER	78.0	4.0	12.1	2.3	14.1	3.8	5.3	1.3	46.5	7.0
MAGAZINE	36.7	1.9	3.0	0.5	0.0	0.0	0.0	0.0	33.7	5.1
CORRUGATED	58.7	3.0	21.6	4.0	16.3	4.4	9.7	2.5	11.0	1.7
OTHER PAPERBOARDS	158.7	8.1	60.8	11.3	15.0	4.1	28.9	7.4	54.0	8.2
BOOKS	13.5	0.7	9.4	1.8	0.0	0.0	0.0	0.0	4.1	0.6
OFFICE PAPER	76.6	3.9	23.3	4.3	0.0	0.0	6.5	1.7	46.9	7.1
OTHER	360.3	18.4	79.9	14.9	20.8	5.6	111.1	28.3	148.5	22.5
TOTAL PAPER	**861.8**	**44.0**	**210.0**	**39.2**	**139.8**	**37.9**	**161.5**	**41.1**	**350.5**	**53.0**
ORGANICS										
FOOD	215.7	11.0	76.6	14.3	46.7	12.6	52.3	13.3	40.1	6.1
YARD & GARDEN WASTE	84.5	4.3	9.3	1.7	0.0	0.0	20.8	5.3	54.5	8.2
TOTAL ORGANICS	**328.1**	**16.7**	**85.8**	**16.0**	**74.6**	**20.2**	**73.1**	**18.6**	**94.6**	**14.3**
PLASTICS										
PET	164.1	8.4	43.7	8.2	15.4	4.2	31.6	8.0	73.3	11.1
HDPE	77.4	3.9	44.7	8.3	1.2	0.3	11.7	3.0	19.8	3.0
COMMERCIAL PLASTICS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER-RIGID	29.8	1.5	3.5	0.7	0.0	0.0	19.4	4.9	6.9	1.0
OTHER-FLEXIBLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STYROFOAM	14.9	0.8	3.9	0.7	0.7	0.2	5.2	1.3	5.2	0.8
TOTAL PLASTICS	**340.4**	**17.4**	**95.8**	**17.9**	**71.6**	**19.4**	**67.9**	**17.3**	**105.2**	**15.9**
TOTAL TEXTILES	**100.5**	**5.1**	**45.5**	**8.5**	**23.4**	**6.3**	**12.6**	**3.2**	**19.1**	**2.9**
TOTAL GLASS	**150.2**	**7.7**	**36.2**	**6.8**	**26.5**	**7.2**	**45.3**	**11.5**	**42.1**	**6.4**
METALS										
ALUMINUM CANS	40.6	2.1	15.0	2.8	1.2	0.3	9.7	2.5	14.6	2.2
BI-METAL CANS	65.6	3.3	33.4	6.2	0.7	0.2	9.9	2.5	21.6	3.3
FERROUS/TINNED CANS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FERROUS	14.7	0.8	13.2	2.5	0.0	0.0	0.0	0.0	1.6	0.2
OTHER-NON-FERROUS	2.3	0.1	0.0	0.0	0.0	0.0	1.9	0.5	0.4	0.1
TOTAL METALS	**153.3**	**7.8**	**61.6**	**11.5**	**32.1**	**8.7**	**21.5**	**5.5**	**38.2**	**5.8**
TOTAL RUBBER	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
CONSTRUCTION RUBBLE										
ASPHALT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CONCRETE/BRICK/BLOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL RUBBLE	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
WOOD PRODUCTS										
PALLETS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUMBER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL WOOD	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
MISCELLANEOUS & FINES										
CONTAMINATED SOIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FINES & SUPERMIX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DISPOSABLE DIAPERS	25.2	1.3	1.5	0.3	1.0	0.3	11.3	2.9	11.4	1.7
TOTAL OTHER & FINES	**25.6**	**1.3**	**1.5**	**0.3**	**1.5**	**0.4**	**11.3**	**2.9**	**11.4**	**1.7**
TOTAL OVERSIZED	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
TOTAL SAMPLE WEIGHT	**1959.9**		**536.4**		**369.3**		**393.1**		**661.1**	

TABLE 19

1997 WASTE STREAM CHARACTERIZATION SAMPLING FORM

F vs H

	WASTESHED F		WASTESHED H	
CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
TOTAL PAPER	349.8	38.6	511.9	48.6
TOTAL ORGANICS	160.4	17.7	167.7	15.9
TOTAL PLASTICS	167.4	18.5	173.1	16.4
TOTAL TEXTILES	68.9	7.6	31.7	3.0
TOTAL GLASS	62.7	6.9	87.4	8.3
TOTAL METALS	93.6	10.3	59.7	5.7
TOTAL RUBBER	0.0	0.0	0.0	0.0
TOTAL RUBBLE	0.0	0.0	0.0	0.0
TOTAL WOOD	0.0	0.0	0.0	0.0
TOTAL OTHER & FINES	2.9	0.3	22.7	2.2
TOTAL OVERSIZED	0.0	0.0	0.0	0.0

TABLE 20

WASTE STREAM CHARACTERIZATION SAMPLING FORM

1997 vs 2024

	1997 WASTESHED F		1997 WASTESHED H		2024 WASTESHED F		2024 WASTESHED H	
CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT	TOTAL WEIGHT (LBS)	PERCENT
TOTAL PAPER	349.8	38.6	511.9	48.6	88.8	26.5	104.9	27.8
TOTAL ORGANICS	160.4	17.7	167.7	15.9	57.0	17.0	26.2	7.0
TOTAL PLASTICS	167.4	18.5	173.1	16.4	100.3	29.9	134.2	35.6
TOTAL TEXTILES	68.9	7.6	31.7	3.0	28.7	8.6	52.7	14.0
TOTAL GLASS	62.7	6.9	87.4	8.3	7.7	2.3	10.6	2.8
TOTAL METALS	93.6	10.3	59.7	5.7	26.9	8.0	25.3	6.7
TOTAL RUBBER	0.0	0.0	0.0	0.0	0.0	0.0	8.8	2.3
TOTAL RUBBLE	0.0	0.0	0.0	0.0	10.2	3.0	0.0	0.0
TOTAL WOOD	0.0	0.0	0.0	0.0	2.0	0.6	0.0	0.0
TOTAL OTHER & FINES	2.9	0.3	22.7	2.2	13.8	4.1	14.2	3.8
TOTAL OVERSIZED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX A
Driver Interviews

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL DSI-Hurricane

INTERVIEWER Jerice Carnes DATE AND TIME 9-4-24
REVIEWED BY _____ DATE AND TIME _____

SAMPLE NUMBER 1 WASTESHED _____

COMPANY WM
TYPE OF TRUCK front load
TRUCK CAPACITY 8,000 lbs

WASTE ORIGIN

County Putnam
Town _____
Other _____

TYPE OF WASTE

Single Family Residence _____
Multi-Family Residence _____
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled? cardboard

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP / SWCS
PROJECT NUMBER R231053.00
LANDFILL DSI - Hurricane

INTERVIEWER Jerico Carnes DATE AND TIME 9:00 A.M. 9-4-24
REVIEWED BY _____ DATE AND TIME _____

SAMPLE NUMBER 2 WASTESHED _____

COMPANY _____
TYPE OF TRUCK front Loader
TRUCK CAPACITY 14 tons

WASTE ORIGIN

County Kanawha
Town _____
Other _____

TYPE OF WASTE

Single Family Residence _____
Multi-Family Residence _____
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? no
If so, what materials are recycled? _____

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL DSI-Hurricane

INTERVIEWER Jerico Carnes DATE AND TIME 10:00A.M. 9-4-24
REVIEWED BY _____ DATE AND TIME _____

SAMPLE NUMBER 3 WASTESHED _____

COMPANY _____
TYPE OF TRUCK Automated Side Loader - residential
TRUCK CAPACITY 10,000 lbs

WASTE ORIGIN
County Putnam
Town Scott Depot
Other _____

TYPE OF WASTE
Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? no
If so, what materials are recycled? _____

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R23105 3.00
LANDFILL DSI - Hurricane

INTERVIEWER Jerico Carnes
DATE AND TIME 11:30 9-4-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 4
WASTESHED

COMPANY DSI - Hurricane
TYPE OF TRUCK Peterbuilt
TRUCK CAPACITY 25 tons

WASTE ORIGIN

County Logan
Town Pecksmill
Other

TYPE OF WASTE

Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? no
If so, what materials are recycled?

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY

INTERVIEW FORM

PROJECT NAME WVDEP/SWCS

PROJECT NUMBER R231053.00

LANDFILL WM- Northwestern Landfill

INTERVIEWER Jerico Carnes DATE AND TIME 09/06/2024 8:00 A.M.

REVIEWED BY _____ DATE AND TIME _____

SAMPLE NUMBER 1 WASTESHED _____

COMPANY WM

TYPE OF TRUCK roll-off

TRUCK CAPACITY 72,000

WASTE ORIGIN

County Jackson

Town Ravenswood

Other _____

TYPE OF WASTE

Single Family Residence _____

Multi-Family Residence _____

Commercial/Institutional ✓ altec

Is there a recycling program that exists in the area of the route? no

If so, what materials are recycled? _____

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R23105 3.00
LANDFILL WM- Northwestern

INTERVIEWER Jerico Carnes DATE AND TIME 11:00 A.M. 9-6-24
REVIEWED BY _____ DATE AND TIME _____

SAMPLE NUMBER 2 WASTESHED _____

COMPANY Taylors Disposal
TYPE OF TRUCK kenworth
TRUCK CAPACITY 54,000

WASTE ORIGIN

County Wood
Town Parkersburg
Other _____

TYPE OF WASTE

Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? no
If so, what materials are recycled? _____

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL WM - Northwestor Landfill

INTERVIEWER Carnes
DATE AND TIME 11:00 A.M. 9-6-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 3
WASTESHED

COMPANY WM
TYPE OF TRUCK front-Loader
TRUCK CAPACITY 42 yards

WASTE ORIGIN

County Wood
Town Parkersburg
Other

TYPE OF WASTE

Single Family Residence
Multi-Family Residence
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? no
If so, what materials are recycled?

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP / SWCS
PROJECT NUMBER R
LANDFILL WM - Northwestern Landfill

INTERVIEWER Jerico Carnes
DATE AND TIME 12:00 P.M. 9-6-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 4
WASTESHED

COMPANY City of Parkersburg
TYPE OF TRUCK Trash Truck
TRUCK CAPACITY 15 ton

WASTE ORIGIN

County Wood
Town Parkersburg
Other

TYPE OF WASTE

Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled? plastic, cans, bottles

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R23053.00
LANDFILL Nicholas transfer

INTERVIEWER Shannon Lohr
DATE AND TIME 9/9/24 8:50
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER Nicholas-1
WASTESHED

COMPANY Nicholas Sanitation
TYPE OF TRUCK Residential truck
TRUCK CAPACITY 8-10 tons

WASTE ORIGIN

County Nicholas
Town
Other

TYPE OF WASTE

Single Family Residence
Multi-Family Residence
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? think so
If so, what materials are recycled? Paper cardboard

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY

INTERVIEW FORM

PROJECT NAME WVDEP/SWCS

PROJECT NUMBER R231053.00

LANDFILL Nicholas transfer

INTERVIEWER Shannon Lohr

DATE AND TIME 9-9-24

REVIEWED BY

DATE AND TIME

SAMPLE NUMBER 2

WASTESHED

COMPANY Nicholas sanitation

TYPE OF TRUCK Compacter truck

TRUCK CAPACITY 8-10 tons

WASTE ORIGIN

County Nicholas

Town

Other

TYPE OF WASTE

Single Family Residence

Multi-Family Residence

Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? ✓

If so, what materials are recycled? cardboard in Beckley

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL Nicholas

INTERVIEWER STL
DATE AND TIME 9/9 11:00
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER Nicholas-3
WASTESHED

COMPANY Nicholas Sanitation
TYPE OF TRUCK Compactor truck
TRUCK CAPACITY 8-10 ton

WASTE ORIGIN

County Nicholas
Town
Other

TYPE OF WASTE

Single Family Residence
Multi-Family Residence ✓
Commercial/Institutional

Is there a recycling program that exists in the area of the route? ✓
If so, what materials are recycled? Aluminum, plastic, paper

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY

INTERVIEW FORM

PROJECT NAME WVDEP / SWCS

PROJECT NUMBER R231053.00

LANDFILL Nicholas Transfer

INTERVIEWER STL

DATE AND TIME 9/9/24 11:30

REVIEWED BY

DATE AND TIME

SAMPLE NUMBER Nicholas -4

WASTESHED

COMPANY Nicholas # Sanitation

TYPE OF TRUCK Rear Compactor truck

TRUCK CAPACITY 8-10 ton

WASTE ORIGIN

County

Town Tygoga

Other

TYPE OF WASTE

Single Family Residence

Multi-Family Residence X

Commercial/Institutional

Is there a recycling program that exists in the area of the route? No recycling

If so, what materials are recycled?

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY

INTERVIEW FORM

PROJECT NAME WVDEP/SWCS

PROJECT NUMBER RZ31053.00

LANDFILL Tucker County

INTERVIEWER Jerico Gaccos

DATE AND TIME 8:00 09/10/2024

REVIEWED BY

DATE AND TIME

SAMPLE NUMBER 1

WASTESHED

COMPANY City of Thomas

TYPE OF TRUCK Chipper Truck

TRUCK CAPACITY 3 ton

WASTE ORIGIN

County

Town Thomas

Other

TYPE OF WASTE

Single Family Residence ✓

Multi-Family Residence ✓

Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? yes

If so, what materials are recycled? cardboard

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWICS
PROJECT NUMBER R23105 3.00
LANDFILL Tucker County

INTERVIEWER Jerico Carnes
DATE AND TIME 9:00 9-10-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 2
WASTESHED

COMPANY Town of Thomas
TYPE OF TRUCK 550
TRUCK CAPACITY 3 ton

WASTE ORIGIN

County
Town
Other

TYPE OF WASTE

Single Family Residence
Multi-Family Residence ✓
Commercial/Institutional

Is there a recycling program that exists in the area of the route? y.
If so, what materials are recycled? cardboard, aluminum

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R23105.3.00
LANDFILL Tucker Co.

INTERVIEWER Jerico Carnes
DATE AND TIME 10:00 9-10-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 3
WASTESHED

COMPANY Thomas
TYPE OF TRUCK Chipper
TRUCK CAPACITY 2000 lbs

WASTE ORIGIN

County
Town Thomas
Other

TYPE OF WASTE

Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional

Is there a recycling program that exists in the area of the route? y
If so, what materials are recycled? cardboard / aluminum

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL Tucker Co.

INTERVIEWER Jerico Carnes
DATE AND TIME 12:00 9-10-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 4
WASTESHED

COMPANY Town of Thomas
TYPE OF TRUCK 550
TRUCK CAPACITY 3 ton

WASTE ORIGIN

County Tucker
Town Thomas
Other

TYPE OF WASTE

Single Family Residence
Multi-Family Residence ✓
Commercial/Institutional

Is there a recycling program that exists in the area of the route? Y
If so, what materials are recycled? cardboard, Aluminum

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWICS
PROJECT NUMBER R231053.00
LANDFILL Greenbrier Co.

INTERVIEWER Jerico Carnes
DATE AND TIME 09/11/2024 9:00
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 1
WASTESHED

COMPANY Greenbrier Co. Landfill
TYPE OF TRUCK Volvo -
TRUCK CAPACITY 30 yd.

WASTE ORIGIN

County Greenbrier
Town
Other

TYPE OF WASTE

Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional

Is there a recycling program that exists in the area of the route? yes.
If so, what materials are recycled? cardboard, plastics, aluminum

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R23105 3.00
LANDFILL Greenbrier

INTERVIEWER Carnes
DATE AND TIME 10:00 9-11-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 2
WASTESHED

COMPANY green mountain valley waste
TYPE OF TRUCK front loader
TRUCK CAPACITY 15,000 lbs

WASTE ORIGIN

County greenbrier
Town
Other

TYPE OF WASTE

Single Family Residence
Multi-Family Residence ✓
Commercial/Institutional

Is there a recycling program that exists in the area of the route? x
If so, what materials are recycled? cardboard

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL Greenbrier

INTERVIEWER Jerico Carnes
DATE AND TIME 11:00 9-11-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 3
WASTESHED

COMPANY Western Greenbrier Disposal Service
TYPE OF TRUCK back loader
TRUCK CAPACITY 20 yd³

WASTE ORIGIN
County Greenbrier
Town
Other

TYPE OF WASTE
Single Family Residence
Multi-Family Residence
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled?

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP / SWCS
PROJECT NUMBER R231053.00
LANDFILL Greenbrier

INTERVIEWER Jerico Carnes
DATE AND TIME 12:00 9-11-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 4
WASTESHED

COMPANY Western Greenbrier Disposal Service
TYPE OF TRUCK backloader
TRUCK CAPACITY 20 yd^3

WASTE ORIGIN

County Fayette County
Town
Other

TYPE OF WASTE

Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled?

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WV DEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL WM - Charleston

INTERVIEWER Jerico Carnes
DATE AND TIME 9:00 AM 9-12-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 1
WASTESHED

COMPANY Waste Management
TYPE OF TRUCK Front loader
TRUCK CAPACITY 28 yd^3

WASTE ORIGIN

County Kanawha
Town Charleston
Other

TYPE OF WASTE

Single Family Residence
Multi-Family Residence
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled? cardboard

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL Charleston, WV

INTERVIEWER Jerico Carnes
DATE AND TIME 10:00 A.M. 9-12-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 2
WASTESHED

COMPANY Waste Management
TYPE OF TRUCK Front loader
TRUCK CAPACITY 28 yd^3

WASTE ORIGIN
County Kanawha
Town
Other

TYPE OF WASTE
Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled?

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL Charleston

INTERVIEWER Jerica Carnes DATE AND TIME 11:00 A.M. 9-12-24
REVIEWED BY _____ DATE AND TIME _____

SAMPLE NUMBER ~~X~~ JDC 3 WASTESHED _____

COMPANY WM
TYPE OF TRUCK backloader
TRUCK CAPACITY ~~20 yd³~~ 11 yd³

WASTE ORIGIN
County Kanawha
Town _____
Other _____

TYPE OF WASTE
Single Family Residence ✓
Multi-Family Residence ✓
Commercial/Institutional _____

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled? card

ADDITIONAL INFORMATION

NOTES

2024 WV SOLID WASTE CHARACTERIZATION STUDY
INTERVIEW FORM

PROJECT NAME WVDEP/SWCS
PROJECT NUMBER R231053.00
LANDFILL WM - Charleston

INTERVIEWER Jerica Gaines
DATE AND TIME 12:00 P.M. 9-12-24
REVIEWED BY
DATE AND TIME

SAMPLE NUMBER 4
WASTESHED

COMPANY
TYPE OF TRUCK back loader
TRUCK CAPACITY 16 ton

WASTE ORIGIN
County South Charleston
Town
Other

TYPE OF WASTE
Single Family Residence
Multi-Family Residence
Commercial/Institutional ✓

Is there a recycling program that exists in the area of the route? yes
If so, what materials are recycled? Cardboard

ADDITIONAL INFORMATION

NOTES

APPENDIX B
Field Sampling Forms

gai consultants
transforming ideas into reality®

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

blue - 1.5 lbs
grey - 2.5 lbs
black - 4.0 lbs

PROJECT NUMBER R231053.00

LANDFILL DSI - Hurricane

SAMPLE NUMBER #1

SAMPLE WEIGHT _____ LBS

SAMPLER Carnes

DATE AND TIME 9-4-24

CHECKED BY _____

DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	4.1	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	14.0	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	5.0	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	6.0	
HDPE	2.0	
COMMERCIAL PLASTICS		
OTHER-RIGID	2.0	
OTHER-FLEXIBLE	6.3	
STYROFOAM		
TOTAL PLASTICS		
TEXTILES		
GLASS		
	4.0	
METALS		
ALUMINUM CANS	4.2	
BI-METAL CANS		
FERROUS/TINNED CANS		
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Hurricane - 1 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	2.8	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL DSI - Hurricane

SAMPLE NUMBER 2
SAMPLER
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 9-4-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	3.8	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	12.1+5.0	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	3.5	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	9.4	
HDPE	0.9 SWS 7.6	
COMMERCIAL PLASTICS		
OTHER-RIGID	0.9	
OTHER-FLEXIBLE	2.2+6.8 = 9.0	
STYROFOAM	0.8+0.2	
TOTAL PLASTICS		
TEXTILES		
	11.8	
GLASS		
	1.0	
METALS		
ALUMINUM CANS	2.2	
BI-METAL CANS		
FERROUS/TINNED CANS	5.7	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Hurricane-2 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1,5	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL DSI- Hurricane

SAMPLE NUMBER 3
SAMPLER Jerico Cornes
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 10:00 A.M. 9-4-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER	3.1	
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	4.6	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	3.6	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	1.0	
HDPE	2.5	
COMMERCIAL PLASTICS		
OTHER-RIGID	0.3	
OTHER-FLEXIBLE	8.8+6.9	
STYROFOAM	0.7	
TOTAL PLASTICS		
TEXTILES		
GLASS		
METALS		
ALUMINUM CANS	1.0	
BI-METAL CANS		
FERROUS/TINNED CANS	1.3	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Hurricane - 3 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	0,9	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL DSI - Hurricane

SAMPLE NUMBER 41
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT _____ LBS
DATE AND TIME 12:00 P.M. 9-4-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	5.0	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	13.2	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	8.7	
DISPOSABLE DIAPERS	2.1	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.6	
HDPE	5.0	
COMMERCIAL PLASTICS		
OTHER-RIGID	2.7	
OTHER-FLEXIBLE	5.0 + 4.2 = 9.2	
STYROFOAM	0.9	
TOTAL PLASTICS		
TEXTILES		
	4.4	
GLASS		
	2.4	
METALS		
ALUMINUM CANS	~~4.6~~ 2.8	
BI-METAL CANS		
FERROUS/TINNED CANS	0.2	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Hurricane - 4 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.3	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL WM- Northwestern

SAMPLE NUMBER 1
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 09/06/2024 9:00 A.M.
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	1.6	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	21+6.2	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	7.5	
DISPOSABLE DIAPERS	9.5 + 5.3	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	4.6	
HDPE	5.0	
COMMERCIAL PLASTICS		
OTHER-RIGID	5.3	
OTHER-FLEXIBLE	6.2 + 2.2	
STYROFOAM	0.6	
TOTAL PLASTICS		
TEXTILES		
	11.6	
GLASS		
	0.25	
METALS		
ALUMINUM CANS	2.6	
BI-METAL CANS		
FERROUS/TINNED CANS	3.3	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Northwestern -1 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	2.1	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053
LANDFILL WM Northwestern PKB

SAMPLE NUMBER 2
SAMPLER Jenica Carnes
CHECKED BY
SAMPLE WEIGHT LBS
DATE AND TIME 11:00 A.M 9-6-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	2.4	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	10.4 + 3.0	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	11.1	
DISPOSABLE DIAPERS	3.5	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.2	
HDPE	4.4	
COMMERCIAL PLASTICS		
OTHER-RIGID	0.5	
OTHER-FLEXIBLE	12.4	
STYROFOAM	0.3	
TOTAL PLASTICS		
TEXTILES		
	1.2	
GLASS		
	1.0	
METALS		
ALUMINUM CANS	2.0	
BI-METAL CANS		
FERROUS/TINNED CANS	1.5	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Northwestern-2 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL	10.6	
FINES & SUPERMIX	5.1	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL WM - Northwestern

SAMPLE NUMBER 3
SAMPLER
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 11:00 AM 9-6-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	2.6	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	7.4	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	6.5	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.8	
HDPE	2.2	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	9.6	
STYROFOAM	0.7	
TOTAL PLASTICS		
TEXTILES		
	3.0	
GLASS		
METALS		
ALUMINUM CANS	1.8	
BI-METAL CANS		
FERROUS/TINNED CANS	1.1	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Northwestern-3 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.1	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL WM-Northwestern Landfill

SAMPLE NUMBER 4
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 12:00 P.M. 9-6-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	14.0	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER	10.4	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	0.9	
DISPOSABLE DIAPERS	3.7	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.4	
HDPE	1.2	
COMMERCIAL PLASTICS		
OTHER-RIGID	2.9	
OTHER-FLEXIBLE	2.4	
STYROFOAM		
TOTAL PLASTICS		
TEXTILES		
	19.6+3.7	
GLASS		
METALS		
ALUMINUM CANS	1.8	
BI-METAL CANS		
FERROUS/TINNED CANS		
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Northwestern - 4 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	8.0	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Nicholas 1 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER	0.2	
MAGAZINE		
CORRUGATED	2.4	
OTHER PAPERBOARDS	3.4	
BOOKS		
OFFICE PAPER		
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	3.1	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	4.3	
HDPE	2.3	
COMMERCIAL PLASTICS		
OTHER-RIGID	1.3	
OTHER-FLEXIBLE	1.8 + 4.0 = 5.8	
STYROFOAM	1.3	
TOTAL PLASTICS		
TEXTILES	0.2	
GLASS		
METALS		
ALUMINUM CANS	1.0	
BI-METAL CANS		
FERROUS/TINNED CANS	2.0	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Nicholas transfer

SAMPLE NUMBER Nicholas-1
SAMPLER STL/BJM
CHECKED BY
SAMPLE WEIGHT LBS
DATE AND TIME 9-9-2024
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.0	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER NVDEP/SWCS
LANDFILL Nicholas

SAMPLE NUMBER Nicholas-2
SAMPLER STL/BJM
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 9-9-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE	0.2	
CORRUGATED		
OTHER PAPERBOARDS	7.6	
BOOKS		
OFFICE PAPER	7.0	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	9.7	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	3.9	
HDPE	1.1	
COMMERCIAL PLASTICS		
OTHER-RIGID	1.3	
OTHER-FLEXIBLE	2.8 + 1.3 = 4.1	
STYROFOAM	1.0 + 0.3	
TOTAL PLASTICS		
TEXTILES		
GLASS		
METALS		
ALUMINUM CANS	1.0	
BI-METAL CANS		
FERROUS/TINNED CANS	1.0	
OTHER FERROUS		
OTHER-NON-FERROUS	0.2	
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Nicholas - 2 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.3	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Nicholas

SAMPLE NUMBER Nicholas-3
SAMPLER McClinton
CHECKED BY STL-BJM

SAMPLE WEIGHT _____ LBS
DATE AND TIME 9-9-24
DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	1.6	
OTHER PAPERBOARDS	9.0	
BOOKS		
OFFICE PAPER	4.0	
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	5.5	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	5.9	
HDPE	3.0	
COMMERCIAL PLASTICS		
OTHER-RIGID	1.1	
OTHER-FLEXIBLE	4.4	
STYROFOAM	0.9 + 0.3 = 1.2	
TOTAL PLASTICS		
TEXTILES	0.2	
GLASS	3.4	
METALS		
ALUMINUM CANS	2.3	
BI-METAL CANS		
FERROUS/TINNED CANS	2.3	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Nicholas-3 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER	10.2	
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	0.3	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053,00
LANDFILL Nicholas

SAMPLE NUMBER Nicholas-4
SAMPLER McClinton
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 9-9-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	6.0	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	18.0	
TOTAL PAPER		
ORGANICS		
FOOD	11.0	
DISPOSABLE DIAPERS	1.5	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	7.6	
HDPE	4.3	
COMMERCIAL PLASTICS		
OTHER-RIGID	3.0	
OTHER-FLEXIBLE	6.3	
STYROFOAM	0.3	
TOTAL PLASTICS		
TEXTILES	2.0 + 1.5 = 3.5	
GLASS	0.5	
METALS		
ALUMINUM CANS	1.0	
BI-METAL CANS	1.2	
FERROUS/TINNED CANS	0.5	
OTHER FERROUS	0.0	
OTHER-NON-FERROUS	1.0	
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Nicholas - 4 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER	1.0	
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.5	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Tucker County

SAMPLE NUMBER 1
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 8:00 A.M. 9-10-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER	0.1	
MAGAZINE		
CORRUGATED	0.6	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER		
TOTAL PAPER		
ORGANICS		
FOOD	14.0	
DISPOSABLE DIAPERS	1.6	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.8	
HDPE	1.0	
COMMERCIAL PLASTICS		
OTHER-RIGID	0.3	
OTHER-FLEXIBLE	11.6	
STYROFOAM	0.1	
TOTAL PLASTICS		
TEXTILES		
	1.0	
GLASS		
METALS		
ALUMINUM CANS	1.6	
BI-METAL CANS		
FERROUS/TINNED CANS	3.0	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Tucker CO - 1

SAMPLER _____

CHECKED BY _____

SAMPLE WEIGHT _____ LBS

DATE AND TIME _____

DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX		
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Tucker

SAMPLE NUMBER 2
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 9:00 A.M. 9-10-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	3.0	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	6.0	
TOTAL PAPER		
ORGANICS		
FOOD	8.7	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	1.2+1.8=3.0	
HDPE		
COMMERCIAL PLASTICS		
OTHER-RIGID	0.7	
OTHER-FLEXIBLE	2.8	
STYROFOAM	0.1	
TOTAL PLASTICS		
TEXTILES		
	0.3	
GLASS		
	3.0	
METALS		
ALUMINUM CANS	1.8	
BI-METAL CANS		
FERROUS/TINNED CANS	0.6	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Tucker CO - 2

SAMPLER _____

CHECKED BY _____

SAMPLE WEIGHT _____ LBS

DATE AND TIME _____

DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	3.5	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Tucker Co.

SAMPLE NUMBER 3
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 10:00 A.M. 9-10-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER	1.1	
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS	3.8+2.0=5.8	
BOOKS		
OFFICE PAPER		
OTHER	11.8	
TOTAL PAPER		
ORGANICS		
FOOD	5.1	
DISPOSABLE DIAPERS	5.5	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	4.8	
HDPE		
COMMERCIAL PLASTICS		
OTHER-RIGID	2.2+0.7=2.7	
OTHER-FLEXIBLE	3.8	
STYROFOAM	0.9	
TOTAL PLASTICS		
TEXTILES		
GLASS		
METALS		
ALUMINUM CANS	1.0	
BI-METAL CANS		
FERROUS/TINNED CANS	2.2	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Tucker CO-3 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.5	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053
LANDFILL Tucker Co.

SAMPLE NUMBER 4
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT 25.4 LBS
DATE AND TIME 1200 P.M. 9-10-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	5.2	
OTHER PAPERBOARDS	0.3	
BOOKS		
OFFICE PAPER		
OTHER	6.6	
TOTAL PAPER		
ORGANICS		
FOOD	0.9 + 6.5 = 7.4	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.6	
HDPE	2.0	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	5.0	
STYROFOAM		
TOTAL PLASTICS		
TEXTILES		
	0.4	
GLASS		
	3.0	
METALS		
ALUMINUM CANS	1.4	
BI-METAL CANS		
FERROUS/TINNED CANS	0.6	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____
LANDFILL _____

SAMPLE NUMBER Tucker CO - 4
SAMPLER _____
CHECKED BY _____

SAMPLE WEIGHT _____ LBS
DATE AND TIME _____
DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	8.3	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Greenbrier

SAMPLE NUMBER 1
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 9:00 A.M. 9-11-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER	6.4	
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	6.2	
TOTAL PAPER		
ORGANICS		
FOOD	8.7+4.3=13.0	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	0.8	
HDPE	2.0	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	3.0	
STYROFOAM	0.4	
TOTAL PLASTICS		
TEXTILES		
	1.4	
GLASS		
	0.4	
METALS		
ALUMINUM CANS	0.6	
BI-METAL CANS		
FERROUS/TINNED CANS	1.3	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Greenbrier - 1 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.1	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Greenbrier

SAMPLE NUMBER 2
SAMPLER Jarico Gaines
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 10:00 A.M. 9-11-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	1.8	
TOTAL PAPER		
ORGANICS		
FOOD	3.7	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.2+1.6+2.8=6.6	
HDPE	3.2	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	2.6+4.0=6.6	
STYROFOAM	0.2	
TOTAL PLASTICS		
TEXTILES		
	2.6	
GLASS		
METALS		
ALUMINUM CANS	0.4	
BI-METAL CANS		
FERROUS/TINNED CANS	1.9	
OTHER FERROUS		
OTHER-NON-FERROUS	4.4	
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Greenbrier-2 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX		
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Greenbrier LF

SAMPLE NUMBER 3
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 11:00 9-11-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	6.8	
TOTAL PAPER		
ORGANICS		
FOOD	8.9	
DISPOSABLE DIAPERS	2.7+1.5=	
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.2	
HDPE	2.8	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	3.8	
STYROFOAM	0.7	
TOTAL PLASTICS		
TEXTILES		
	3.6	
GLASS		
	1.0	
METALS		
ALUMINUM CANS	2.5	
BI-METAL CANS		
FERROUS/TINNED CANS	0.25	
OTHER FERROUS	1.0	
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Greenbrier-3 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL	X 30<	
FINES & SUPERMIX	1.9	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Greenbrier

SAMPLE NUMBER 41
SAMPLER Jerico Garnes
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 12:00 9-11-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	5.0	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	3.2	
TOTAL PAPER		
ORGANICS		
FOOD	2.1	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	1.2	
HDPE		
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	3.0	
STYROFOAM		
TOTAL PLASTICS		
TEXTILES		
	17.0	
GLASS		
METALS		
ALUMINUM CANS		
BI-METAL CANS		
FERROUS/TINNED CANS		
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Greenbrier - 4 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.0	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Charleston

SAMPLE NUMBER 1
SAMPLER Jerica Caceres
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 9:00 A.M. 09/12/2024
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	0.4	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	8.8	
TOTAL PAPER		
ORGANICS		
FOOD	0.9	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	1.0	
HDPE	1.8	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	3.4	
STYROFOAM	1.1	
TOTAL PLASTICS		
TEXTILES		
	10.8 + 4.2 = 15.0	
GLASS		
	0.2	
METALS		
ALUMINUM CANS	1.2	
BI-METAL CANS		
FERROUS/TINNED CANS		
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Charleston - 1 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
	3.6	
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.5	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Charleston

SAMPLE NUMBER 2
SAMPLER Janice Cardos
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 10:00 A.M. 9-12-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED	2.6	
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	3.2	
TOTAL PAPER		
ORGANICS		
FOOD	0.5	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	3.0	
HDPE	~~0.3~~ 1.8	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	5.4	
STYROFOAM	0.3	
TOTAL PLASTICS		
TEXTILES		
	1.0	
GLASS		
	0.7	
METALS		
ALUMINUM CANS	1.8	
BI-METAL CANS		
FERROUS/TINNED CANS	0.3	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Charleston - 2 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
	5.2	
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.5	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Charleston

SAMPLE NUMBER 3
SAMPLER Jerico Carnes
CHECKED BY

SAMPLE WEIGHT ____ LBS
DATE AND TIME 11:00 A.M. 9-12-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	9.2	
TOTAL PAPER		
ORGANICS		
FOOD	3.3	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	2.6	
HDPE	1.2	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	5.8	
STYROFOAM		
TOTAL PLASTICS		
TEXTILES		
	19.6	
GLASS		
	1.3	
METALS		
ALUMINUM CANS	0.6	
BI-METAL CANS		
FERROUS/TINNED CANS	0.2	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Charleston - 3

SAMPLER _____

CHECKED BY _____

SAMPLE WEIGHT _____ LBS

DATE AND TIME _____

DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.3	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER R231053.00
LANDFILL Charleston, WV

SAMPLE NUMBER 4
SAMPLER Jenica Carnes
CHECKED BY

SAMPLE WEIGHT LBS
DATE AND TIME 12:00 P.M 9-12-24
DATE AND TIME

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
PAPER		
NEWSPAPER		
MAGAZINE		
CORRUGATED		
OTHER PAPERBOARDS		
BOOKS		
OFFICE PAPER		
OTHER	10.2	
TOTAL PAPER		
ORGANICS		
FOOD	0.7	
DISPOSABLE DIAPERS		
YARD & GARDEN WASTE		
TOTAL ORGANICS		
PLASTICS		
PET	17.2	
HDPE	0.8	
COMMERCIAL PLASTICS		
OTHER-RIGID		
OTHER-FLEXIBLE	3.8	
STYROFOAM	0.3	
TOTAL PLASTICS		
TEXTILES		
	0.9	
GLASS		
	1.0	
METALS		
ALUMINUM CANS	~~2.0~~ 0.8	
BI-METAL CANS		
FERROUS/TINNED CANS	2.0	
OTHER FERROUS		
OTHER-NON-FERROUS		
TOTAL METALS		

2024 WV SOLID WASTE CHARCTERIZATION STUDY
SAMPLING FORM

PROJECT NUMBER _____

LANDFILL _____

SAMPLE NUMBER Charleston - 4 SAMPLE WEIGHT _____ LBS

SAMPLER _____ DATE AND TIME _____

CHECKED BY _____ DATE AND TIME _____

CATEGORIES	TOTAL WEIGHT (LBS)	PERCENT (LBS)
RUBBER		
CONSTRUCTION RUBBLE		
ASPHALT		
CONCRETE/BRICK/BLOCK		
OTHER		
TOTAL RUBBLE		
WOOD PRODUCTS		
PALLETS		
LUMBER		
OTHER		
TOTAL WOOD		
MISCELLANEOUS & FINES		
CONTAMINATED SOIL		
FINES & SUPERMIX	1.3	
TOTAL OTHER & FINES		
OVERSIZED ITEMS		
TOTAL SAMPLE WEIGHT		

NOTES

APPENDIX C
Per Capita Generation Forms

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MSW Per Capita Generation
Method 1
Wasteshed B

This calculation is to estimate the per capita generation rate for Wasteshed B. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population
Barbour	15,465
Braxton	12,447
Clay	8,051
Doddridge	7,808
Gilmer	7,408
Harrison	65,921
Lewis	17,033
Marion	56,205
Monongalia	105,822
Preston	34,216
Randolph	27,932
Taylor	16,705
Tucker	6,762
Upshur	23,816
Wasteshed B Total	405,591

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed B Landfills

Location	2021 In-State MSW Tonnage
Tucker Co	43,464.59
Meadowfill	168,005.95
Wasteshed B Total	211,470.54

Per Capita Generation - Wasteshed B

$$PCG = \frac{W}{\text{Total Population}} \times \frac{1}{365 \text{ days}}$$

$$= \textbf{2.86 lbs/day}$$

MSW Per Capita Generation
Method 1
Wasteshed C

This calculation is to estimate the per capita generation rate for Wasteshed C. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population
Jackson	27,791
Pleasants	7,653
Ritchie	8,444
Wirt	5,194
Wood	84,296
Wasteshed C Total	133,378

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed C Landfills

Location	2021 In-State MSW Tonnage
Northwestern	106410.47
Wasteshed C Total	106410.47

Per Capita Generation - Wasteshed C

$$PCG = \frac{W}{\text{Total Population}} \times \frac{1}{365 \text{ days}}$$

$$= \mathbf{4.37\ lbs/day}$$

MSW Per Capita Generation
Method 1
Wasteshed F

This calculation is to estimate the per capita generation rate for Wasteshed F. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population
Greenbrier	32,977
Nicholas	24,604
Pocahontas	7,869
Webster	8,378
Wasteshed F Total	73,828

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed F Landfills

Location	2021 In-State MSW Tonnage
Greenbrier Co	39,662.98
Pocahontas Co	6,510.26
Nicholas Co Transfer	
Wasteshed F Total	46,173.24

Per Capita Generation - Wasteshed F

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)} \times \frac{1}{365 \text{ days}}$$

$$= \mathbf{3.43\ lbs/day}$$

MSW Per Capita Generation
Method 1
Wasteshed H

This calculation is to estimate the per capita generation rate for Wasteshed H. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population
Boone	21,809
Cabell	94,350
Calhoun	6,229
Kanawha	180,745
Lincoln	20,463
Logan	32,567
Mason	25,453
Putnam	57,440
Roane	14,028
Wayne	38,982
Wasteshed H Total	492,066

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed H Landfills

Location	2023 In-State MSW Tonnage
Charleston	150,012.56
Disposal Services	79,125.18
Sycamore	70,723.24
Wasteshed H Total	299,860.98

Per Capita Generation - Wasteshed H

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)} \times \frac{1}{365 \text{ days}}$$

= **3.34 lbs/day**

MSW Per Capita Generation
Method 2
Wasteshed B

This calculation is to estimate the per capita generation rate for Wasteshed B. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population	Housing Units	People per Residential Customer	Employer Establishments	Employment Rate	People per Commercial Customer
		C_R	P_R	C_C		P_C
Barbour	15,465	7,114	2.17	203	0.448	34.13
Braxton	12,447	6,251	1.99	238	0.363	18.98
Clay	8,051	3,907	2.06	67	0.396	47.59
Doddridge	7,808	3,241	2.41	71	0.434	47.73
Gilmer	7,408	3,090	2.40	100	0.371	27.48
Harrison	65,921	30,480	2.16	1,772	0.537	19.98
Lewis	17,033	8,202	2.08	361	0.480	22.65
Marion	56,205	26,280	2.14	1,109	0.550	27.87
Monongalia	105,822	49,881	2.12	2,405	0.614	27.02
Preston	34,216	15,174	2.25	510	0.467	31.33
Randolph	27,932	13,035	2.14	649	0.453	19.50
Taylor	16,705	7,441	2.24	210	0.490	38.98
Tucker	6,762	4,650	1.45	157	0.506	21.79
Upshur	23,816	11,178	2.13	511	0.490	22.84
Wasteshed B Total	405,591	189,924	2.14	8,363	0.471	22.86

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed B Landfills

Location	2021 In-State MSW Tonnage
Tucker Co	43,464.59
Meadowfill	168,005.95
Wasteshed B Total	211,470.54

Per Capita Generation - Wasteshed B

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

$$= \mathbf{1.94\ lbs/day}$$

MSW Per Capita Generation
Method 2
Wasteshed C

This calculation is to estimate the per capita generation rate for Wasteshed C. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population	Housing Units	People per Residential Customer	Employer Establishments	Employment Rate	People per Commercial Customer
		C_R	P_R	C_C		P_C
Jackson	27,791	12,888	2.16	463	0.451	27.07
Pleasants	7,653	3,209	2.38	127	0.482	29.05
Ritchie	8,444	4,142	2.04	188	0.412	18.50
Wirt	5,194	2,702	1.92	53	0.471	46.16
Wood	84,296	40,304	2.09	1,894	0.539	23.99
Wasteshed C Total	133,378	63,245	2.11	2,725	0.471	23.05

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed C Landfills

Location	2021 In-State MSW Tonnage
Northwestern	106410.47
Wasteshed C Total	106410.47

Per Capita Generation - Wasteshed C

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

$$= \textbf{2.97 lbs/day}$$

MSW Per Capita Generation
Method 2
Wasteshed F

This calculation is to estimate the per capita generation rate for Wasteshed F. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population	Housing Units	People per Residential Customer	Employer Establishments	Employment Rate	People per Commercial Customer
		C_R	P_R	C_C		P_C
Greenbrier	32,977	17,807	1.85	879	0.490	18.38
Nicholas	24,604	12,496	1.97	545	0.450	20.32
Pocahontas	7,869	6,795	1.16	221	0.384	13.67
Webster	8,378	4,381	1.91	112	0.385	28.80
Wasteshed F Total	73,828	41,479	1.78	1,757	0.427	17.95

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed F Landfills

Location	2021 In-State MSW Tonnage
Greenbrier Co	39,662.98
Pocahontas Co	6,510.26
Nicholas Co Transfer	
Wasteshed F Total	46,173.24

Per Capita Generation - Wasteshed F

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

$$= \mathbf{2.40\ lbs/day}$$

MSW Per Capita Generation
Method 2
Wasteshed H

This calculation is to estimate the per capita generation rate for Wasteshed H. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

County	Total Population	Housing Units	People per Residential Customer	Employer Establishments	Employment Rate	People per Commercial Customer
		C_R	P_R	C_C		P_C
Boone	21,809	10,132	2.15	236	0.395	36.50
Cabell	94,350	46,125	2.05	2,294	0.540	22.21
Calhoun	6,229	3,181	1.96	85	0.372	27.26
Kanawha	180,745	90,294	2.00	4,494	0.517	20.79
Lincoln	20,463	9,549	2.14	157	0.404	52.66
Logan	32,567	14,738	2.21	552	0.358	21.12
Mason	25,453	12,153	2.09	315	0.451	36.44
Putnam	57,440	24,795	2.32	1,209	0.556	26.42
Roane	14,028	7,151	1.96	223	0.360	22.65
Wayne	38,982	18,150	2.15	462	0.443	37.38
Wasteshed H Total	492,066	236,268	2.08	10,027	0.440	21.57

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Wasteshed H Landfills

Location	2023 In-State MSW Tonnage
Charleston	150,012.56
Disposal Services	79,125.18
Sycamore	70,723.24
Wasteshed H Total	299,860.98

Per Capita Generation - Wasteshed H

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

$$= \textbf{2.32 lbs/day}$$

MSW Per Capita Generation
2021
State Total

This calculation is to estimate the per capita generation rate for West Virginia. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

Total Population	Housing Units	People per Residential Customer	Employer Establishments	Employment Rate	People per Commercial Customer
	C_R	P_R	C_C		P_C
1,793,716	855,635	2.10	35,316	0.517	26.26

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Municipal Solid Waste transported to West Virginia Landfills

Public Facilities

Location	MSW Tonnage	Imported to WV
Tucker Co	43,464.49	691.43
Greenbrier Co	39,662.98	0.54
Pocahontas Co	6,510.26	
Copper Ridge	50,802.45	
Mercer Co	24,640.26	262.58
Raleigh Co	121,824.56	
Charleston	150,012.56	5.78
Private Facilities		
Brooke/Valero	40,865.88	21,055.01
Short Creek	159,263.12	18,170.56
Wetzel	19,753.98	7,835.08
Meadowfill	168,005.95	286.78
Northwestern	106,410.47	25,467.08
LCS	76,232.53	337.44
HAM	11,874.60	312.00
Disposal Services	79,125.18	264.90
Sycamore	70,723.24	845.36
Total	**1,169,172.51**	**75,534.54**

MSW Exported to Other States (tons)

Location	MSW Tonnage
Kentucky	187,760
Maryland	40,895
Ohio	185,174
Pennsylvania	262,098
Virginia	12,867
Total	**688,794**

Location	MSW Tonnage
In-State	1,169,172.51
Export	688,794
Total	**1,857,966.51**

MSW Per Capita Generation
2021
State Total

2021 Per Capita Generation - Method 1

$$PCG = \frac{W}{\text{Total Population}} \times \frac{1}{365 \text{ days}}$$

= **5.68 lbs/day**

2021 Per Capita Generation - Method 2

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

PCG = Per Capita Generation Rate (pounds per person per day)
W = Weight of Waste landfilled per time period (pounds)
D = Days per time period
C_R = Total residential customers
C_C = Total commercial customers
P_R = People per residential customer
P_C = People per commercial customer

W = 1,857,967 tons x 2,000 lbs/ton
3,715,933,020 lbs

D = 365 days

C_R =	855,635	Customers	P_R =	2	People per customer
C_C =	35,316	Customers	P_C =	26	People per customer

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

= **3.74 lbs/day**

MSW Per Capita Generation
2022
State Total

This calculation is to estimate the per capita generation rate for West Virginia. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

Total Population	Housing Units	People per Residential Customer	Employer Establishments	Employment Rate	People per Commercial Customer
	C_R	P_R	C_C		P_C
1,793,716	855,635	2.10	35,316	0.517	26.26

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns 2023
American Community Survey 1-Year Extension

Municipal Solid Waste transported to West Virginia Landfills

Public Facilities

Location	MSW Tonnage	Imported to WV
Tucker Co	60,842.10	666.51
Greenbrier Co	37,897.91	
Pocahontas Co	6,406.73	
Copper Ridge	49,415.42	
Mercer Co	25,024.18	241.35
Raleigh Co	119,739.10	
Charleston	149,869.06	
Private Facilities		
Brooke/Valero	29,788.09	19,374.85
Short Creek	162,033.50	19,230.10
Wetzel	16,418.57	8,534.25
Meadowfill	165,637.08	89.13
Northwestern	107,533.31	20,085.58
LCS	76,604.66	287.50
HAM	11,551.11	180.72
Disposal Services	77,063.15	16.58
Sycamore	65,725.13	233.72
Total	**1,161,549.10**	**68,940.29**

MSW Exported to Other States (tons)

Location	MSW Tonnage
Kentucky	187,760
Maryland	40,895
Ohio	185,174
Pennsylvania	262,098
Virginia	12,867
Total	**688,794**

Location	MSW Tonnage
In-State	1,161,549.10
Export	688,794
Total	**1,850,343.10**

MSW Per Capita Generation
2022
State Total

2022 Per Capita Generation - Method 1

$$PCG = \frac{W}{\text{Total Population}} \times \frac{1}{365 \text{ days}}$$

= **5.65 lbs/day**

2022 Per Capita Generation - Method 2

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

PCG = Per Capita Generation Rate (pounds per person per day)

W = Weight of Waste landfilled per time period (pounds)

D = Days per time period

C_R = Total residential customers

C_C = Total commercial customers

P_R = People per residential customer

P_C = People per commercial customer

W = 1,850,343 tons x 2,000 lbs/ton

3,700,686,200 lbs

D = 365 days

C_R =	855,635	Customers	P_R =	2	People per customer
C_C =	35,316	Customers	P_C =	26	People per customer

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

= **3.73 lbs/day**

MSW Per Capita Generation
2023
State Total

This calculation is to estimate the per capita generation rate for West Virginia. Population and housing units per US Census Bureau 2020 Decennial Census. Employer establishments per US Census Bureau 2021 Economic Surveys Business Patterns. Employment rate per 2023 American Community Survey 1-Year Extension.

Total Population	Housing Units	People per Residential Customer	Employer Establishments	Employment Rate	People per Commercial Customer
	C_R	P_R	C_C		P_C
1,793,716	855,635	2.10	35,316	0.517	26.26

Sources: US Census Bureau 2020 Decennial Census
US Census Bureau 2021 Economic Surveys Business Patterns
2023 American Community Survey 1-Year Extension

Municipal Solid Waste transported to West Virginia Landfills

Public Facilities

Location	MSW Tonnage	Imported to WV
Tucker Co	74,650.62	635.26
Greenbrier Co	36,756.83	
Pocahontas Co	6,929.89	
Copper Ridge	47,667.55	
Mercer Co	25,084.46	310.91
Raleigh Co	123,114.52	
Charleston	145,498.10	0.37
Private Facilities		
Brooke/Valero	33,593.45	21,010.73
Short Creek	164,301.24	18,866.79
Wetzel	16,733.53	7,485.90
Meadowfill	150,621.45	174.95
Northwestern	107,355.29	20,638.75
LCS	74,670.84	405.69
HAM	16,370.58	336.85
Disposal Services	78,715.36	1.48
Sycamore	67,158.41	265.18
Total	**1,169,222.12**	**70,132.86**

MSW Exported to Other States (tons)

Location	MSW Tonnage
Kentucky	187,760
Maryland	40,895
Ohio	185,174
Pennsylvania	262,098
Virginia	12,867
Total	**688,794**

Location	MSW Tonnage
In-State	1,169,222.12
Export	688,794
Total	**1,858,016.12**

MSW Per Capita Generation
2023
State Total

2022 Per Capita Generation - Method 1

$$PCG = \frac{W}{\text{Total Population}} \times \frac{1}{365 \text{ days}}$$

$$= \textbf{5.68 lbs/day}$$

2022 Per Capita Generation - Method 2

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

PCG = Per Capita Generation Rate (pounds per person per day)

W = Weight of Waste landfilled per time period (pounds)

D = Days per time period

C_R = Total residential customers

C_C = Total commercial customers

P_R = People per residential customer

P_C = People per commercial customer

W = 1,858,016 tons x 2,000 lbs/ton
3,716,032,240 lbs

D = 365 days

C_R = 855,635 Customers

C_C = 35,316 Customers

P_R = 2 People per customer

P_C = 26 People per customer

$$PCG = \frac{W}{D(C_R P_R + C_C P_C)}$$

$$= \textbf{3.74 lbs/day}$$