Humboldt County
Solid Waste Local Task Force

Cities of:
Arcata
Blue Lake
Eureka
Ferndale
Fortuna
Rio Dell
Trinidad

County of Humboldt

Humboldt Waste Management Authority

The Humboldt County Local Task Force serves in an advisory capacity to individual agencies and the HWMA towards the implementation of the integrated management of solid wastes and recyclables.

The Local Task Force is also responsible for assisting in the coordination, review and implementation the county and cities 5-Year CIWMP Report.

Agenda

Monday, October 12, 2020 (9am-10:30am)
Virtual Meeting-Zoom Link:
https://us02web.zoom.us/j/6975413022

***Copies Available**: Copies of the agenda materials are available electronically upon request by emailing dwood@ci.eureka.ca.gov*

1. **Call to order**

2. **Introductions/Roll Call**

3. **January 9, 2020 Minutes (attached) –** *Approval*

4. **Jurisdiction Representative Reports-** *Review and discuss*

5. **Election of Chair and Vice Chair**

6. **Discuss Updates to Member Composition of SWLTF**

7. **Receive Preliminary Waste Characterization Report (attached)**

8. **Oral and Written Communications**
   This time is provided for people to address the Task Force or to submit written communications concerning matters not on this agenda. Task Force Members may respond to statements, but any request that requires action will be referred to appropriate agency staff for review. Reasonable time limits may be imposed on both the total amount of time allocated for this item, and on the time permitted to each individual speaker. Such time allotment or portion thereof shall not be transferred to other speakers.

9. **Adjournment**

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Meeting Minutes
Thursday, January 9, 2020 (9am-10am)
Adorni Center Conference Room (1011 Waterfront Dr.)

Local Task Force Representatives:

Arcata	Julie Neander
Blue Lake	Not Present
Eureka	Miles Slattery
Ferndale	Jay Parrish
Fortuna	Kevin Carter
Humboldt Co.	Charlotte Merkel
Trinidad	Eli Naffah
Rio Dell	Kyle Knopp
HWMA	Jill Duffy

Members of the Public – Leslie Castellano, Zero Waste Humboldt, CalRecycle, County of Humboldt Environmental Health, and Recology, staff were present.

Meeting was called to order by Miles Slattery at 9:00am, with introductions by all attendees.

10. Call to order

11. Introductions/Roll Call

12. July 11, 2019 Minutes (attached) – *Approval*

Summary – No Comments

Motion/Second – Kevin/Kyle

Public Comment - NA

Vote – Passed Unanimously (Jay Abstained)

13. Jurisdiction Representative Reports- *Review and discuss*

Trinidad: No Report

Eureka: Still in process of writing ZWAP, also created a recycling contamination campaign which has held off on launching until taken to LTF. Has been surveying for ZWAP and held successful event at Recology facility.

Rio Dell: In the process of looking into the viability of mandatory universal pickup. Needs neighbor jurisdictions to join to make it more affordable. Fortuna said they are looking into it and taking it to council. Ferndale also said they are interested. Eureka and Arcata offered their mandatory ordinances as examples for them to base their off of

Arcata: Just wrapped up Zero Waste take force which was helping prioritize actions, education, and behavior change. Also seeking partnerships like the LTF, HSU and more. Also chipping away at the Food Waste grant to recover foods from businesses. They are also working with HWMA to reign in green waste system. Currently anyone can drop off at Wes Green and it might be being taken of advantage of by certain people. They want to keep it convenient so considering free drop off still but limiting quantity. They are still piloting their earth bins by composting food waste from city facilities. Also updated on their single use packaging ordinance and council is deciding on what types of limitations they prefer. They did some outreach to businesses and while low turnout they received different views from them. There are options to charge a fee for single use or make it voluntary. Utensils and hot drinks will likely be exempt due to costs with eco friendly replacements. Concerns with Crabs games due to their revenue from snack shack and they want to balance negative economic impacts. They will share draft ordinance for LTF reference. They are also looking into C&D education and coordinate with builders to divert more. It could be an economic development promotion because jurisdictions don't have the capacity to fully manage these issues.

Humboldt County: Still working on Redway Transfer station remodel. In the engineering phase and will break ground after rain.

Fortuna: No Report

Ferndale: No report

14. Recycling Contamination Regional Approach

Eureka proposes a regional approach to recycling contamination. They have created a new oops tag for Recology to use when customers have an issue with their bin. Also created a PSA to launch the campaign and shared a desire for radio and tv ads to complement. Will also utilized social media more regularly. New website is a landing resource too at HumboldtRecycles.com

Arcata expressed they liked it. HWMA mentioned books are a big issue right now. Recology likes centralized communication to the public. Arcata wants to see clean on the tags and ZWH recommended there is a prompt on the tag to tell the person to turn it over

due to it being double sided. Everyone discussed the issue of electronics in recycling bins and tanglers. Recology said they see more tanglers than e-waste and people seem to be better understanding where e-waste goes. Recology also discussed simple is better on the tags. Leslie recommended a spot where books could slip in on the tatg. Arcata asked about website and phone number on front side. HWMA recommended reformatting extra blurb below images to read better. Miles brought up inconsistency with color of bins in McKinleyville from Humboldt Sanitation. HWMA said this it 10 yrs out from being done due to costs. Arcata wants to be part of social media education and is going to hook up with Eureka to discuss. It was also recommended that the website include a list of coalition members. Also the need to promote reduce before recycle. County expressed they have no social media at the moment. Eureka gave props to Linda for the educational event in November of last year and over 100 people showed up genuinely interested to learn about recycling. HWMA mentioned they did a similar thing last year with their staff to better empower them to educate the public. Recology discussed how their tag system works. Drivers notice contamination with the camera when tipping or visually when lids are left open. They get hundreds of oops tags regularly. Eureka shared that Recology ordered 625 new recycling bins and included an IMR molded label with instructions on acceptable materials. A control group to launch would be helpful but that would be more costly than putting them out as bins need to be replaced. CalRecycle shared that SB 1383 will require signage on bins come 2025 and after that color coded bins. HWMA has a power point about compliance and recommends member use it to present to their council to get them ready for changes. Eureka is going to make recommended changes to oops tag and email to group. Eureka asked CalRecycle whether there would be grant funding to help cities comply with the mandates he shared. He said it is likely. Eureka also asked about food waste compliance, CalRecycle recommended to start planning so at the least cities can show they are working towards being complainant. CalRecycle does presentation to gov. bodies, headed to a Del Norte BOS and says we can always take him up on that offer.

15. Compliance Issues (CRV, Plastic Bags & Straws, Contamination etc.)

a. Review CalRecycle compliance (attached)

Refer to attorney general for compliance issues. If a city doesn't have a local ordinance of the same caliber, there is no legal enforcement on local level.

16. Zero Waste Concept Proposal (attached)

a. Zero Waste Goal Resolution – *Review and discuss*

No resolution today. HWMA had some staffs personal issues which held up the process. Recommends group develop resolution together. ZWH said they want to help. Eureka will share content as they develop their own ZWAP. Arata will share their ZWAP documents and research.

17. HWMA Report

Recology is presenting to HWMA tonight and everyone is welcome to come. Waste characterization is moving forward and Fortuna is back in. The more involved the easier it will be. Going to do a winter and summer sample and will follow same system as 2012 characterization for consistency. Christmas trees still being recycled for free. Gift wrap has been an issue and recommended education campaign next year. HWMA is looking at stopping charges for e-waste unless very large quantity. Expanded paint care to include hazardous waste that can still be used. ZWH and Eureka want to promote.

18. Oral and Written Communications

This time is provided for people to address the Task Force or to submit written communications concerning matters not on this agenda. Task Force Members may respond to statements, but any request that requires action will be referred to appropriate agency staff for review. Reasonable time limits may be imposed on both the total amount of time allocated for this item, and on the time permitted to each individual speaker. Such time allotment or portion thereof shall not be transferred to other speakers.

Maggie Gainer from ZWH: Participation on LTF is important to ZWH they are wondering how they can be more involved. Maybe they could be a non-voting member?
Jill: LTF created its own resolution outlining how LTF seats and voting works. Task force has the ability to update the resolution to modify who can be a member and then vote to see if it passes.
Maggie: Other county's typically have non-profit stakeholders on the LTF
Miles: suggests we add the topic to the next agenda to discuss and vote on making a change to member composition guidelines
Jill: Keep in mind changing member composition can affect the quorum which had issues in the past.
Julie: does ZWH need to be a voting member to be effective?
Decision is to discuss more at next meeting and to make next meeting 1.5 hours long.

Correction added 1/24/20 per Jill Duffy of HWMA: "The LTF can make recommendations in either staff report or draft resolution to the majority of county jurisdictions to amend membership. Public Resource Code Section 40950 says the membership is to be determined by the county and a majority of the cities within the county which contain a majority of the population of the incorporated area. Proposed membership amendments may be considered by the Local Task Force upon the circulation of recommended amendments to the County and member jurisdictions. The (approved) membership amendments would then be forwarded to the Humboldt County Board of Supervisors for approval. "

~~The LTF does not have the authority to approve membership modification, but to recommend to the individual jurisdictions to modify.~~

LEA: Wants a regional approach to abatement issues and plans to bring more info to next meeting.

19. Adjournment

Meeting was called to adjourn by Miles Slattery at 10:20am

HUMBOLDT WASTE MANAGEMENT AUTHORITY WASTE CHARACTERIZATION STUDY

PRELIMINARY REPORT (SEASON ONE)

SEPTEMBER 2020

CASCADIA CONSULTING GROUP

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Table of Contents

Table of Figures

Table of Tables

Project Overview

INTRODUCTION

To obtain data about the composition of disposed solid waste, the Humboldt Waste Management Authority (HWMA) hired Cascadia Consulting Group (Cascadia) to characterize the disposed waste streams from five Humboldt County cities and all of the unincorporated areas of the county (collectively, the Members). The findings from this study are intended to provide information about the quantities and types of currently disposed materials. They will inform solid waste planning efforts by identifying recycling and other diversion opportunities and measuring successes against the baseline data collected in 2010[1].

The study's overall objectives are to provide:

- Current composition and quantity data.
- A comparison to the 2010 composition data[2].
- Additional detail on disposed food waste and other organics to help plan for the goals set in AB 1826 (Organics Diversion) and SB 1383 (Short-Lived Climate Pollutants).

This study was originally planned for two study seasons (winter and summer). The first season occurred February 4-12, 2020. Due to COVID-19, the second season, which was originally planned for June 2020, is postponed until 2021. This preliminary report includes the results from season one only. It is organized into the following sections: Project Overview, Data Analysis, and Results. In addition, this document includes appendices containing the study design, a detailed material list, example field forms, and detailed results.

SAMPLING UNIVERSE

The first step in planning a waste characterization study is to identify and carefully define the waste streams and sectors, or the "universe" of waste, to be studied. The sampling universe for this study includes a single waste stream generated by four distinct sectors from the six Members of the HWMA.

Streams

A stream is determined by the generation, collection, or composition characteristics that make it a unique portion of the total waste stream.

- **Garbage**: Materials placed in containers that are normally hauled to a landfill with minimal or no processing.

Sectors

A sector describes the source, or generator, of the disposed waste stream.

[1] Humboldt County Waste Characterization Report (March 2012)

[2] A comparison to the 2010 composition data will be included in the final report following the second season of fieldwork.

- **Residential**: Waste from single-family homes or small complexes collected on a designated residential route. This may include small amounts of waste from very small commercial generators (businesses with cart service instead of dumpster service).
- **Commercia**l: Waste from non-residential properties including businesses, industries (e.g. factories, farms), and/or institutions (e.g. correctional facilities, hospitals, churches) collected on a designated commercial route. This may include multifamily residential waste.
- **Combined**: Waste from residential and commercial properties that is collected and disposed as a single load. In this study, combined waste loads were generated by Willow Creek (Unincorporated County) and Blue Lake. For the purposes of this study, the combined waste stream is treated as an independent sector.
- **Self-haul**: Waste from generators that transport their own materials from a residence or business to a transfer station rather than using commercial hauling services.
- **Construction and Demolition**[3]: Waste produced during the construction, renovation, and/or demolition of buildings or structures that is received at a transfer station. This includes self-haul materials as well as materials hauled by certified or franchised waste haulers.

HWMA Members

- City of Arcata
- City of Blue Lake
- City of Eureka
- City of Ferndale
- City of Rio Dell
- Unincorporated Humboldt County

SAMPLE ALLOCATION AND SCHEDULE

Cascadia collected a total of 96 samples of residential, commercial, and self-haul garbage from HWMA Members during season one of fieldwork. The number of samples allocated to each Member was linked to its relative population.

Cascadia achieved the total target number of samples planned for season one, but the sample allocation varied slightly from the original plan. Due to limited traffic of self-haul vehicles from Rio Dell and Ferndale at the Hawthorne Street Transfer Station, the field crew increased samples from self-haul loads originating from unincorporated County than initially planned to reach sample number targets. The sampling plan for season two will be adjusted to correct for any imbalances in the overall sampling plan. The number of samples planned for each Member and sector and the actual number of samples collected is summarized in Table 1.

[3] The Construction & Demolition sector sampling is planned exclusively for the second season (during the summer when construction activity is greater) and is not included in the findings of the preliminary report.

Table 1. Sample Targets and Actuals

	Commercial		Residential		Combined		Self-haul		Total	
	Allocated	Actual	Allocated	Actual	Allocated	Actual	Allocated	Actual	Allocated	Actual
Arcata	13	13	5	5			6	6	**24**	**24**
Blue Lake City					5	5	3	3	**3**	**3**
Eureka	13	13	5	5			6	6	**24**	**24**
Ferndale	3	3	2	2			3	1	**8**	**6**
Rio Dell	3	3	2	2			3	2	**8**	**7**
Unincorporated County	11	11	4	4	3	3	6	9	**21**	**24**
Total	**43**	**43**	**18**	**18**	**8**	**8**	**27**	**27**	**96**	**96**

SUMMARY OF METHODOLOGY

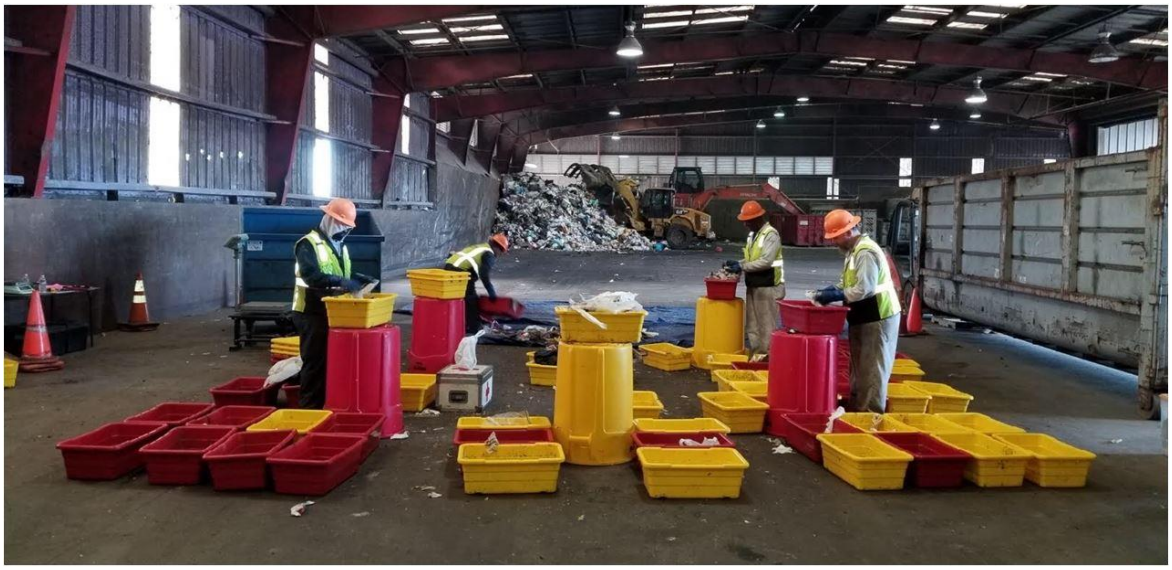
Commercial and Residential Loads

There are four haulers that serve the Members. Per the request by HWMA to minimize impacts on daily operations at participating transfer stations, Cascadia pre-selected loads to sample and worked with all haulers to redirect selected vehicles that normally tip at the Redway, Humboldt Sanitation, and Eel River (ERTS) transfer stations to tip at Hawthorne Street Transfer Station (HSTS) for sampling. When a pre-selected truck arrived at HSTS, the Vehicle Surveyor directed the vehicle to the tipping area for sample collection.

The field crew randomly extracted a 200-250-pound sample from each load and hand sorted it according to the following protocol:

- **Step 1: Review methodology and sorting categories with the crew.** Before the sorting begins, review the safety protocols, procedures, forms, and material definitions in detail.
- **Step 2: Photograph the sample.** Photograph the sample using a digital camera. The *Sample Placard* identifying the sample is positioned to be visible in each photo.
- **Step 3: Sort the sample.** Once the sample is placed on the sorting table, the field crew sorts material by hand into the prescribed material categories in plastic baskets. Individual members of the field crew typically specialize in groups of materials, such as papers or plastics. The Crew Lead monitors the accuracy of sorting, re-sorting any materials that are improperly classified. The complete list of material types and definitions are included in Appendix B. Material List.
- **Step 3: Weigh the sample.** Verify the purity of each material as it is weighed using a pre-tared scale and recorded the data on the *Material Weight Tally Sheet*.
- **Step 4: Review Data.** At the conclusion of each fieldwork day, the conduct a quality control review of the data recorded.

Figure 1. Hand Sorting Process



Self-haul Loads

Cascadia's field crew characterized self-haul loads on-site during the first two days of fieldwork (Feb. 4-5) at Humboldt Sanitation and ERTS. At HSTS, the field crew characterized self-haul samples evenly across all days of the study weeks. The field crew used a systematic sampling system to ensure accurate representation of self-haul loads. When an eligible vehicle arrived at the scale house and was selected for characterization, the Vehicle Surveyor directed the vehicle to the tipping area.

Self-haul samples were usually visually characterized. Since these loads are typically highly stratified and heterogeneous, the visual characterization method considers the entire load to produce more representative findings than hand sorting a 200–250 lb. sample. The visual characterization method follows the eight steps described below:

- **Step 1: Collect information about the load.** At the sampling area, record key information, including the net weight and jurisdiction of origin for each self-hauled load.
- **Step 2: Measure load volume.** Use a tape measure to obtain the length, width, and height of the load while it is still in the vehicle and record it on the data sheet.
- **Step 3: Photograph the sample.** Using a digital camera, take a photograph after each sample is tipped. The sample placard that identifies each sample is positioned so it is visible in each photograph.
- **Step 4: Note which material classes are present.** Walk entirely around the load and indicate on the *Visual*

Figure 2. Self-haul Sample

Characterization Form which major material classes are present in the load.

- **Step 5: Estimate composition by volume for each major material class.** Beginning with the largest major material class present by volume, estimate the volumetric percentage of the material class and record it on the form.
- **Step 6: Estimate composition by volume for each specific material component.** Consider each major material class separately and estimate the percentage of each major class that is made up of each specific material component.
- **Step 7: Check and reconcile percentage data.** Ensure that the percentage estimates for the major material classes add up to 100 percent. Also, the percentage estimates for the specific material components within each major class must total 100 percent.
- **Step 8: Convert volume estimates to weight estimates.** This step is done at Cascadia's offices after fieldwork is completed. Data from the *Visual Characterization Forms* were entered into a customized database and accepted density conversion factors were used to develop estimates of the weight of each material component in each load.

If self-haul samples contained a significant amount of mixed household trash, they were hand-sorted according to the protocol described above in the Residential and Commercial Loads section.

A detailed description of the study methodology can be found in Appendix A. Study Design.

Data Analysis

METHOD FOR OBTAINING TONNAGE DATA

To complete the analysis, HWMA provided annual tonnage estimates for its member agencies. The annual tonnages for each jurisdiction and sector are detailed in Table 2.

Table 2. Annual Tonnages

Member	Sector	Tons
Arcata	Commercial	4982.4
Arcata	Residential	3199.6
Arcata	Self-haul	1955.8
Blue Lake City	Combined	580.5
Blue Lake City	Self-haul	137.6
Eureka	Commercial	11046.3
Eureka	Residential	6825.6
Eureka	Self-haul	14421.6
Ferndale	Commercial	365.4
Ferndale	Residential	355.9
Ferndale	Self-haul	578.3
Rio Dell	Commercial	501.1
Rio Dell	Residential	484.6
Rio Dell	Self-haul	847.4
Unincorporated County	Combined	767.8
Unincorporated County	Commercial	12304.4
Unincorporated County	Residential	11736.0
Unincorporated County	Self-haul	19637.7
HWMA Member Total ***(included in report)***		**90,728**

INTERPRETING THE RESULTS

The findings of this study present characterization results (by weight) as follows:

1. A bar chart presents the material composition by Recoverability Group.
2. A bar chart presents an overview of material composition by **Material Class**.
3. A table lists the ten most prevalent *material types*.
4. A detailed table lists the full composition and quantity results for the *material types* of each stream.

Note that the Results section presents the two bar charts and the top ten tables. The detailed compositions are included in Appendix D. Detailed Results. The definitions of material types and their **Material Class** designations are included in Appendix B. Material List.

Percent Composition and Error

Cascadia conducted statistical analyses on the data from the material characterization process to provide two pieces of information for each material type:

- The estimated percent composition of waste by weight.
- The error range for the composition estimates at the 90 percent confidence level.

Material Designations

For clarity, broad material classes such as **Plastic** and **Paper** are bolded and capitalized while material types such as *paper bags* and *carpet* are italicized.

The example in Table 3 below illustrates how the results can be interpreted. The best estimate of the amount of *food – not donatable* present in the overall waste stream is 10.4 percent. The 3.6 percent figure reflects the degree of precision of the estimate. When calculations are performed at the 90 percent confidence level, we are 90 percent certain that the true mean for *food –not donatable* is between 10.4 percent plus 3.6 percent and 10.4 percent minus 3.6 percent. In other words, we are 90 percent certain that the true mean lies between 6.8 percent and 14.0 percent.

Table 3. Example Percent Composition and Error Range

Material	Est. %	+ / -
food – not donatable	10.4%	3.6%

Rounding

When interpreting the results presented in the tables and figures in this report, it is important to consider the effect of rounding. To keep the waste composition tables and figures readable, estimated tonnages are rounded to the nearest ton, and estimated percentages are rounded to the nearest tenth of a percent. Due to rounding, the tonnages or percentages presented in the report, when added together, may not exactly match the subtotals and totals shown. Percentages less than 0.05 percent are shown as 0.0 percent even though there may be weights associated with the material.

Recoverability Groups

To identify additional diversion opportunities, material types were classified according to their recoverability, using five Recoverability Groups[4]:

- **Recoverable Paper:** Paper materials for which recycling technologies, programs, and markets are well developed, readily available, and currently utilized.
- **Other Recoverables**: Other, non-paper materials (plastic, metal, and glass) for which recycling technologies, programs, and markets are well developed, readily available, and currently utilized.

[4] These groups were developed by HWMA to ensure they matched current programs.

- **Compostable/Potentially Compostable:** Organic materials typically accepted for use in commercial compost or digestion systems.
- **Potentially Recoverable:** Materials for which recycling technologies, programs, and markets exist, but are either not well developed or not currently utilized. Examples include *used oil filters*, and *carpet*.
- **Problem Materials:** Materials that are not readily recyclable or face other market-related barriers. The HWMA has diversion programs in place to handle many of the problem materials. An example problem material is *plastic trash bags*.

Figure 3 shows how material types are categorized into Recoverability Groups.

Figure 3. Material Types by Recoverability Group

Recoverable Paper	Potentially Recoverable	Problem Materials
Uncoated Corrugated Cardboard	Paper Cups - Not Compostable	Remainder/Composite Paper
Paper Bags	Plastic Grocery and Other Merchandise Bags	Single-Use Expanded Polystyrene Food Service Items
Other Recyclable Paper	Non-Bag Commercial and Industrial Packaging Film	#3-#7 Other Containers
	Used Oil Filters*	Plastic Trash Bags
Other Recoverables	Manures	Film Products
PETE Water Bottles	Textiles - Organic	Other Film
Other PETE Containers	Textiles - Synthetic	Other Non-Recyclable Rigid Plastic
HDPE Containers	Carpet**	Remainder/Composite Plastic
Rigid Plastic Drip Lines	Concrete	Flat Glass
Other Recyclable Rigid Plastic	Asphalt Paving	Remainder/Composite Glass
Clear Glass Bottles and Containers	Asphalt Composition Shingles	Remainder/Composite Metal
Green Glass Bottles and Containers	Clean Dimensional Lumber*	Animal Carcasses
Brown Glass Bottles and Containers	Clean Engineered Wood	Remainder/Composite Organic
Other Colored Glass Bottles and Containers	Clean Pallets and Crates*	Roofing Tar Paper/Felt
Tin/Steel Cans	Other Wood Waste*	Roofing Mastic
Major Appliances	Clean Gypsum Board	Built-Up Roofing
Other Ferrous	E-waste**	Other Asphalt Roofing Material
Aluminum Cans	Mattresses**	Painted/Demolition Gypsum Board
Other Non-Ferrous	Vehicle and Truck Tires*	Rock, Soil and Fines
Mixed Recoverable Metal		Remainder/Composite Inerts and Other Household Hazardous Waste*
Compostable/Potentially Compostable		Ash
Waxed Corrugated Cardboard		Treated Medical Waste
Paper Cups - Compostable		Bulky Items
Compostable Paper		Other Tires
Compostable Plastics		Remainder/Composite Special Waste
Food - Potentially Donatable		Mixed Residue
Food - Not Donatable		
Leaves and Grass		
Prunings and Trimmings		
Branches and Stumps		

** Potentially recoverable and problem materials are typically difficult to recover or recycle. HWMA has programs to recover clean wood, sharps, and other materials marked with an asterisk.*

*** Collected and diverted for recycling/recovery thru the Carpet Recycling, Mattress Recycling and Recovery, and e-waste collection programs*

Results

This section describes the composition and recoverability of HWMA's overall disposed waste stream and of the disposed waste stream from each Member. The findings present preliminary results from data collected during season one of fieldwork. Composition and quantity data for each of the individual Members and sectors are included in Appendix D. Detailed Results.

OVERALL DISPOSED WASTE

The overall waste composition is the weighted average of all 96 samples disposed by all Members during season one of fieldwork. As shown in Figure 4, approximately two thirds (70%) of the material was composed of Recoverable (Recoverable Paper or Other Recoverables) or Potentially Recoverable material types. Twenty-eight percent of the overall disposed waste was considered Compostable/Potentially Compostable, 11 percent was Recoverable Paper, and 13 percent was Other Recoverables.

Figure 5 presents the overall composition by material class. One third (32%) of the overall material was **Other Organic**, 20 percent was **Paper,** and 14 percent was **Inerts and Other**. *Food – not donatable* (16.8%) was the most prevalent material type followed by *other recyclable paper* (6.8%), and *compostable paper* (5.8%) (Table 4).

Figure 4. Overall Composition by Recoverability Group

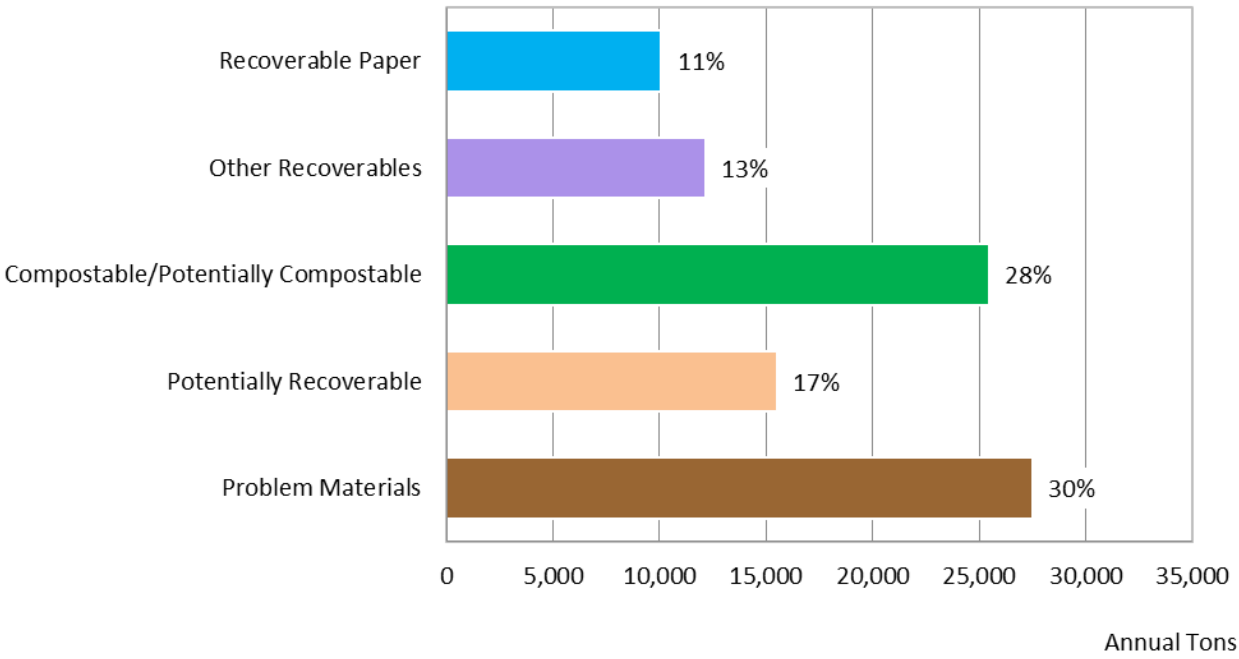


Figure 5. Overall Composition by Material Class

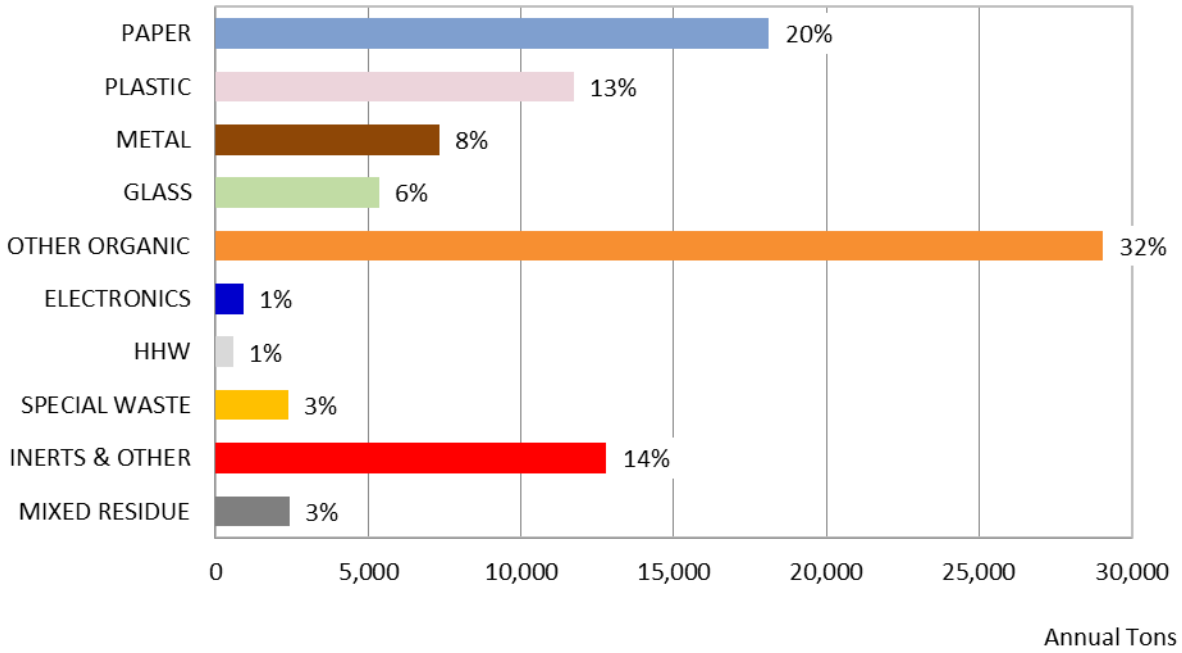


Table 4. Ten Most Prevalent Materials, Overall

Material	Est. Percent	Est. Tons
Food - Not Donatable	16.8%	15,263
Other Recyclable Paper	6.8%	6,157
Compostable Paper	5.8%	5,221
R/C Organic	5.4%	4,881
Textiles - Organic	4.1%	3,724
Other Ferrous	3.9%	3,525
Other Wood Waste	3.8%	3,464
Other Film	3.6%	3,268
Uncoated Corrugated Cardboard	3.6%	3,235
Rock, Soil, and Fines	3.3%	3,038
Total for Top Materials	**57.1%**	**51,775**

RESULTS BY SECTOR

Residential

The overall residential waste composition is the weighted average of 18 samples collected during season one of fieldwork. As shown in Figure 6, over half (62%) of the material was composed of recoverable or potentially recoverable material types. Approximately 36 percent of the overall residential disposed waste was considered Compostable/Potentially Compostable, 10 percent was Recoverable Paper, and 8 percent was Potentially Recoverable.

Figure 7 presents the overall composition by material class. Nearly one half (45%) of the overall material was **Other Organic**, 23 percent was **Paper,** and 15 percent was **Plastic**. *Food – not donatable* (23.1%) formed nearly one quarter of the waste and was the most prevalent material type, followed by *r/c organic* (13.9%), and *compostable paper* (8.8%) (Table 5). The ten most prevalent material types formed nearly 80 percent of the overall composition.

Figure 6. Overall Composition by Recoverability Group, Residential

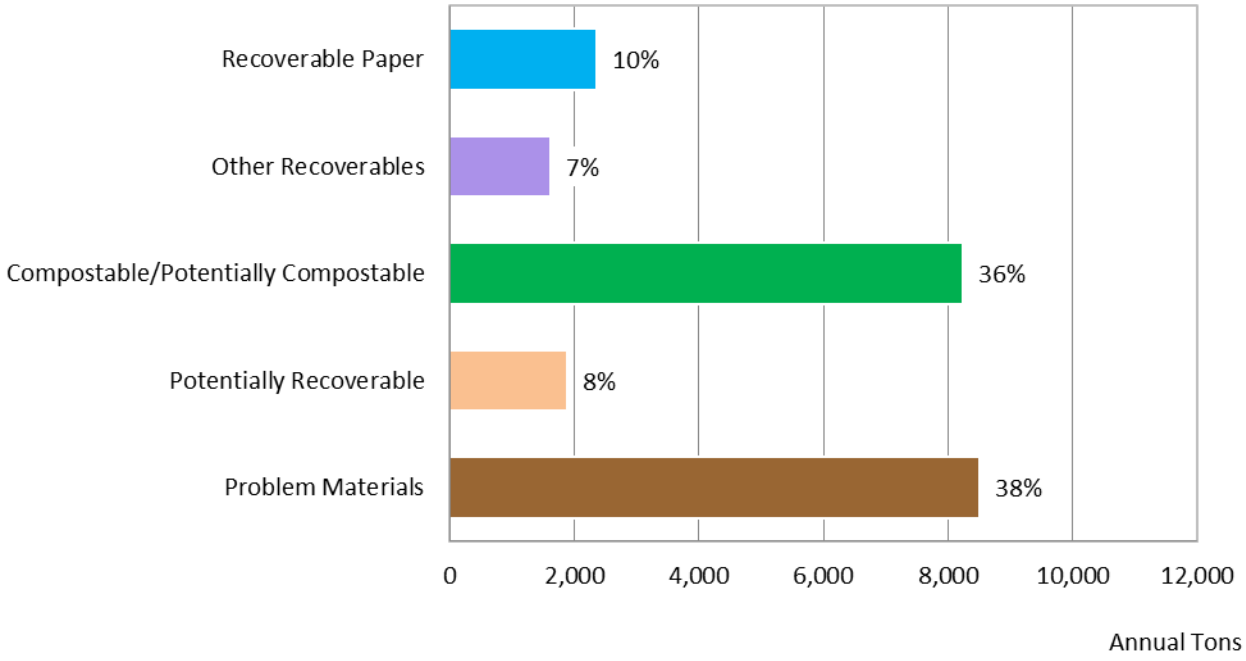


Figure 7. Overall Composition by Material Class, Residential

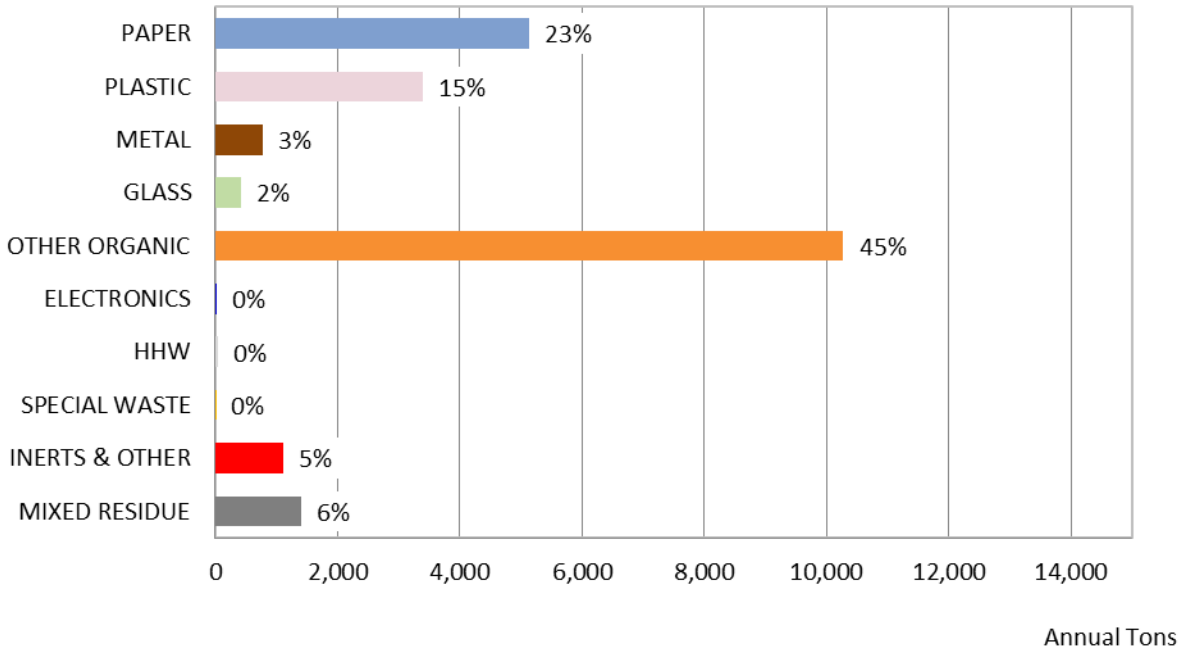


Table 5. Ten Most Prevalent Materials, Residential

Material	Est. Percent	Est. Tons
Food - Not Donatable	23.1%	5,214
R/C Organic	13.9%	3,140
Compostable Paper	8.8%	1,989
Other Recyclable Paper	8.4%	1,891
Mixed Residue	6.2%	1,406
Other Film	5.4%	1,226
Textiles - Organic	4.0%	910
R/C Paper	3.3%	739
Plastic Trash Bags	2.9%	664
Food - Potentially Donatable	2.5%	573
Total for Top Materials	**78.5%**	**17,751**

Commercial

The overall commercial waste composition is the weighted average of 43 samples collected during season one of fieldwork. As shown in Figure 8, approximately two thirds of the material was composed of recoverable or potentially recoverable material types. Approximately one third (35%) percent of the commercial disposed

waste was considered Compostable/Potentially Compostable, 14 percent was Potentially Recoverable, and Recoverable Paper and Other Recoverables each made up 12 percent.

Figure 7 presents the overall composition by material class. One third (35%) of the overall material was **Other Organic**, 24 percent was **Paper,** and 18 percent was **Plastic**. *Food – not donatable* (20.6%) was the most prevalent material type followed by *compostable paper* (8.2%), and *other recyclable paper* (6.6%) (Table 6).

Figure 8. Overall Material Composition by Recoverability Group, Commercial

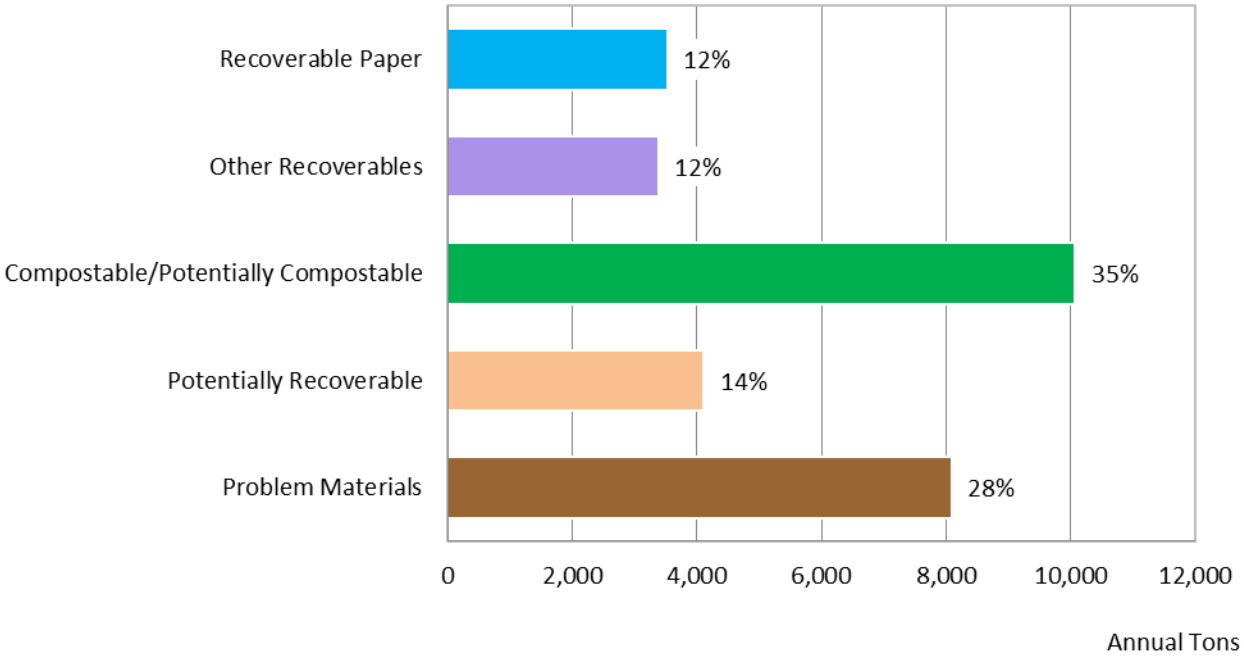


Figure 9. Overall Material Composition by Material Class, Commercial

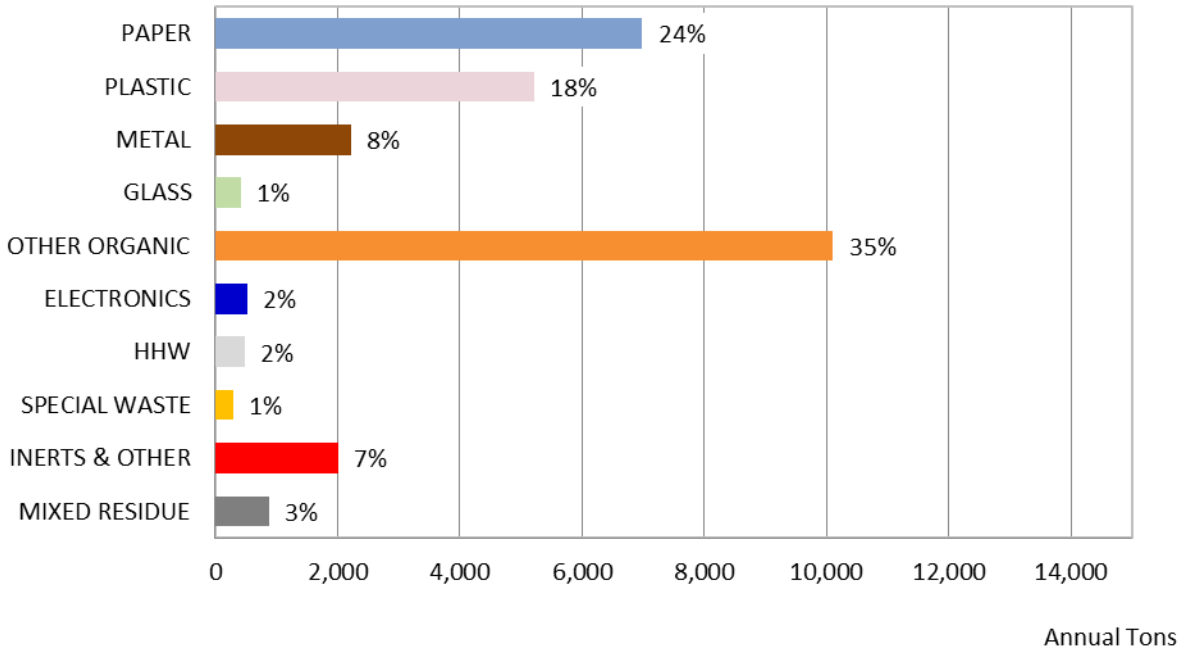


Table 6. Ten Most Prevalent Materials, Commercial

Material	Est. Percent	Est. Tons
Food - Not Donatable	20.6%	6,003
Compostable Paper	8.2%	2,387
Other Recyclable Paper	6.6%	1,921
Other Film	5.3%	1,541
Uncoated Corrugated Cardboard	4.8%	1,399
R/C Organic	4.8%	1,391
Other Ferrous	4.1%	1,203
Textiles - Organic	3.2%	926
Plastic Trash Bags	3.1%	903
Mixed Residue	3.0%	884
Total for Top Materials	**63.6%**	**18,558**

Combined

The overall combined (mixed residential and commercial) waste composition is the weighted average of 8 samples collected during season one of fieldwork from Blue Lake and Willow Creek (Unincorporated County). As shown in Figure 10, approximately two thirds (65%) of the material was composed of recoverable or potentially recoverable material types. Approximately 36 percent of the overall combined disposed waste was

considered Compostable/Potentially Compostable, 12 percent was Recoverable Paper, and 11 percent was Other Recoverables.

Figure 11 presents the overall composition by material class. One third (38%) of the overall combined material was **Other Organic**, 28 percent was **Paper,** and **Plastic** made up 14 percent. *Food – not donatable* (20.3%) was the most prevalent material type followed by *r/c organic* (13.0%), and *compostable paper* (11.8%) (Table 7).

Figure 10. Overall Composition by Recoverability Group, Combined

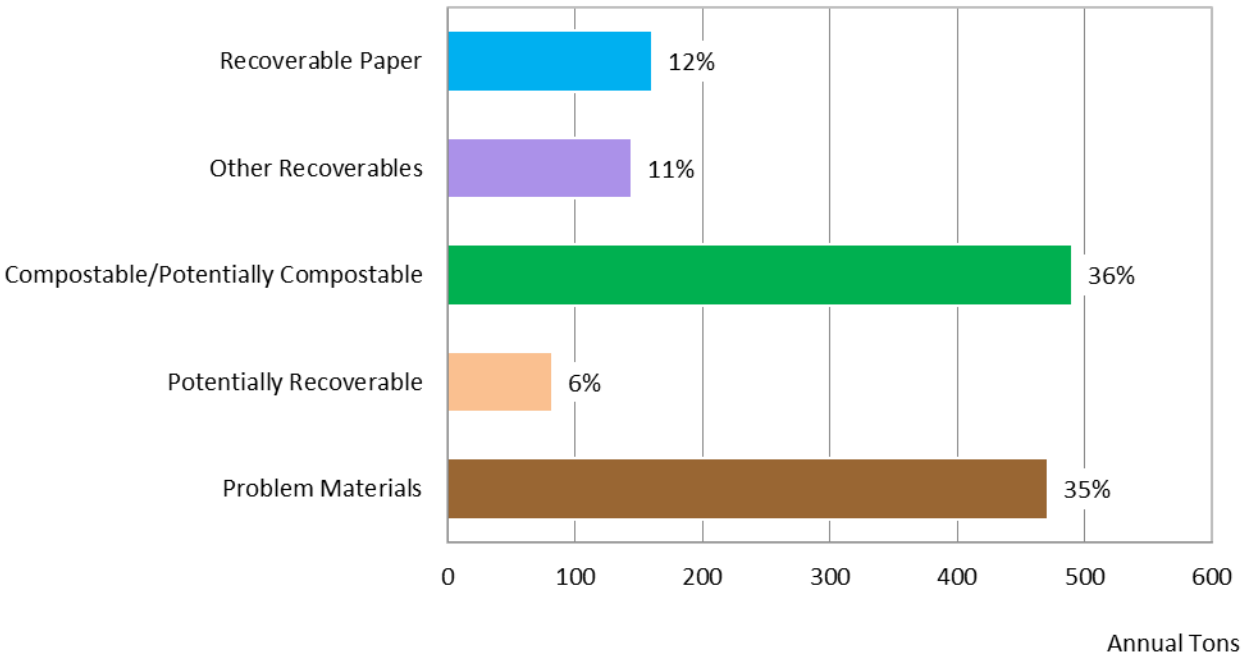


Figure 11. Overall Composition by Material Class, Combined

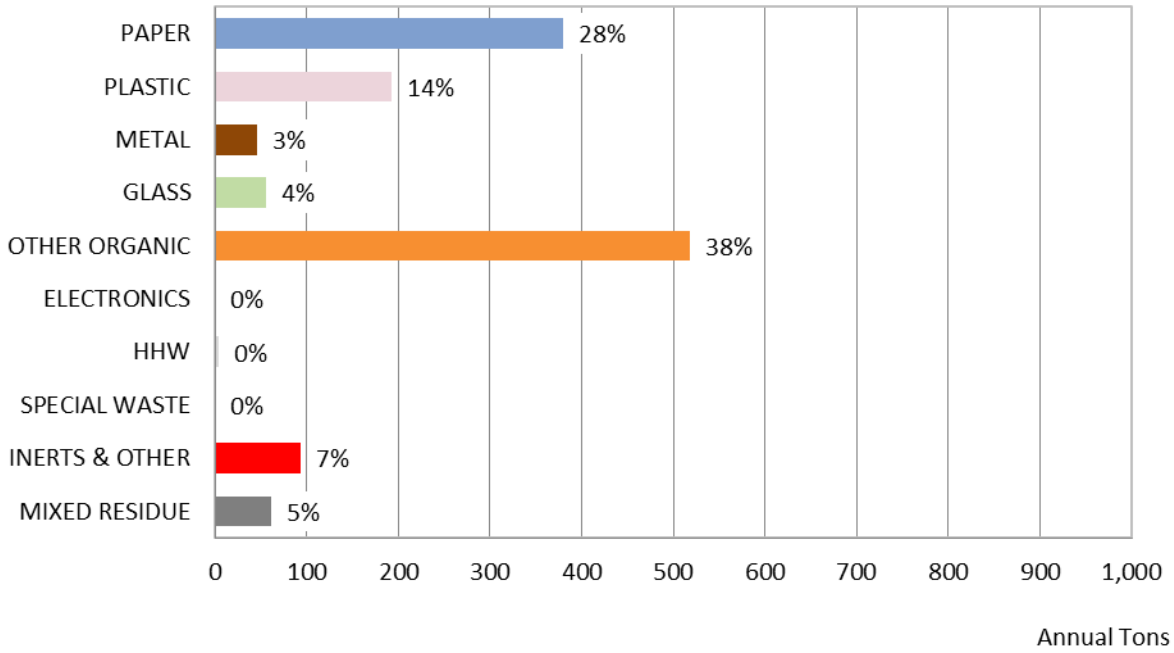


Table 7. Ten Most Prevalent Material Types, Combined

Material	Est. Percent	Est. Tons
Food - Not Donatable	20.3%	273
R/C Organic	13.0%	175
Compostable Paper	11.8%	158
Other Recyclable Paper	8.0%	108
Mixed Residue	4.5%	61
Other Film	4.2%	57
Rock, Soil, and Fines	3.5%	48
Clear Glass Bottles Containers	3.3%	44
PETE Water Bottles	2.7%	15
PETE Water Bottles	2.7%	15
Total for Top Materials	**73.9%**	**953**

Self-Haul

The overall waste composition from self-haul sources is the weighted average of 27 samples collected during season one of fieldwork. As shown in Figure 12, nearly three quarters (72%) of the material was composed of recoverable or potentially recoverable material types. Approximately 25 percent of the self-haul disposed

waste was considered Potentially Recoverable, 19 percent was Other Recoverables, and 18 percent was Compostable/Potentially Compostable.

Figure 13 presents the overall self-haul composition by material class. One-quarter (25%) of the material was **Inerts & Other**, 22 percent was **Other Organic,** and 15 percent was **Paper**. *Food – not donatable* (10.1%) was the most prevalent material type, followed by *other wood waste* (7.4%), and *rock, soil, and fines* (7.1%) (Table 8).

Figure 12. Overall Composition by Recoverability Group, Self-haul

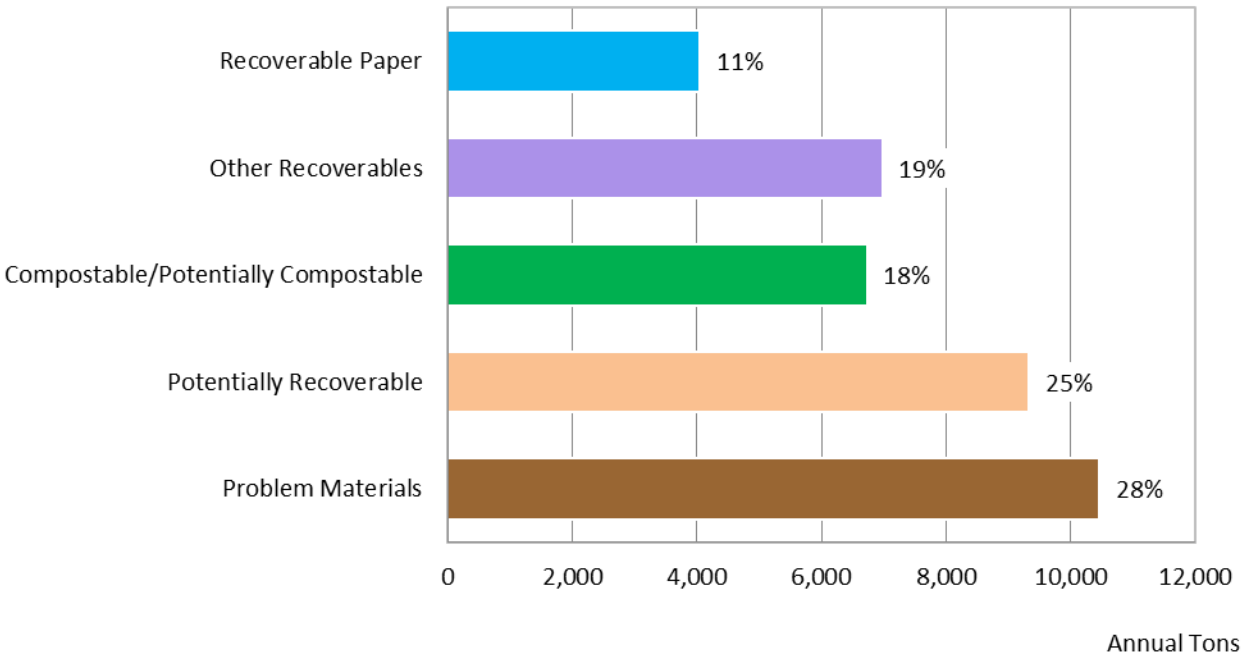


Figure 13. Overall Composition by Material Class, Self-haul

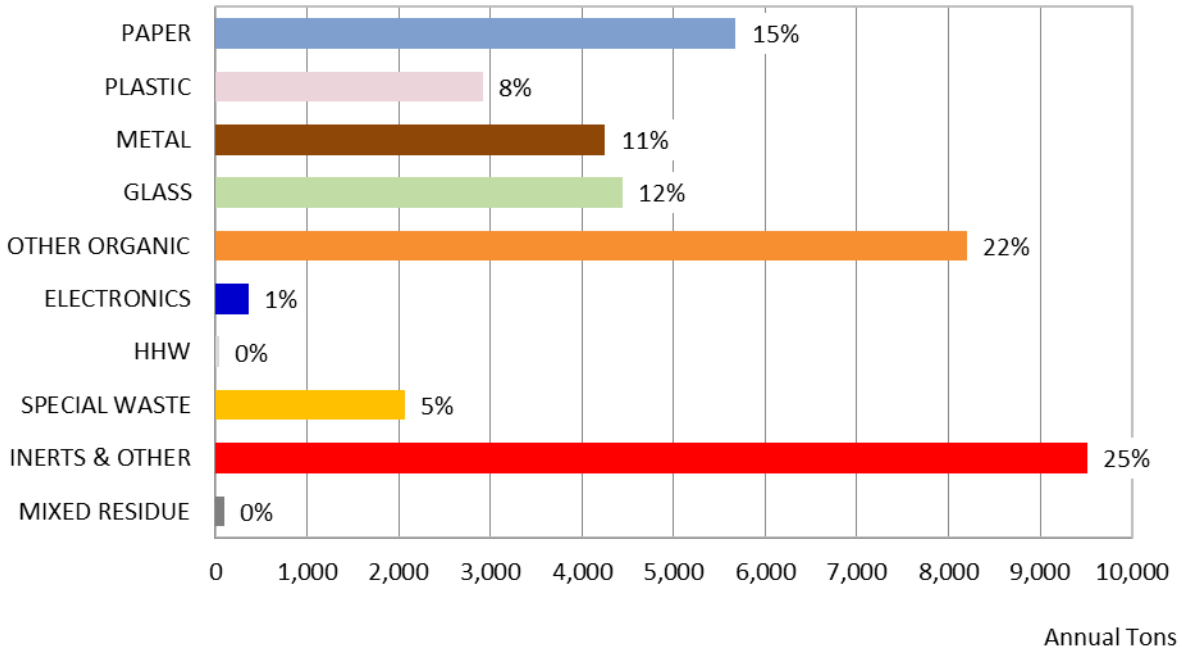


Table 8. Ten Most Prevalent Material Types, Self-haul

Material	Est. Percent	Est. Tons
Food - Not Donatable	10.1%	3,799
Other Wood Waste	7.4%	2,771
Rock, Soil, and Fines	7.1%	2,651
Clear Glass Bottles Containers	6.3%	2,376
Other Recyclable Paper	6.0%	2,246
Other Ferrous	5.7%	2,147
Bulky Items	4.9%	1,843
Textiles - Organic	4.9%	1,843
Flat Glass	4.8%	1,807
Uncoated Corrugated Cardboard	4.0%	1,508
Total for Top Materials	**61.2%**	**22,992**

RESULTS BY MEMBER

City of Arcata

The overall waste composition of the city of Arcata is the weighted average of 23 samples collected during season one of fieldwork. As shown in Figure 14, 24 percent of the overall disposed waste was considered Compostable/Potentially Compostable, 20 percent was Potentially Recoverable, and 15 percent was Recoverable Paper.

Figure 15 presents the overall composition by material class. One third (30%) of the overall material was **Other Organic**, 25 percent was **Paper,** and **Inerts & Other** and **Paper** each made up 15 percent. *Food – not donatable* (13%) was the most prevalent material type followed by *other recyclable paper* (9.2%), and *r/c organic* (8.1%) (Table 9).

Figure 14. Overall Composition by Recoverability Group, Arcata

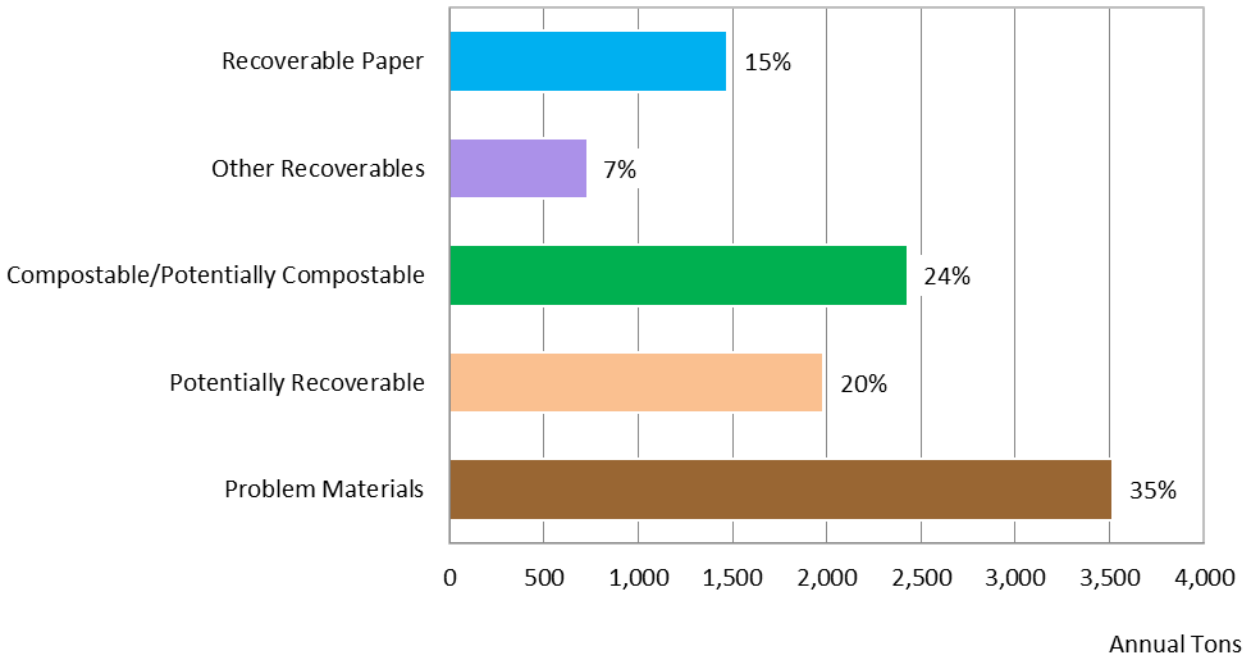


Figure 15. Overall Composition by Material Class, Arcata

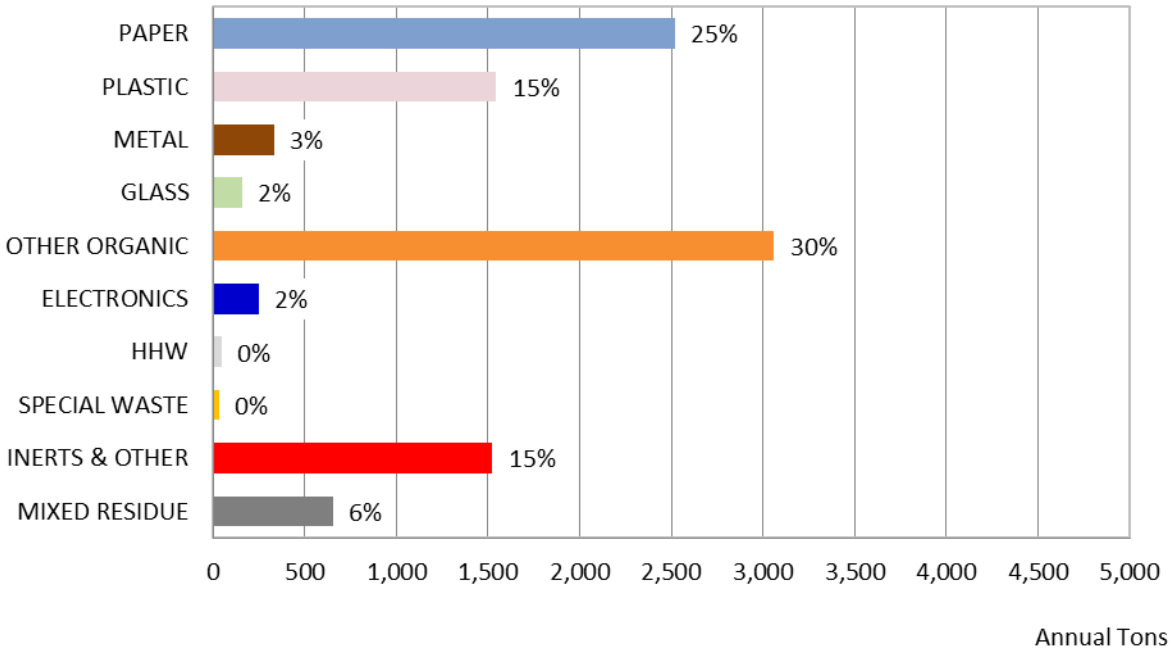


Table 9. Ten Most Prevalent Material Types, Arcata Overall

Material	Est. Percent	Est. Tons
Food - Not Donatable	13.0%	1,319
Other Recyclable Paper	9.2%	933
R/C Organic	8.1%	823
Compostable Paper	7.2%	727
Mixed Residue	6.5%	656
Textiles - Organic	5.4%	543
Other Film	5.0%	505
Uncoated Corrugated Cardboard	4.3%	437
Rock, Soil, and Fines	3.7%	373
Other Wood Waste	3.6%	366
Total for Top Materials	**65.9%**	**6,681**

City of Blue Lake

The overall waste composition of the city of Blue Lake is the weighted average of eight samples collected during season one of fieldwork. As shown in Figure 16, 29 percent of the overall disposed waste was considered Compostable/Potentially Compostable, 16 percent was Potentially Recoverable, and 14 percent was Other Recoverables.

Figure 17 presents the overall composition by material class. One third (31%) of the overall material from Blue Lake was **Other Organic**, 23 percent was **Paper,** and 17 percent was **Inerts & Other**. *Food – not donatable* (16.4%) was the most prevalent material type followed by *r/c organic* (10.5%) and *compostable paper* (9.5%) (Table 10).

Figure 16. Overall Composition by Recoverability Group, Blue Lake

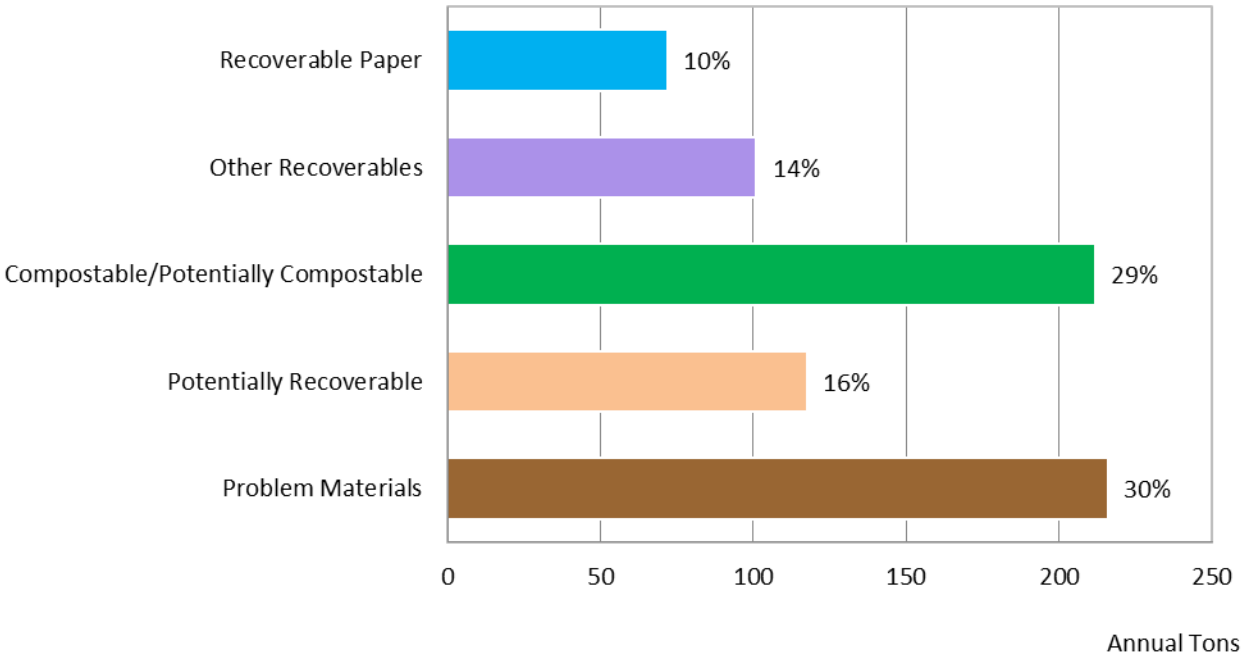


Figure 17. Overall Composition by Material Class, Blue Lake

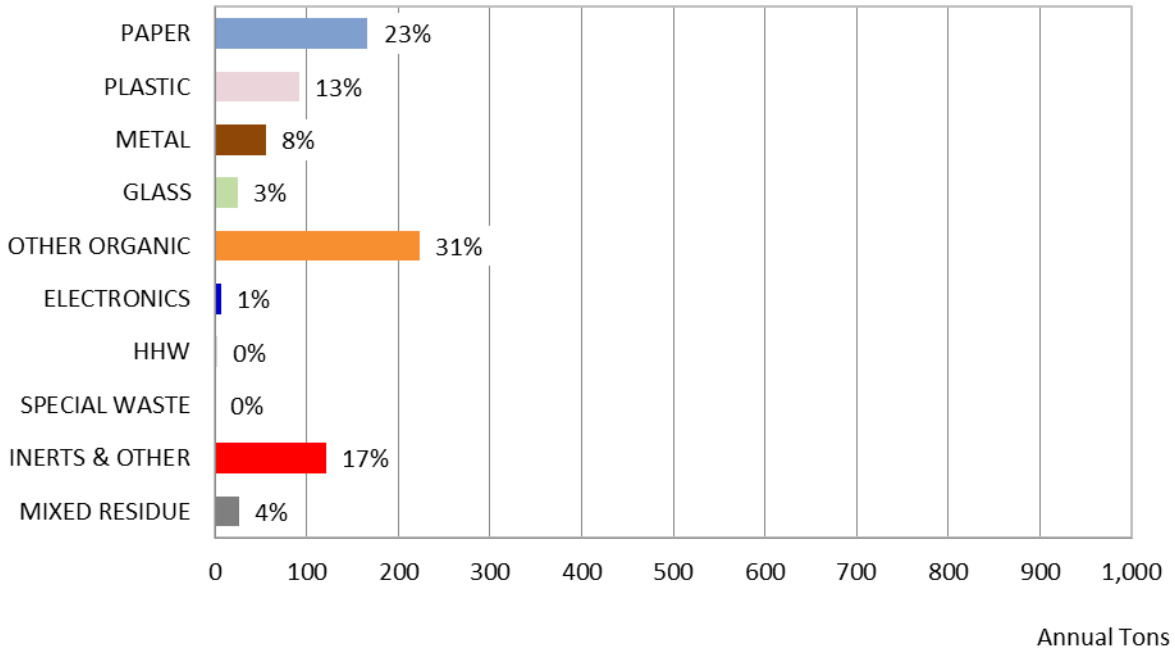


Table 10. Ten Most Prevalent Material Types, Blue Lake Overall

Material	Est. Percent	Est. Tons
Food - Not Donatable	16.4%	118
R/C Organic	10.5%	75
Compostable Paper	9.5%	68
Other Wood Waste	6.7%	48
Other Recyclable Paper	6.6%	48
Other Ferrous	4.4%	32
Mixed Residue	3.7%	26
Other Film	3.5%	25
Rock, Soil, and Fines	2.8%	20
Clean Dimensional Lumbar	2.8%	20
Total for Top Materials	**66.9%**	**481**

City of Eureka

The overall waste composition of the city of Eureka is the weighted average of 25 samples collected during season one of fieldwork. As shown in Figure 18, 23 percent of the overall disposed from Eureka waste was considered Compostable/Potentially Compostable, 17 percent was Potentially Recoverable, and 12 percent was Recoverable Paper.

Figure 19 presents the overall composition by material class. One quarter (26%) of the overall material from Eureka was **Other Organic**, 21 percent was **Inerts & Other,** and 20 percent was **Paper**. *Food – not donatable* (13.5%) was the most prevalent material type followed by *rocks, soils, and fines* (7.5%), and *other recyclable paper* (6.3%) (Table 11).

Figure 18. Overall Composition by Recoverability Group, Eureka

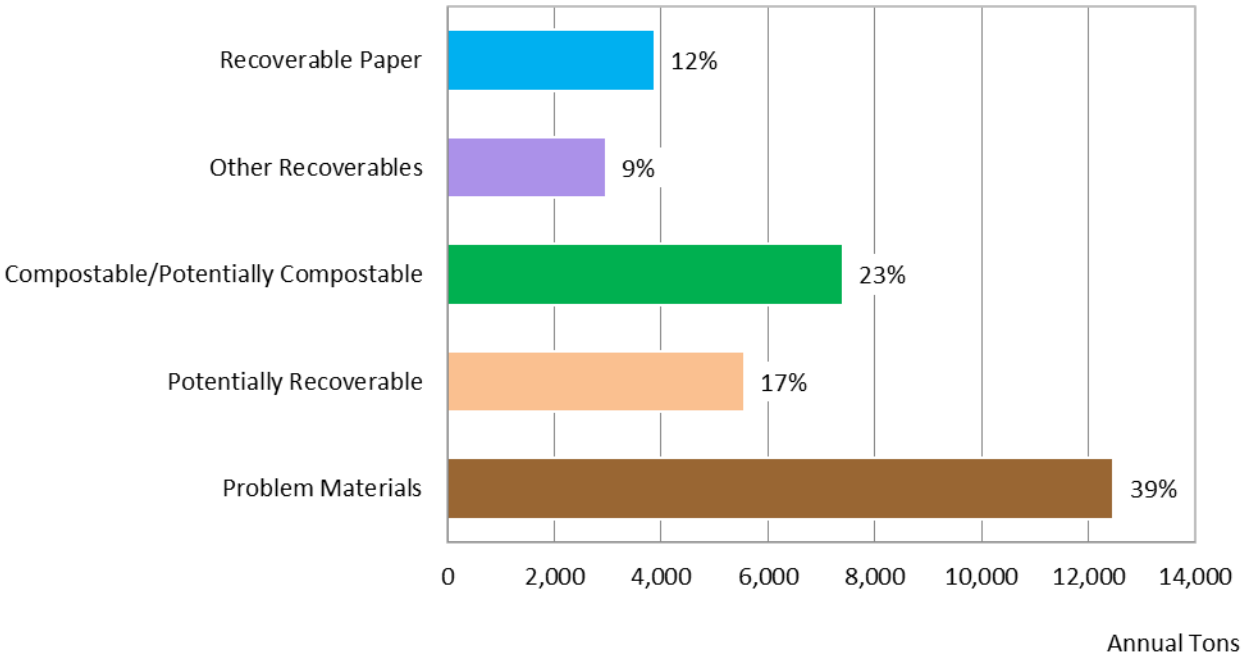


Figure 19. Overall Composition by Material Class, Eureka

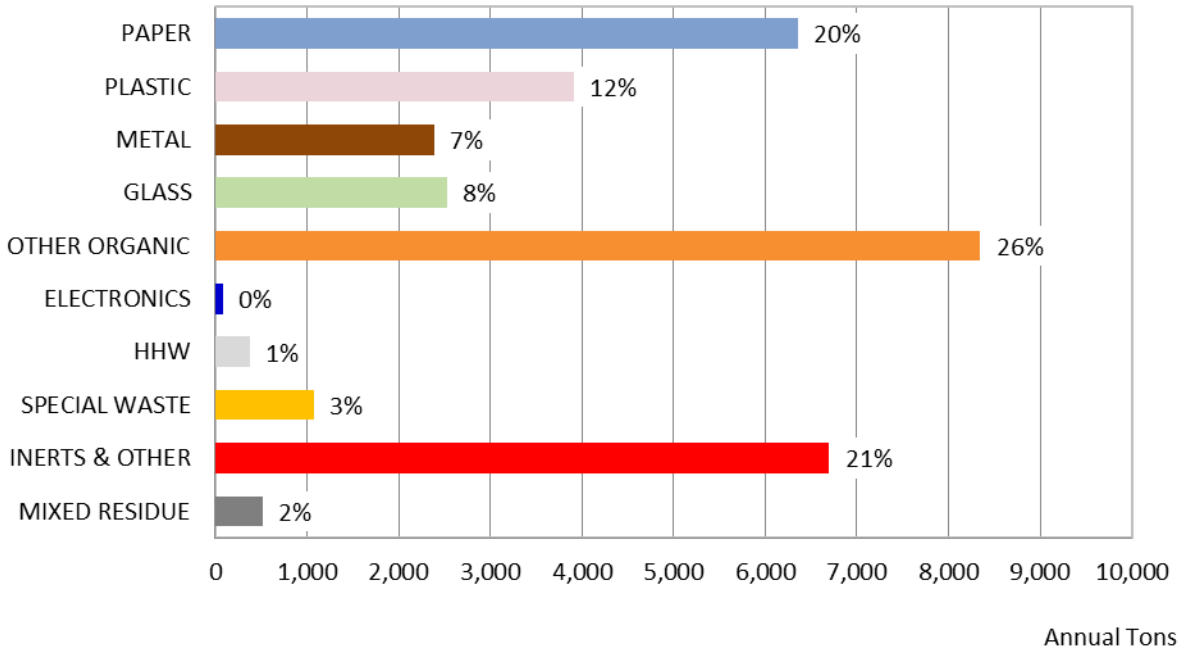


Table 11. Ten Most Prevalent Materials, Eureka Overall

Material	Est. Percent	Est. Tons
Food - Not Donatable	13.5%	4,368
Rock, Soil, and Fines	7.5%	2,418
Other Recyclable Paper	6.3%	2,030
Flat Glass	5.6%	1,808
Uncoated Corrugated Cardboard	5.3%	1,714
Compostable Paper	4.8%	1,561
Other Wood Waste	4.7%	1,505
R/C Organic	4.6%	1,487
Clean Gypsum Board	4.1%	1,323
Other Film	3.7%	1,196
Total for Top Materials	**60.1%**	**19,409**

City of Ferndale

The overall waste composition of the city of Ferndale is the weighted average of six samples collected during season one of fieldwork. As shown in Figure 20, 42 percent of the overall disposed from Ferndale waste was considered Compostable/Potentially Compostable, and 20 percent was Other Recoverables.

Figure 21 presents the overall composition by material class. Nearly one half (46%) of the overall material was **Other Organic**, 17 percent was **Paper,** and 15 percent was **Glass**. *Food – not donatable* (30.9%) was the most prevalent material type followed by *clear glass bottle containers* (14.2%), and *r/c organic* (7.3%) (Table 12).

Figure 20. Overall Material Composition by Recoverability Group, Ferndale

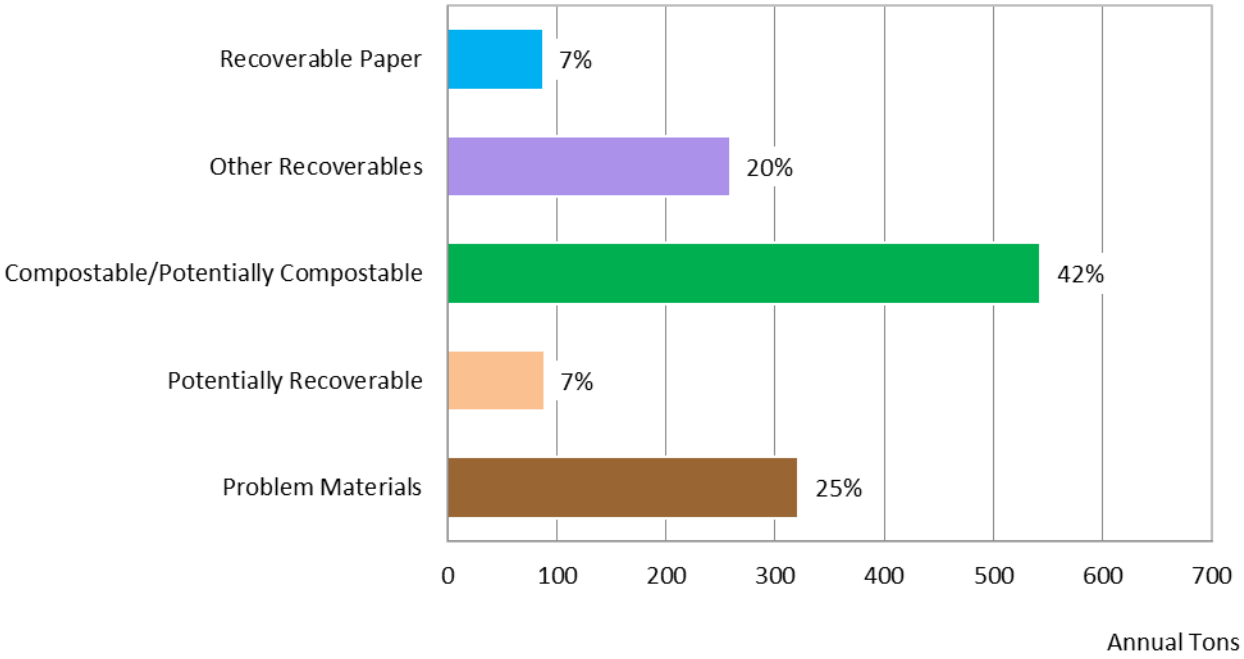


Figure 21. Overall Material Composition by Material Class, Ferndale

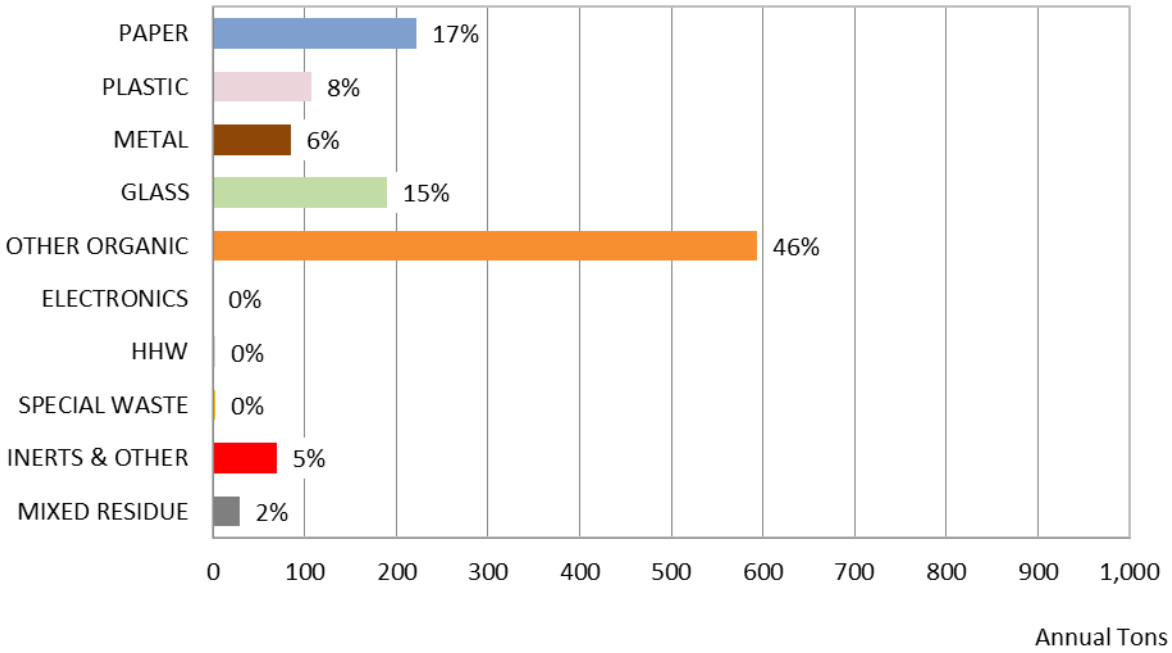


Table 12. Ten Most Prevalent Materials, Ferndale Overall

Material	Est. Percent	Est. Tons
Food - Not Donatable	30.9%	402
Clear Glass Bottles Containers	14.2%	184
R/C Organic	7.3%	95
Compostable Paper	5.5%	71
Food - Potentially Donatable	5.0%	65
Other Recyclable Paper	4.6%	60
R/C Paper	4.6%	60
R/C Metal	3.3%	42
Mixed Residue	2.2%	29
Aluminum Cans	2.2%	28
Total for Top Materials	**79.7%**	**1,037**

City of Rio Dell

The overall waste composition of the city of Rio Dell is the weighted average of seven samples collected during season one of fieldwork. As shown in Figure 22, 28 percent of the overall disposed waste was considered Compostable/Potentially Compostable, 12 percent was Recoverable Paper, and 21 percent was Potentially Recoverable.

Figure 23 presents the overall composition by material class. Nearly one third (30%) of the overall material was **Other Organic**, one quarter (25%) was **Paper,** and **Inerts & Other** and **Plastic** were each 16 percent. *Food – not donatable* (16.6%) was the most prevalent material type followed by other recyclable paper (8.5%), and *textiles – organic* (7.1%) (Table 13).

Figure 22. Overall Material Composition by Recoverability Group, Rio Dell

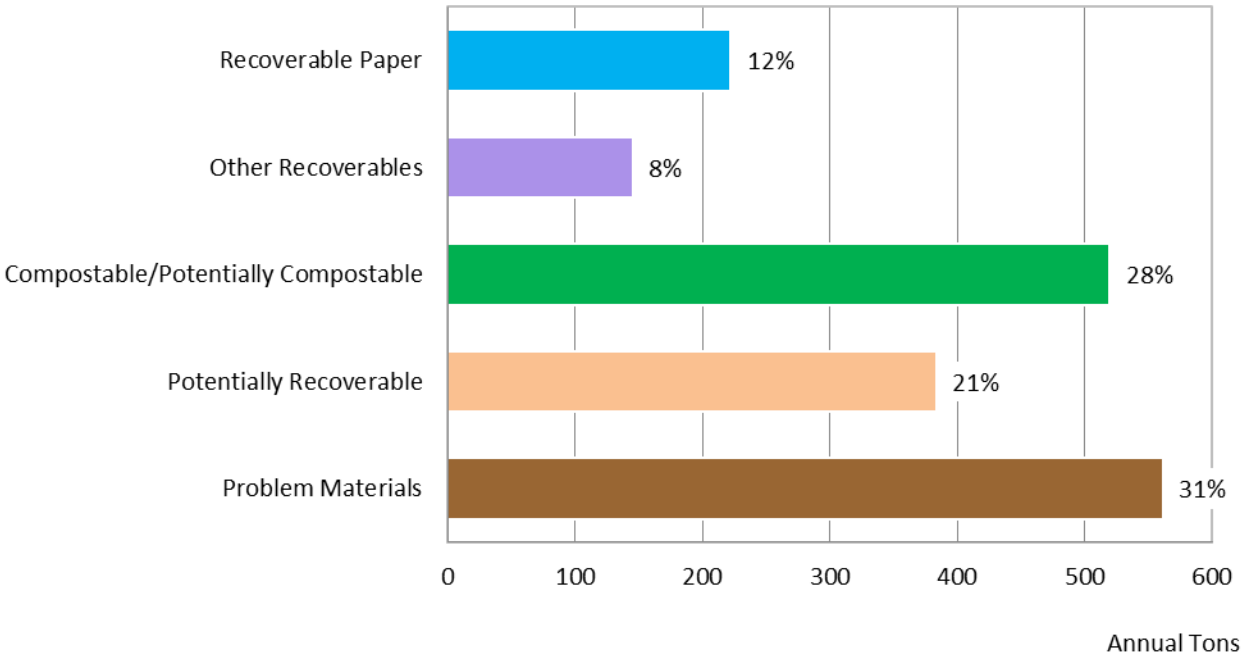


Figure 23. Overall Composition by Material Class, Rio Dell

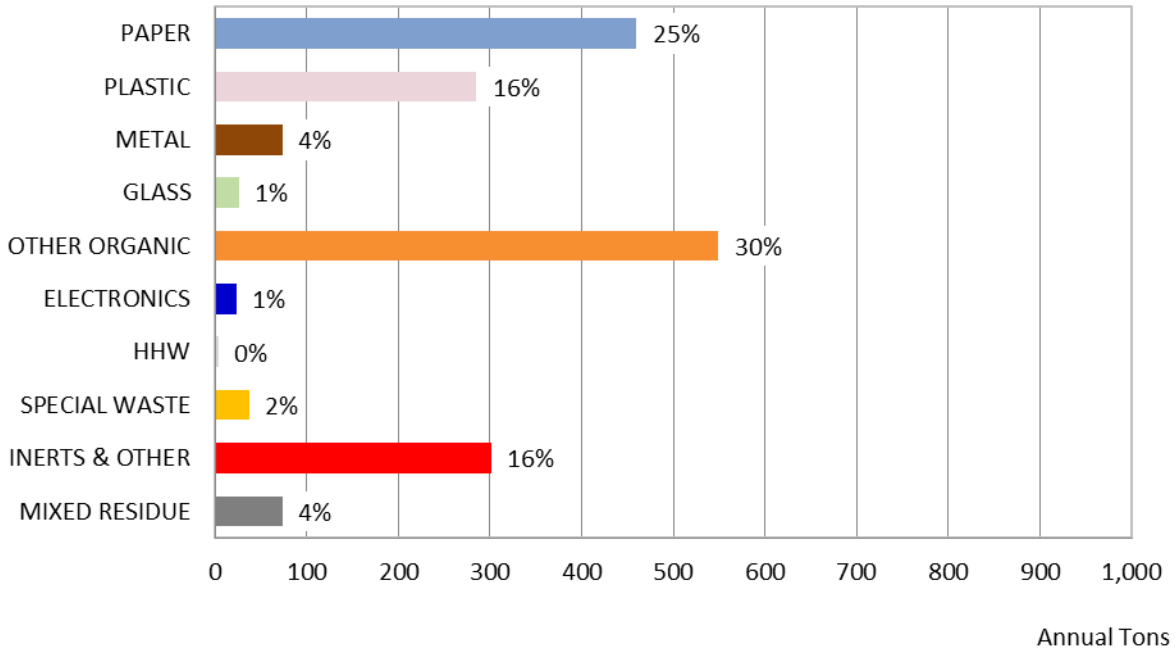


Table 13. Ten Most Prevalent Materials, Rio Dell

Material	Est. Percent	Est. Tons
Food - Not Donatable	16.6%	304
Other Recyclable Paper	8.5%	156
Textiles - Organic	7.1%	129
Textiles - Synthetic, Mixed, Unknown	6.9%	126
Compostable Paper	6.6%	121
R/C Paper	6.0%	111
R/C Inerts and Other	4.6%	84
Mixed Residue	4.0%	74
Uncoated Corrugated Cardboard	2.7%	50
Film Products	2.7%	49
Total for Top Materials	**65.7%**	**1,204**

Unincorporated County

The overall waste composition of the Unincorporated Humboldt County is the weighted average of 27 samples collected during season one of fieldwork. As shown in Figure 24, 32 percent of the overall disposed waste was considered Compostable/Potentially Compostable, 18 percent was Other Recoverables, and 17 percent was Potentially Recoverable.

Figure 25 presents the overall composition by material class. Over one third (37%) of the overall material was **Other Organic**, 19 percent was **Paper,** and 13 percent was **Plastic**. *Food – not donatable* (19.7%) was the most prevalent material type followed by *other – ferrous* (7.2%), and *other recyclable paper* (6.6%) (Table 14).

Figure 24. Overall Material Composition by Recoverability Group, Unincorporated County

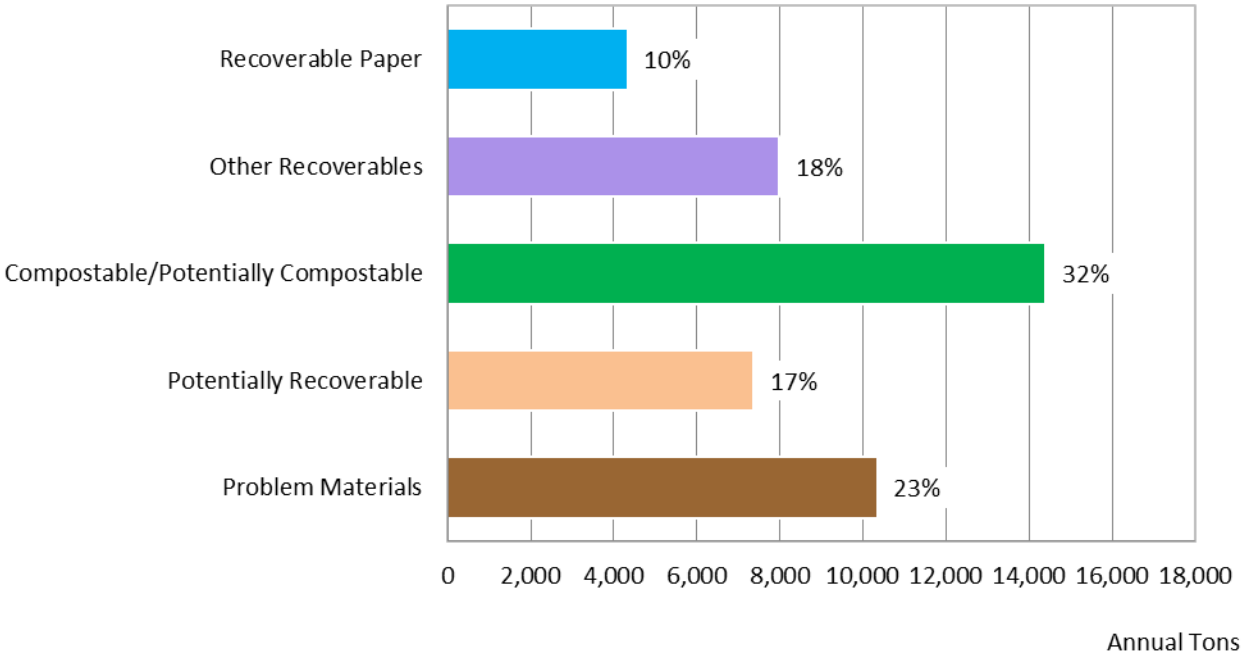


Figure 25. Overall Material Composition by Material Class, Unincorporated County

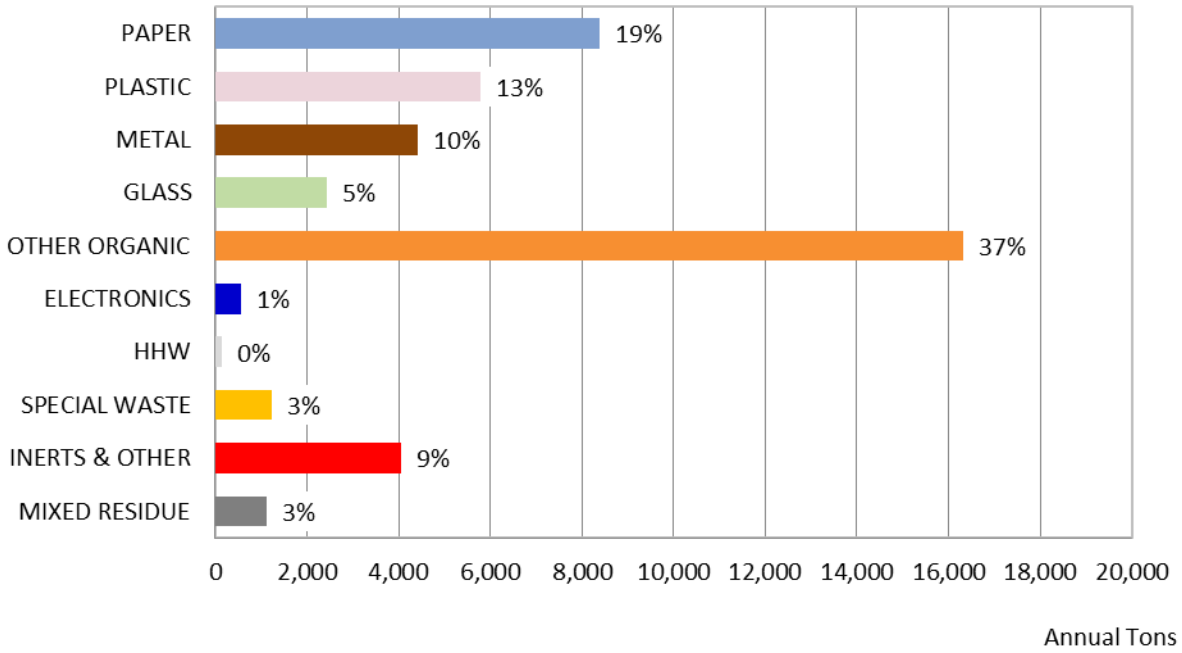


Table 14. Ten Most Prevalent Materials, Unincorporated County

Material	Est. Percent	Est. Tons
Food - Not Donatable	19.7%	8,775
Other Ferrous	7.2%	3,210
Other Recyclable Paper	6.6%	2,929
Compostable Paper	6.0%	2,675
R/C Organic	5.4%	2,380
Clear Glass Bottles Containers	5.0%	2,230
Textiles - Organic	4.5%	1,978
Food - Potentially Donatable	4.2%	1,880
Other Wood Waste	3.3%	1,488
Other Film	3.3%	1,474
Total for Top Materials	**65.3%**	**29,018**

Appendix A. Study Design

INTRODUCTION AND OVERVIEW

To obtain data about the composition of disposed solid waste, the Humboldt Waste Management Authority (HWMA) hired Cascadia Consulting Group (Cascadia) to characterize the disposed waste streams from five Humboldt County cities and the unincorporated areas of the county (collectively, the Members). The findings from this study are intended to provide information about the quantities and types of currently disposed materials. They will inform solid waste planning by identifying recycling and other diversion opportunities and measuring successes against the baseline established in 2010. The study's overall objectives are to:

- Current composition and quantity data.
- A comparison to the 2010 composition data.
- Additional detail on disposed food waste and other organics to help plan for the goals set in AB 1826 (Organics Diversion) and SB 1383 (Short-Lived Climate Pollutants).

This study design includes protocols for a representative and unbiased approach to selecting routes and customers for sampling. This document also describes the sampling and data analysis methodologies. The study design is organized into the following sections:

- Introduction and Overview
- Sampling Universe
- Number and Allocation of Samples
- Sampling Calendar
- Site Logistics and Hauler/Facility Coordination
- Selecting and Collecting Samples
- Sample Sorting and Data Recording
- Data Analysis

SAMPLING UNIVERSE

The first step in planning a waste characterization study is to identify and carefully define the waste streams: the "universe" of waste to be studied. Each stream is determined by the generation, collection, or composition characteristics that make it a unique portion of the total waste stream. The sampling universe for this study includes a single waste stream generated by four distinct sectors from the six Members of the HWMA.

Streams

- Garbage: Materials placed in containers that are normally hauled to a landfill with minimal or no processing.

Sectors

- Residential: Waste from single-family homes or small complexes collected on a designated residential route. This may include small amounts of waste from very small commercial generators (businesses with cart service instead of dumpster service).
- Commercial: Waste from non-residential properties including businesses, industries (e.g. factories, farms), and/or institutions (e.g. correctional facilities, hospitals, churches) collected on a designated commercial route. This may include multifamily residential waste.
- Self-haul: Waste from generators that transport their own materials from a residence or business to a transfer station rather than using commercial hauling services.
- Construction and Demolition: Waste produced during the construction, renovation, and/or demolition of buildings or structures that is received at a transfer station. This includes self-haul materials as well as materials hauled by certified or franchised waste haulers.

HWMA Members and Participating Jurisdictions

- City of Arcata
- City of Blue Lake
- City of Eureka
- City of Ferndale
- City of Rio Dell
- Unincorporated Humboldt County[5]

NUMBER AND ALLOCATION OF SAMPLES

Cascadia will collect 186 samples of residential, commercial, and self-haul garbage from HWMA Members, allocated approximately equally between the two seasons and among the six Members. The number of samples allocated to each Member is proportionate to their relative populations. Residential and commercial samples will be hand-sorted and self-haul samples will be visually characterized[6].

[5] *Willow Creek and the surrounding area serviced by Tom's Trash will be sampled and reported separately because of its unique collection system. It will also be included in the unincorporated county overall composition.*

[6] *For the targeted C&D and self-haul waste streams, visual characterization of entire loads produces more accurate findings than hand-sorting 200–250 lb. samples. The advantages of this approach are detailed in the Selecting and Collecting Samples section below.*

In addition, Cascadia will visually characterize as many construction and demolition (C&D) samples received at HWMA's Hawthorne Street Transfer Station (HSTS) as possible during the second season of fieldwork. There is no sampling quota for this stream because the number of loads available for characterization is unknown and is expected to be lower than in the previous study.

The number of samples allocated to each Member and sector is summarized in Table **15**.

Table 15. Target Samples per Season, HWMA Members

		Sample Goals		
Jurisdiction	**Sector**	**Winter**	**Summer**	**Total**
Arcata	Commercial	13	12	25
Arcata	Residential	5	5	10
Arcata	Self-haul	6	6	12
Blue Lake City	Res/Com	5	4	9
Blue Lake City	Self-haul	3	3	6
Eureka	Commercial	13	12	25
Eureka	Residential	5	5	10
Eureka	Self-haul	6	6	12
Ferndale	Commercial	3	3	6
Ferndale	Residential	2	1	3
Ferndale	Self-haul	3	3	6
Rio Dell	Commercial	3	3	6
Rio Dell	Residential	2	1	3
Rio Dell	Self-haul	3	3	6
Unincorporated County	Commercial	13	12	25
Unincorporated County	Residential	5	5	10
Unincorporated County	Self-haul	6	6	12
All HWMA Jurisdictions	C&D	0	10-40	10-40
Total		**96**	**100-130**	**196-226**

SAMPLING CALENDAR

The fieldwork will be based on regular collection and operating schedules and is arranged to ensure an even distribution of samples across days of the week. The two study seasons, in February and June 2020, will each consist of seven fieldwork days in a two-week period. Table **16** shows the planned dates for both study seasons.

Table 16. Study Season Schedule

Study Season	Dates
Winter	February 4-8, 11-12
Summer	June 8-12, 15-16

All commercial, residential, and self-haul samples will be evenly distributed across days of the week during each study period. Willow Creek is dedicated as an independent stream because residential and commercial routes in the Willow Creek area are collected and mixed together. They are hauled by Tom's Trash and deposited in a roll-off container serviced by Humboldt Sanitation. We will request that the roll-off container be serviced and delivered to HSTS for sampling according to the sampling schedule. Similarly, commercial and residential routes originating from Blue Lake will be characterized as a single steam because they are comingled during regular collection.

Table 17 and Table 18 below summarize the planned daily sample counts per season for HWMA members. The actual daily sample counts may vary slightly.

The field crew lead will be stationed at Eel River Recology Transfer Station (ERTS) in Fortuna, and Humboldt Sanitation in McKinleyville for the first two days of each study period to visually characterize self-haul samples. This will ensure that the self-haul samples reflect the composition of waste generated throughout the Authority.

Table 17. Planned Daily Sample Counts for HWMA Members - Winter Season

		Sector	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Total Samples
Hawthorne St. Transfer Station (HSTS)	Arcata	Res	1	1	1	1	1			5
		Com	2	1	1	4	2	2	1	13
		Self-haul		1	1	1	1	1	1	6
	Blue Lake	Res/Com	1	2				1	1	5
		Self-haul	1		1	1				3
	Eureka	Res		1	1		1		2	5
		Com	2	2	2	1	2	2	2	13
		Self-haul	1	1	1	1	1	1		6
	Ferndale	Res	1		1					2
		Com		2					1	3
		Self-haul	1					1	1	3
	Rio Dell	Res				2				2
		Com	1		1		1			3
		Self-haul					1	1	1	3
	Unincorporated County	Res	1			1		2		4
		Com	1		2	1	3	2	2	11
		Willow Creek		3						3
		Self-haul	1		1	1	1	1	1	6
Total:			14	14	13	14	14	14	13	96

Table 18. Planned Daily Sample Counts for HWMA Members - Summer Season

		Sector	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Total Samples
Hawthorne St. Transfer Station (HSTS)	Arcata	Res			1		1	2	1	5
		Com	2	2	1	2	2	2	1	12
		Self-haul	1	1	1	1	1	1		6
	Blue Lake	Res/Com	1	1				1	1	4
		Self-haul				1	1		1	3
	Eureka	Res	2			1		2		5
		Com	1	2	2	2	2	1	2	12
		Self-haul	1		1	1	1	1	1	6
	Ferndale	Res						1		1
		Com		1					2	3
		Self-haul	1				1		1	3
	Rio Dell	Res				1				1
		Com			1		1	1		3
		Self-haul	1	1	1					3
	Unincorporated County	Res	1	1	1	1				4
		Com	2	1	3	1	1		2	10
		Willow Creek		3						3
		Self-haul		1	1	1	1	1	1	6
Total:			13	14	13	12	12	13	13	90

All C&D samples will be characterized during the summer study season as they arrive at HSTS.

SITE LOGISTICS AND HAULER/FACILITY COORDINATION

Cascadia will coordinate with all involved parties, including the haulers, sites selected for sample capture, and HWMA staff, to ensure smooth execution of the study. Already, during the planning phase, Cascadia scheduled a kickoff meeting with representatives from HWMA, the hauler, and the facilities to receive input from all involved parties on the study protocol and to ensure project goals will be met.

Cascadia staff also performed site visits of HSTS, Humboldt Sanitation transfer station in McKinleyville, and ERTS in Fortuna to understand daily operations and the layout of the facilities. Discussions with the facility managers included the collection process of samples from incoming vehicles, protocol for sorting and/or visually characterizing samples, disposal of sample material, and health and safety.

Lastly, Cascadia coordinated with Recology and received route data to determine schedules of incoming loads and determine which routes would be selected for sampling. Cascadia will establish lines of communication between the haulers, facility staff, and the field crew lead during fieldwork to ensure that all samples are captured and to notify the field crew of incoming loads.

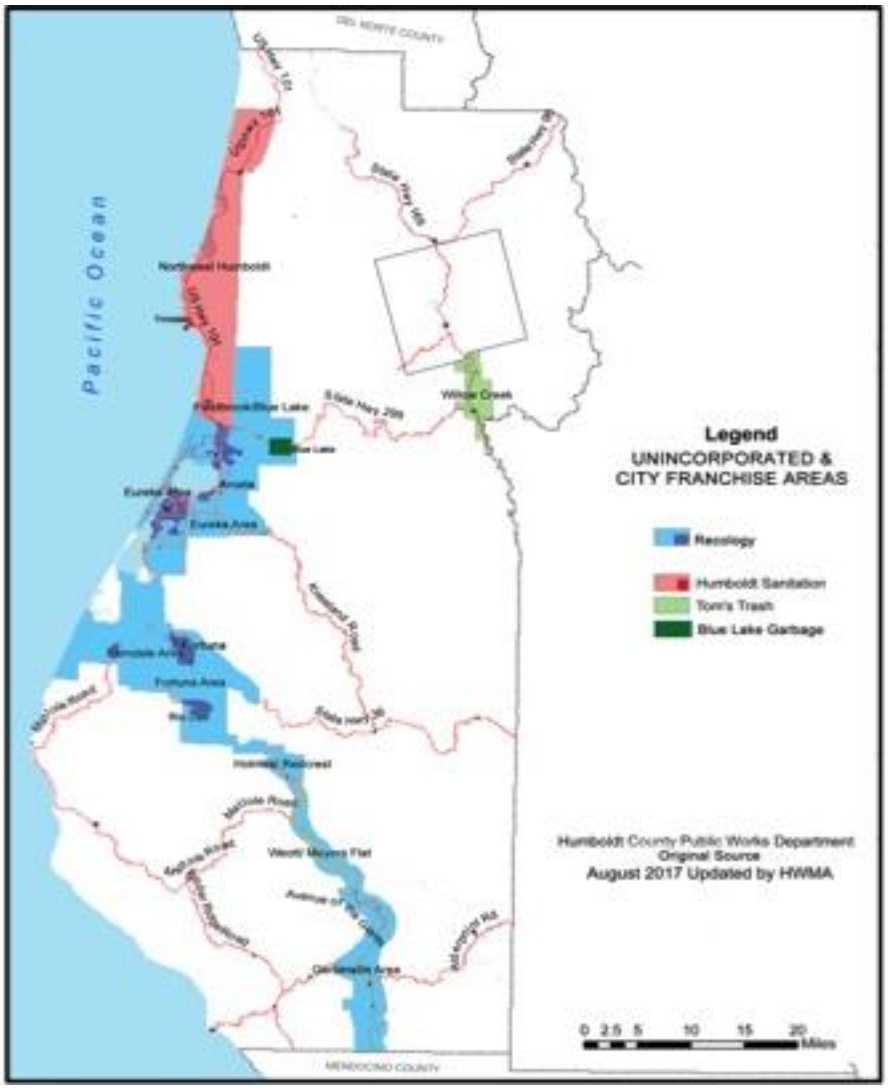
SELECTING AND COLLECTING SAMPLES

Route Selection

Commercial and Residential

There are four haulers that serve the Members. Per the request by HWMA to minimize impacts on daily operations at participating transfer stations, we will work with all haulers to redirect vehicles to HSTS for sampling the pre-selected loads that normally tip at the Redway, Humboldt Sanitation, and Eel River transfer stations. Figure 26 below shows the service areas for each hauler.

Figure 26. Map of HWMA Service Areas by Hauler



Cascadia obtained the schedule for commercially-hauled commercial and residential routes from each of the haulers. When the number of routes exceeded the number of samples needed, we randomly selected routes from each weekday using the *=rand()* function in Microsoft Excel. Through random selection, we ensured that the selected routes provide a representative mix of neighborhoods throughout the Authority.

Cascadia will provide brightly-colored *Sample Placards* to the haulers prior to the study week to be distributed to the drivers of the pre-selected routes. Each placard, placed in the windshield of a vehicle, alerts the vehicle surveyor and scale house staff stationed at HSTS that the vehicle has been designated for participation in the study. When a selected truck arrives at HSTS, the surveyor will direct the vehicle to the tipping area.

Self-haul

Cascadia's field crew will characterize self-haul loads on-site during the first two days of each study season at Humboldt Sanitation and ERTS. At HSTS, the field crew will characterize self-haul samples evenly across all days of the study weeks. To select self-haul loads to characterize, Cascadia will calculate a vehicle selection

frequency for each facility. The frequency will be determined by dividing the total expected number of self-haul loads arriving at the facility on that day by the number of samples needed on that day. The resulting number determines, for example, whether every third vehicle, every sixth vehicle, or every twentieth vehicle is selected. This strategy is referred to as "systematic sampling." For each day of field work, the Cascadia surveyor will have a day-specific *Vehicle Selection Form* listing the information needed for selecting loads.

When an eligible vehicle arrives at the scale house and is selected for characterization, the surveyor will place a brightly colored *Sample Placard* on the windshield of the vehicle and direct the vehicle to the tipping area.

C&D

Cascadia will characterize as many C&D samples as possible that are collected throughout the Authority and received at HSTS during the second season of fieldwork. C&D loads are planned be collected in the summer season, as it is expected that very few C&D loads will arrive at HSTF during the winter season. However, if a C&D load does arrive to the facility during the first season of field work, the vehicle surveyor will notify facility staff and the field crew may characterize the load.

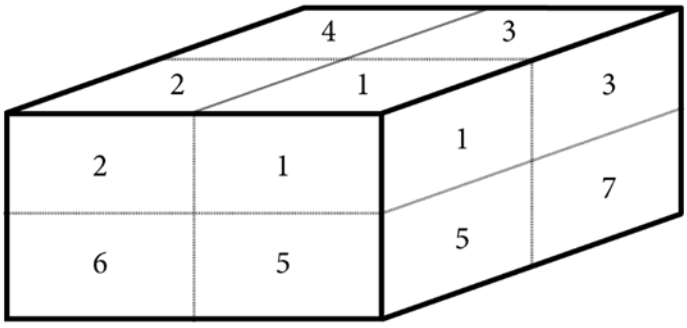
Sample Collection

The sampling approach is dependent on the type of load. The protocol for each sector is described in this section.

Commercial and Residential

Once directed to the tipping floor, selected commercial and residential loads will be tipped in an elongated pile. From each load, the field crew will select a sample using an imaginary 8-cell grid (as shown in Figure 27) superimposed over the tipped material. The crew will provide HWMA's loader operator (Operator) with the randomly-selected cell from which to capture the sample. When the number of commercial or residential loads from a specific Member is less than the number of target samples in a study period (e.g., residential loads from one of the less populous Members), multiple samples may be extracted from a single load.

Figure 27. 8-Cell Grid for Sampling



The target weight of each sample will be 200-250 pounds. Samples will be collected before facility staff divert any materials from the load. The Operator will scoop the specified amount of material from the selected cell and transport the sample(s) from the tip floor to the storing location. Once finished dumping the load and handing off the *Sample Placard(s)*, drivers will make their way back to the scale house to weigh out.

Self-haul and C&D

For selected self-haul and C&D loads, the entire load is considered a sample and will be characterized in place after they are dumped.

SAMPLE SORTING AND DATA RECORDING

Residential and Commercial Loads

Once collected, residential and commercial samples will be hand-sorted according to the following protocol:

- **Step 1: Review methodology and sorting categories with the crew.** To provide consistent sorting quality, Cascadia will use highly trained crew members throughout the project. Before the sorting begins, all crew members will review the safety protocols, procedures, forms, and material definitions in detail.
- **Step 2: Photograph the sample.** A member of the field crew will take photographs of the sample using a digital camera. The *Sample Placard* identifying the sample will be positioned to be visible in each photo.
- **Step 3: Sort the sample.** Once the sample is placed on the sorting table, the field crew will sort material by hand into the prescribed material categories in plastic baskets. Individual members of the field crew typically specialize in groups of materials, such as papers or plastics. The crew lead will monitor the accuracy of sorting, re-sorting materials that are improperly classified. The complete list of material types and definitions are included in **Error! Reference source not found.**.
- **Step 3: Weigh the sample.** The crew lead will verify the purity of each material as it is weighed using a pre-tared scale and will record the data on the *Material Weight Tally Sheet*.
- **Step 4: Review Data.** At the conclusion of each fieldwork day, the crew lead will conduct a quality control review of the data recorded.

Self-haul and C&D Loads

C&D and self-haul samples will be visually characterized. For these types of samples, visual characterizations of entire loads produce more accurate findings than hand-sorting 200–250 lb. samples. This approach is preferable to hand-sorting C&D and self-haul samples for the following reasons:

- These loads are often "chunky;" in other words, they often consist of large pieces or large amounts of one material concentrated in one area of the load. Hand sorting of 200-pound samples does not capture this variability of composition within individual loads. Visual characterization of the entire load accounts for all the materials that are present in significant amounts.
- The composition variability from one load to another in these waste streams is very high. Therefore, in order to obtain high-quality data, it is necessary to characterize relatively more samples. Our cost-effective visual characterization method allows us to characterize far more loads than could be done through hand sorting.

The visual characterization method follows the eight steps described below:

- **Step 1: Collect information about the load.** At the sampling area, our field crew member will record key information, including the net weight and jurisdiction of origin for each self-hauled load.

- **Step 2: Measure load volume.** The crew member will use a tape measure to obtain the length, width, and height of the load while it is still in the vehicle and record it on the data sheet.
- **Step 3: Photograph the sample.** Using a digital camera, the crew member will take a photograph after each sample is tipped. The sample placard that identifies each sample will be positioned so it is visible in each photograph.
- **Step 4: Note which material classes are present.** The crew member will walk entirely around the load and indicate on the *Visual Characterization Form* which major material classes are present in the load.
- **Step 5: Estimate composition by volume for each major material class.** Beginning with the largest major material class present by volume, the crew member will estimate the volumetric percentage of the material class and record it on the form. An example of a major material class is Paper. This process will be repeated for the next largest material class, and so forth, until the volume percentage of every material class has been estimated. The crew member will then calculate the sum of material percentages for this step, ensuring that the total is 100 percent.
- **Step 6: Estimate composition by volume for each specific material component.** The crew member will consider each major material class separately and estimate the percentage of each major class that is made up of each specific material component. For example, *newspaper* is a specific material component within the major material class of Paper materials. While considering only the Paper materials class, the crew member will estimate the volume percentage of Paper materials that is composed of newspaper. The crew member will then do the same for every other specific material component within the Paper material class (such as uncoated corrugated cardboard or office paper). The total of percentages for all of the material components must equal 100 percent. This process is repeated for the other major classes, with all the material components in each material class totaling 100 percent.
- **Step 7: Check and reconcile percentage data.** The crew member will then ensure that the percentage estimates for the major material classes add up to 100 percent. Also, the percentage estimates for the specific material components within each major class must total 100 percent.
- **Step 8: Convert volume estimates to weight estimates.** This step will be done at Cascadia's offices after fieldwork is completed each season. Data from the *Visual Characterization Forms* will be entered into a customized database and accepted density conversion factors will be used to develop estimates of the weight of each material component in each load.

If self-haul samples contain a significant amount of mixed household trash, they will be hand-sorted accorded to the protocol described above in the Residential and Commercial Loads section.

DATA ANALYSIS

The Cascadia team will analyze the data collected using rigorous QA/QC protocols and the standard statistical procedures used for previous studies, including the 2010 study. Detailed descriptions of calculations and statistical protocols are in **Error! Reference source not found.**.

Method for Obtaining Tonnage Data

To collect tonnages of sampled loads, the vehicle surveyor will provide each selected vehicle with a ticket upon entry to the facility that has a unique number to identify the load. The vehicle surveyor will request that the vehicle driver return the ticket upon exiting the facility. The surveyor will collect both the ticket and the net wet of the vehicle from the driver as they exit.

To complete the analysis, we will rely on HWMA to provide annual tonnage estimates for its member agencies and complete Table 19.

Table 19. Annual Tonnages Needed for Analysis

	Sector	Annual Tons
Arcata	Res	
	Com	
	Self-haul	
Blue Lake	Res/Com	
	Self-haul	
Eureka	Res	
	Com	
	Self-haul	
Ferndale	Res	
	Com	
	Self-haul	
Rio Dell	Res	
	Com	
	Self-haul	
Unincorporated County	Res	
	Com	
	Willow Creek	
	Self-haul	
	Total	

Appendix B. Material List

Paper

- **Uncoated Corrugated Cardboard** usually has three layers. The center wavy layer is sandwiched between the two outer layers. It does not have any wax coating on the inside or outside. Examples include entire cardboard containers, such as shipping and moving boxes, computer packaging cartons, and sheets and pieces of boxes and cartons. This type does not include chipboard boxes such as cereal and tissue boxes.
- **Waxed Corrugated Cardboard** includes cardboard, linerboard, containerboard, cartons, and other boxes with a wax coating. Examples include commercial produce boxes**.**
- **Paper Bags** means bags and sheets made from kraft paper. The paper may be brown (unbleached) or white (bleached). Examples include paper grocery bags, fast food bags, department store bags, and heavyweight sheets of kraft packing paper.
- **Other Recyclable Paper** means items make of paper that do not fit into any of the other paper types, but that are generally recyclable or not generally composted. Paper may be combined with minor amounts of other materials such as was or glues. Examples include newspapers and glossy inserts found in newspapers, folding cartons, election guides, plan news packing paper, stapled college class schedules, tax instruction booklets, general office-type papers such as copy paper, computer envelopes, index cards, lined or colored notebook paper, and carbonless forms, and items make of chipboard, ground wood paper, and deep-toned or fluorescent dyed paper, unused paper plates and cups, school construction paper, self-adhesive notes, hardcover and paperback books, phone books and directories, bagged shredded paper, greeting cards, envelopes with or without clear windows, glossy magazines, catalogs, brochures, and pamphlets. Does not include envelopes lined with plastic or bubble wrap.
- **Paper Cups – Compostable** means single-use paper cups that clearly do not have a coating or multiple layers.
- **Paper Cups – Not compostable** means single-use paper cups that clearly have a coating (usually shiny) or multiple layers.
- **Compostable Paper** includes all paper soiled with food. Examples include paper plates, pizza boxes, french-fry containers, sandwich boxes, napkins, and paper towels.
- **Remainder/Composite Paper** means paper that typically is non-recyclable, paper that does not fit into any of the other paper types, or paper that is combined with large amounts of other materials such as wax, plastic, glues, or foil. Examples include packages laminated with Mylar, boxes with large plastic windows (common for children's toys), packages with foam or plastic cushions integrated into the package, paper-coated polystyrene containers, aseptic packages, plastic-coated paper milk cartons, waxed paper, tissue, non-food-soiled paper towels, blueprints, sepia, onion skin, fast food wrappers, carbon paper, self-adhesive notes, hard cover books, and photographs.

Plastic

- **PETE Water Bottles** means clear or colored PETE (polyethylene terephthalate) bottles for non-carbonated water that are one liter or less in size. When marked for identification, they bear the number 1 in the center of the triangular recycling symbol and may also bear the letters PETE or PET. The color is usually transparent green or clear. A PETE water bottle usually has ribs and a narrow neck as well as a small dot left from the manufacturing process, not a seam. It does not turn white when bent. Examples include single-serve plain water bottles, flavored water bottles, and vitamin, mineral, or otherwise enhanced water bottles.
- **Other PETE Containers** means PETE (polyethylene terephthalate) containers other than water bottles less than one liter in size. This includes boxes, clamshells, jars, bottles, and cartons. When marked for identification, they bear the number 1 in the center of the triangular recycling symbol and may also bear the letters PETE or PET. A PETE container usually has a small dot left from the manufacturing process, not a seam. It does not turn white when bent. Examples include soft drink and liquor bottles, water bottles larger than one liter in size, cooking oil bottles, pastry jars, food jars, aspirin bottles, frozen food or other trays, and hardware, small electronics and battery packaging.
- **HDPE Containers** means natural and colored HDPE (high-density polyethylene) containers. This plastic is usually either cloudy white, allowing light to pass through it (natural), or a solid color, preventing light from passing through it (colored). When marked for identification, it bears the number 2 in the triangular recycling symbol and may also bear the letters HDPE. Examples include milk jugs, water jugs, detergent bottles, some hair-care bottles, HDPE sealed containers (must be cut, pried, or torn to be opened), empty motor oil, empty antifreeze, and other empty vehicle and equipment fluid containers.
- **Single-Use Expanded Polystyrene Food Service Items** means cups, plates, bowls, trays, coverings, and hinged or lidded containers (clamshells), Polystyrene foam coolers which are not wholly encapsulated or encased within a more durable material, and other food or drink packaging marked with a number 6 that are intended for single-use food and drink storage, transport, and service. Items are typically used at restaurants, convenience stores, or other food service establishments, including fast-food restaurants. Additionally, includes packaging for food left over from partially consumed meals. This type also includes foam egg cartons.
- **#3-#7 Other Containers** means plastic containers other than PETE bottles and containers, HDPE bottles and containers, and single-use EPS food service items. These include boxes, clamshells, jars, bottles, and cartons. Items may be made of PVC (polyvinyl chloride), LDPE (low-density polyethylene), PP (polypropylene), PS (polystyrene), or mixed resins. When marked for identification, these items may bear the number 3, 4, 5, or 6 in the triangular recycling symbol and may also bear the letters PS, PP, PVC, etc. Examples include bakery packaging, hardware and fastener packaging, food containers such as bottles for salad dressings and vegetable oils, flexible and brittle yogurt cups, syrup bottles, margarine tubs, microwave food trays, and clamshell-shaped fast food containers. This type also includes some shampoo containers, vitamin bottles, and clamshell-like muffin containers.
- **Compostable Plastics** means clear or colored corn, potato, or other vegetable-based plastics meant to break down into useable compost. May be labeled with 7 in the triangular recycling symbol or bear the letters PLA. Examples include compostable bottles, compostable to-go food packaging, compostable bags, and compostable single-use utensils.

- **Plastic Trash Bags** means plastic bags sold for use as trash bags, for both residential and commercial use. Examples include garbage, kitchen, compactor, can-liner, composting, yard, lawn, leaf, and recycling bags. This type does not include other plastic bags, like shopping bags, that might have been used to contain trash.
- **Plastic Grocery and Other Merchandise Bags** means plastic shopping bags used to contain merchandise to transport items from the place of purchase, distributed by the store with the purchase. This type includes dry cleaning bags intended for one-time use but does not include produce bags.
- **Non-Bag Commercial and Industrial Packaging Film** means film plastic used for large-scale packaging or transport packaging. Examples include shrink-wrap, mattress bags, furniture wrap, and film bubble wrap.
- **Film Products** means plastic film used for purposes other than packaging. Examples include agricultural film (films used in various farming and growing applications, such as silage greenhouse films, mulch films, and wrap for hay bales), plastic sheeting used as drop cloths, and building wrap.
- **Other Film** means all plastic film that does not fit into any other type. Examples include other types of plastic bags such as sandwich bags, zipper-recloseable bags, newspaper bags, produce bags, frozen vegetable bags, bread bags, food wrappers such as candy bar wrappers, deli bags, other point-of purchase plastic film packaging, mailing pouches, bank bags, X-ray film, and metalized film (wine containers and balloons).
- **Rigid Plastic Drip Lines** means agricultural-use drip irrigation pipes and tubes.
- **Other Recyclable Rigid Plastic** includes other recyclable durable plastic items not described elsewhere. These include rigid plastics made to last for more than one use that are not contaminated or combined with other materials and which do not shatter when folded or bent. These items may bear the numbers 1 through 7 in the triangular recycling symbol. Examples include some plastic toys, plastic patio furniture, and plastic cans, buckets, and bins larger than one gallon.
- **Other Non-Recyclable Rigid Plastic** means rigid plastics that are often made to last for more than one use that are brittle and shatter or break when bent. These items may bear the numbers 1 through 7 in the triangular recycling symbol. Examples include CDs and housewares such as dishes and cutlery. This type also includes pipes, plumbing fittings, and electronics packaging for computers, televisions, and stereos. This does not include rigid plastic agricultural drip lines.
- **Remainder/Composite Plastic** means plastic that cannot be included in any other plastic type. This type includes items made mostly of plastic but combined with other materials. Examples include auto parts made of plastic attached to metal, plastic drinking straws, foam packing blocks, packing peanuts, and new Formica, vinyl, or linoleum.

Glass

- **Clear Glass Bottles and Containers** means clear glass containers with or without a California Redemption Value (CRV) label. Examples include whole or broken clear soda and beer bottles, fruit juice bottles, peanut butter jars, and mayonnaise jars.

- **Green Glass Bottles and Containers** means green-colored glass containers with or without a CRV label. Examples include whole or broken green soda and beer bottles, and whole or broken green wine bottles.
- **Brown Glass Bottles and Containers** means brown-colored glass containers with or without a CRV label. Examples include whole or broken brown soda, beer, and wine bottles.
- **Other Colored Glass Bottles and Containers** means colored glass containers and bottles other than green or brown with or without a CRV label. Examples include whole or broken blue or other colored bottles and containers.
- **Flat Glass** means clear or tinted glass that is flat. Examples include glass window panes, doors and table tops, flat automotive window glass (side windows), safety glass, and architectural glass. This type does not include windshields, laminated glass, or any curved glass.
- **Remainder/Composite Glass** means glass that cannot be put in any other type. It includes items made mostly of glass but combined with other materials. Examples include Pyrex, Corningware, crystal and other glass tableware, mirrors, incandescent light bulbs, auto windshields, laminated glass, or any curved glass.

Metal

- **Tin/Steel Cans** means rigid containers made mainly of steel. These items will stick to a magnet and may be tin-coated. This type is used to store food, beverages, paint, and a variety of other household and consumer products. Examples include canned food and beverage containers, empty metal paint cans, empty spray paint and other aerosol containers, and bimetal containers with steel sides and aluminum ends.
- **Major Appliances** means discarded major appliances of any color. These items are often enamel-coated. Examples include washing machines, clothes dryers, hot water heaters, stoves, and refrigerators. This type does not include electronics, such as televisions and stereos.
- **Used Oil Filters** means metal oil filters used in motor vehicles and other engines, which contain a residue of used oil.
- **Other Ferrous** means any item made 100% from any iron or steel material that is magnetic or any stainless steel item. This type does not include tin/steel cans. Examples include structural steel beams, ferrous metal clothes hangers, metal pipes, machinery, car parts, stainless steel cookware, security bars, and scrap ferrous items.
- **Aluminum Cans** means any food or beverage container made mainly of aluminum. Examples include aluminum soda or beer cans, and some pet food cans. This type does not include bimetal containers with steel sides and aluminum ends.
- **Other Non-Ferrous** means any metal item, other than aluminum cans, made 100% from material that is not stainless steel and that is not magnetic. These items may be made of aluminum, copper, brass, bronze, lead, zinc, or other metals. Examples include aluminum window frames, aluminum siding, copper wire, shell casings, brass pipe, and aluminum foil.
- **Mixed Recoverable Metal** means composite, multi-metal products or products with nonmetal contaminants. The metal content must be more than 50% by weight of the material. Examples

include mixed ferrous and non-ferrous cooking pots and pans, engines and electric motors, cooking pots with plastic or silicone handles, doorknobs, and metal patio furniture with plastic or wicker straps.

- **Remainder/Composite Metal** means items made primarily from metals but composed of less than 50% metal by weight metal that cannot be put in any other type. This type includes metallic items combined with significant amounts of nonmetals. Examples include umbrellas, insulated wire, and other finished products that contain a mixture of metals and other materials.

Other Organic

- **Food – Potentially Donatable** means foods in their unopened original packaging as well as unpackaged fruits and vegetables that have not been partially consumed. Foods may be cooked or raw. Examples include mixed fruit salad, whole apple, sliced fruits, sliced vegetables, entire head of lettuce, milk, cheese – whole or sliced, eggs, yogurt, soy and nut yogurts, soy and nut cheeses, soy/nut/rice/coconut milks (whether shelf stable or not) tofu, whole rotisserie chicken in original unopened package, raw steak in original unopened package, raw fish in original unopened package, sliced deli meat in original unopened package, prepared meats in original unopened package such as chicken nuggets, jerky, canned meat and fish, a whole egg sandwich in original unopened package, whole tray of lasagna, whole tray of chow mein, whole frozen pizza in original unopened package, whole baked goods such as whole loaves of breads, whole pastries, whole bag of tortillas in original unopened package, unopened perishable beverages such as fresh fruit or vegetable juice, canned and bottled foods, rice, pasta, beans, lentils, nuts, nut butters, flour, sugar, spices, oils, condiments, foods contained in aseptic or retort packages, and non-perishable beverages such as sodas.
- **Food – Not Donatable** means any food that is not in a whole state (i.e., partially consumed), or the product's packaging has been opened, or the product was not contained in any packaging at all (except unpackaged, whole fruits and vegetables), or items typically not consumed by people in the United States. Examples of include: a partially consumed rotisserie chicken, deli meat in opened package, unpackaged raw meats, a hamburger, meat and fish trimmings, half eaten burrito, partially consumed lasagna, fruit and vegetable peels, skins, trimmings, and ends (e.g. potato skins, banana peel, cucumber end), bones, pits, shells, coffee grounds, and any indistinguishable food.
- **Leaves and Grass** means plant material, except woody material, from any public or private landscapes. Examples include leaves, grass clippings, plants, and seaweed. This type does not include woody material or material from agricultural sources.
- **Prunings and Trimmings** means woody plant material up to 4 inches in diameter from any public or private landscape. Examples include prunings, shrubs, and small branches with branch diameters that do not exceed 4 inches. This type does not include stumps, tree trunks, branches exceeding 4 inches in diameter, or material from agricultural sources.
- **Branches and Stumps** means woody plant material, branches, and stumps that exceed 4 inches in diameter, from any public or private landscape.
- **Manures** means manure and soiled bedding materials from domestic, farm, or ranch animals. Examples include manure and soiled bedding from animal production operations, race tracks, riding stables, animal hospitals, and other sources.

- **Textiles - Organic** means cloth, clothing, sheets and towels, other textile items, and rope made of 100 percent cotton, leather, wool or other naturally occurring fibers. Composites of several different naturally occurring fibers (such as a wool jacket with a cotton liner) can be included in this material, as can organic textiles with buttons and zippers.
- **Carpet** means flooring applications consisting of various natural or synthetic fibers bonded to some type of backing material. This type does not include carpet padding.
- **Animal Carcasses** means carcasses of small animals and pieces of larger animals, unless the waste is the result of food storage or preparation.
- **Remainder/Composite Organic** means organic material that cannot be put in any other type. This type includes items made mostly of organic materials but combined with other material types. Examples include cork, hemp rope, garden hoses, rubber items, hair, carpet padding, cigarette butts, diapers, feminine hygiene products, small wood products (such as Popsicle sticks and toothpicks), sawdust, agricultural crop residues, and animal feces not mixed with kitty litter.

Inerts and Other

- **Concrete** means a hard material made from sand, aggregate, gravel, cement mix, and water. Examples include pieces of building foundations, concrete paving, and concrete/cinder blocks.
- **Asphalt Paving** means a black or brown, tar-like material mixed with aggregate used as a paving material.
- **Asphalt Composition Shingles** means composite shingles composed of fiberglass or organic felts saturated with asphalt and covered with inert aggregates. Does not include built-up roofing. Commonly known as three-tab roofing.
- **Roofing Tar Paper/Felt** means a heavy paper impregnated with tar, or a fiberglass or polyester fleece impregnated with tar, used as part of a roof for waterproofing.
- **Roofing Mastic** means a paste-like material used as an adhesive or seal in roofing applications.
- **Built-Up Roofing** means other roofing material made with layers of felt, asphalt, aggregates, and attached roofing tar and tar paper normally used on flat/low pitched roofs usually on commercial buildings.
- **Other Asphalt Roofing Material** means any other roofing material containing asphalt that cannot be put into any of the other roofing material types.
- **Clean Dimensional Lumber** means unpainted new or demolition dimensional lumber. Includes materials such as 2x4s, 2x6s, 2x12s, and other residual materials from framing and related construction activities. May contain nails or other trace contaminants.
- **Clean Engineered Wood** means unpainted new or demolition scrap from sheeted goods such as plywood, particleboard, wafer board, oriented strand board, and other residual materials used for sheathing and related construction uses. May contain nails or other trace contaminants.
- **Clean Pallets and Crates** means unpainted wood pallets, crates, and packaging made of lumber/engineered wood.

- **Other Wood Waste** means wood waste that cannot be put into any other material type. This type may include untreated/unpainted scrap from production of prefabricated wood products such as wood furniture or cabinets, untreated or unpainted wood roofing and siding, painted or stained wood, and treated wood.
- **Clean Gypsum Board** means unpainted gypsum wallboard or interior wall covering made of a sheet of gypsum sandwiched between paper layers. Examples include used or unused, broken or whole sheets. Gypsum board may also be called sheetrock, drywall, plasterboard, gypboard, gyproc, or wallboard.
- **Painted/Demolition Gypsum Board** means painted gypsum wallboard or interior wall covering made of a sheet of gypsum sandwiched between paper layers. Examples include used or unused, broken or whole sheets. Gypsum board may also be called sheetrock, drywall, plasterboard, gypboard, gyproc, or wallboard.
- **Rock, Soil and Fines** means rock pieces of any size, soil, dirt, and other matter. Examples include rock, stones, sand, clay, soil, and other fines. This type also includes non-hazardous contaminated soil.
- **Textiles – Synthetic, Mixed, Unknown** means cloth, clothing, sheets and towels, other textile items, shoes, clothing accessories (purses), and rope made of unknown fibers, synthetic fibers or made from a mixture of synthetic and natural materials. Also includes leather items like belts and baseball gloves.
- **Remainder/Composite Inerts and Other** means inerts and other material that cannot be put in any other type. This type may include items from different types combined, which would be very hard to separate. Examples include brick, ceramics, tiles, toilets, sinks, and fiberglass insulation. This type may also include demolition debris that is a mixture of items such as plate glass, wood, tiles, gypsum board, and aluminum scrap.

Electronics

- **E-Waste** means most items with an external or internal power source and extensive circuitry. Examples include mobile phones, GPS, calculators, printers, computers (without a video display device incorporated), vacuum cleaners, sewing machines, microwaves, irons, toasters, electric knives, shavers, hair care, toys, some musical equipment, slot machines, large printing machines, large exercise equipment, cathode ray tube containing devices (CRT devices), cathode ray tubes (CRTs), computer monitors containing CRTs, laptop computers with liquid crystal display (LCD), LCD containing desktop monitors, televisions containing CRTs, televisions containing LCD screens, plasma televisions, portable DVD players with LCD screens, tablet computers (like the iPad and Kindle Fire), and solar panels.

Household Hazardous Waste

- **Household Hazardous Waste** means household items that are caustic, toxic, explosive, or otherwise harmful that may cause problems if handled in via traditional waste collection, landfilling, or incineration. Examples include paint, batteries, automotive fluids, propane cylinders, pharmaceuticals (prescription and OTC), sharps, pesticides, mercury containing items, and fluorescent lamps.

Special Waste

- **Ash** means a residue from the combustion of any solid or liquid material. Examples include ash from fireplaces, incinerators, biomass facilities, waste-to-energy facilities, and barbecues. This type also includes ash and burned debris from structure fires.
- **Treated Medical Waste** means medical waste that has been processed in order to change its physical, chemical, or biological character or composition, or to remove or reduce its harmful properties or characteristics, as defined in Section 25123.5 of the Health and Safety Code.
- **Mattresses** means common household sleeping mattresses.
- **Bulky Items** means large hard to handle items that are not defined elsewhere in the material types list, including furniture, and other large items. Examples include all sizes and types of furniture, box springs, and base components.
- **Vehicle and Truck Tires** means pneumatic tires or solid tires manufactured for use on any type of motor vehicle such as trucks, automobiles, motorcycles, and heavy equipment.
- **Other Tires** means tires not used on motor vehicles such as bicycle tires and lawn mower tires.
- **Remainder/Composite Special Waste** means special waste that cannot be put in any other type. Examples include asbestos-containing materials such as certain types of pipe insulation and floor tiles, auto fluff, auto bodies, trucks, trailers, truck cabs, untreated medical waste, and artificial fireplace logs.

Mixed Residue

- **Mixed Residue** means material that cannot be put in any other type. This type includes mixed residue that cannot be further sorted. Examples include clumping kitty litter, cosmetics, and residual material from a materials recovery facility or other sorting process that cannot be put in any other material type, including remainder/composite types.

Appendix C. Field Forms

Figure 28. Vehicle Selection Sheet

2020 Waste Characterization Study

Facility Vehicle Selection Form

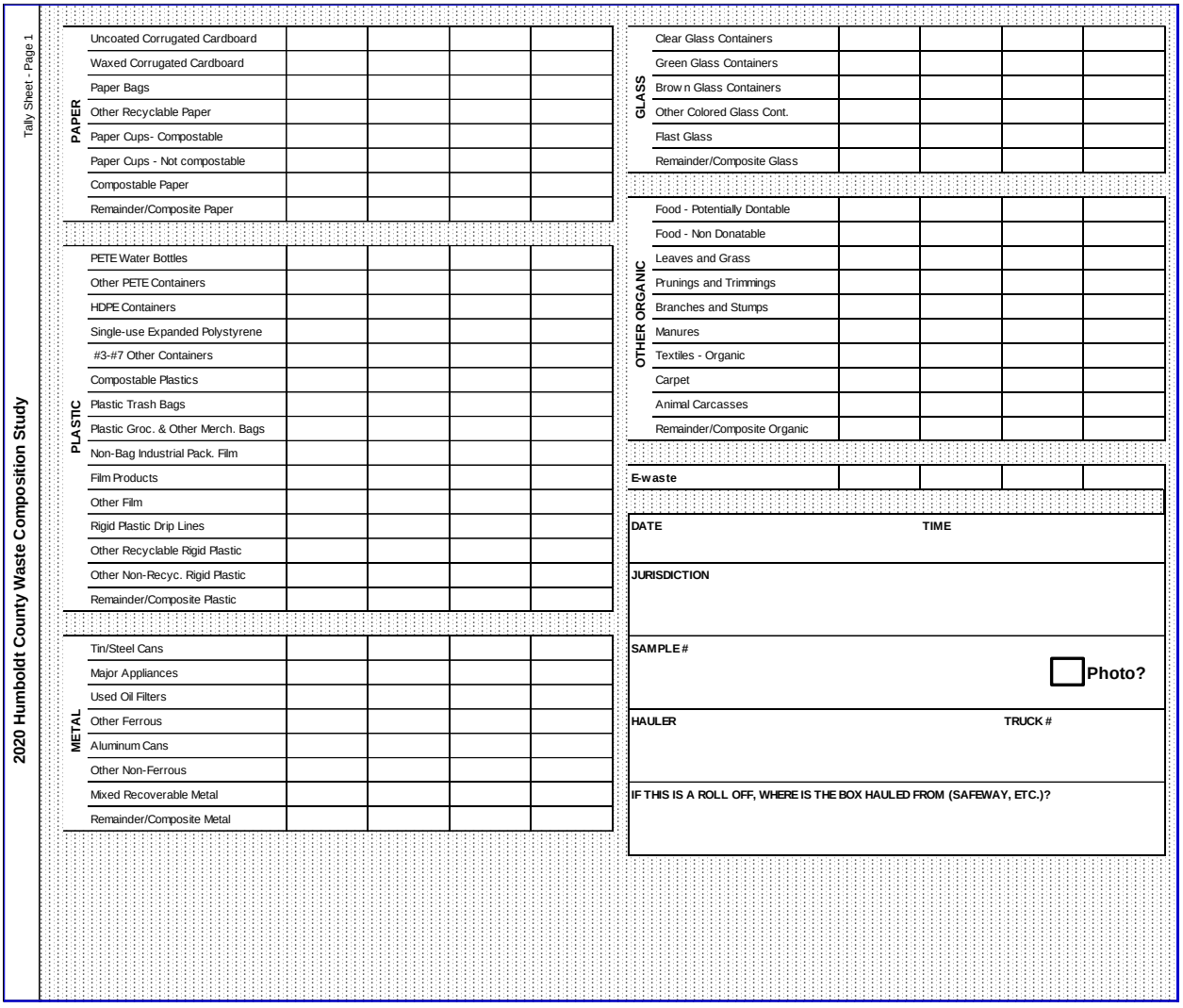
Date: Monday February 3, 2020 **Total Samples** 14

Facili Hawthorne St. Transfer Station

When the driver of the following loads arrive at your facility please direct them to tipping area set aside for selected study vehicles.

Truck #	Hauler	City/Origin	Res, Com, SH	ID	# of Samples	Comments/Notes
	Recology	Arcata	Com	01	1	This load should be tagged with pink placard.
	Recology	Arcata	Com	09	1	This load should be tagged with pink placard.
	Recology	Arcata	Res	01	1	This load should be tagged with pink placard.
	Blue Lake	Blue Lake Town	Res/Com	04	1	This load is mixed res/com. Should be tagged with pink placard.
		Blue Lake Town	SH	19	1	Get first SH from Blue Lake. If no Blue Lake SH get a SH from the County. (1) 2 3 4 5 6 7 8 9 10
	Recology	Eureka	Com	19, 20	2	This load should be tagged with pink placard.
		Eureka	SH	07	1	Get first SH from Eureka. (1) 2 3 4 5 6 7 8 9 10
	Recology	Ferndale	Res	11	1	This load should be tagged with pink placard.
		Ferndale	SH	13	1	Get first SH from Ferndale. (1) 2 3 4 5 6 7 8 9 10
	Recology	Rio Dell	Com	30	1	This load should be tagged with pink placard.
	Recology	Unicorporated County	Com	37	1	This load should be tagged with pink placard.
	Recology	Unicorporated County	Res	17	1	This load should be tagged with pink placard.
	Recology	Unicorporated County	SH	22	1	Get first SH from Unicorporated County. (1) 2 3 4 5 6 7 8 9 10

Figure 29. Hand Sort Tally Sheet, Front



2020 Humboldt County Waste Composition Study — Tally Sheet - Page 1

PAPER	Uncoated Corrugated Cardboard				
	Waxed Corrugated Cardboard				
	Paper Bags				
	Other Recyclable Paper				
	Paper Cups- Compostable				
	Paper Cups - Not compostable				
	Compostable Paper				
	Remainder/Composite Paper				
PLASTIC	PETE Water Bottles				
	Other PETE Containers				
	HDPE Containers				
	Single-use Expanded Polystyrene				
	#3-#7 Other Containers				
	Compostable Plastics				
	Plastic Trash Bags				
	Plastic Groc. & Other Merch. Bags				
	Non-Bag Industrial Pack. Film				
	Film Products				
	Other Film				
	Rigid Plastic Drip Lines				
	Other Recyclable Rigid Plastic				
	Other Non-Recyc. Rigid Plastic				
	Remainder/Composite Plastic				
METAL	Tin/Steel Cans				
	Major Appliances				
	Used Oil Filters				
	Other Ferrous				
	Aluminum Cans				
	Other Non-Ferrous				
	Mixed Recoverable Metal				
	Remainder/Composite Metal				

GLASS	Clear Glass Containers				
	Green Glass Containers				
	Brow n Glass Containers				
	Other Colored Glass Cont.				
	Flast Glass				
	Remainder/Composite Glass				
OTHER ORGANIC	Food - Potentially Dontable				
	Food - Non Donatable				
	Leaves and Grass				
	Prunings and Trimmings				
	Branches and Stumps				
	Manures				
	Textiles - Organic				
	Carpet				
	Animal Carcasses				
	Remainder/Composite Organic				
E-waste					

DATE TIME

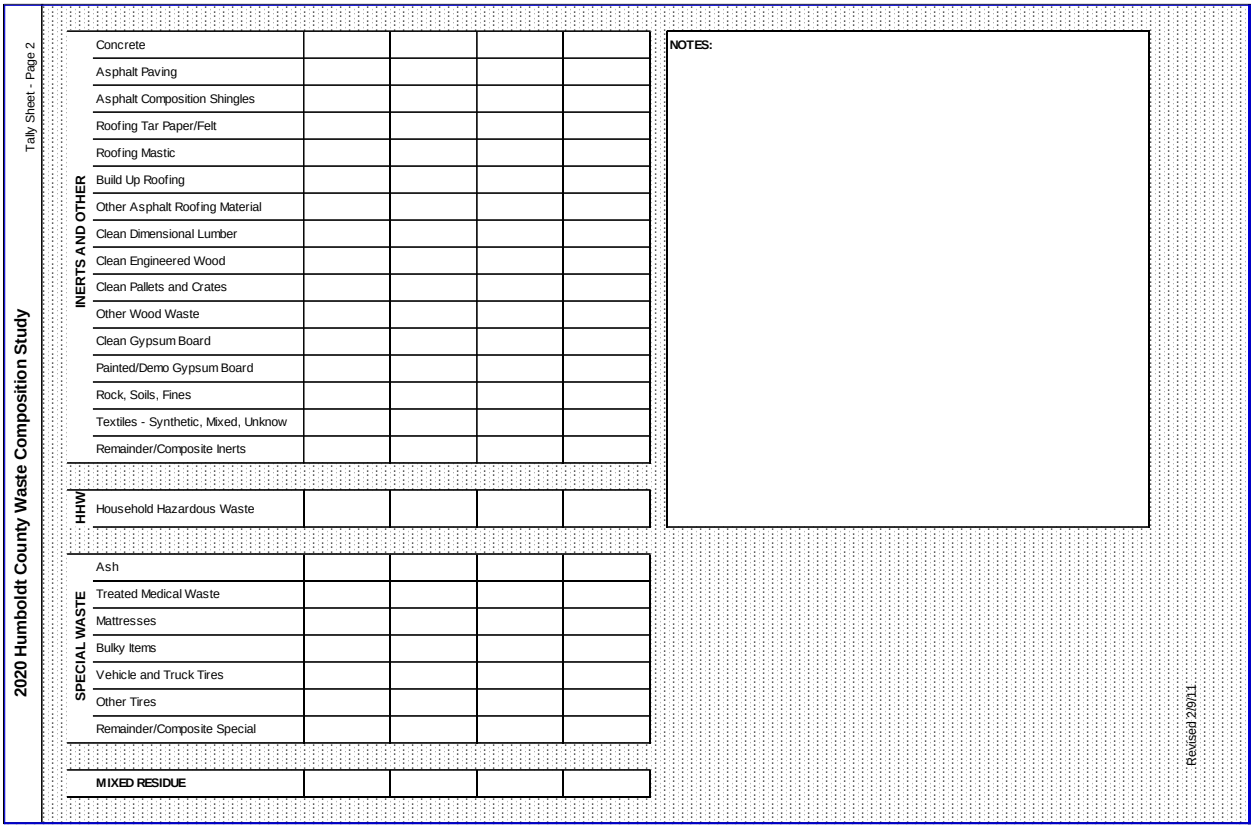
JURISDICTION

SAMPLE # ☐ Photo?

HAULER TRUCK #

IF THIS IS A ROLL OFF, WHERE IS THE BOX HAULED FROM (SAFEWAY, ETC.)?

Figure 30. Hand Sort Tally Sheet, Back



2020 Humboldt County Waste Composition Study

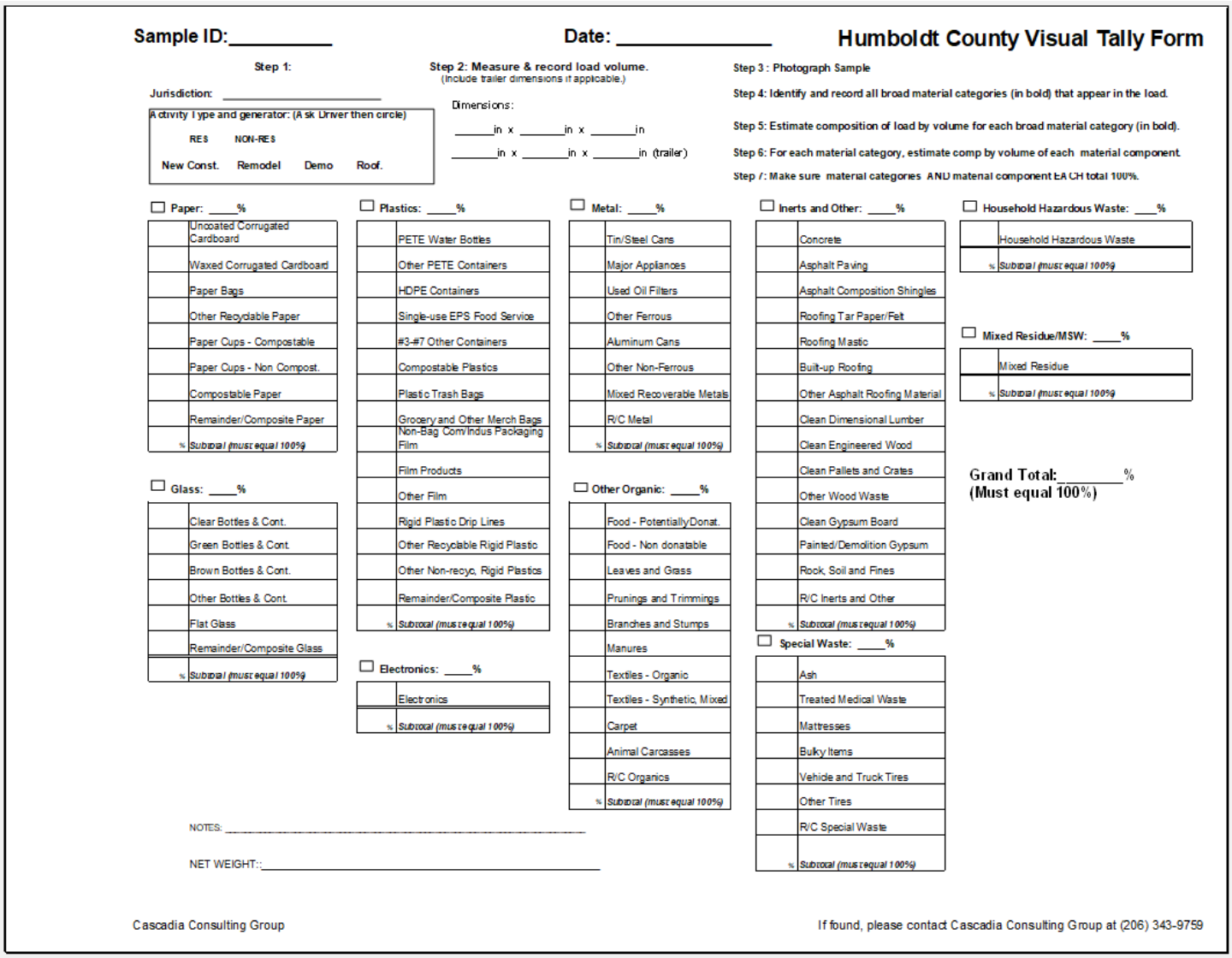
Tally Sheet - Page 2

INERTS AND OTHER	Concrete				
	Asphalt Paving				
	Asphalt Composition Shingles				
	Roofing Tar Paper/Felt				
	Roofing Mastic				
	Build Up Roofing				
	Other Asphalt Roofing Material				
	Clean Dimensional Lumber				
	Clean Engineered Wood				
	Clean Pallets and Crates				
	Other Wood Waste				
	Clean Gypsum Board				
	Painted/Demo Gypsum Board				
	Rock, Soils, Fines				
	Textiles - Synthetic, Mixed, Unknow				
	Remainder/Composite Inerts				
HHW	Household Hazardous Waste				
SPECIAL WASTE	Ash				
	Treated Medical Waste				
	Mattresses				
	Bulky Items				
	Vehicle and Truck Tires				
	Other Tires				
	Remainder/Composite Special				
MIXED RESIDUE					

NOTES:

Revised 2/9/11

Figure 31. Visual Tally Form



Sample ID:_____ **Date:** _____ **Humboldt County Visual Tally Form**

Step 1:

Jurisdiction: _____

Activity Type and generator: (Ask Driver then circle)

RES NON-RES

New Const. Remodel Demo Roof.

Step 2: Measure & record load volume.
(Include trailer dimensions if applicable.)

Dimensions:

_____in x _____in x _____in

_____in x _____in x _____in (trailer)

Step 3 : Photograph Sample

Step 4: Identify and record all broad material categories (in bold) that appear in the load.

Step 5: Estimate composition of load by volume for each broad material category (in bold).

Step 6: For each material category, estimate comp by volume of each material component.

Step 7: Make sure material categories AND material component EACH total 100%.

☐ **Paper: ____%**

	Uncoated Corrugated Cardboard
	Waxed Corrugated Cardboard
	Paper Bags
	Other Recyclable Paper
	Paper Cups - Compostable
	Paper Cups - Non Compost.
	Compostable Paper
	Remainder/Composite Paper
%	*Subtotal (must equal 100%)*

☐ **Glass: ____%**

	Clear Bottles & Cont.
	Green Bottles & Cont.
	Brown Bottles & Cont.
	Other Bottles & Cont.
	Flat Glass
	Remainder/Composite Glass
%	*Subtotal (must equal 100%)*

☐ **Plastics: ____%**

	PETE Water Bottles
	Other PETE Containers
	HDPE Containers
	Single-use EPS Food Service
	#3-#7 Other Containers
	Compostable Plastics
	Plastic Trash Bags
	Grocery and Other Merch Bags
	Non-Bag Com/Indus Packaging Film
	Film Products
	Other Film
	Rigid Plastic Drip Lines
	Other Recyclable Rigid Plastic
	Other Non-recyc. Rigid Plastics
	Remainder/Composite Plastic
%	*Subtotal (must equal 100%)*

☐ **Electronics: ____%**

	Electronics
%	*Subtotal (must equal 100%)*

☐ **Metal: ____%**

	Tin/Steel Cans
	Major Appliances
	Used Oil Filters
	Other Ferrous
	Aluminum Cans
	Other Non-Ferrous
	Mixed Recoverable Metals
	R/C Metal
%	*Subtotal (must equal 100%)*

☐ **Other Organic: ____%**

	Food - Potentially Donat.
	Food - Non donatable
	Leaves and Grass
	Prunings and Trimmings
	Branches and Stumps
	Manures
	Textiles - Organic
	Textiles - Synthetic, Mixed
	Carpet
	Animal Carcasses
	R/C Organics
%	*Subtotal (must equal 100%)*

☐ **Inerts and Other: ____%**

	Concrete
	Asphalt Paving
	Asphalt Composition Shingles
	Roofing Tar Paper/Felt
	Roofing Mastic
	Built-up Roofing
	Other Asphalt Roofing Material
	Clean Dimensional Lumber
	Clean Engineered Wood
	Clean Pallets and Crates
	Other Wood Waste
	Clean Gypsum Board
	Painted/Demolition Gypsum
	Rock, Soil and Fines
	R/C Inerts and Other
%	*Subtotal (must equal 100%)*

☐ **Special Waste: ____%**

	Ash
	Treated Medical Waste
	Mattresses
	Bulky Items
	Vehicle and Truck Tires
	Other Tires
	R/C Special Waste
%	*Subtotal (must equal 100%)*

☐ **Household Hazardous Waste: ____%**

	Household Hazardous Waste
%	*Subtotal (must equal 100%)*

☐ **Mixed Residue/MSW: ____%**

	Mixed Residue
%	*Subtotal (must equal 100%)*

Grand Total:_____%
(Must equal 100%)

NOTES: _____

NET WEIGHT:: _____

Cascadia Consulting Group

If found, please contact Cascadia Consulting Group at (206) 343-9759

Figure 32. Sample Placard

<table>
<tr><td rowspan="3">Facility: Hawthorne St
Hauler: Recology</td><td colspan="2">Jurisdiction:
Arcata</td><td>Cell: 10
Route: 515</td></tr>
<tr><td colspan="2">Sector:
Commercial</td><td>Sample ID:
Com-01</td></tr>
<tr><td colspan="2">Monday,
2/3/2020</td><td># of Samples:
1</td></tr>
</table>

Appendix D. Detailed Results

Table 20. Detailed Material Composition, Overall

Material	Estimated Percent	+/-	Estimated Tons	Material	Estimated Percent	+/-	Estimated Tons
PAPER	**20.0%**	**2.8%**	**18,123**	**OTHER ORGANIC**	**32.0%**	**3.4%**	**29,056**
Uncoated Corrugated Cardboard	3.6%	1.4%	3,235	Food - Potentially Donatable	2.9%	1.2%	2,609
Waxed Corrugated Cardboard	0.0%	0.0%	21	Food - Not Donatable	16.8%	2.6%	15,263
Paper Bags	0.8%	0.2%	697	Leaves Grass	1.4%	0.9%	1,235
Other Recyclable Paper	6.8%	1.4%	6,157	Prunings Trimmings	1.1%	0.6%	956
Paper Cups - Compostable	0.1%	0.1%	125	Branches Stumps	0.0%	0.0%	23
Paper Cups - Not Compostable	0.3%	0.1%	242	Manures	0.0%	0.0%	0
Compostable Paper	5.8%	0.8%	5,221	Textiles - Organic	4.1%	2.3%	3,724
R/C Paper	2.7%	0.6%	2,425	Carpet	0.4%	0.3%	365
PLASTIC	**12.9%**	**1.4%**	**11,723**	Animal Carcasses	0.0%	0.0%	0
PETE Water Bottles	0.7%	0.2%	606	R/C Organic	5.4%	1.1%	4,881
Other PETE Containers	0.5%	0.2%	497	**INERTS & OTHER**	**14.1%**	**5.8%**	**12,796**
HDPE Containers	0.6%	0.1%	540	Concrete	0.0%	0.1%	36
Single-Use Polystyrene Food Service Items	0.1%	0.0%	117	Asphalt Paving	0.0%	0.0%	0
#3-#7 Other Containers	1.0%	0.2%	901	Asphalt Composition Shingles	0.2%	0.2%	159
Compostable Plastics	0.0%	0.0%	21	Roofing Tar Paper/Felt	0.1%	0.1%	54
Plastic Trash Bags	2.0%	0.3%	1,807	Roofing Mastic	0.0%	0.0%	0
Plastic Grocery and Other Merchandise Bags	0.3%	0.1%	236	Built-up Roofing	0.0%	0.0%	0
Non-Bag Commercial Industrial Packaging Film	0.8%	0.4%	705	Other Asphalt Roofing Material	0.0%	0.0%	0
Film Products	0.5%	0.4%	443	Clean Dimensional Lumbar	1.2%	0.7%	1,077
Other Film	3.6%	0.5%	3,268	Clean Engineered Wood	1.1%	1.6%	1,025
Rigid Plastic Drip Lines	0.0%	0.0%	4	Clean Pallets Crates	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.3%	0.5%	1,149	Other Wood Waste	3.8%	2.9%	3,464
Other Non-Recyclable Rigid Plastic	0.2%	0.1%	221	Clean Gypsum Board	1.5%	2.3%	1,338
R/C Plastic	1.3%	0.4%	1,208	Painted/Demolition Gypsum Board	0.0%	0.0%	25
GLASS	**5.9%**	**3.6%**	**5,358**	Rock, Soil, and Fines	3.3%	3.2%	3,038
Clear Glass Bottles Containers	3.3%	1.8%	2,986	Textiles - Synthetic, Mixed, Unknown	2.1%	0.7%	1,909
Green Glass Bottles Containers	0.3%	0.3%	270	R/C Inerts and Other	0.7%	0.3%	673
Brown Glass Bottles Containers	0.1%	0.0%	128	**ELECTRONICS**	**1.0%**	**0.7%**	**938**
Other Colored Glass Bottles Containers	0.0%	0.0%	0	E-Waste	1.0%	0.7%	938
Flat Glass	2.1%	3.2%	1,863	**HHW**	**0.6%**	**0.6%**	**585**
R/C Glass	0.1%	0.1%	110	Household Hazardous Waste	0.6%	0.6%	585
METAL	**8.1%**	**4.1%**	**7,340**	**SPECIAL WASTE**	**2.6%**	**2.3%**	**2,383**
Tin/Steel Cans	0.8%	0.2%	719	Ash	0.0%	0.0%	9
Major Appliances	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	Mattresses	0.3%	0.4%	294
Other Ferrous	3.9%	3.8%	3,525	Bulky Items	2.1%	2.0%	1,879
Aluminum Cans	0.4%	0.1%	352	Vehicle and Truck Tires	0.0%	0.0%	0
Other Non-ferrous	0.4%	0.2%	389	Other Tires	0.0%	0.0%	4
Mixed Recoverable Metal	1.1%	1.1%	1,000	R/C Special Waste	0.2%	0.2%	197
R/C Metal	1.5%	1.3%	1,355	**MIXED RESIDUE**	**2.7%**	**0.6%**	**2,428**
				Mixed Residue	2.7%	0.6%	2,428
Sample Count			**96**	**Total Tons**			**90,729**

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

Recoverable Paper	**11.1%**	2.4%	**10,089**
Other Recoverables	**13.4%**	4.2%	**12,166**
Compostable/Potentially Compostable	**28.1%**	3.7%	**25,473**
Potentially Recoverable	**17.1%**	5.6%	**15,510**
Problem Materials	**30.3%**	3.6%	**27,491**
Totals	**100.0%**		**90,729**

Table 21. Detailed Material Composition, Residential

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**22.7%**	**2.4%**	**5,139**
Uncoated Corrugated Cardboard	1.3%	0.9%	285
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.8%	0.1%	176
Other Recyclable Paper	8.4%	1.1%	1,891
Paper Cups - Compostable	0.1%	0.0%	13
Paper Cups - Not Compostable	0.2%	0.1%	48
Compostable Paper	8.8%	1.6%	1,989
R/C Paper	3.3%	0.4%	739
PLASTIC	**15.0%**	**2.5%**	**3,396**
PETE Water Bottles	0.5%	0.1%	120
Other PETE Containers	0.7%	0.3%	158
HDPE Containers	0.4%	0.1%	94
Single-Use Polystyrene Food Service Items	0.3%	0.2%	59
#3-#7 Other Containers	1.2%	0.3%	269
Compostable Plastics	0.0%	0.0%	9
Plastic Trash Bags	2.9%	0.5%	664
Plastic Grocery and Other Merchandise Bags	0.4%	0.1%	95
Non-Bag Commercial Industrial Packaging Film	0.2%	0.2%	40
Film Products	0.5%	0.7%	110
Other Film	5.4%	1.0%	1,226
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.7%	0.3%	160
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	7
R/C Plastic	1.7%	1.0%	386
GLASS	**1.9%**	**0.5%**	**425**
Clear Glass Bottles Containers	1.4%	0.5%	323
Green Glass Bottles Containers	0.2%	0.2%	55
Brown Glass Bottles Containers	0.1%	0.1%	26
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.1%	0.1%	20
METAL	**3.4%**	**0.7%**	**771**
Tin/Steel Cans	1.1%	0.3%	258
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.6%	0.4%	143
Aluminum Cans	0.3%	0.1%	64
Other Non-ferrous	0.7%	0.4%	148
Mixed Recoverable Metal	0.3%	0.2%	77
R/C Metal	0.4%	0.2%	82
OTHER ORGANIC	**45.5%**	**4.8%**	**10,276**
Food - Potentially Donatable	2.5%	0.9%	573
Food - Not Donatable	23.1%	2.9%	5,214
Leaves Grass	1.2%	1.3%	275
Prunings Trimmings	0.7%	0.6%	163
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	4.0%	1.5%	910
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	13.9%	3.9%	3,140
INERTS & OTHER	**4.9%**	**1.5%**	**1,113**
Concrete	0.0%	0.0%	1
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.4%	0.5%	85
Roofing Tar Paper/Felt	0.0%	0.0%	5
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.2%	0.1%	37
Clean Engineered Wood	0.0%	0.0%	10
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.4%	0.2%	80
Clean Gypsum Board	0.0%	0.0%	2
Painted/Demolition Gypsum Board	0.1%	0.1%	14
Rock, Soil, and Fines	0.0%	0.0%	7
Textiles - Synthetic, Mixed, Unknown	2.4%	1.0%	553
R/C Inerts and Other	1.4%	0.7%	318
ELECTRONICS	**0.1%**	**0.1%**	**26**
E-Waste	0.1%	0.1%	26
HHW	**0.2%**	**0.1%**	**48**
Household Hazardous Waste	0.2%	0.1%	48
SPECIAL WASTE	**0.0%**	**0.0%**	**2**
Ash	0.0%	0.0%	2
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**6.2%**	**1.8%**	**1,406**
Mixed Residue	6.2%	1.8%	1,406
Sample Count			**18**
Total Tons			**22,602**

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

Recoverable Paper	**10.4%**	1.8%	**2,351**
Other Recoverables	**7.2%**	0.7%	**1,626**
Compostable/Potentially Compostable	**36.4%**	3.2%	**8,237**
Potentially Recoverable	**8.3%**	2.1%	**1,887**
Problem Materials	**37.6%**	3.3%	**8,501**
Totals	**100.0%**		**22,602**

Table 22. Detailed Material Composition, Commercial

Material	Estimated Percent	+/-	Estimated Tons	Material	Estimated Percent	+/-	Estimated Tons
PAPER	**23.9%**	**2.6%**	**6,988**	**OTHER ORGANIC**	**34.6%**	**3.6%**	**10,108**
Uncoated Corrugated Cardboard	4.8%	1.2%	1,399	Food - Potentially Donatable	2.1%	0.9%	615
Waxed Corrugated Cardboard	0.0%	0.0%	13	Food - Not Donatable	20.6%	3.7%	6,003
Paper Bags	0.7%	0.2%	212	Leaves Grass	1.9%	2.0%	560
Other Recyclable Paper	6.6%	1.0%	1,921	Prunings Trimmings	1.2%	0.9%	358
Paper Cups - Compostable	0.4%	0.3%	107	Branches Stumps	0.1%	0.1%	18
Paper Cups - Not Compostable	0.6%	0.2%	176	Manures	0.0%	0.0%	0
Compostable Paper	8.2%	1.5%	2,387	Textiles - Organic	3.2%	1.4%	926
R/C Paper	2.6%	0.5%	773	Carpet	0.8%	0.5%	236
PLASTIC	**17.9%**	**2.6%**	**5,223**	Animal Carcasses	0.0%	0.0%	0
PETE Water Bottles	0.7%	0.2%	212	R/C Organic	4.8%	1.5%	1,391
Other PETE Containers	0.4%	0.1%	120	**INERTS & OTHER**	**6.9%**	**1.9%**	**2,023**
HDPE Containers	1.0%	0.3%	293	Concrete	0.1%	0.2%	35
Single-Use Polystyrene Food Service Items	0.2%	0.0%	45	Asphalt Paving	0.0%	0.0%	0
#3-#7 Other Containers	1.3%	0.3%	389	Asphalt Composition Shingles	0.0%	0.0%	4
Compostable Plastics	0.0%	0.0%	11	Roofing Tar Paper/Felt	0.0%	0.0%	14
Plastic Trash Bags	3.1%	0.6%	903	Roofing Mastic	0.0%	0.0%	0
Plastic Grocery and Other Merchandise Bags	0.2%	0.0%	63	Built-up Roofing	0.0%	0.0%	0
Non-Bag Commercial Industrial Packaging Film	2.0%	1.2%	581	Other Asphalt Roofing Material	0.0%	0.0%	0
Film Products	1.0%	1.2%	280	Clean Dimensional Lumbar	1.0%	0.8%	284
Other Film	5.3%	1.1%	1,541	Clean Engineered Wood	0.1%	0.0%	18
Rigid Plastic Drip Lines	0.0%	0.0%	4	Clean Pallets Crates	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.4%	0.6%	406	Other Wood Waste	2.0%	1.1%	579
Other Non-Recyclable Rigid Plastic	0.1%	0.0%	41	Clean Gypsum Board	0.0%	0.0%	3
R/C Plastic	1.1%	0.4%	332	Painted/Demolition Gypsum Board	0.0%	0.0%	10
GLASS	**1.4%**	**0.3%**	**420**	Rock, Soil, and Fines	1.1%	1.2%	333
Clear Glass Bottles Containers	0.8%	0.2%	242	Textiles - Synthetic, Mixed, Unknown	2.1%	0.8%	606
Green Glass Bottles Containers	0.1%	0.1%	21	R/C Inerts and Other	0.5%	0.1%	136
Brown Glass Bottles Containers	0.3%	0.1%	84	**ELECTRONICS**	**1.8%**	**1.8%**	**533**
Other Colored Glass Bottles Containers	0.0%	0.0%	0	E-Waste	1.8%	1.8%	533
Flat Glass	0.1%	0.2%	39	**HHW**	**1.7%**	**1.9%**	**492**
R/C Glass	0.1%	0.1%	33	Household Hazardous Waste	1.7%	1.9%	492
METAL	**7.6%**	**3.8%**	**2,233**	**SPECIAL WASTE**	**1.0%**	**0.7%**	**297**
Tin/Steel Cans	1.0%	0.5%	305	Ash	0.0%	0.0%	6
Major Appliances	0.0%	0.0%	0	Treated Medical Waste	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0	Mattresses	0.2%	0.4%	73
Other Ferrous	4.1%	3.2%	1,203	Bulky Items	0.1%	0.1%	19
Aluminum Cans	0.3%	0.1%	75	Vehicle and Truck Tires	0.0%	0.0%	0
Other Non-ferrous	0.5%	0.2%	136	Other Tires	0.0%	0.0%	4
Mixed Recoverable Metal	1.0%	0.8%	287	R/C Special Waste	0.7%	0.6%	195
R/C Metal	0.8%	0.4%	227	**MIXED RESIDUE**	**3.0%**	**1.0%**	**884**
				Mixed Residue	3.0%	1.0%	884
Sample Count			**43**	**Total Tons**			**29,199**

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

Recoverable Paper	**12.1%**	1.7%	**3,532**
Other Recoverables	**11.6%**	3.6%	**3,388**
Compostable/Potentially Compostable	**34.5%**	4.6%	**10,074**
Potentially Recoverable	**14.1%**	3.1%	**4,117**
Problem Materials	**27.7%**	2.9%	**8,087**
Totals	**100.0%**		**29,199**

Table 23. Detailed Material Composition, Combined Sector

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**28.1%**	**1.8%**	**379**
Uncoated Corrugated Cardboard	2.7%	0.6%	36
Waxed Corrugated Cardboard	1.4%	0.8%	18
Paper Bags	1.2%	0.2%	17
Other Recyclable Paper	8.0%	0.5%	108
Paper Cups - Compostable	0.1%	0.0%	1
Paper Cups - Not Compostable	0.4%	0.1%	5
Compostable Paper	11.8%	1.6%	158
R/C Paper	2.7%	0.5%	36
PLASTIC	**14.2%**	**1.3%**	**192**
PETE Water Bottles	1.1%	0.2%	15
Other PETE Containers	0.6%	0.1%	8
HDPE Containers	0.4%	0.1%	6
Single-Use Polystyrene Food Service Items	0.1%	0.0%	2
#3-#7 Other Containers	0.8%	0.1%	10
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	2.5%	0.3%	34
Plastic Grocery and Other Merchandise Bags	0.2%	0.0%	2
Non-Bag Commercial Industrial Packaging Film	0.1%	0.0%	1
Film Products	0.6%	0.2%	8
Other Film	4.2%	0.2%	57
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.3%	0.5%	17
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	2.3%	0.8%	31
GLASS	**4.2%**	**0.9%**	**56**
Clear Glass Bottles Containers	3.3%	0.7%	44
Green Glass Bottles Containers	0.0%	0.0%	1
Brown Glass Bottles Containers	0.7%	0.1%	9
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.1%	0.1%	1
R/C Glass	0.1%	0.1%	2
METAL	**3.3%**	**1.0%**	**45**
Tin/Steel Cans	0.5%	0.1%	7
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.3%	0.1%	4
Aluminum Cans	0.6%	0.1%	8
Other Non-ferrous	0.2%	0.1%	3
Mixed Recoverable Metal	1.7%	0.6%	23
R/C Metal	0.0%	0.0%	0
OTHER ORGANIC	**38.4%**	**0.9%**	**517**
Food - Potentially Donatable	2.5%	1.0%	34
Food - Not Donatable	20.3%	3.2%	273
Leaves Grass	0.2%	0.1%	3
Prunings Trimmings	0.2%	0.1%	2
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	2.2%	0.6%	30
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	13.0%	3.3%	175
INERTS & OTHER	**6.9%**	**2.3%**	**93**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.2%	0.0%	3
Clean Engineered Wood	0.3%	0.1%	4
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.7%	0.3%	10
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	3.5%	2.3%	48
Textiles - Synthetic, Mixed, Unknown	2.0%	1.0%	27
R/C Inerts and Other	0.1%	0.1%	2
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.3%**	**0.2%**	**4**
Household Hazardous Waste	0.3%	0.2%	4
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**4.5%**	**0.5%**	**61**
Mixed Residue	4.5%	0.5%	61
Sample Count			**8**
Total Tons			**1,348**

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

Recoverable Paper	**11.9%**	0.9%	**161**
Other Recoverables	**10.7%**	2.1%	**144**
Compostable/Potentially Compostable	**36.3%**	3.8%	**490**
Potentially Recoverable	**6.1%**	0.8%	**82**
Problem Materials	**34.9%**	3.5%	**471**
Totals	**100.0%**		**1,348**

Table 24. Detailed Material Composition, Self-haul

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**15.1%**	**6.3%**	**5,678**
Uncoated Corrugated Cardboard	4.0%	3.2%	1,508
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.8%	0.6%	296
Other Recyclable Paper	6.0%	3.2%	2,246
Paper Cups - Compostable	0.0%	0.0%	4
Paper Cups - Not Compostable	0.0%	0.0%	14
Compostable Paper	1.9%	1.1%	732
R/C Paper	2.3%	1.3%	878
PLASTIC	**7.8%**	**2.1%**	**2,922**
PETE Water Bottles	0.7%	0.5%	261
Other PETE Containers	0.6%	0.3%	211
HDPE Containers	0.4%	0.3%	146
Single-Use Polystyrene Food Service Items	0.0%	0.0%	10
#3-#7 Other Containers	0.6%	0.4%	231
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	0.6%	0.2%	211
Plastic Grocery and Other Merchandise Bags	0.2%	0.2%	75
Non-Bag Commercial Industrial Packaging Film	0.2%	0.2%	78
Film Products	0.1%	0.1%	45
Other Film	1.2%	0.8%	449
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.5%	1.1%	566
Other Non-Recyclable Rigid Plastic	0.5%	0.3%	171
R/C Plastic	1.2%	0.7%	467
GLASS	**11.8%**	**8.6%**	**4,444**
Clear Glass Bottles Containers	6.3%	4.3%	2,376
Green Glass Bottles Containers	0.5%	0.7%	191
Brown Glass Bottles Containers	0.0%	0.0%	14
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	4.8%	7.7%	1,807
R/C Glass	0.1%	0.1%	54
METAL	**11.3%**	**9.5%**	**4,255**
Tin/Steel Cans	0.4%	0.3%	147
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	5.7%	8.8%	2,147
Aluminum Cans	0.6%	0.3%	207
Other Non-ferrous	0.3%	0.3%	101
Mixed Recoverable Metal	1.6%	2.5%	618
R/C Metal	2.8%	3.2%	1,035
OTHER ORGANIC	**21.8%**	**7.1%**	**8,203**
Food - Potentially Donatable	3.7%	2.6%	1,384
Food - Not Donatable	10.1%	5.2%	3,799
Leaves Grass	1.0%	1.4%	388
Prunings Trimmings	1.1%	1.1%	426
Branches Stumps	0.0%	0.0%	4
Manures	0.0%	0.0%	0
Textiles - Organic	4.9%	5.4%	1,843
Carpet	0.3%	0.5%	126
Animal Carcasses	0.0%	0.0%	0
R/C Organic	0.6%	0.8%	234
INERTS & OTHER	**25.3%**	**13.8%**	**9,511**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.2%	0.3%	68
Roofing Tar Paper/Felt	0.1%	0.2%	35
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	2.0%	1.6%	745
Clean Engineered Wood	2.6%	3.8%	986
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	7.4%	6.9%	2,771
Clean Gypsum Board	3.5%	5.6%	1,321
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	7.1%	7.7%	2,651
Textiles - Synthetic, Mixed, Unknown	1.9%	1.5%	723
R/C Inerts and Other	0.6%	0.5%	213
ELECTRONICS	**1.0%**	**0.8%**	**371**
E-Waste	1.0%	0.8%	371
HHW	**0.1%**	**0.1%**	**39**
Household Hazardous Waste	0.1%	0.1%	39
SPECIAL WASTE	**5.5%**	**5.5%**	**2,064**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.6%	0.9%	219
Bulky Items	4.9%	4.8%	1,843
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	1
MIXED RESIDUE	**0.2%**	**0.2%**	**92**
Mixed Residue	0.2%	0.1%	92
Sample Count			**27**
Total Tons			**37,578**

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

Recoverable Paper	**10.8%**	5.6%	**4,051**
Other Recoverables	**18.6%**	9.8%	**6,986**
Compostable/Potentially Compostable	**17.9%**	7.9%	**6,737**
Potentially Recoverable	**24.9%**	13.2%	**9,338**
Problem Materials	**27.9%**	8.2%	**10,466**
Totals	**100.0%**		**37,578**

Table 25. Detailed Material Composition, Arcata, Overall

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**24.8%**	**2.6%**	**2,519**
Uncoated Corrugated Cardboard	4.3%	1.8%	437
Waxed Corrugated Cardboard	0.1%	0.1%	12
Paper Bags	1.0%	0.3%	105
Other Recyclable Paper	9.2%	2.0%	933
Paper Cups - Compostable	0.4%	0.6%	44
Paper Cups - Not Compostable	0.3%	0.2%	31
Compostable Paper	7.2%	1.3%	727
R/C Paper	2.3%	0.6%	230
PLASTIC	**15.2%**	**2.6%**	**1,544**
PETE Water Bottles	0.4%	0.1%	41
Other PETE Containers	0.4%	0.1%	35
HDPE Containers	1.0%	0.5%	102
Single-Use Polystyrene Food Service Items	0.1%	0.1%	14
#3-#7 Other Containers	1.7%	0.7%	174
Compostable Plastics	0.0%	0.0%	2
Plastic Trash Bags	2.6%	0.4%	259
Plastic Grocery and Other Merchandise Bags	0.3%	0.1%	25
Non-Bag Commercial Industrial Packaging Film	1.0%	0.9%	96
Film Products	0.0%	0.0%	2
Other Film	5.0%	1.0%	505
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.4%	0.6%	139
Other Non-Recyclable Rigid Plastic	0.1%	0.0%	5
R/C Plastic	1.4%	0.6%	145
GLASS	**1.6%**	**0.5%**	**161**
Clear Glass Bottles Containers	0.7%	0.2%	72
Green Glass Bottles Containers	0.2%	0.2%	19
Brown Glass Bottles Containers	0.4%	0.1%	37
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.3%	0.3%	33
METAL	**3.3%**	**1.1%**	**337**
Tin/Steel Cans	0.6%	0.2%	65
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.8%	0.5%	80
Aluminum Cans	0.2%	0.1%	25
Other Non-ferrous	0.5%	0.2%	49
Mixed Recoverable Metal	0.6%	0.4%	63
R/C Metal	0.5%	0.3%	54
OTHER ORGANIC	**30.2%**	**4.2%**	**3,061**
Food - Potentially Donatable	0.9%	0.4%	87
Food - Not Donatable	13.0%	2.3%	1,319
Leaves Grass	0.7%	0.9%	72
Prunings Trimmings	1.6%	1.5%	166
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	5.4%	1.5%	543
Carpet	0.5%	0.8%	48
Animal Carcasses	0.0%	0.0%	0
R/C Organic	8.1%	3.7%	823
INERTS & OTHER	**15.0%**	**4.0%**	**1,525**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.8%	1.2%	83
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.9%	2.1%	196
Clean Engineered Wood	0.0%	0.0%	5
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	3.6%	2.0%	366
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	2
Rock, Soil, and Fines	3.7%	3.9%	373
Textiles - Synthetic, Mixed, Unknown	3.3%	1.7%	338
R/C Inerts and Other	1.6%	0.9%	164
ELECTRONICS	**2.5%**	**2.1%**	**253**
E-Waste	2.5%	2.1%	253
HHW	**0.5%**	**0.3%**	**46**
Household Hazardous Waste	0.5%	0.3%	46
SPECIAL WASTE	**0.4%**	**0.3%**	**36**
Ash	0.0%	0.0%	2
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.1%	4
R/C Special Waste	0.3%	0.3%	31
MIXED RESIDUE	**6.5%**	**1.7%**	**656**
Mixed Residue	6.5%	1.7%	656
Sample Count			**23**
Total Tons			**10,138**

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

Recoverable Paper	**14.6%**	2.2%	**1,475**
Other Recoverables	**7.2%**	1.4%	**729**
Compostable/Potentially Compostable	**24.0%**	4.2%	**2,430**
Potentially Recoverable	**19.6%**	4.5%	**1,984**
Problem Materials	**34.7%**	5.6%	**3,520**
Totals	**100.0%**		**10,138**

Figure 33. Composition by Recoverability Group, Arcata, Commercial

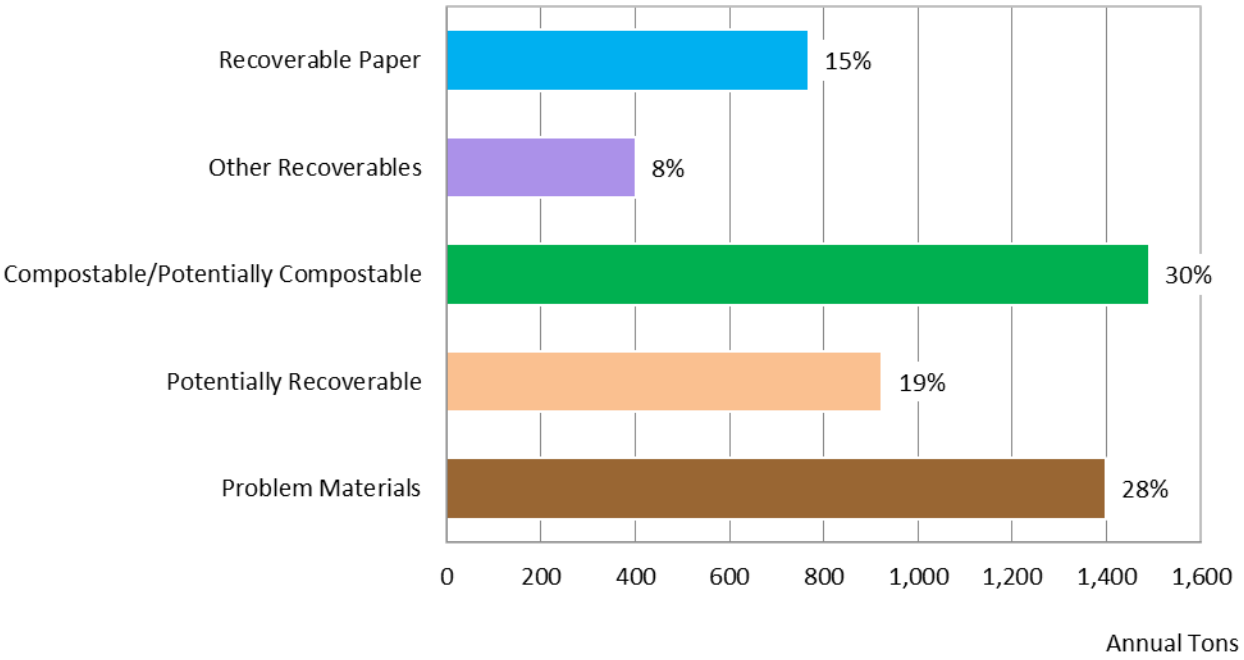


Figure 34. Composition by Material Class, Arcata, Commercial

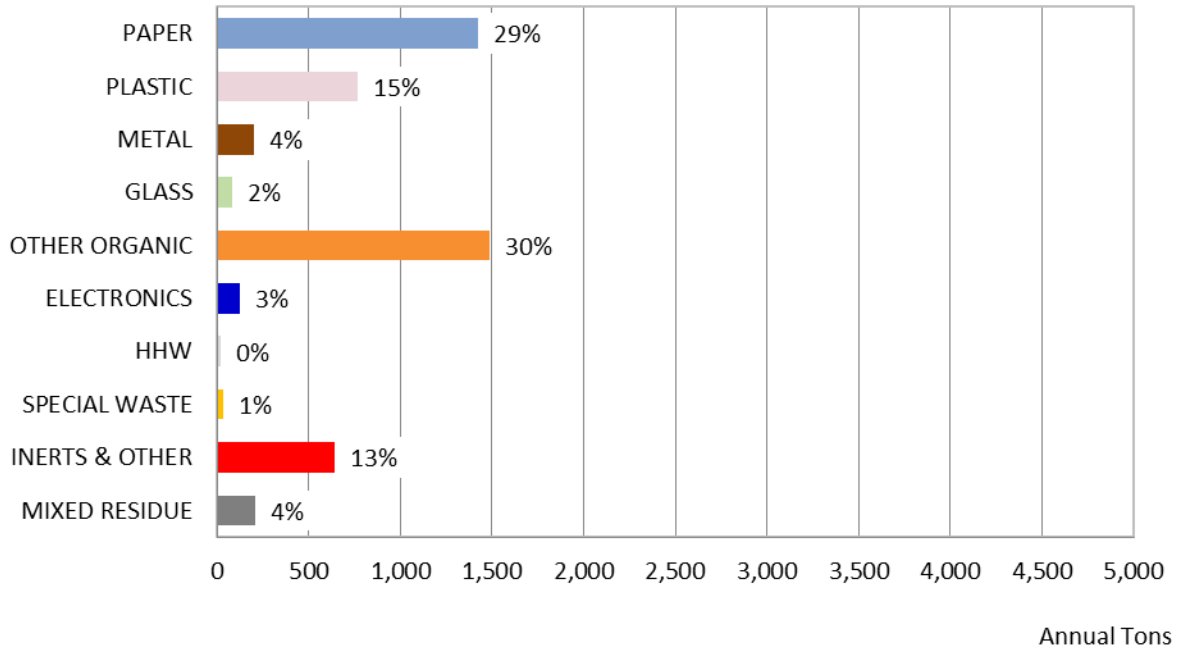


Table 26. Ten Most Prevalent Materials, Arcata, Commercial

Material	Est. Percent	Est. Tons
Food - Not Donatable	17.2%	855
Compostable Paper	9.2%	460
Other Recyclable Paper	8.3%	413
Other Wood Waste	6.5%	322
Uncoated Corrugated Cardboard	6.0%	299
Other Film	5.2%	259
R/C Organic	4.7%	232
Textiles - Organic	4.5%	226
Mixed Residue	4.1%	205
Plastic Trash Bags	3.0%	152
Total for Top Materials	**68.7%**	**3,424**

Table 27. Detailed Material Composition, Arcata, Commercial

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**28.6%**	**4.1%**	**1,423**
Uncoated Corrugated Cardboard	6.0%	3.3%	299
Waxed Corrugated Cardboard	0.2%	0.2%	12
Paper Bags	1.1%	0.3%	55
Other Recyclable Paper	8.3%	2.1%	413
Paper Cups - Compostable	0.8%	1.2%	38
Paper Cups - Not Compostable	0.5%	0.4%	24
Compostable Paper	9.2%	2.2%	460
R/C Paper	2.4%	1.1%	121
PLASTIC	**15.4%**	**2.8%**	**766**
PETE Water Bottles	0.4%	0.1%	19
Other PETE Containers	0.4%	0.1%	18
HDPE Containers	1.3%	0.9%	66
Single-Use Polystyrene Food Service Items	0.1%	0.1%	6
#3-#7 Other Containers	1.2%	0.3%	61
Compostable Plastics	0.0%	0.0%	1
Plastic Trash Bags	3.0%	0.7%	152
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	10
Non-Bag Commercial Industrial Packaging Film	0.7%	0.4%	33
Film Products	0.0%	0.0%	2
Other Film	5.2%	1.6%	259
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.0%	0.3%	48
Other Non-Recyclable Rigid Plastic	0.1%	0.0%	5
R/C Plastic	1.7%	1.0%	87
GLASS	**1.7%**	**0.4%**	**83**
Clear Glass Bottles Containers	1.0%	0.4%	52
Green Glass Bottles Containers	0.1%	0.1%	7
Brown Glass Bottles Containers	0.5%	0.2%	23
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	2
METAL	**4.0%**	**1.9%**	**200**
Tin/Steel Cans	1.0%	0.4%	48
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	1.2%	0.9%	59
Aluminum Cans	0.2%	0.0%	10
Other Non-ferrous	0.7%	0.3%	36
Mixed Recoverable Metal	0.4%	0.4%	18
R/C Metal	0.6%	0.6%	29
OTHER ORGANIC	**29.8%**	**3.7%**	**1,485**
Food - Potentially Donatable	1.2%	0.8%	58
Food - Not Donatable	17.2%	3.7%	855
Leaves Grass	0.1%	0.1%	5
Prunings Trimmings	1.2%	1.9%	60
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	4.5%	2.8%	226
Carpet	1.0%	1.5%	48
Animal Carcasses	0.0%	0.0%	0
R/C Organic	4.7%	1.8%	232
INERTS & OTHER	**12.8%**	**5.4%**	**640**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.4%	0.6%	22
Clean Engineered Wood	0.0%	0.0%	0
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	6.5%	4.0%	322
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.1%	2
Rock, Soil, and Fines	2.5%	4.0%	126
Textiles - Synthetic, Mixed, Unknown	2.3%	1.1%	114
R/C Inerts and Other	1.1%	0.7%	53
ELECTRONICS	**2.5%**	**3.2%**	**125**
E-Waste	2.5%	3.2%	125
HHW	**0.4%**	**0.6%**	**22**
Household Hazardous Waste	0.4%	0.6%	22
SPECIAL WASTE	**0.7%**	**0.6%**	**33**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.1%	0.1%	4
R/C Special Waste	0.6%	0.6%	30
MIXED RESIDUE	**4.1%**	**1.5%**	**205**
Mixed Residue	4.1%	1.5%	205
Sample Count			**13**
Total Tons			**4,982**

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

Recoverable Paper	**15.4%**	3.6%	**767**
Other Recoverables	**8.1%**	2.2%	**402**
Compostable/Potentially Compostable	**29.9%**	5.9%	**1,490**
Potentially Recoverable	**18.6%**	5.6%	**924**
Problem Materials	**28.1%**	4.8%	**1,398**
Totals	**100.0%**		**4,982**

Figure 35. Composition by Recoverability Group, Arcata, Residential

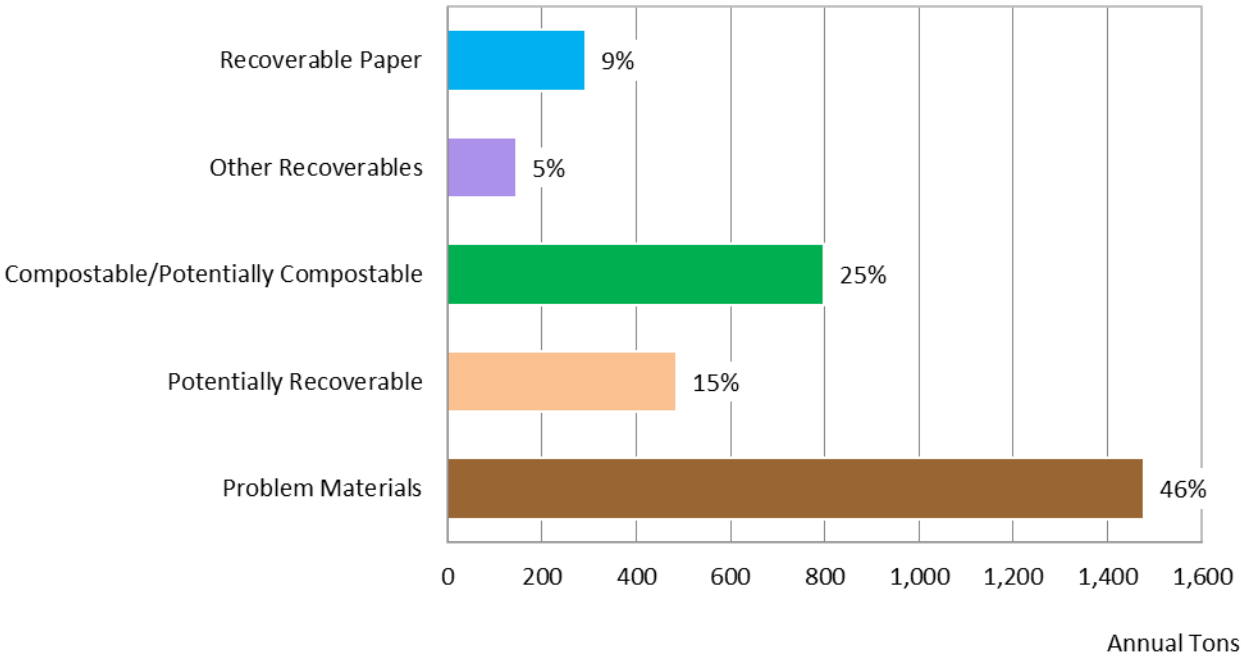


Figure 36. Composition by Material Class, Arcata, Residential

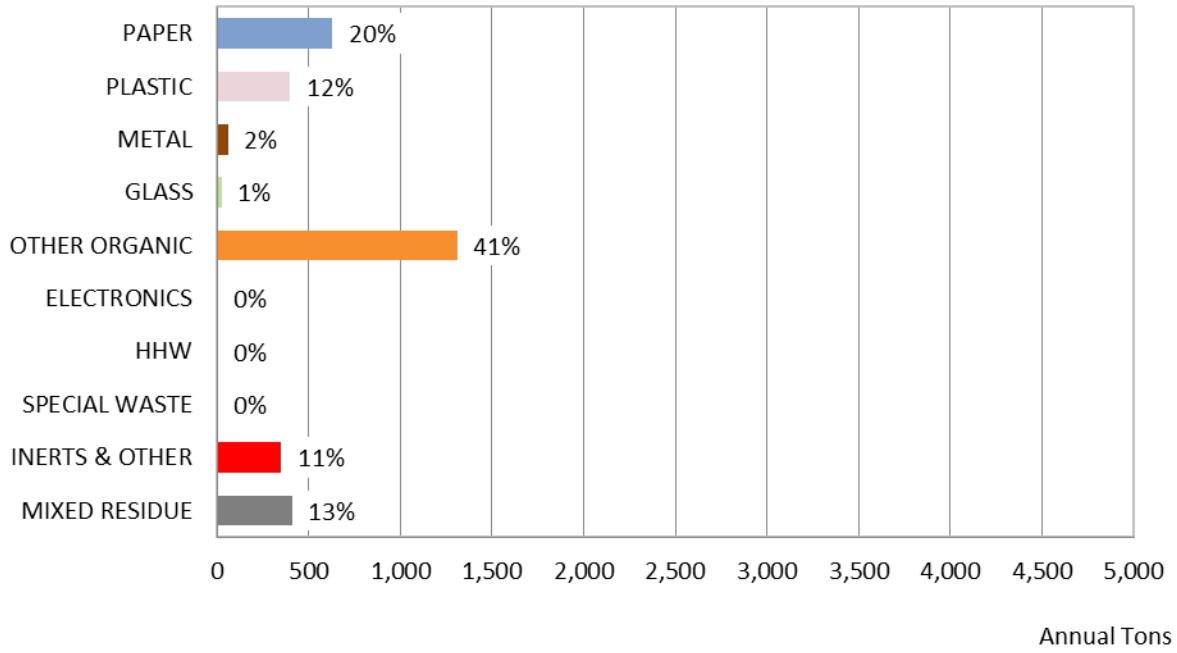


Table 28. Ten Most Prevalent Materials, Arcata, Residential

Material	Est. Percent	Est. Tons
R/C Organic	17.5%	560
Food - Not Donatable	13.4%	430
Mixed Residue	12.8%	408
Other Recyclable Paper	7.4%	237
Compostable Paper	7.3%	234
Textiles - Organic	5.9%	190
Other Film	4.8%	154
Textiles - Synthetic, Mixed, Unknown	4.0%	127
Prunings Trimmings	2.9%	94
R/C Paper	2.8%	91
Total for Top Materials	**78.9%**	**2,525**

Table 29. Detailed Material Composition, Arcata, Residential

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**19.6%**	**3.5%**	**629**
Uncoated Corrugated Cardboard	0.8%	0.4%	25
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	1.0%	0.3%	31
Other Recyclable Paper	7.4%	2.3%	237
Paper Cups - Compostable	0.1%	0.1%	4
Paper Cups - Not Compostable	0.2%	0.1%	6
Compostable Paper	7.3%	1.7%	234
R/C Paper	2.8%	1.0%	91
PLASTIC	**12.5%**	**2.5%**	**399**
PETE Water Bottles	0.5%	0.1%	15
Other PETE Containers	0.4%	0.1%	14
HDPE Containers	0.5%	0.2%	17
Single-Use Polystyrene Food Service Items	0.2%	0.1%	7
#3-#7 Other Containers	1.3%	0.4%	42
Compostable Plastics	0.0%	0.0%	1
Plastic Trash Bags	2.3%	0.6%	73
Plastic Grocery and Other Merchandise Bags	0.4%	0.2%	14
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	1
Film Products	0.0%	0.0%	0
Other Film	4.8%	0.9%	154
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.8%	0.4%	26
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	1.1%	0.9%	35
GLASS	**0.7%**	**0.3%**	**23**
Clear Glass Bottles Containers	0.4%	0.3%	12
Green Glass Bottles Containers	0.0%	0.1%	1
Brown Glass Bottles Containers	0.3%	0.3%	10
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0
METAL	**2.0%**	**0.9%**	**64**
Tin/Steel Cans	0.4%	0.2%	14
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.3%	0.3%	9
Aluminum Cans	0.2%	0.1%	5
Other Non-ferrous	0.3%	0.2%	10
Mixed Recoverable Metal	0.4%	0.2%	12
R/C Metal	0.4%	0.4%	13
OTHER ORGANIC	**40.9%**	**10.9%**	**1,309**
Food - Potentially Donatable	0.9%	0.5%	29
Food - Not Donatable	13.4%	4.3%	430
Leaves Grass	0.2%	0.2%	6
Prunings Trimmings	2.9%	3.8%	94
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	5.9%	1.2%	190
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	17.5%	11.2%	560
INERTS & OTHER	**10.9%**	**6.0%**	**349**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	2.6%	3.8%	83
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.5%	0.6%	17
Clean Engineered Wood	0.1%	0.1%	4
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	1.1%	1.3%	35
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.1%	0.2%	4
Textiles - Synthetic, Mixed, Unknown	4.0%	3.9%	127
R/C Inerts and Other	2.5%	2.4%	79
ELECTRONICS	**0.2%**	**0.3%**	**8**
E-Waste	0.2%	0.3%	8
HHW	**0.3%**	**0.1%**	**8**
Household Hazardous Waste	0.3%	0.1%	8
SPECIAL WASTE	**0.1%**	**0.1%**	**2**
Ash	0.1%	0.1%	2
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**12.8%**	**4.9%**	**408**
Mixed Residue	12.8%	4.9%	408
Sample Count			**5**
Total Tons			**3,200**

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

Recoverable Paper	**9.2%**	1.9%	**294**
Other Recoverables	**4.6%**	1.0%	**147**
Compostable/Potentially Compostable	**24.9%**	8.9%	**798**
Potentially Recoverable	**15.1%**	4.8%	**485**
Problem Materials	**46.1%**	10.1%	**1,476**
Totals	**100.0%**		**3,200**

Figure 37. Composition by Recoverability Group, Arcata, Self-haul

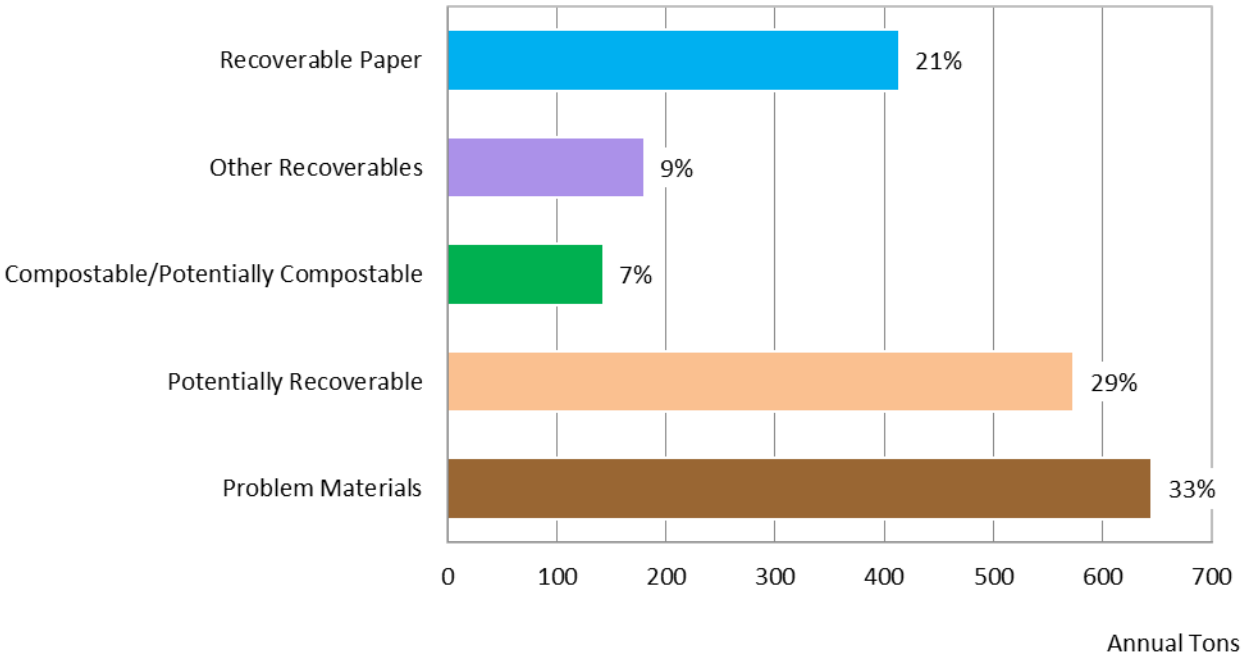


Figure 38. Composition by Material Class, Arcata, Self-haul

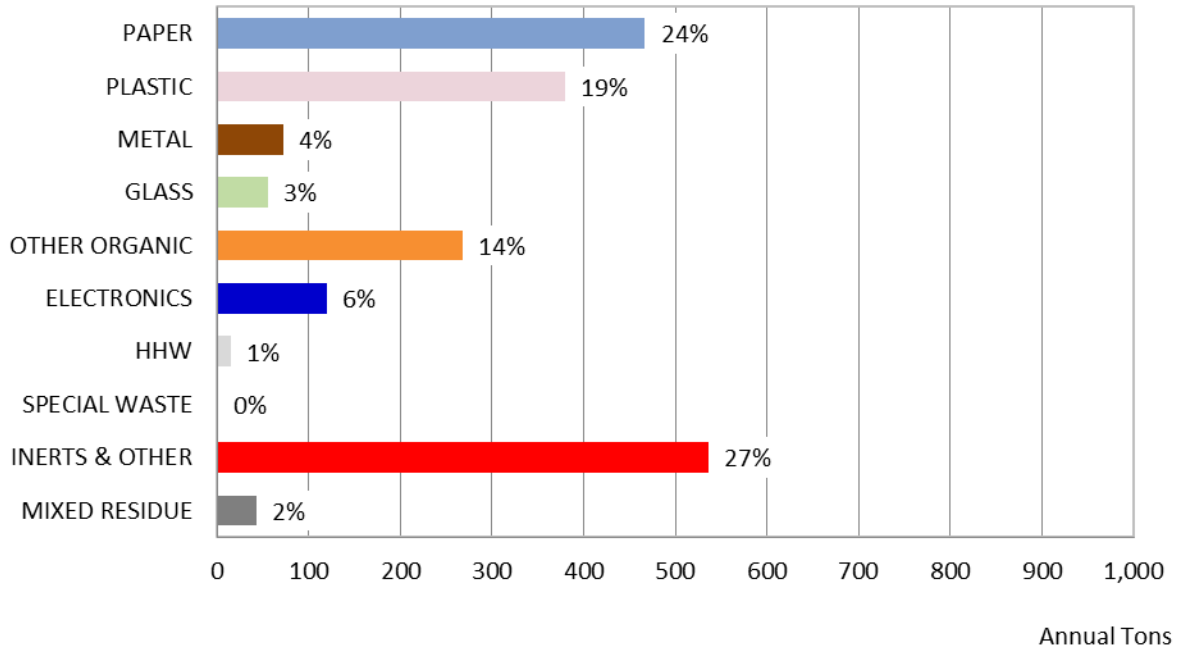


Table 30. Ten Most Prevalent Materials, Arcata, Self-haul

Material	Est. Percent	Est. Tons
Other Recyclable Paper	14.4%	282
Rock, Soil, and Fines	12.3%	241
Clean Dimensional Lumbar	8.0%	156
Textiles - Organic	6.5%	127
E-Waste	6.2%	120
Uncoated Corrugated Cardboard	5.7%	112
Textiles - Synthetic, Mixed, Unknown	5.0%	97
Other Film	4.7%	92
#3-#7 Other Containers	3.6%	70
Other Recyclable Rigid Plastic	3.3%	65
Total for Top Materials	**69.7%**	**1,363**

Table 31. Detailed Material Composition, Arcata, Self-haul

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**23.9%**	**6.3%**	**467**
Uncoated Corrugated Cardboard	5.7%	3.7%	112
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	1.0%	1.1%	19
Other Recyclable Paper	14.4%	7.8%	282
Paper Cups - Compostable	0.1%	0.1%	2
Paper Cups - Not Compostable	0.0%	0.0%	0
Compostable Paper	1.7%	2.3%	33
R/C Paper	0.9%	0.7%	18
PLASTIC	**19.4%**	**10.4%**	**379**
PETE Water Bottles	0.4%	0.4%	8
Other PETE Containers	0.2%	0.2%	4
HDPE Containers	1.0%	0.8%	19
Single-Use Polystyrene Food Service Items	0.0%	0.1%	1
#3-#7 Other Containers	3.6%	3.4%	70
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	1.7%	0.7%	34
Plastic Grocery and Other Merchandise Bags	0.1%	0.1%	2
Non-Bag Commercial Industrial Packaging Film	3.2%	4.4%	62
Film Products	0.0%	0.0%	0
Other Film	4.7%	3.2%	92
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	3.3%	2.8%	65
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	1.2%	1.5%	23
GLASS	**2.8%**	**2.4%**	**55**
Clear Glass Bottles Containers	0.4%	0.4%	8
Green Glass Bottles Containers	0.6%	0.9%	11
Brown Glass Bottles Containers	0.2%	0.3%	5
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	1.6%	1.5%	31
METAL	**3.7%**	**3.1%**	**73**
Tin/Steel Cans	0.1%	0.1%	3
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.6%	0.7%	12
Aluminum Cans	0.5%	0.7%	10
Other Non-ferrous	0.2%	0.2%	4
Mixed Recoverable Metal	1.7%	1.5%	33
R/C Metal	0.6%	0.3%	12
OTHER ORGANIC	**13.7%**	**8.6%**	**267**
Food - Potentially Donatable	0.0%	0.1%	1
Food - Not Donatable	1.8%	1.8%	35
Leaves Grass	3.1%	4.8%	61
Prunings Trimmings	0.6%	0.8%	12
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	6.5%	2.8%	127
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	1.6%	1.5%	32
INERTS & OTHER	**27.4%**	**11.5%**	**536**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	8.0%	10.8%	156
Clean Engineered Wood	0.0%	0.0%	0
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.4%	0.5%	9
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	12.3%	17.4%	241
Textiles - Synthetic, Mixed, Unknown	5.0%	5.2%	97
R/C Inerts and Other	1.6%	1.3%	32
ELECTRONICS	**6.2%**	**7.1%**	**120**
E-Waste	6.2%	7.1%	120
HHW	**0.8%**	**0.7%**	**15**
Household Hazardous Waste	0.8%	0.7%	15
SPECIAL WASTE	**0.1%**	**0.1%**	**1**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.1%	0.1%	1
MIXED RESIDUE	**2.2%**	**1.5%**	**42**
Mixed Residue	2.2%	1.5%	42
Sample Count			**5**
Total Tons			**1,956**

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

Recoverable Paper	**21.1%**	5.8%	**414**
Other Recoverables	**9.2%**	4.6%	**180**
Compostable/Potentially Compostable	**7.3%**	6.2%	**143**
Potentially Recoverable	**29.3%**	16.6%	**574**
Problem Materials	**33.0%**	20.4%	**645**
Totals	**100.0%**		**1,956**

Table 32. Detailed Material Composition, Blue Lake, Overall

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**23.2%**	**3.4%**	**167**
Uncoated Corrugated Cardboard	2.4%	1.2%	17
Waxed Corrugated Cardboard	1.1%	1.5%	8
Paper Bags	1.0%	0.4%	7
Other Recyclable Paper	6.6%	1.1%	48
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.3%	0.3%	2
Compostable Paper	9.5%	3.0%	68
R/C Paper	2.2%	0.9%	16
PLASTIC	**12.7%**	**2.7%**	**91**
PETE Water Bottles	0.9%	0.4%	6
Other PETE Containers	0.5%	0.2%	3
HDPE Containers	0.4%	0.2%	3
Single-Use Polystyrene Food Service Items	0.1%	0.1%	1
#3-#7 Other Containers	0.6%	0.2%	4
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	2.1%	0.5%	15
Plastic Grocery and Other Merchandise Bags	0.1%	0.1%	1
Non-Bag Commercial Industrial Packaging Film	0.1%	0.1%	1
Film Products	0.7%	0.4%	5
Other Film	3.5%	0.4%	25
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.6%	1.2%	12
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	2.2%	1.7%	16
GLASS	**3.4%**	**1.7%**	**24**
Clear Glass Bottles Containers	2.6%	1.4%	19
Green Glass Bottles Containers	0.0%	0.0%	0
Brown Glass Bottles Containers	0.5%	0.2%	4
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.1%	0.1%	1
R/C Glass	0.1%	0.1%	1
METAL	**7.8%**	**4.9%**	**56**
Tin/Steel Cans	0.4%	0.2%	3
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	4.4%	4.3%	32
Aluminum Cans	0.5%	0.3%	3
Other Non-ferrous	0.6%	0.9%	5
Mixed Recoverable Metal	1.6%	1.2%	11
R/C Metal	0.3%	0.6%	2
OTHER ORGANIC	**31.1%**	**1.6%**	**223**
Food - Potentially Donatable	2.0%	1.9%	15
Food - Not Donatable	16.4%	5.9%	118
Leaves Grass	0.3%	0.2%	2
Prunings Trimmings	0.1%	0.2%	1
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	1.8%	1.1%	13
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	10.5%	6.2%	75
INERTS & OTHER	**16.9%**	**7.2%**	**121**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	2.8%	1.4%	20
Clean Engineered Wood	1.9%	1.0%	13
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	6.7%	6.7%	48
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	2.8%	4.3%	20
Textiles - Synthetic, Mixed, Unknown	1.8%	1.8%	13
R/C Inerts and Other	0.9%	0.8%	6
ELECTRONICS	**0.9%**	**1.4%**	**6**
E-Waste	0.9%	1.4%	6
HHW	**0.3%**	**0.3%**	**2**
Household Hazardous Waste	0.3%	0.3%	2
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**3.7%**	**1.0%**	**26**
Mixed Residue	3.7%	1.0%	26
Sample Count			**8**
Total Tons			**718**

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

Recoverable Paper	**10.0%**	1.8%	**72**
Other Recoverables	**14.1%**	5.2%	**101**
Compostable/Potentially Compostable	**29.5%**	7.2%	**212**
Potentially Recoverable	**16.4%**	5.8%	**117**
Problem Materials	**30.1%**	7.0%	**216**
Totals	**100.0%**		**718**

Figure 39. Composition by Recoverability Group, Blue Lake, Combined

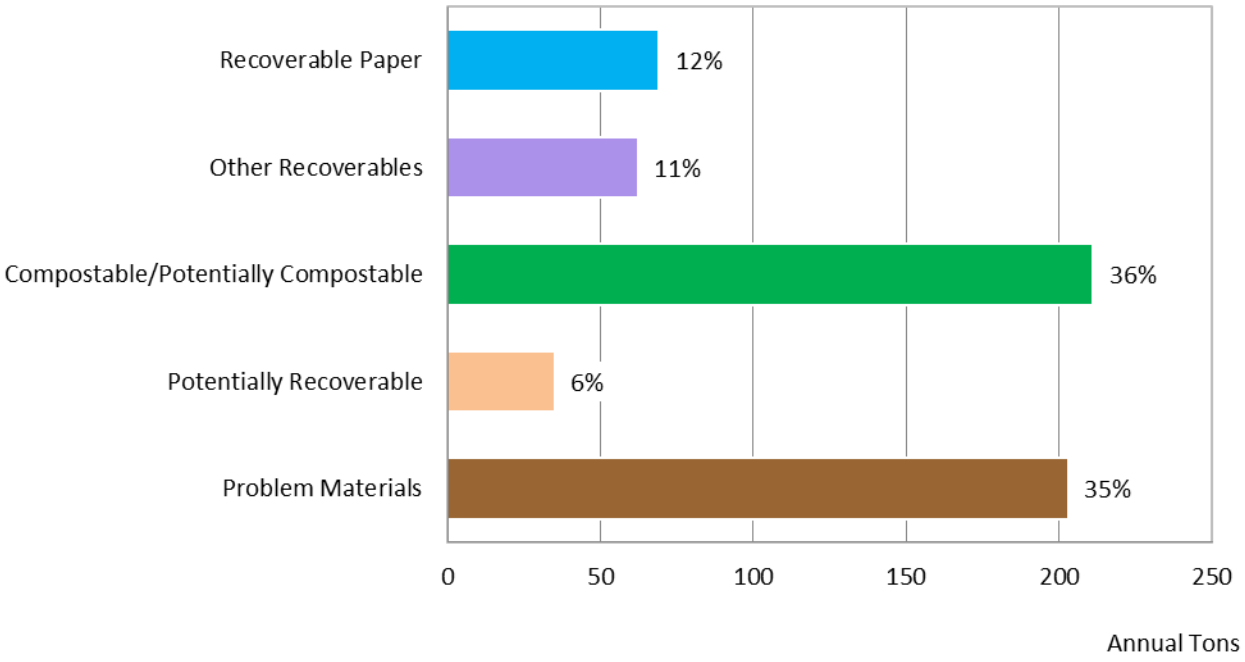


Figure 40. Composition by Material Class, Blue Lake, Combined

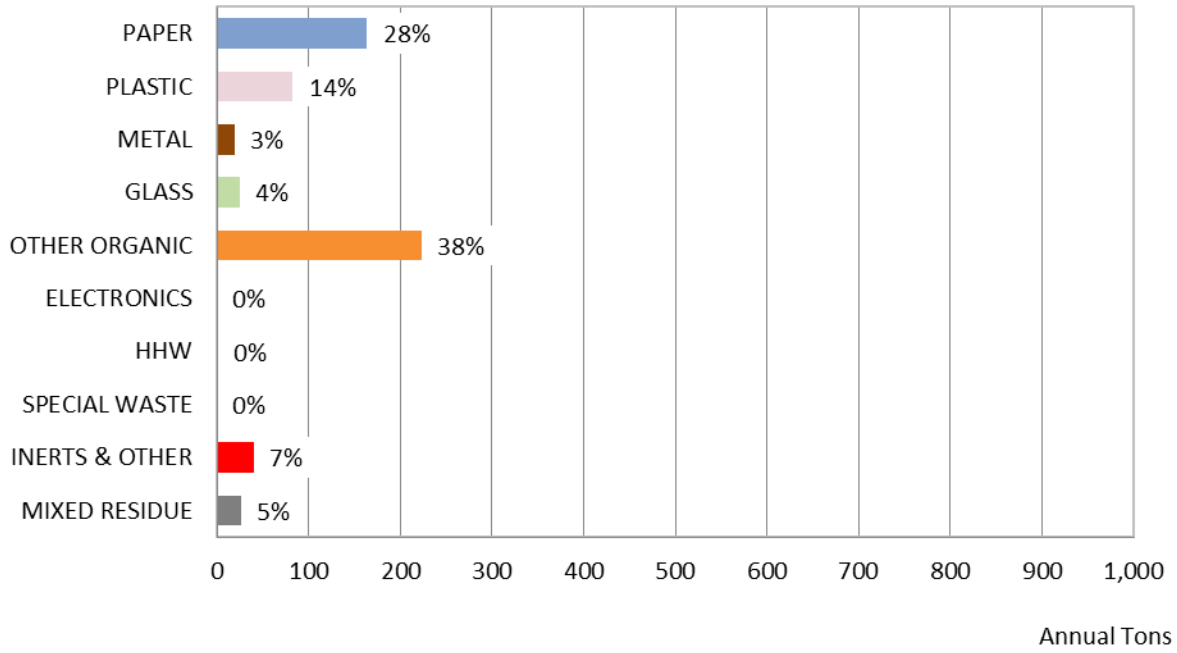


Table 33. Ten Most Prevalent Materials, Blue Lake, Combined

Material	Est. Percent	Est. Tons
Food - Not Donatable	20.3%	118
R/C Organic	13.0%	75
Compostable Paper	11.8%	68
Other Recyclable Paper	8.0%	46
Mixed Residue	4.5%	26
Other Film	4.2%	25
Rock, Soil, and Fines	3.5%	20
Clear Glass Bottles Containers	3.3%	19
PETE Water Bottles	2.7%	6
PETE Water Bottles	2.7%	6
Total for Top Materials	**73.9%**	**411**

Table 34. Detailed Material Composition, Blue Lake, Combined

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**28.1%**	**4.1%**	**163**
Uncoated Corrugated Cardboard	2.7%	1.4%	16
Waxed Corrugated Cardboard	1.4%	1.8%	8
Paper Bags	1.2%	0.5%	7
Other Recyclable Paper	8.0%	1.2%	46
Paper Cups - Compostable	0.1%	0.0%	0
Paper Cups - Not Compostable	0.4%	0.3%	2
Compostable Paper	11.8%	3.7%	68
R/C Paper	2.7%	1.1%	16
PLASTIC	**14.2%**	**3.0%**	**83**
PETE Water Bottles	1.1%	0.4%	6
Other PETE Containers	0.6%	0.2%	3
HDPE Containers	0.4%	0.2%	3
Single-Use Polystyrene Food Service Items	0.1%	0.1%	1
#3-#7 Other Containers	0.8%	0.2%	4
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	2.5%	0.6%	14
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	1
Non-Bag Commercial Industrial Packaging Film	0.1%	0.1%	1
Film Products	0.6%	0.5%	4
Other Film	4.2%	0.4%	25
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.3%	1.0%	7
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	2.3%	1.9%	14
GLASS	**4.2%**	**2.2%**	**24**
Clear Glass Bottles Containers	3.3%	1.7%	19
Green Glass Bottles Containers	0.0%	0.1%	0
Brown Glass Bottles Containers	0.7%	0.3%	4
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.1%	0.1%	1
R/C Glass	0.1%	0.2%	1
METAL	**3.3%**	**2.2%**	**19**
Tin/Steel Cans	0.5%	0.3%	3
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.3%	0.1%	2
Aluminum Cans	0.6%	0.3%	3
Other Non-ferrous	0.2%	0.2%	1
Mixed Recoverable Metal	1.7%	1.4%	10
R/C Metal	0.0%	0.0%	0
OTHER ORGANIC	**38.4%**	**2.0%**	**223**
Food - Potentially Donatable	2.5%	2.4%	15
Food - Not Donatable	20.3%	7.3%	118
Leaves Grass	0.2%	0.2%	1
Prunings Trimmings	0.2%	0.2%	1
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	2.2%	1.4%	13
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	13.0%	7.6%	75
INERTS & OTHER	**6.9%**	**5.4%**	**40**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.2%	0.1%	1
Clean Engineered Wood	0.3%	0.3%	2
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.7%	0.6%	4
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	3.5%	5.3%	20
Textiles - Synthetic, Mixed, Unknown	2.0%	2.2%	11
R/C Inerts and Other	0.1%	0.2%	1
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.3%**	**0.4%**	**2**
Household Hazardous Waste	0.3%	0.4%	2
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**4.5%**	**1.2%**	**26**
Mixed Residue	4.5%	1.2%	26
Sample Count			**5**
Total Tons			**581**

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

Recoverable Paper	**11.9%**	2.0%	**69**
Other Recoverables	**10.7%**	4.8%	**62**
Compostable/Potentially Compostable	**36.3%**	8.9%	**211**
Potentially Recoverable	**6.1%**	1.9%	**35**
Problem Materials	**34.9%**	8.2%	**203**
Totals	**100.0%**		**581**

Figure 41. Composition by Recoverability Group, Blue Lake, Self-haul

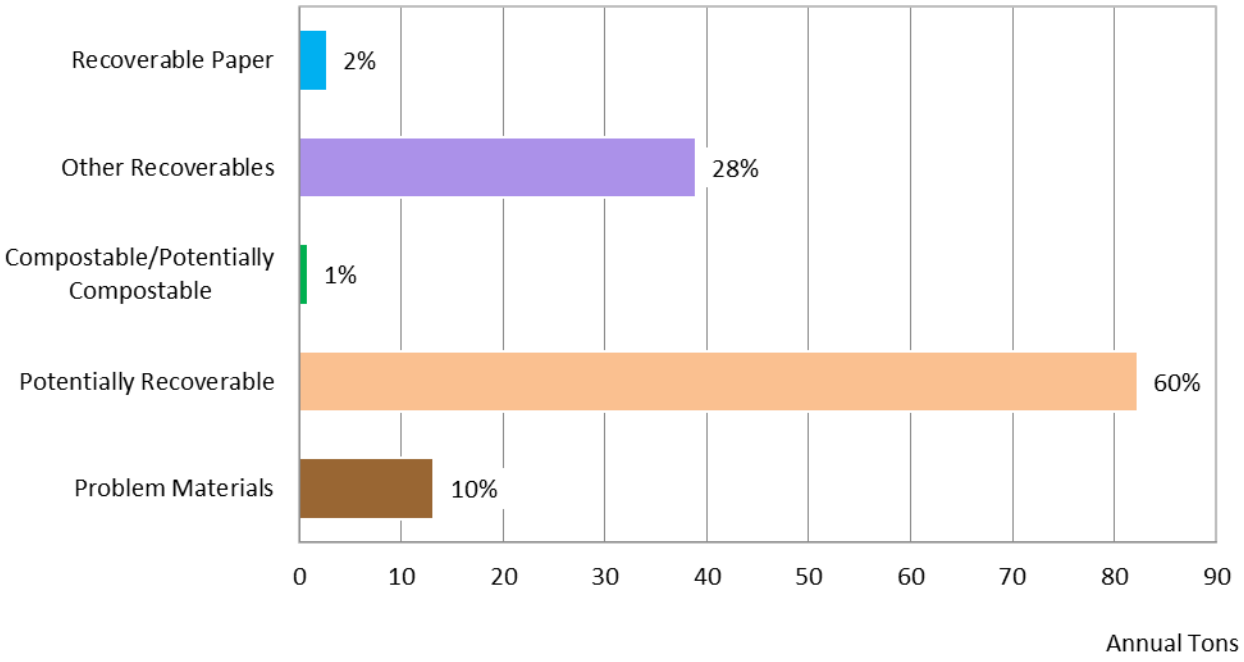


Figure 42. Composition by Material Class, Blue Lake, Self-haul

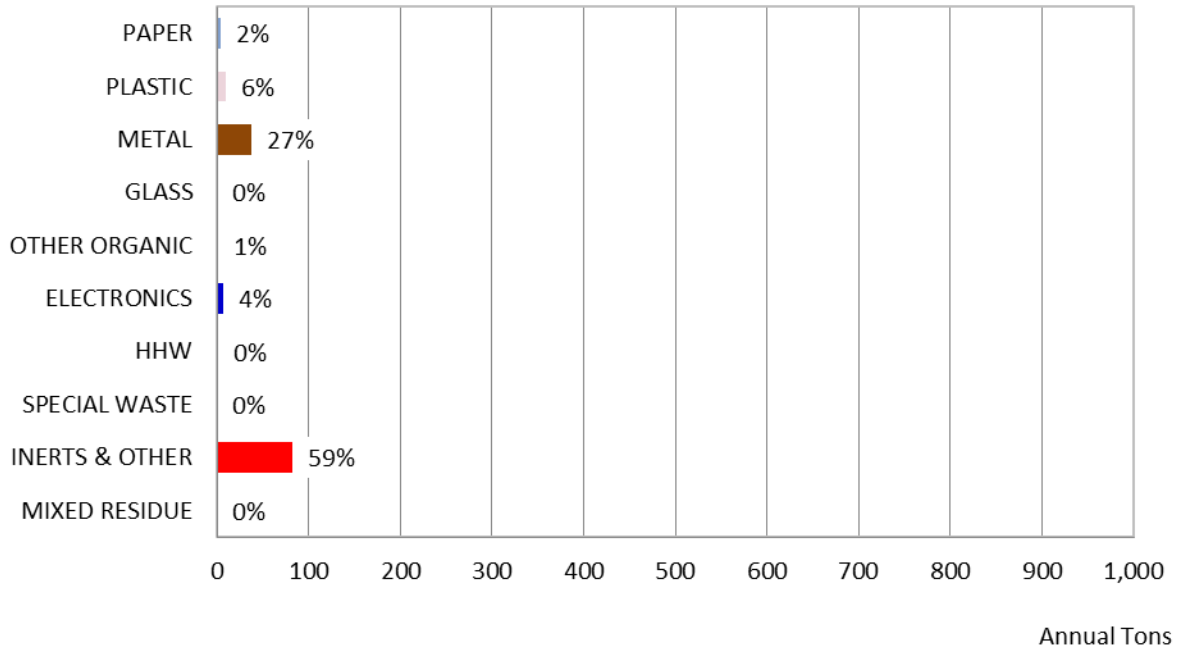


Table 35. Ten Most Prevalent Materials, Blue Lake, Self-haul

Material	Est. Percent	Est. Tons
Other Wood Waste	31.9%	44
Other Ferrous	21.8%	30
Clean Dimensional Lumbar	14.0%	19
Clean Engineered Wood	8.4%	12
E-Waste	4.5%	6
R/C Inerts and Other	4.0%	6
Other Recyclable Rigid Plastic	3.0%	4
Other Non-ferrous	2.4%	3
R/C Plastic	1.8%	3
R/C Metal	1.7%	2
Total for Top Materials	**93.4%**	**129**

Table 36. Detailed Material Composition, Blue Lake, Self-haul

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**2.4%**	**4.2%**	**3**
Uncoated Corrugated Cardboard	1.0%	1.8%	1
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.0%	0.0%	0
Other Recyclable Paper	1.0%	1.8%	1
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.0%	0.0%	0
Compostable Paper	0.0%	0.0%	0
R/C Paper	0.4%	0.7%	1
PLASTIC	**6.4%**	**5.7%**	**9**
PETE Water Bottles	0.0%	0.0%	0
Other PETE Containers	0.0%	0.0%	0
HDPE Containers	0.1%	0.1%	0
Single-Use Polystyrene Food Service Items	0.0%	0.0%	0
#3-#7 Other Containers	0.0%	0.0%	0
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	0.4%	0.7%	1
Plastic Grocery and Other Merchandise Bags	0.0%	0.0%	0
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	0
Film Products	0.7%	0.9%	1
Other Film	0.2%	0.2%	0
Rigid Plastic Drip Lines	0.1%	0.2%	0
Other Recyclable Rigid Plastic	3.0%	4.2%	4
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	1.8%	3.2%	3
GLASS	**0.0%**	**0.0%**	**0**
Clear Glass Bottles Containers	0.0%	0.0%	0
Green Glass Bottles Containers	0.0%	0.0%	0
Brown Glass Bottles Containers	0.0%	0.0%	0
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0
METAL	**26.7%**	**24.0%**	**37**
Tin/Steel Cans	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	21.8%	22.5%	30
Aluminum Cans	0.0%	0.0%	0
Other Non-ferrous	2.4%	4.5%	3
Mixed Recoverable Metal	0.8%	0.9%	1
R/C Metal	1.7%	3.2%	2
OTHER ORGANIC	**0.6%**	**0.9%**	**1**
Food - Potentially Donatable	0.0%	0.0%	0
Food - Not Donatable	0.0%	0.0%	0
Leaves Grass	0.6%	0.9%	1
Prunings Trimmings	0.0%	0.0%	0
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	0.0%	0.0%	0
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	0.0%	0.0%	0
INERTS & OTHER	**59.1%**	**30.1%**	**82**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	14.0%	7.5%	19
Clean Engineered Wood	8.4%	5.3%	12
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	31.9%	34.7%	44
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	0.9%	1.7%	1
R/C Inerts and Other	4.0%	3.8%	6
ELECTRONICS	**4.5%**	**7.2%**	**6**
E-Waste	4.5%	7.2%	6
HHW	**0.3%**	**0.6%**	**0**
Household Hazardous Waste	0.3%	0.5%	0
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**0.0%**	**0.0%**	**0**
Mixed Residue	0.0%	0.0%	0
Sample Count			**3**
Total Tons			**138**

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

Recoverable Paper	**2.0%**	3.6%	**3**
Other Recoverables	**28.2%**	18.5%	**39**
Compostable/Potentially Compostable	**0.6%**	0.8%	**1**
Potentially Recoverable	**59.6%**	28.9%	**82**
Problem Materials	**9.6%**	11.6%	**13**
Totals	**100.0%**		**138**

Table 37. Detailed Material Composition, Eureka, Overall

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**19.7%**	**6.1%**	**6,359**
Uncoated Corrugated Cardboard	5.3%	3.6%	1,714
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.4%	0.1%	141
Other Recyclable Paper	6.3%	2.7%	2,030
Paper Cups - Compostable	0.1%	0.1%	25
Paper Cups - Not Compostable	0.3%	0.1%	111
Compostable Paper	4.8%	1.2%	1,561
R/C Paper	2.4%	0.7%	777
PLASTIC	**12.1%**	**2.0%**	**3,910**
PETE Water Bottles	0.5%	0.4%	173
Other PETE Containers	0.4%	0.1%	114
HDPE Containers	0.5%	0.2%	176
Single-Use Polystyrene Food Service Items	0.1%	0.0%	46
#3-#7 Other Containers	1.1%	0.4%	345
Compostable Plastics	0.0%	0.0%	10
Plastic Trash Bags	1.9%	0.4%	616
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	63
Non-Bag Commercial Industrial Packaging Film	0.2%	0.2%	75
Film Products	0.0%	0.1%	12
Other Film	3.7%	0.9%	1,196
Rigid Plastic Drip Lines	0.0%	0.0%	1
Other Recyclable Rigid Plastic	1.4%	0.8%	452
Other Non-Recyclable Rigid Plastic	0.1%	0.1%	43
R/C Plastic	1.8%	1.0%	589
GLASS	**7.8%**	**9.0%**	**2,527**
Clear Glass Bottles Containers	1.5%	1.9%	483
Green Glass Bottles Containers	0.5%	0.8%	171
Brown Glass Bottles Containers	0.1%	0.1%	34
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	5.6%	9.0%	1,808
R/C Glass	0.1%	0.1%	31
METAL	**7.4%**	**4.4%**	**2,391**
Tin/Steel Cans	0.8%	0.5%	267
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.7%	0.3%	215
Aluminum Cans	0.2%	0.1%	50
Other Non-ferrous	0.4%	0.4%	135
Mixed Recoverable Metal	2.2%	2.9%	707
R/C Metal	3.1%	3.7%	1,017
OTHER ORGANIC	**25.8%**	**3.2%**	**8,347**
Food - Potentially Donatable	1.6%	0.7%	527
Food - Not Donatable	13.5%	2.8%	4,368
Leaves Grass	1.6%	1.8%	519
Prunings Trimmings	1.1%	0.8%	371
Branches Stumps	0.1%	0.1%	18
Manures	0.0%	0.0%	0
Textiles - Organic	3.2%	1.5%	1,035
Carpet	0.1%	0.1%	22
Animal Carcasses	0.0%	0.0%	0
R/C Organic	4.6%	1.1%	1,487
INERTS & OTHER	**20.7%**	**10.1%**	**6,699**
Concrete	0.0%	0.0%	1
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.2%	0.3%	74
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.2%	1.0%	388
Clean Engineered Wood	0.3%	0.4%	94
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	4.7%	4.7%	1,505
Clean Gypsum Board	4.1%	6.6%	1,323
Painted/Demolition Gypsum Board	0.0%	0.0%	9
Rock, Soil, and Fines	7.5%	8.9%	2,418
Textiles - Synthetic, Mixed, Unknown	1.7%	1.0%	564
R/C Inerts and Other	1.0%	0.6%	323
ELECTRONICS	**0.3%**	**0.3%**	**85**
E-Waste	0.3%	0.3%	85
HHW	**1.2%**	**1.7%**	**377**
Household Hazardous Waste	1.2%	1.7%	377
SPECIAL WASTE	**3.3%**	**5.0%**	**1,078**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.7%	1.1%	219
Bulky Items	2.5%	3.9%	792
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.2%	0.3%	67
MIXED RESIDUE	**1.6%**	**0.5%**	**522**
Mixed Residue	1.6%	0.5%	522
Sample Count			**25**
Total Tons			**32,294**

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

Recoverable Paper	**12.0%**	6.0%	**3,884**
Other Recoverables	**9.2%**	6.6%	**2,979**
Compostable/Potentially Compostable	**22.9%**	2.9%	**7,399**
Potentially Recoverable	**17.2%**	8.4%	**5,558**
Problem Materials	**38.6%**	8.8%	**12,474**
Totals	**100.0%**		**32,294**

Figure 43. Composition by Recoverability Group, Eureka, Commercial

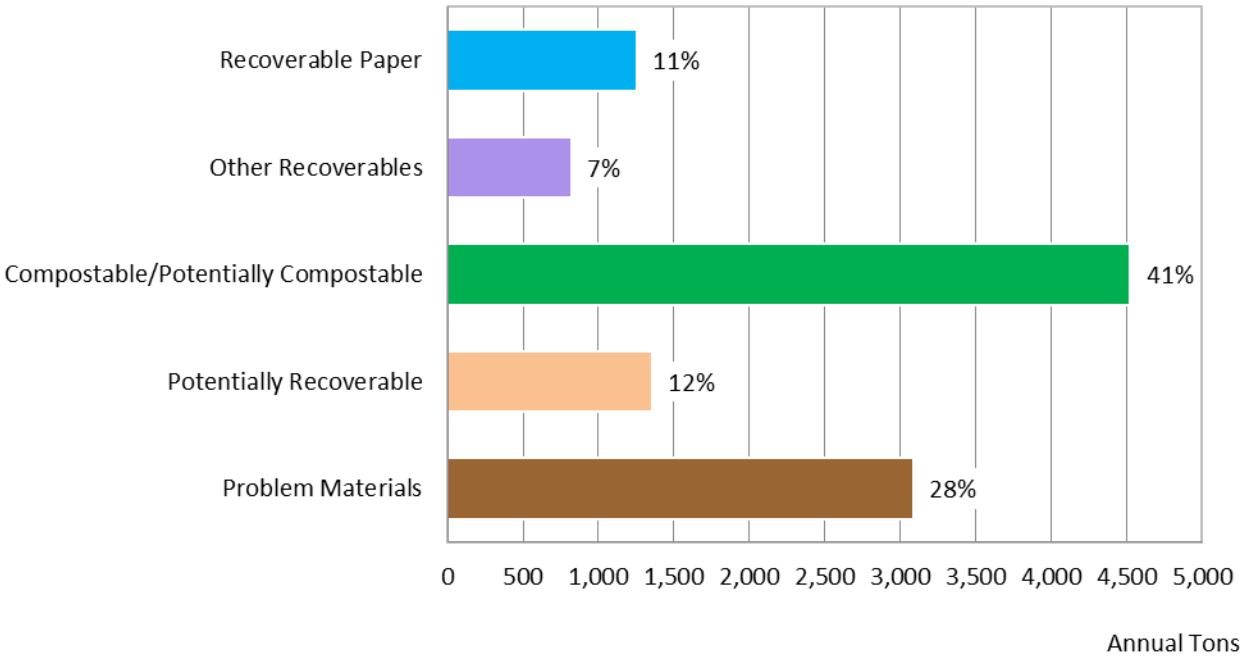


Figure 44. Composition by Material Class, Eureka, Commercial

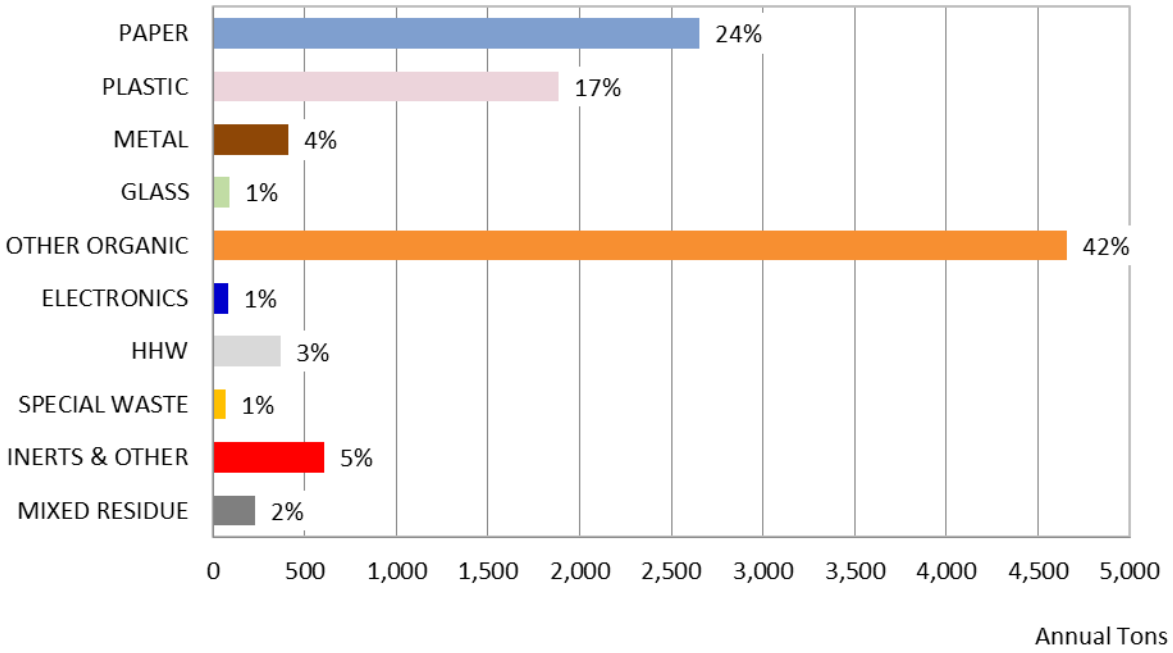


Table 38. Ten Most Prevalent Materials, Eureka, Commercial

Material	Est. Percent	Est. Tons
Food - Not Donatable	26.2%	2,889
Compostable Paper	8.9%	980
Other Film	7.0%	777
Other Recyclable Paper	5.8%	637
Uncoated Corrugated Cardboard	5.1%	566
R/C Organic	5.1%	560
Textiles - Organic	5.1%	559
Household Hazardous Waste	3.3%	366
Food - Potentially Donatable	3.0%	329
Plastic Trash Bags	3.0%	328
Total for Top Materials	**72.3%**	**7,990**

Table 39. Detailed Material Composition, Eureka, Commercial

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**24.0%**	**4.0%**	**2,654**
Uncoated Corrugated Cardboard	5.1%	1.8%	566
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.5%	0.1%	50
Other Recyclable Paper	5.8%	1.4%	637
Paper Cups - Compostable	0.2%	0.2%	19
Paper Cups - Not Compostable	0.8%	0.3%	83
Compostable Paper	8.9%	3.2%	980
R/C Paper	2.9%	0.9%	319
PLASTIC	**17.1%**	**2.6%**	**1,886**
PETE Water Bottles	0.5%	0.1%	59
Other PETE Containers	0.5%	0.2%	56
HDPE Containers	1.1%	0.4%	119
Single-Use Polystyrene Food Service Items	0.2%	0.1%	24
#3-#7 Other Containers	1.5%	0.6%	171
Compostable Plastics	0.1%	0.1%	8
Plastic Trash Bags	3.0%	0.5%	328
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	23
Non-Bag Commercial Industrial Packaging Film	0.4%	0.2%	40
Film Products	0.1%	0.2%	12
Other Film	7.0%	2.4%	777
Rigid Plastic Drip Lines	0.0%	0.0%	1
Other Recyclable Rigid Plastic	1.6%	0.9%	180
Other Non-Recyclable Rigid Plastic	0.2%	0.1%	19
R/C Plastic	0.6%	0.2%	70
GLASS	**0.8%**	**0.3%**	**92**
Clear Glass Bottles Containers	0.4%	0.2%	46
Green Glass Bottles Containers	0.1%	0.1%	13
Brown Glass Bottles Containers	0.2%	0.1%	21
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.1%	0.1%	12
METAL	**3.7%**	**2.1%**	**412**
Tin/Steel Cans	1.2%	1.0%	131
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.6%	0.3%	64
Aluminum Cans	0.2%	0.0%	17
Other Non-ferrous	0.4%	0.2%	40
Mixed Recoverable Metal	0.7%	0.5%	78
R/C Metal	0.7%	0.8%	81
OTHER ORGANIC	**42.2%**	**6.1%**	**4,658**
Food - Potentially Donatable	3.0%	1.9%	329
Food - Not Donatable	26.2%	7.7%	2,889
Leaves Grass	0.1%	0.1%	8
Prunings Trimmings	2.5%	2.1%	273
Branches Stumps	0.2%	0.3%	18
Manures	0.0%	0.0%	0
Textiles - Organic	5.1%	3.3%	559
Carpet	0.2%	0.3%	22
Animal Carcasses	0.0%	0.0%	0
R/C Organic	5.1%	2.5%	560
INERTS & OTHER	**5.5%**	**3.0%**	**604**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.1%	4
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.9%	2.1%	206
Clean Engineered Wood	0.1%	0.1%	6
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	1.7%	2.1%	192
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	1
Rock, Soil, and Fines	0.1%	0.1%	9
Textiles - Synthetic, Mixed, Unknown	1.3%	0.8%	142
R/C Inerts and Other	0.4%	0.1%	43
ELECTRONICS	**0.7%**	**0.8%**	**81**
E-Waste	0.7%	0.8%	81
HHW	**3.3%**	**4.8%**	**366**
Household Hazardous Waste	3.3%	4.8%	366
SPECIAL WASTE	**0.6%**	**1.0%**	**67**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.6%	1.0%	67
MIXED RESIDUE	**2.0%**	**0.8%**	**226**
Mixed Residue	2.0%	0.8%	226
Sample Count			**13**
Total Tons			**11,046**

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

Recoverable Paper	**11.3%**	2.5%	**1,253**
Other Recoverables	**7.5%**	2.0%	**824**
Compostable/Potentially Compostable	**41.0%**	6.1%	**4,525**
Potentially Recoverable	**12.3%**	4.4%	**1,359**
Problem Materials	**27.9%**	6.2%	**3,086**
Totals	**100.0%**		**11,046**

Figure 45. Composition by Recoverability Group, Eureka, Residential

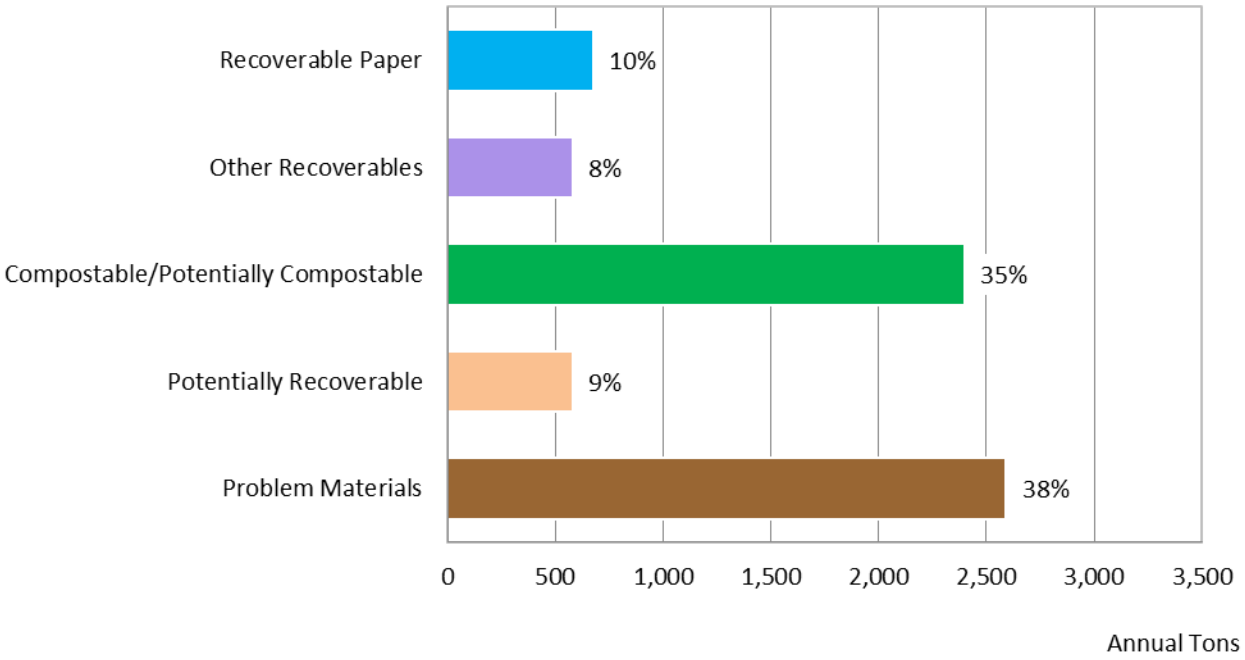


Figure 46. Composition by Material Class, Eureka, Residential

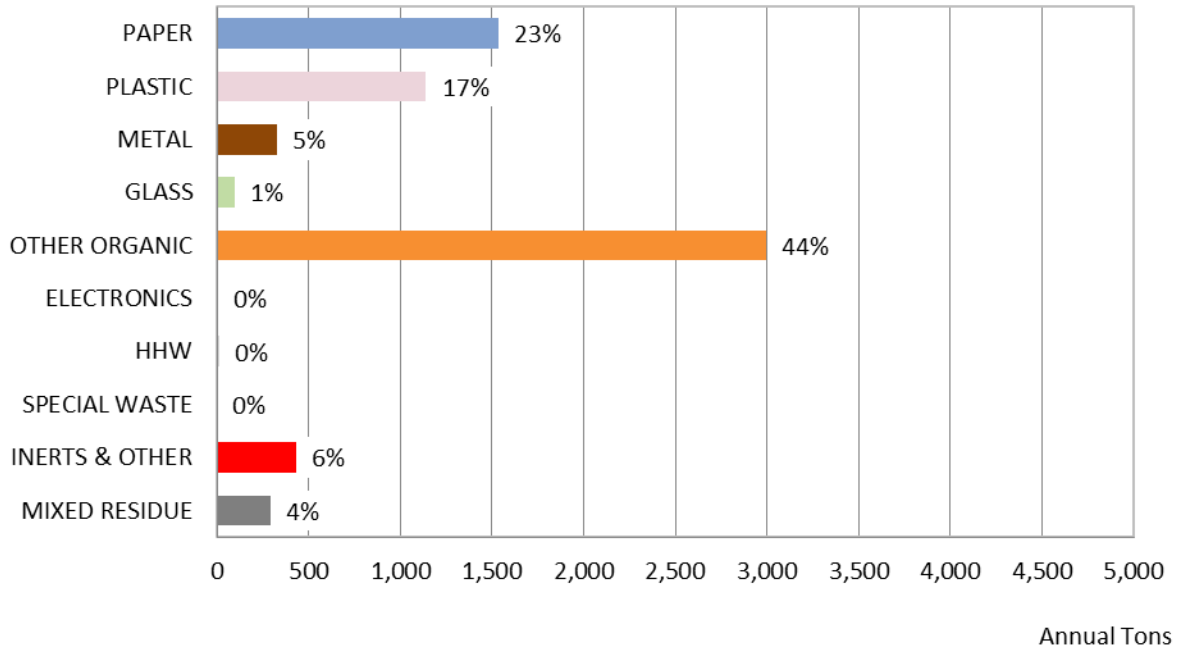


Table 40. Ten Most Prevalent Materials, Eureka, Residential

Material	Est. Percent	Est. Tons
Food - Not Donatable	20.8%	1,421
R/C Organic	13.6%	925
Compostable Paper	8.4%	571
Other Recyclable Paper	8.3%	565
Other Film	5.0%	340
Mixed Residue	4.2%	290
R/C Paper	3.8%	263
Textiles - Organic	3.7%	252
Plastic Trash Bags	3.4%	230
Textiles - Synthetic, Mixed, Unknown	2.9%	195
Total for Top Materials	**74.0%**	**5,052**

Table 41. Detailed Material Composition, Eureka, Residential

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**22.5%**	**4.5%**	**1,536**
Uncoated Corrugated Cardboard	0.4%	0.2%	30
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	1.2%	0.3%	79
Other Recyclable Paper	8.3%	2.5%	565
Paper Cups - Compostable	0.1%	0.1%	6
Paper Cups - Not Compostable	0.3%	0.2%	22
Compostable Paper	8.4%	2.5%	571
R/C Paper	3.8%	0.9%	263
PLASTIC	**16.7%**	**2.5%**	**1,140**
PETE Water Bottles	0.6%	0.2%	41
Other PETE Containers	0.8%	0.5%	51
HDPE Containers	0.4%	0.3%	28
Single-Use Polystyrene Food Service Items	0.3%	0.1%	19
#3-#7 Other Containers	1.4%	0.4%	94
Compostable Plastics	0.0%	0.0%	2
Plastic Trash Bags	3.4%	1.2%	230
Plastic Grocery and Other Merchandise Bags	0.5%	0.2%	33
Non-Bag Commercial Industrial Packaging Film	0.5%	0.7%	34
Film Products	0.0%	0.0%	0
Other Film	5.0%	1.0%	340
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.3%	0.7%	86
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	2
R/C Plastic	2.6%	3.1%	179
GLASS	**1.4%**	**0.6%**	**96**
Clear Glass Bottles Containers	0.9%	0.2%	58
Green Glass Bottles Containers	0.1%	0.1%	6
Brown Glass Bottles Containers	0.2%	0.3%	12
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.3%	0.4%	19
METAL	**4.8%**	**1.8%**	**325**
Tin/Steel Cans	1.1%	0.2%	75
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	1.9%	1.4%	129
Aluminum Cans	0.4%	0.2%	27
Other Non-ferrous	0.3%	0.2%	21
Mixed Recoverable Metal	0.7%	0.7%	45
R/C Metal	0.4%	0.6%	28
OTHER ORGANIC	**43.9%**	**7.9%**	**2,995**
Food - Potentially Donatable	2.4%	1.5%	166
Food - Not Donatable	20.8%	3.9%	1,421
Leaves Grass	2.7%	4.0%	185
Prunings Trimmings	0.7%	0.8%	47
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	3.7%	3.1%	252
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	13.6%	3.5%	925
INERTS & OTHER	**6.3%**	**3.9%**	**430**
Concrete	0.0%	0.0%	1
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	2
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.2%	0.2%	14
Clean Engineered Wood	0.1%	0.1%	6
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.3%	0.4%	19
Clean Gypsum Board	0.0%	0.0%	2
Painted/Demolition Gypsum Board	0.1%	0.2%	7
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	2.9%	2.4%	195
R/C Inerts and Other	2.7%	2.1%	184
ELECTRONICS	**0.1%**	**0.1%**	**3**
E-Waste	0.1%	0.1%	3
HHW	**0.2%**	**0.2%**	**10**
Household Hazardous Waste	0.2%	0.2%	10
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**4.2%**	**2.1%**	**290**
Mixed Residue	4.2%	2.1%	290
Sample Count			**5**
Total Tons			**6,826**

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

Recoverable Paper	**9.9%**	2.4%	**675**
Other Recoverables	**8.5%**	2.0%	**580**
Compostable/Potentially Compostable	**35.1%**	5.7%	**2,397**
Potentially Recoverable	**8.5%**	6.0%	**583**
Problem Materials	**38.0%**	4.7%	**2,591**
Totals	**100.0%**		**6,826**

Figure 47. Composition by Recoverability Group, Eureka, Self-haul

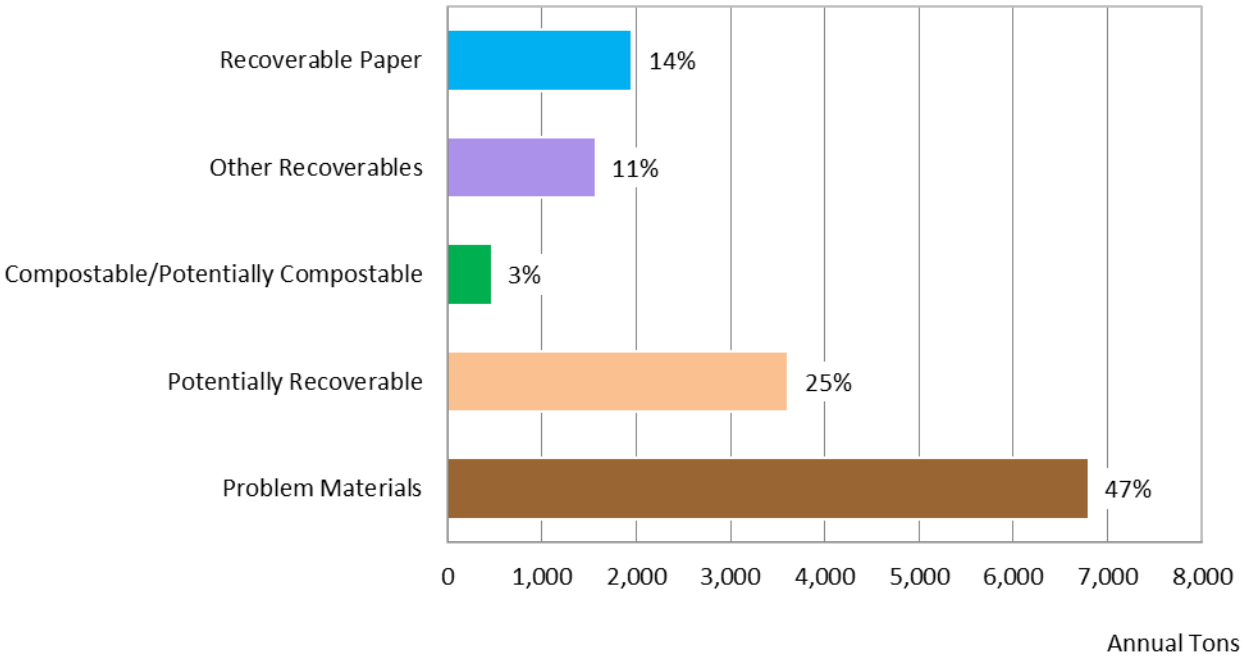


Figure 48. Composition by Material Class, Eureka, Self-haul

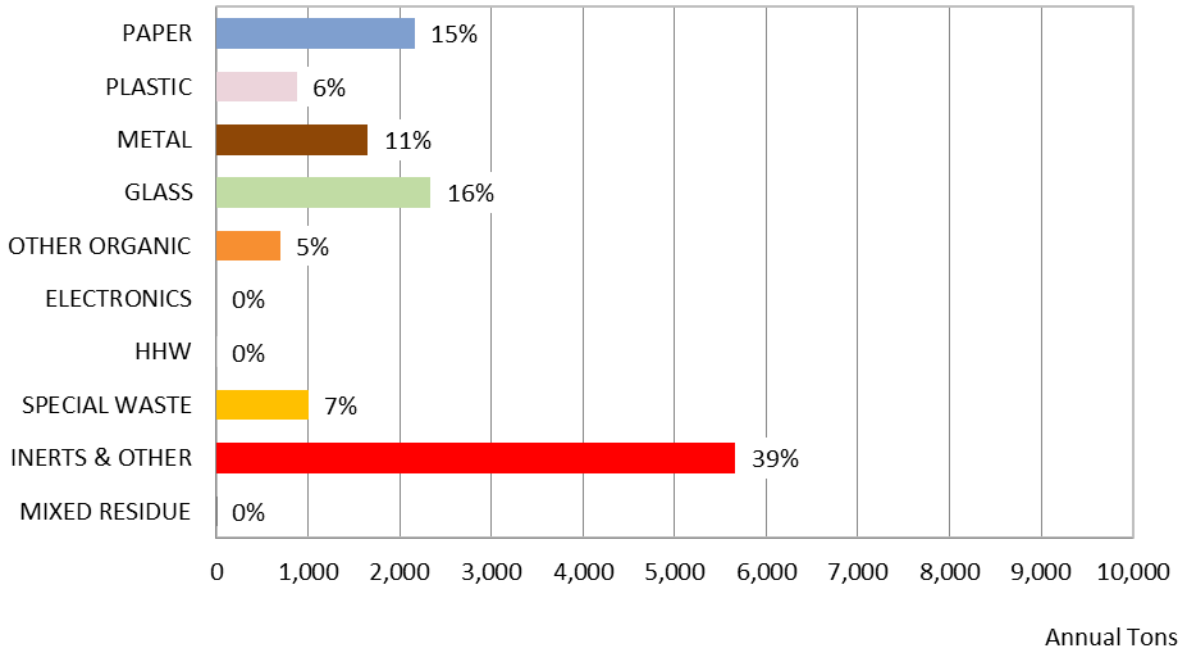


Table 42. Ten Most Prevalent Materials, Eureka, Self-haul

Material	Est. Percent	Est. Tons
Rock, Soil, and Fines	16.7%	2,409
Flat Glass	12.5%	1,808
Clean Gypsum Board	9.2%	1,322
Other Wood Waste	9.0%	1,294
Uncoated Corrugated Cardboard	7.8%	1,118
R/C Metal	6.3%	907
Other Recyclable Paper	5.7%	827
Bulky Items	5.5%	792
Mixed Recoverable Metal	4.0%	584
Clear Glass Bottles Containers	2.6%	379
Total for Top Materials	**79.3%**	**11,442**

Table 43. Detailed Material Composition, Eureka, Self-haul

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**15.0%**	**13.2%**	**2,169**
Uncoated Corrugated Cardboard	7.8%	8.0%	1,118
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.1%	0.1%	11
Other Recyclable Paper	5.7%	5.8%	827
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.0%	0.1%	6
Compostable Paper	0.1%	0.1%	10
R/C Paper	1.4%	1.3%	196
PLASTIC	**6.1%**	**3.7%**	**884**
PETE Water Bottles	0.5%	0.8%	74
Other PETE Containers	0.1%	0.1%	8
HDPE Containers	0.2%	0.3%	29
Single-Use Polystyrene Food Service Items	0.0%	0.0%	2
#3-#7 Other Containers	0.6%	0.8%	80
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	0.4%	0.5%	57
Plastic Grocery and Other Merchandise Bags	0.1%	0.1%	7
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	0
Film Products	0.0%	0.0%	0
Other Film	0.5%	0.6%	78
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.3%	1.6%	186
Other Non-Recyclable Rigid Plastic	0.2%	0.2%	22
R/C Plastic	2.4%	1.6%	340
GLASS	**16.2%**	**20.0%**	**2,339**
Clear Glass Bottles Containers	2.6%	4.3%	379
Green Glass Bottles Containers	1.1%	1.7%	152
Brown Glass Bottles Containers	0.0%	0.0%	0
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	12.5%	20.1%	1,808
R/C Glass	0.0%	0.0%	0
METAL	**11.5%**	**9.6%**	**1,654**
Tin/Steel Cans	0.4%	0.7%	61
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.2%	0.2%	22
Aluminum Cans	0.0%	0.1%	7
Other Non-ferrous	0.5%	0.8%	74
Mixed Recoverable Metal	4.0%	6.6%	584
R/C Metal	6.3%	8.2%	907
OTHER ORGANIC	**4.8%**	**4.0%**	**693**
Food - Potentially Donatable	0.2%	0.4%	33
Food - Not Donatable	0.4%	0.7%	58
Leaves Grass	2.3%	3.6%	326
Prunings Trimmings	0.4%	0.6%	51
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	1.6%	1.8%	224
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	0.0%	0.0%	1
INERTS & OTHER	**39.3%**	**22.3%**	**5,665**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.5%	0.7%	68
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.2%	1.6%	168
Clean Engineered Wood	0.6%	0.9%	82
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	9.0%	10.5%	1,294
Clean Gypsum Board	9.2%	14.7%	1,322
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	16.7%	20.0%	2,409
Textiles - Synthetic, Mixed, Unknown	1.6%	1.8%	227
R/C Inerts and Other	0.7%	0.8%	95
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.0%**	**0.0%**	**1**
Household Hazardous Waste	0.0%	0.0%	1
SPECIAL WASTE	**7.0%**	**11.2%**	**1,011**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	1.5%	2.4%	219
Bulky Items	5.5%	8.8%	792
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**0.0%**	**0.1%**	**6**
Mixed Residue	0.0%	0.1%	6
Sample Count			**7**
Total Tons			**14,422**

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

Recoverable Paper	**13.6%**	13.2%	**1,957**
Other Recoverables	**10.9%**	14.7%	**1,574**
Compostable/Potentially Compostable	**3.3%**	3.5%	**477**
Potentially Recoverable	**25.1%**	18.4%	**3,617**
Problem Materials	**47.1%**	19.0%	**6,797**
Totals	**100.0%**		**14,422**

Figure 49. Composition by Recoverability Group, Ferndale, Overall

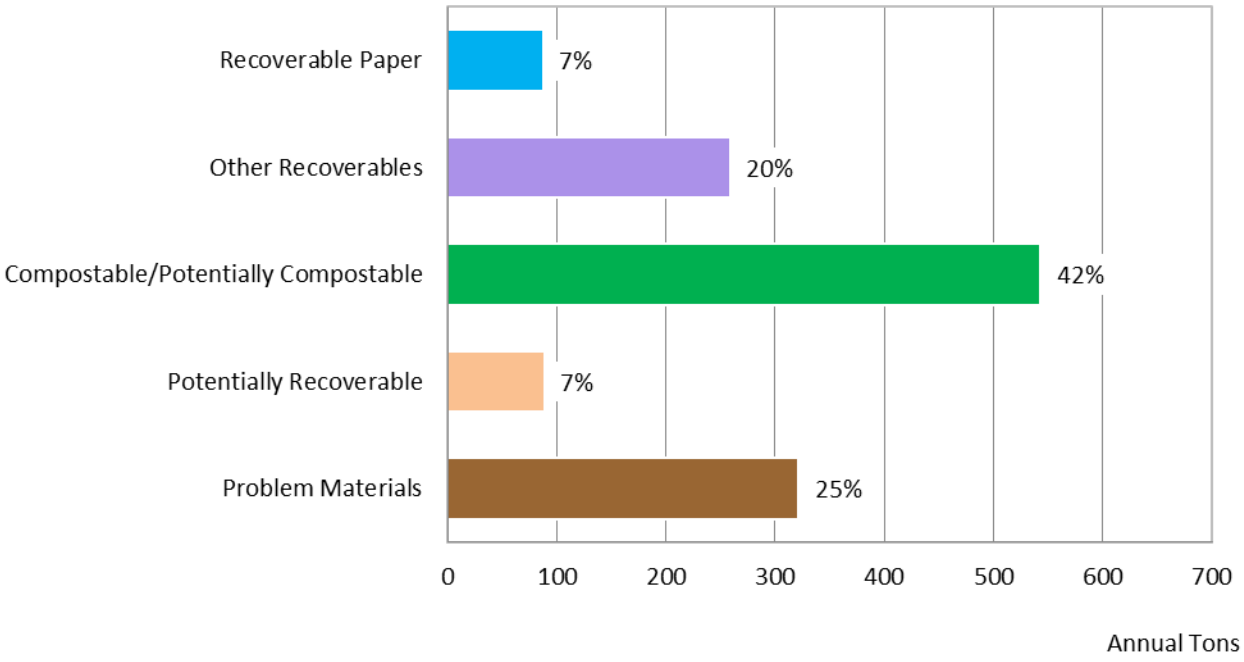


Figure 50. Composition by Material Class, Ferndale, Overall

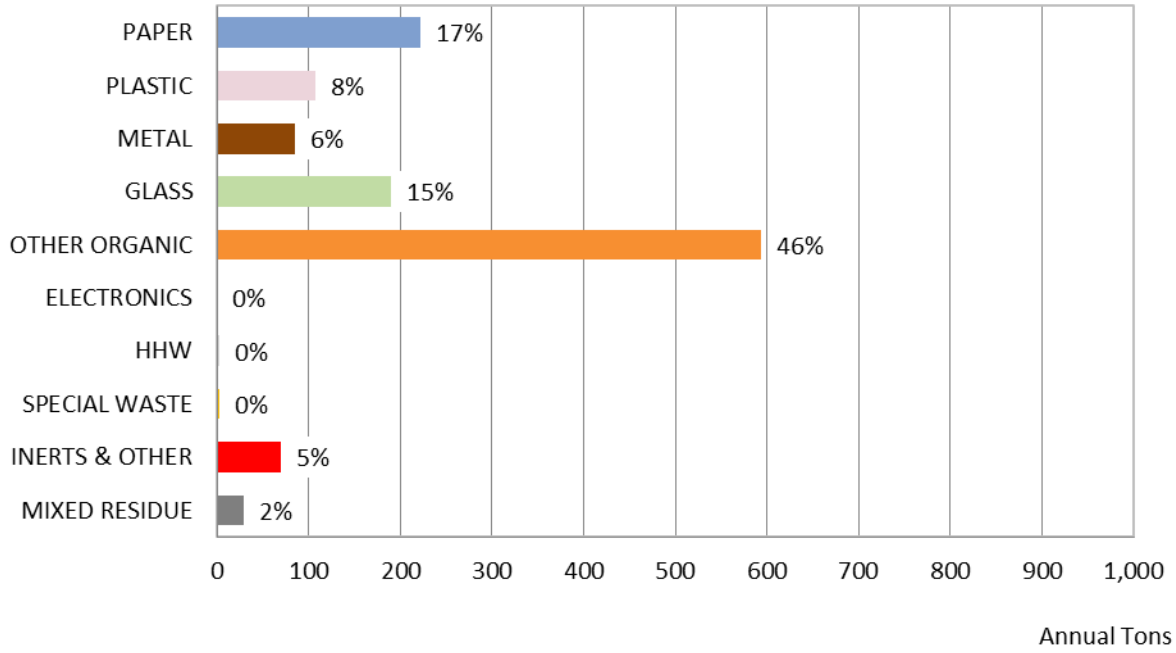


Table 44. Ten Most Prevalent Materials, Ferndale, Overall

Material	Est. Percent	Est. Tons
Food - Not Donatable	30.9%	402
Clear Glass Bottles Containers	14.2%	184
R/C Organic	7.3%	95
Compostable Paper	5.5%	71
Food - Potentially Donatable	5.0%	65
Other Recyclable Paper	4.6%	60
R/C Paper	4.6%	60
R/C Metal	3.3%	42
Mixed Residue	2.2%	29
Aluminum Cans	2.2%	28
Total for Top Materials	**79.7%**	**1,037**

Table 45. Detailed Material Composition, Ferndale, Overall

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**17.0%**	**4.0%**	**221**
Uncoated Corrugated Cardboard	2.0%	0.8%	26
Waxed Corrugated Cardboard	0.0%	0.1%	1
Paper Bags	0.2%	0.2%	3
Other Recyclable Paper	4.6%	0.8%	60
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.1%	0.0%	2
Compostable Paper	5.5%	1.3%	71
R/C Paper	4.6%	1.8%	60
PLASTIC	**8.2%**	**0.7%**	**107**
PETE Water Bottles	0.3%	0.2%	4
Other PETE Containers	0.9%	0.1%	12
HDPE Containers	0.7%	0.2%	9
Single-Use Polystyrene Food Service Items	0.1%	0.1%	1
#3-#7 Other Containers	0.4%	0.1%	5
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	1.8%	0.3%	23
Plastic Grocery and Other Merchandise Bags	0.1%	0.0%	2
Non-Bag Commercial Industrial Packaging Film	0.4%	0.3%	5
Film Products	0.0%	0.0%	0
Other Film	1.9%	0.3%	25
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.2%	0.3%	3
Other Non-Recyclable Rigid Plastic	0.7%	0.4%	9
R/C Plastic	0.7%	0.3%	9
GLASS	**14.6%**	**0.3%**	**189**
Clear Glass Bottles Containers	14.2%	0.0%	184
Green Glass Bottles Containers	0.2%	0.2%	2
Brown Glass Bottles Containers	0.1%	0.1%	2
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.1%	0.1%	1
METAL	**6.5%**	**1.2%**	**84**
Tin/Steel Cans	0.5%	0.2%	6
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.1%	0.1%	1
Aluminum Cans	2.2%	0.0%	28
Other Non-ferrous	0.3%	0.1%	4
Mixed Recoverable Metal	0.1%	0.1%	2
R/C Metal	3.3%	0.9%	42
OTHER ORGANIC	**45.7%**	**3.4%**	**594**
Food - Potentially Donatable	5.0%	0.9%	65
Food - Not Donatable	30.9%	4.4%	402
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	0.3%	0.2%	4
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	2.2%	3.2%	28
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	7.3%	1.5%	95
INERTS & OTHER	**5.4%**	**2.1%**	**70**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.2%	0.2%	2
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.0%	1.0%	13
Clean Engineered Wood	0.1%	0.0%	1
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	1.8%	2.1%	24
Clean Gypsum Board	0.3%	0.1%	3
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.3%	0.3%	4
Textiles - Synthetic, Mixed, Unknown	0.8%	1.1%	10
R/C Inerts and Other	0.9%	1.4%	12
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.2%**	**0.2%**	**3**
Household Hazardous Waste	0.2%	0.2%	3
SPECIAL WASTE	**0.2%**	**0.3%**	**3**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.2%	0.3%	3
MIXED RESIDUE	**2.2%**	**1.6%**	**29**
Mixed Residue	2.2%	1.6%	29
Sample Count			**6**
Total Tons			**1,300**

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

Recoverable Paper	**6.8%**	1.5%	**88**
Other Recoverables	**19.9%**	0.8%	**259**
Compostable/Potentially Compostable	**41.8%**	5.9%	**543**
Potentially Recoverable	**6.8%**	4.9%	**89**
Problem Materials	**24.7%**	1.6%	**322**
Totals	**100.0%**		**1,300**

Figure 51. Composition by Recoverability Group, Ferndale, Commercial

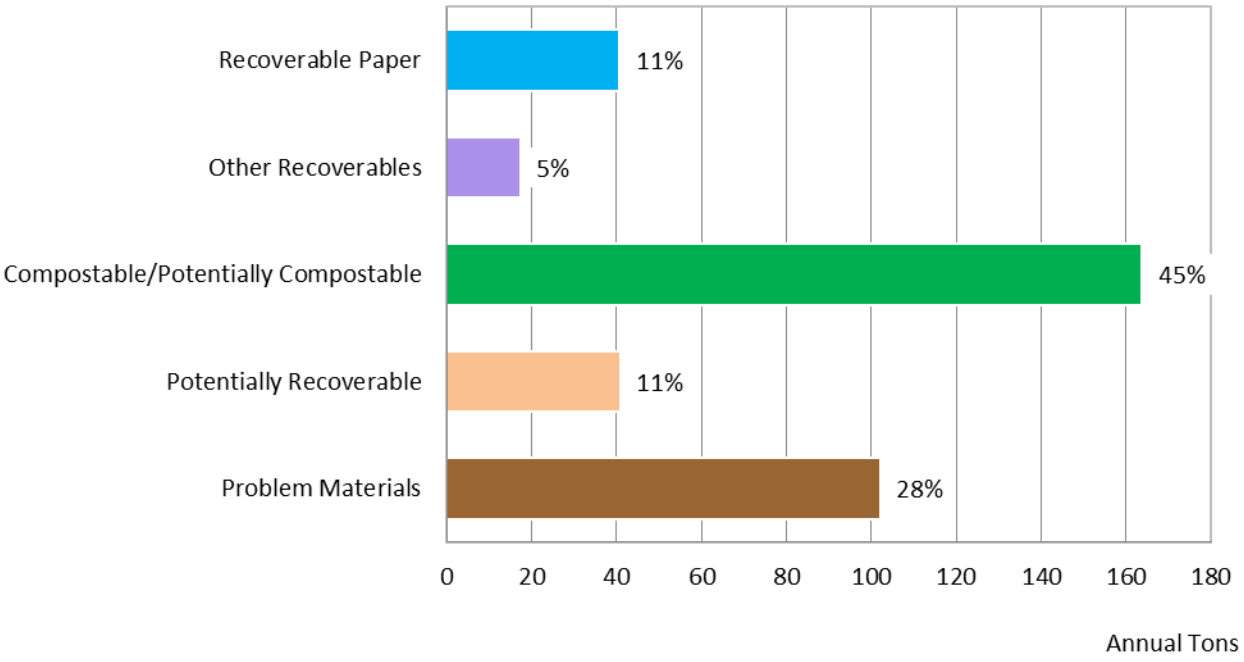


Figure 52. Composition by Material Group, Ferndale, Commercial

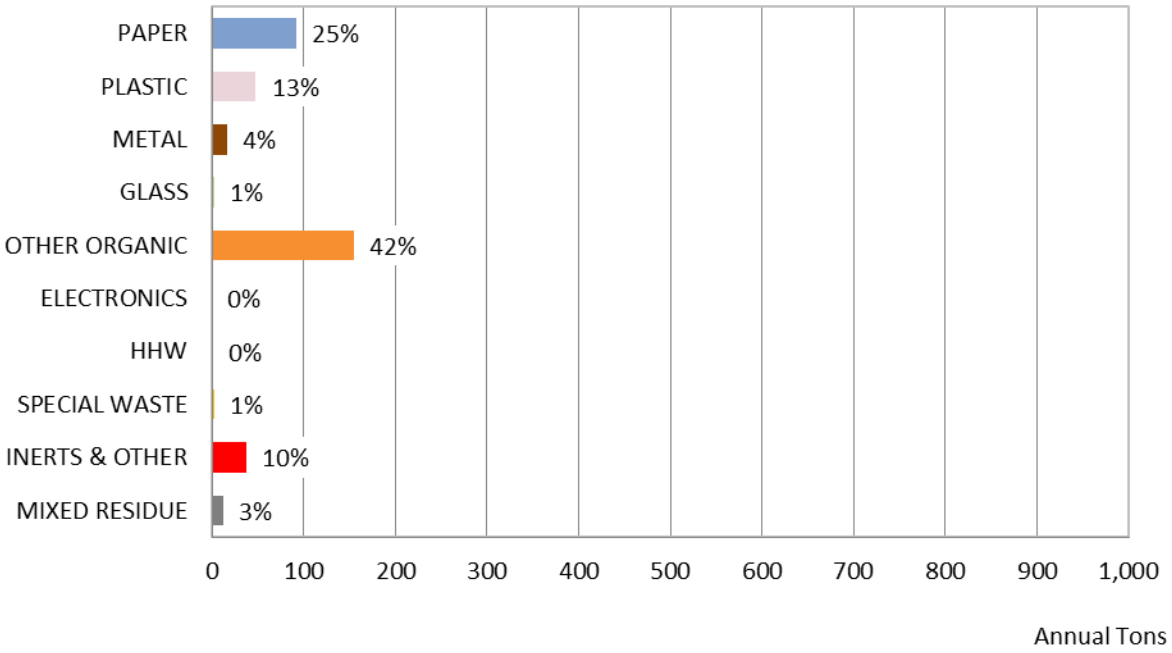


Table 46. Ten Most Prevalent Materials, Ferndale, Commercial

Material	Est. Percent	Est. Tons
Food - Not Donatable	33.5%	122
Compostable Paper	9.4%	34
Other Recyclable Paper	8.7%	32
R/C Organic	6.9%	25
Other Wood Waste	5.3%	19
Plastic Trash Bags	4.1%	15
R/C Paper	4.0%	15
Other Film	3.6%	13
Mixed Residue	3.2%	12
Uncoated Corrugated Cardboard	2.3%	9
Total for Top Materials	**81.0%**	**296**

Table 47. Detailed Material Composition, Ferndale, Commercial

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**25.0%**	**14.4%**	**91**
Uncoated Corrugated Cardboard	2.3%	2.9%	9
Waxed Corrugated Cardboard	0.2%	0.2%	1
Paper Bags	0.1%	0.1%	0
Other Recyclable Paper	8.7%	2.5%	32
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.2%	0.1%	1
Compostable Paper	9.4%	3.8%	34
R/C Paper	4.0%	6.0%	15
PLASTIC	**13.1%**	**1.7%**	**48**
PETE Water Bottles	0.2%	0.1%	1
Other PETE Containers	0.2%	0.2%	1
HDPE Containers	0.6%	0.5%	2
Single-Use Polystyrene Food Service Items	0.0%	0.0%	0
#3-#7 Other Containers	0.5%	0.2%	2
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	4.1%	1.2%	15
Plastic Grocery and Other Merchandise Bags	0.1%	0.0%	0
Non-Bag Commercial Industrial Packaging Film	1.4%	1.2%	5
Film Products	0.0%	0.0%	0
Other Film	3.6%	0.4%	13
Rigid Plastic Drip Lines	0.1%	0.1%	0
Other Recyclable Rigid Plastic	0.3%	0.4%	1
Other Non-Recyclable Rigid Plastic	1.0%	1.5%	4
R/C Plastic	1.1%	0.7%	4
GLASS	**0.8%**	**0.9%**	**3**
Clear Glass Bottles Containers	0.1%	0.1%	0
Green Glass Bottles Containers	0.5%	0.7%	2
Brown Glass Bottles Containers	0.2%	0.1%	1
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0
METAL	**4.5%**	**1.2%**	**16**
Tin/Steel Cans	1.1%	0.6%	4
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.4%	0.2%	1
Aluminum Cans	0.1%	0.1%	0
Other Non-ferrous	0.5%	0.3%	2
Mixed Recoverable Metal	0.5%	0.2%	2
R/C Metal	1.9%	0.9%	7
OTHER ORGANIC	**42.3%**	**8.4%**	**155**
Food - Potentially Donatable	1.0%	0.7%	4
Food - Not Donatable	33.5%	3.9%	122
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	0.7%	0.5%	3
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	0.3%	0.3%	1
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	6.9%	5.1%	25
INERTS & OTHER	**10.1%**	**7.5%**	**37**
Concrete	0.1%	0.1%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.6%	0.9%	2
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	2.3%	3.0%	8
Clean Engineered Wood	0.4%	0.2%	1
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	5.3%	7.2%	19
Clean Gypsum Board	0.9%	0.5%	3
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.2%	0.2%	1
Textiles - Synthetic, Mixed, Unknown	0.3%	0.4%	1
R/C Inerts and Other	0.0%	0.0%	0
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.3%**	**0.2%**	**1**
Household Hazardous Waste	0.3%	0.2%	1
SPECIAL WASTE	**0.7%**	**0.9%**	**3**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.7%	0.9%	3
MIXED RESIDUE	**3.2%**	**4.1%**	**12**
Mixed Residue	3.2%	4.1%	12
Sample Count			**3**
Total Tons			**365**

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

Recoverable Paper	**11.2%**	5.3%	**41**
Other Recoverables	**4.8%**	2.5%	**17**
Compostable/Potentially Compostable	**44.9%**	4.1%	**164**
Potentially Recoverable	**11.2%**	9.1%	**41**
Problem Materials	**28.0%**	1.8%	**102**
Totals	**100.0%**		**365**

Figure 53. Composition by Recoverability Group, Ferndale, Residential

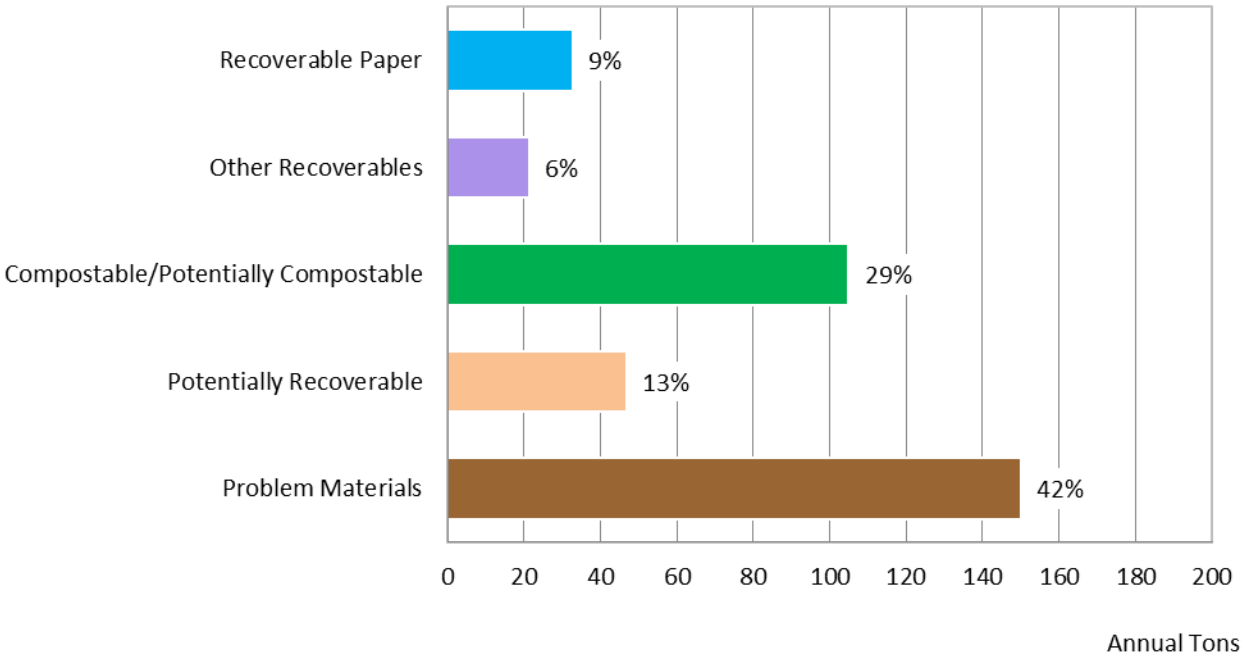


Figure 54. Composition by Material Group, Ferndale, Residential

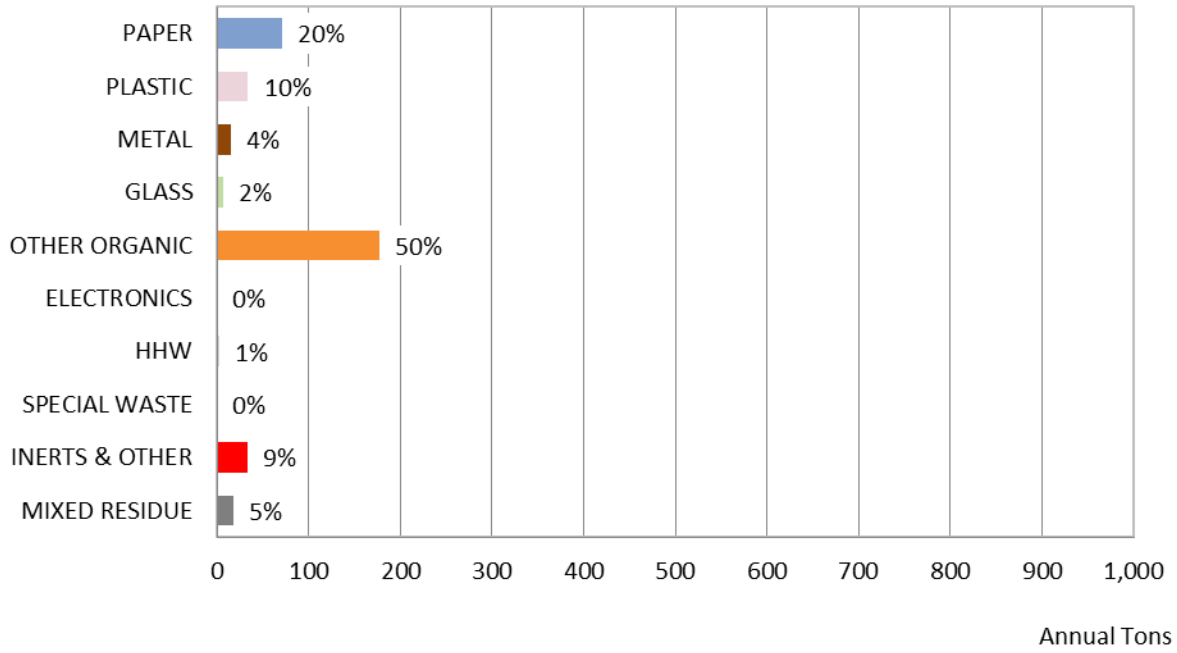


Table 48. Ten Most Prevalent Materials, Ferndale, Residential

Material	Est. Percent	Est. Tons
Food - Not Donatable	19.7%	70
R/C Organic	19.6%	70
Other Recyclable Paper	7.8%	28
Textiles - Organic	7.6%	27
Compostable Paper	6.8%	24
Mixed Residue	4.9%	17
R/C Paper	3.5%	12
R/C Inerts and Other	3.4%	12
Other Film	2.9%	10
R/C Metal	2.8%	10
Total for Top Materials	**78.9%**	**281**

Table 49. Detailed Material Composition, Ferndale, Residential

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**19.8%**	**0.8%**	**71**
Uncoated Corrugated Cardboard	0.8%	0.9%	3
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.6%	0.7%	2
Other Recyclable Paper	7.8%	1.4%	28
Paper Cups - Compostable	0.1%	0.1%	0
Paper Cups - Not Compostable	0.2%	0.1%	1
Compostable Paper	6.8%	2.4%	24
R/C Paper	3.5%	2.3%	12
PLASTIC	**9.5%**	**1.9%**	**34**
PETE Water Bottles	1.0%	0.6%	4
Other PETE Containers	0.9%	0.3%	3
HDPE Containers	0.4%	0.5%	1
Single-Use Polystyrene Food Service Items	0.3%	0.4%	1
#3-#7 Other Containers	0.8%	0.5%	3
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	1.6%	0.1%	6
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	1
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	0
Film Products	0.0%	0.0%	0
Other Film	2.9%	0.9%	10
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.6%	0.9%	2
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	0.9%	0.5%	3
GLASS	**1.9%**	**0.1%**	**7**
Clear Glass Bottles Containers	1.2%	0.0%	4
Green Glass Bottles Containers	0.2%	0.2%	1
Brown Glass Bottles Containers	0.3%	0.4%	1
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.2%	0.3%	1
METAL	**4.2%**	**4.3%**	**15**
Tin/Steel Cans	0.5%	0.1%	2
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.0%	0.0%	0
Aluminum Cans	0.2%	0.1%	1
Other Non-ferrous	0.7%	0.3%	3
Mixed Recoverable Metal	0.0%	0.0%	0
R/C Metal	2.8%	3.2%	10
OTHER ORGANIC	**49.8%**	**8.7%**	**177**
Food - Potentially Donatable	2.6%	3.1%	9
Food - Not Donatable	19.7%	15.4%	70
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	0.3%	0.4%	1
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	7.6%	11.5%	27
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	19.6%	1.3%	70
INERTS & OTHER	**9.3%**	**0.3%**	**33**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.3%	2.0%	5
Clean Engineered Wood	0.0%	0.0%	0
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	1.3%	1.6%	5
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.8%	0.9%	3
Textiles - Synthetic, Mixed, Unknown	2.5%	3.9%	9
R/C Inerts and Other	3.4%	5.3%	12
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.6%**	**0.7%**	**2**
Household Hazardous Waste	0.6%	0.7%	2
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**4.9%**	**4.1%**	**17**
Mixed Residue	4.9%	4.1%	17
Sample Count			**2**
Total Tons			**356**

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

Recoverable Paper	**9.2%**	0.9%	**33**
Other Recoverables	**6.0%**	1.2%	**21**
Compostable/Potentially Compostable	**29.5%**	21.3%	**105**
Potentially Recoverable	**13.2%**	15.3%	**47**
Problem Materials	**42.1%**	5.6%	**150**
Totals	**100.0%**		**356**

Figure 55. Composition by Recoverability Group, Ferndale, Self-haul

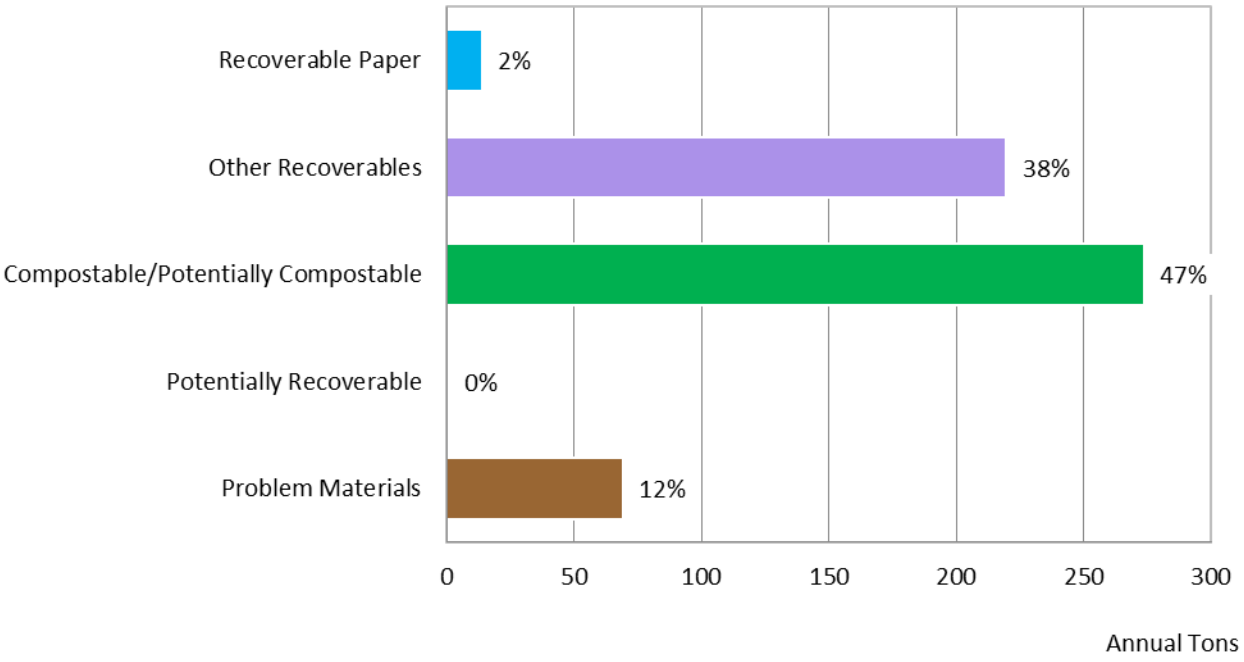


Figure 56. Recoverability by Material Class, Ferndale, Self-haul

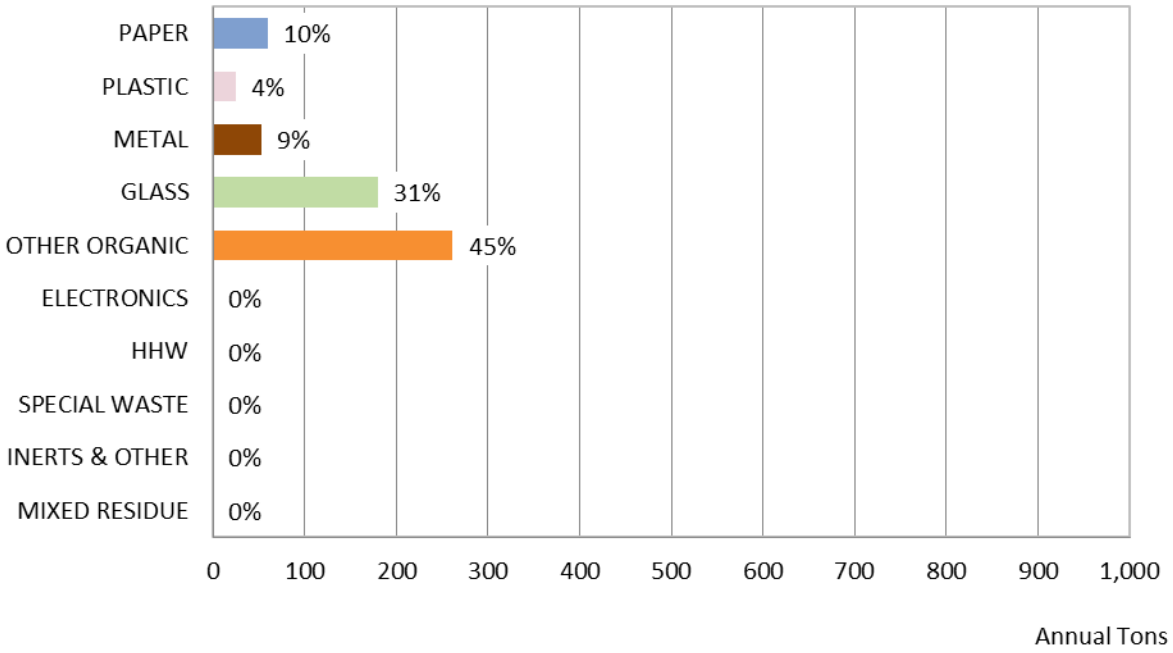


Table 50. Ten Most Prevalent Materials, Ferndale, Self-haul

Material	Est. Percent	Est. Tons
Food - Not Donatable	36.2%	209
Clear Glass Bottles Containers	31.0%	179
Food - Potentially Donatable	9.0%	52
R/C Paper	5.6%	33
Aluminum Cans	4.7%	27
R/C Metal	4.4%	26
Uncoated Corrugated Cardboard	2.5%	14
Compostable Paper	2.1%	12
Other PETE Containers	1.4%	8
Other Non-Recyclable Rigid Plastic	1.0%	6
Total for Top Materials	**98.0%**	**566**

Table 51. Detailed Material Composition, Ferndale, Self-haul

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**10.2%**	**0.0%**	**59**
Uncoated Corrugated Cardboard	2.5%	0.0%	14
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.0%	0.0%	0
Other Recyclable Paper	0.0%	0.0%	0
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.0%	0.0%	0
Compostable Paper	2.1%	0.0%	12
R/C Paper	5.6%	0.0%	33
PLASTIC	**4.3%**	**0.0%**	**25**
PETE Water Bottles	0.0%	0.0%	0
Other PETE Containers	1.4%	0.0%	8
HDPE Containers	0.9%	0.0%	5
Single-Use Polystyrene Food Service Items	0.0%	0.0%	0
#3-#7 Other Containers	0.0%	0.0%	0
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	0.4%	0.0%	3
Plastic Grocery and Other Merchandise Bags	0.1%	0.0%	1
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	0
Film Products	0.0%	0.0%	0
Other Film	0.2%	0.0%	1
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.0%	0.0%	0
Other Non-Recyclable Rigid Plastic	1.0%	0.0%	6
R/C Plastic	0.3%	0.0%	1
GLASS	**31.0%**	**0.0%**	**179**
Clear Glass Bottles Containers	31.0%	0.0%	179
Green Glass Bottles Containers	0.0%	0.0%	0
Brown Glass Bottles Containers	0.0%	0.0%	0
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0
METAL	**9.1%**	**0.0%**	**53**
Tin/Steel Cans	0.0%	0.0%	0
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.0%	0.0%	0
Aluminum Cans	4.7%	0.0%	27
Other Non-ferrous	0.0%	0.0%	0
Mixed Recoverable Metal	0.0%	0.0%	0
R/C Metal	4.4%	0.0%	26
OTHER ORGANIC	**45.3%**	**0.0%**	**262**
Food - Potentially Donatable	9.0%	0.0%	52
Food - Not Donatable	36.2%	0.0%	209
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	0.0%	0.0%	0
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	0.0%	0.0%	0
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	0.0%	0.0%	0
INERTS & OTHER	**0.0%**	**0.0%**	**0**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.0%	0.0%	0
Clean Engineered Wood	0.0%	0.0%	0
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.0%	0.0%	0
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	0.0%	0.0%	0
R/C Inerts and Other	0.0%	0.0%	0
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.0%**	**0.0%**	**0**
Household Hazardous Waste	0.0%	0.0%	0
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**0.0%**	**0.0%**	**0**
Mixed Residue	0.0%	0.0%	0
Sample Count			**1**
Total Tons			**578**

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

Recoverable Paper	**2.5%**	0.0%	**14**
Other Recoverables	**38.0%**	0.0%	**220**
Compostable/Potentially Compostable	**47.4%**	0.0%	**274**
Potentially Recoverable	**0.1%**	0.0%	**1**
Problem Materials	**12.0%**	0.0%	**69**
Totals	**100.0%**		**578**

Figure 57. Composition by Recoverability Group, Rio Dell, Overall

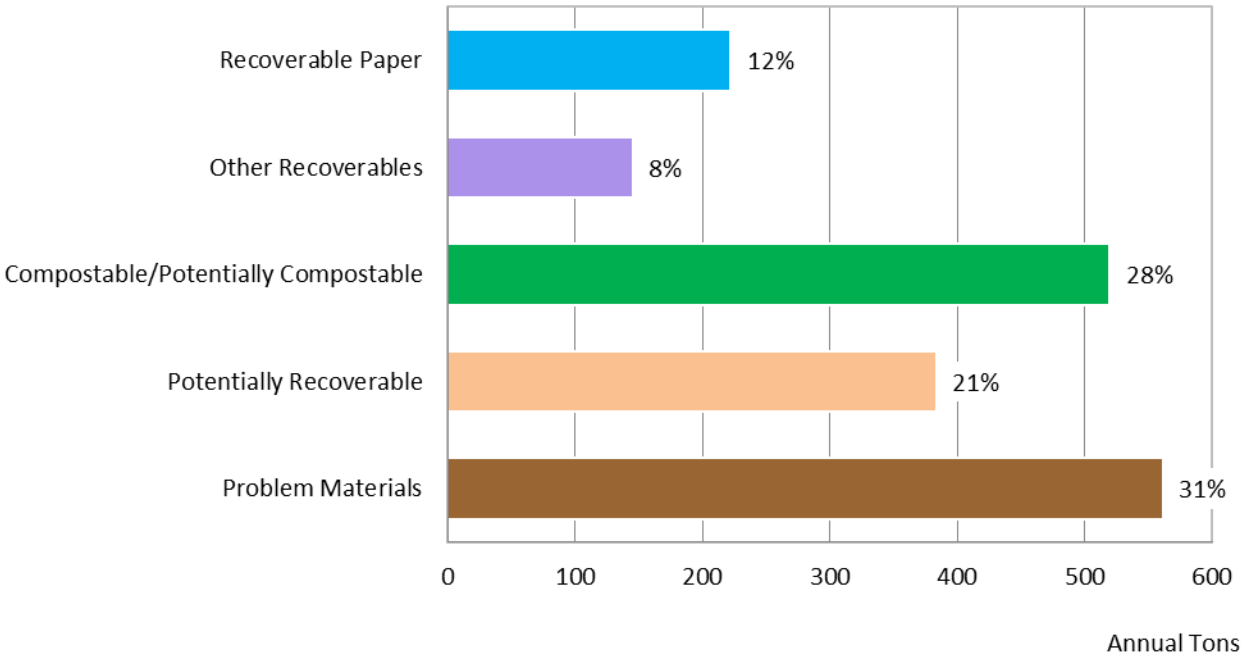


Figure 58. Composition by Material Class, Rio Dell, Overall

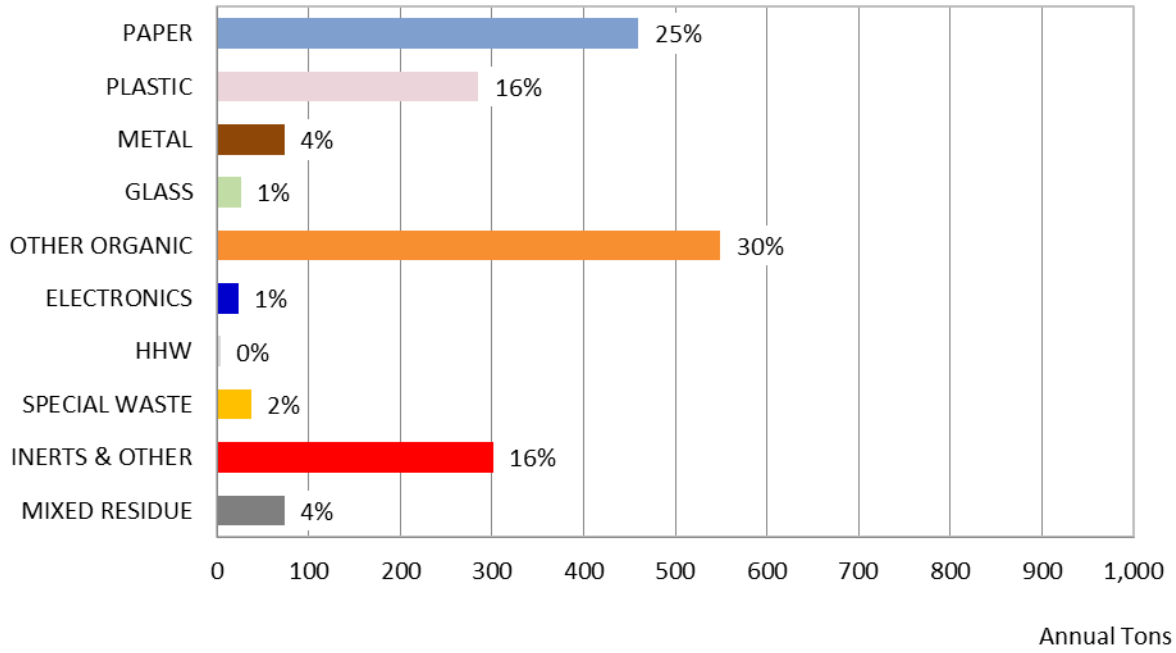


Table 52. Ten Most Prevalent Materials, Rio Dell, Overall

Material	Est. Percent	Est. Tons
Food - Not Donatable	16.6%	304
Other Recyclable Paper	8.5%	156
Textiles - Organic	7.1%	129
Textiles - Synthetic, Mixed, Unknown	6.9%	126
Compostable Paper	6.6%	121
R/C Paper	6.0%	111
R/C Inerts and Other	4.6%	84
Mixed Residue	4.0%	74
Uncoated Corrugated Cardboard	2.7%	50
Film Products	2.7%	49
Total for Top Materials	**65.7%**	**1,204**

Table 53. Detailed Material Composition, Rio Dell, Overall

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**25.1%**	**2.3%**	**460**
Uncoated Corrugated Cardboard	2.7%	1.0%	50
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.9%	0.8%	17
Other Recyclable Paper	8.5%	1.9%	156
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.3%	0.1%	6
Compostable Paper	6.6%	3.0%	121
R/C Paper	6.0%	0.9%	111
PLASTIC	**15.6%**	**2.6%**	**285**
PETE Water Bottles	0.5%	0.2%	10
Other PETE Containers	0.6%	0.4%	11
HDPE Containers	0.8%	0.3%	14
Single-Use Polystyrene Food Service Items	0.2%	0.0%	4
#3-#7 Other Containers	0.9%	0.2%	17
Compostable Plastics	0.0%	0.0%	1
Plastic Trash Bags	1.3%	0.2%	25
Plastic Grocery and Other Merchandise Bags	0.5%	0.3%	9
Non-Bag Commercial Industrial Packaging Film	1.9%	1.6%	34
Film Products	2.7%	3.5%	49
Other Film	2.3%	0.4%	41
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.7%	0.2%	31
Other Non-Recyclable Rigid Plastic	0.9%	0.7%	16
R/C Plastic	1.3%	0.6%	23
GLASS	**1.4%**	**1.5%**	**26**
Clear Glass Bottles Containers	0.6%	0.5%	12
Green Glass Bottles Containers	0.1%	0.1%	2
Brown Glass Bottles Containers	0.2%	0.2%	4
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.5%	0.6%	9
R/C Glass	0.0%	0.0%	0
METAL	**4.0%**	**1.0%**	**74**
Tin/Steel Cans	1.8%	0.3%	34
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.7%	0.6%	12
Aluminum Cans	0.5%	0.4%	9
Other Non-ferrous	0.3%	0.1%	5
Mixed Recoverable Metal	0.1%	0.1%	2
R/C Metal	0.6%	0.9%	11
OTHER ORGANIC	**30.0%**	**8.3%**	**549**
Food - Potentially Donatable	2.5%	1.7%	46
Food - Not Donatable	16.6%	9.6%	304
Leaves Grass	0.7%	0.9%	14
Prunings Trimmings	1.7%	2.8%	32
Branches Stumps	0.2%	0.4%	4
Manures	0.0%	0.0%	0
Textiles - Organic	7.1%	4.0%	129
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	1.1%	0.7%	21
INERTS & OTHER	**16.4%**	**9.1%**	**301**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	1.9%	3.1%	35
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.9%	1.4%	16
Clean Engineered Wood	0.6%	1.0%	12
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	1.6%	1.6%	30
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	6.9%	4.7%	126
R/C Inerts and Other	4.6%	6.9%	84
ELECTRONICS	**1.3%**	**2.0%**	**23**
E-Waste	1.3%	2.0%	23
HHW	**0.2%**	**0.1%**	**4**
Household Hazardous Waste	0.2%	0.1%	4
SPECIAL WASTE	**2.0%**	**1.8%**	**37**
Ash	0.3%	0.4%	5
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	1.0%	1.4%	19
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.7%	0.3%	13
MIXED RESIDUE	**4.0%**	**0.3%**	**74**
Mixed Residue	4.0%	0.3%	74
Sample Count			**7**
Total Tons			**1,833**

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

Recoverable Paper	**12.1%**	1.7%	**222**
Other Recoverables	**7.9%**	2.7%	**145**
Compostable/Potentially Compostable	**28.4%**	14.6%	**520**
Potentially Recoverable	**20.9%**	5.7%	**384**
Problem Materials	**30.6%**	11.2%	**561**
Totals	**100.0%**		**1,833**

Figure 59. Composition by Recoverability Group, Rio Dell, Commercial

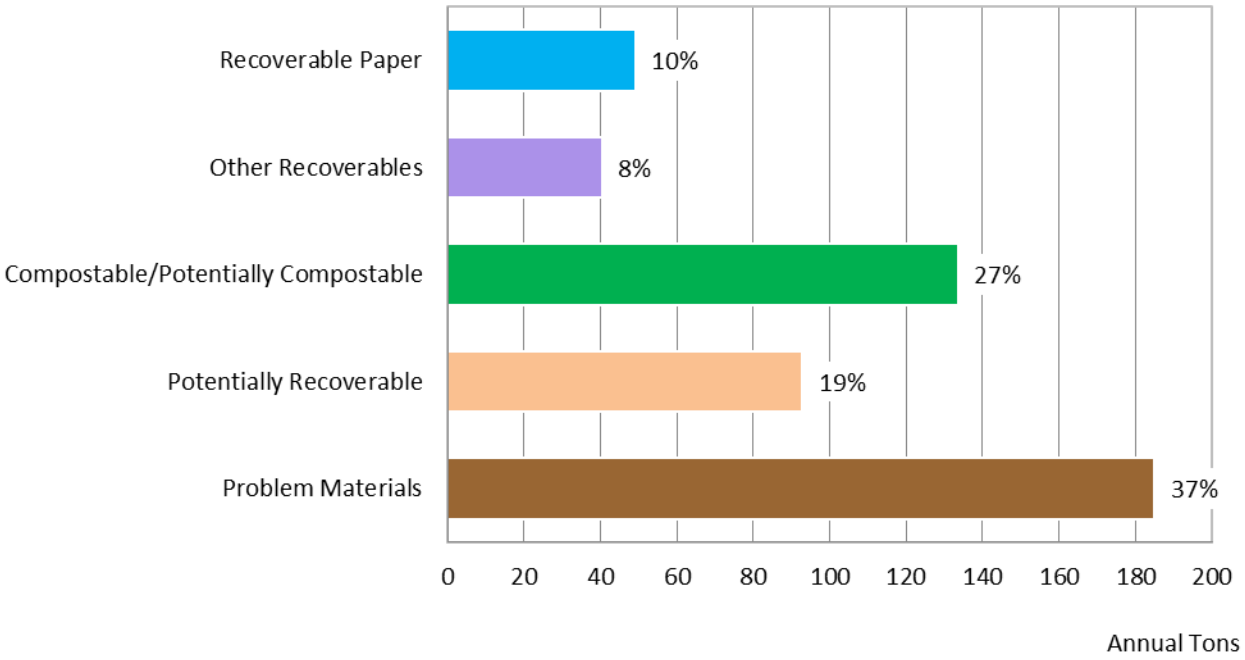


Figure 60. Composition by Material Class, Rio Dell, Commercial

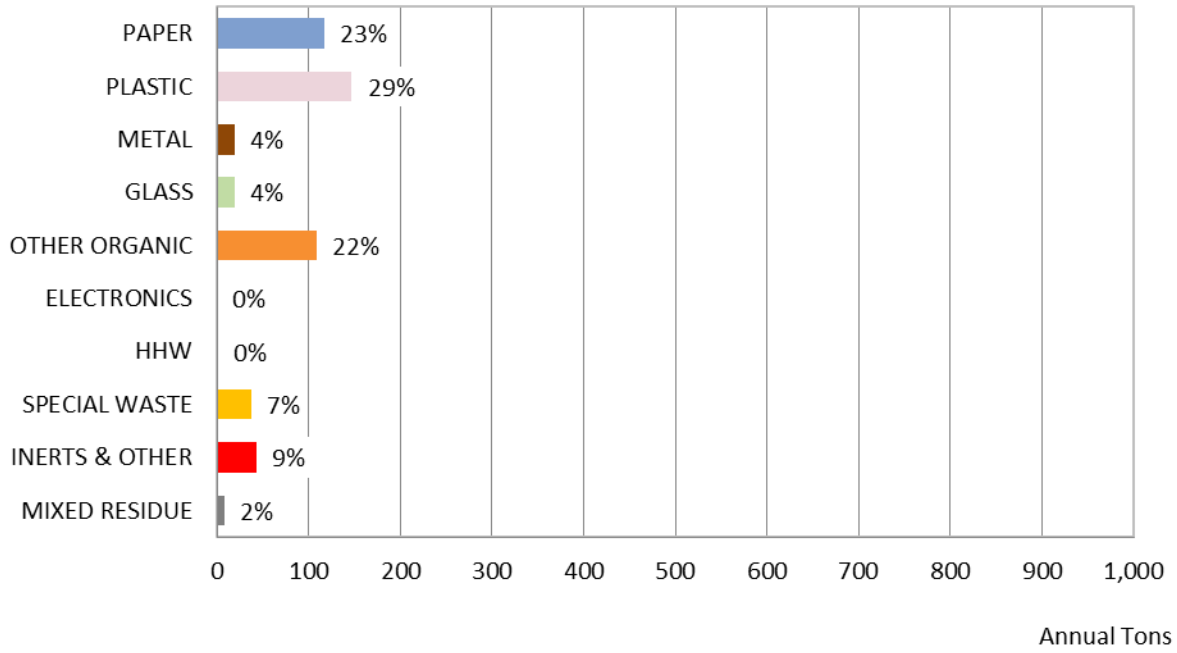


Table 54. Ten Most Prevalent Materials, Rio Dell, Commercial

Material	Est. Percent	Est. Tons
Food - Not Donatable	13.4%	67
Compostable Paper	9.7%	49
Film Products	9.4%	47
Other Recyclable Paper	7.0%	35
Non-Bag Commercial Industrial Packaging Film	6.8%	34
Other Wood Waste	4.5%	22
Bulky Items	3.8%	19
Food - Potentially Donatable	3.5%	18
Other Film	3.5%	17
Textiles - Organic	3.1%	16
Total for Top Materials	**64.6%**	**323**

Table 55. Detailed Material Composition, Rio Dell, Commercial

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**23.4%**	**3.8%**	**117**
Uncoated Corrugated Cardboard	2.3%	2.0%	11
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.6%	0.3%	3
Other Recyclable Paper	7.0%	3.3%	35
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.9%	0.3%	5
Compostable Paper	9.7%	6.8%	49
R/C Paper	3.0%	2.0%	15
PLASTIC	**29.3%**	**9.4%**	**147**
PETE Water Bottles	0.5%	0.3%	3
Other PETE Containers	0.3%	0.3%	2
HDPE Containers	0.6%	0.5%	3
Single-Use Polystyrene Food Service Items	0.1%	0.1%	0
#3-#7 Other Containers	1.1%	0.2%	5
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	2.5%	0.6%	13
Plastic Grocery and Other Merchandise Bags	0.4%	0.2%	2
Non-Bag Commercial Industrial Packaging Film	6.8%	5.9%	34
Film Products	9.4%	13.0%	47
Other Film	3.5%	0.6%	17
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.9%	0.3%	4
Other Non-Recyclable Rigid Plastic	0.4%	0.2%	2
R/C Plastic	2.9%	2.2%	14
GLASS	**3.7%**	**5.1%**	**19**
Clear Glass Bottles Containers	1.2%	1.3%	6
Green Glass Bottles Containers	0.0%	0.0%	0
Brown Glass Bottles Containers	0.6%	0.8%	3
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	1.8%	2.4%	9
R/C Glass	0.1%	0.1%	0
METAL	**3.9%**	**3.5%**	**20**
Tin/Steel Cans	1.1%	1.0%	5
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	1.7%	1.9%	9
Aluminum Cans	0.5%	0.2%	2
Other Non-ferrous	0.3%	0.4%	2
Mixed Recoverable Metal	0.3%	0.4%	2
R/C Metal	0.0%	0.0%	0
OTHER ORGANIC	**21.7%**	**8.2%**	**109**
Food - Potentially Donatable	3.5%	4.6%	18
Food - Not Donatable	13.4%	4.6%	67
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	0.0%	0.0%	0
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	3.1%	1.2%	16
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	1.7%	1.6%	9
INERTS & OTHER	**8.6%**	**9.3%**	**43**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.1%	0.1%	1
Clean Engineered Wood	0.0%	0.0%	0
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	4.5%	5.2%	22
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	2.7%	4.0%	14
R/C Inerts and Other	1.3%	1.5%	6
ELECTRONICS	**0.1%**	**0.1%**	**0**
E-Waste	0.1%	0.1%	0
HHW	**0.3%**	**0.2%**	**1**
Household Hazardous Waste	0.3%	0.2%	1
SPECIAL WASTE	**7.4%**	**6.6%**	**37**
Ash	1.0%	1.4%	5
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	3.8%	5.1%	19
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	2.6%	1.2%	13
MIXED RESIDUE	**1.6%**	**1.2%**	**8**
Mixed Residue	1.6%	1.2%	8
Sample Count			**3**
Total Tons			**501**

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

Recoverable Paper	**9.8%**	4.7%	**49**
Other Recoverables	**8.1%**	6.0%	**40**
Compostable/Potentially Compostable	**26.7%**	9.9%	**134**
Potentially Recoverable	**18.5%**	12.1%	**93**
Problem Materials	**36.9%**	12.8%	**185**
Totals	**100.0%**		**501**

Figure 61. Composition by Recoverability Group, Rio Dell, Residential

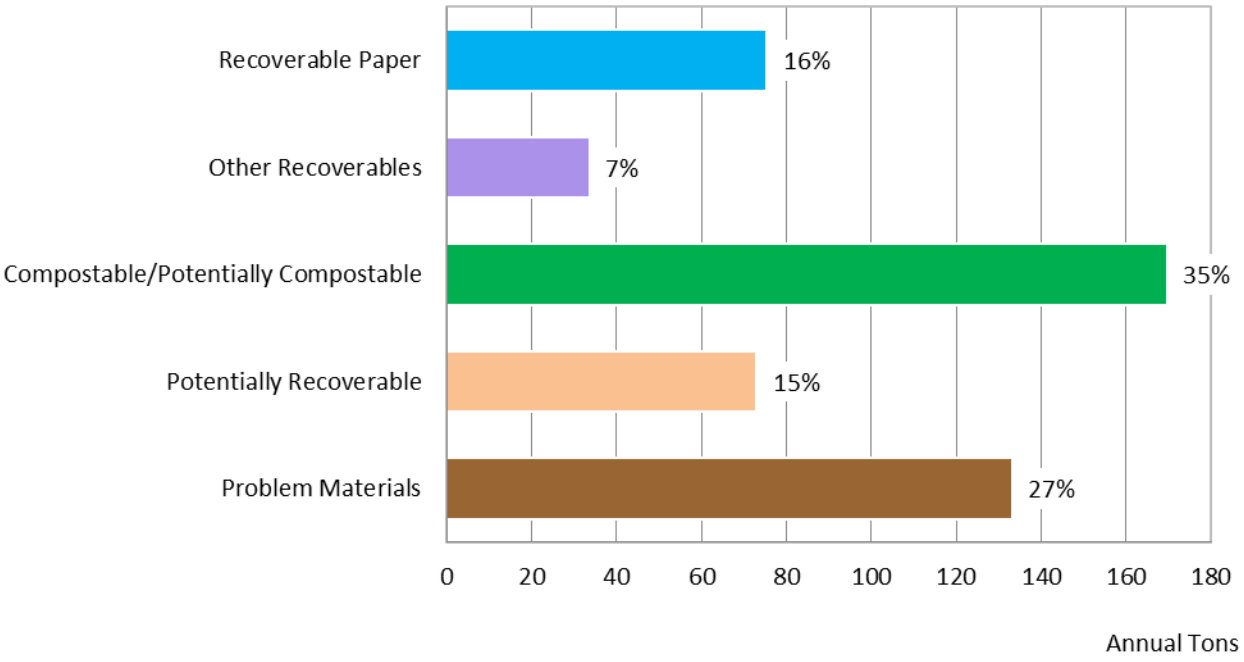


Figure 62. Composition by Material Class, Rio Dell, Residential

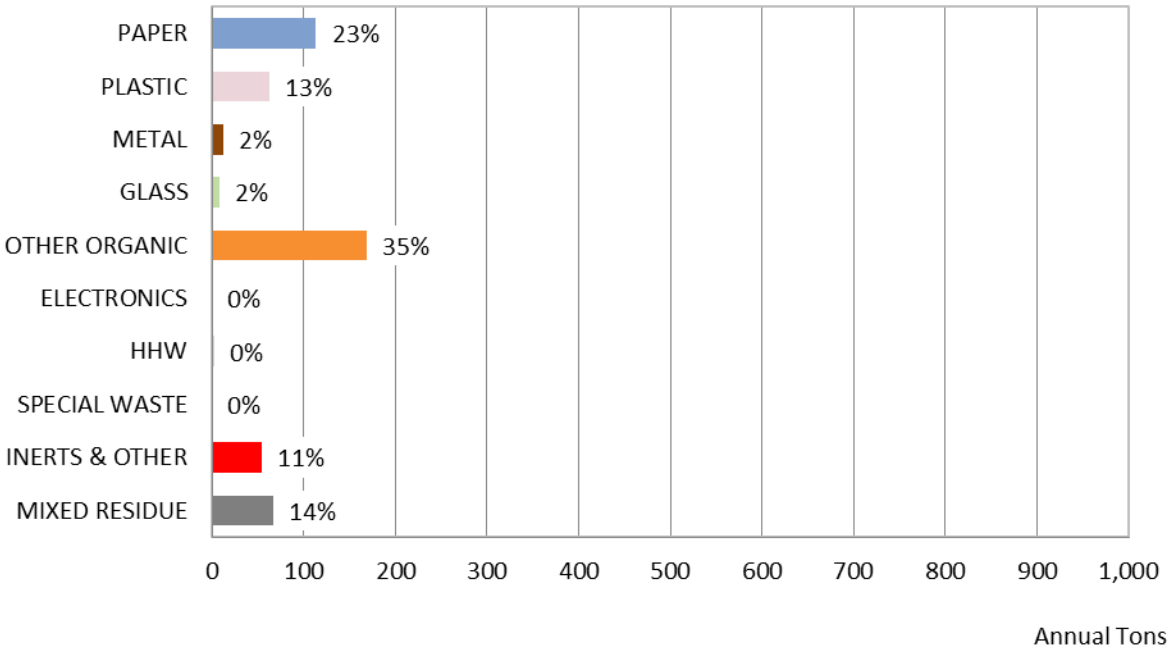


Table 56. Ten Most Prevalent Material Types, Rio Dell, Residential

Material	Est. Percent	Est. Tons
Food - Not Donatable	20.8%	101
Mixed Residue	13.7%	66
Other Recyclable Paper	12.6%	61
Textiles - Synthetic, Mixed, Unknown	10.8%	52
Food - Potentially Donatable	5.8%	28
Compostable Paper	5.5%	27
Other Film	3.4%	17
Leaves Grass	2.8%	14
Textiles - Organic	2.7%	13
R/C Organic	2.5%	12
Total for Top Materials	**80.6%**	**391**

Table 57. Detailed Material Composition, Rio Dell, Residential

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**23.4%**	**0.2%**	**113**
Uncoated Corrugated Cardboard	2.1%	2.9%	10
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.9%	0.2%	4
Other Recyclable Paper	12.6%	0.8%	61
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.3%	0.1%	1
Compostable Paper	5.5%	2.4%	27
R/C Paper	2.1%	0.1%	10
PLASTIC	**12.8%**	**1.4%**	**62**
PETE Water Bottles	1.1%	0.4%	5
Other PETE Containers	0.4%	0.1%	2
HDPE Containers	0.9%	0.6%	4
Single-Use Polystyrene Food Service Items	0.6%	0.0%	3
#3-#7 Other Containers	1.8%	0.8%	9
Compostable Plastics	0.1%	0.1%	0
Plastic Trash Bags	1.7%	0.5%	8
Plastic Grocery and Other Merchandise Bags	1.2%	1.1%	6
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	0
Film Products	0.1%	0.1%	1
Other Film	3.4%	1.0%	17
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.8%	0.5%	4
Other Non-Recyclable Rigid Plastic	0.1%	0.1%	0
R/C Plastic	0.6%	0.2%	3
GLASS	**1.6%**	**2.1%**	**8**
Clear Glass Bottles Containers	1.1%	1.3%	5
Green Glass Bottles Containers	0.3%	0.4%	2
Brown Glass Bottles Containers	0.1%	0.1%	1
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0
METAL	**2.4%**	**0.4%**	**12**
Tin/Steel Cans	0.9%	0.2%	5
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.0%	0.0%	0
Aluminum Cans	0.5%	0.3%	2
Other Non-ferrous	0.7%	0.1%	3
Mixed Recoverable Metal	0.1%	0.2%	1
R/C Metal	0.1%	0.2%	1
OTHER ORGANIC	**34.7%**	**0.3%**	**168**
Food - Potentially Donatable	5.8%	4.3%	28
Food - Not Donatable	20.8%	2.5%	101
Leaves Grass	2.8%	3.3%	14
Prunings Trimmings	0.0%	0.0%	0
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	2.7%	1.0%	13
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	2.5%	2.2%	12
INERTS & OTHER	**11.1%**	**4.9%**	**54**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.0%	0.0%	0
Clean Engineered Wood	0.1%	0.1%	0
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.0%	0.0%	0
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	10.8%	4.9%	52
R/C Inerts and Other	0.2%	0.1%	1
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.5%**	**0.5%**	**2**
Household Hazardous Waste	0.5%	0.5%	2
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**13.7%**	**0.1%**	**66**
Mixed Residue	13.7%	0.1%	66
Sample Count			**2**
Total Tons			**485**

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

Recoverable Paper	**15.6%**	2.3%	**75**
Other Recoverables	**6.9%**	3.6%	**34**
Compostable/Potentially Compostable	**35.0%**	5.4%	**170**
Potentially Recoverable	**15.1%**	2.8%	**73**
Problem Materials	**27.5%**	2.2%	**133**
Totals	**100.0%**		**485**

Figure 63. Composition by Recoverability Group, Rio Dell, Self-haul

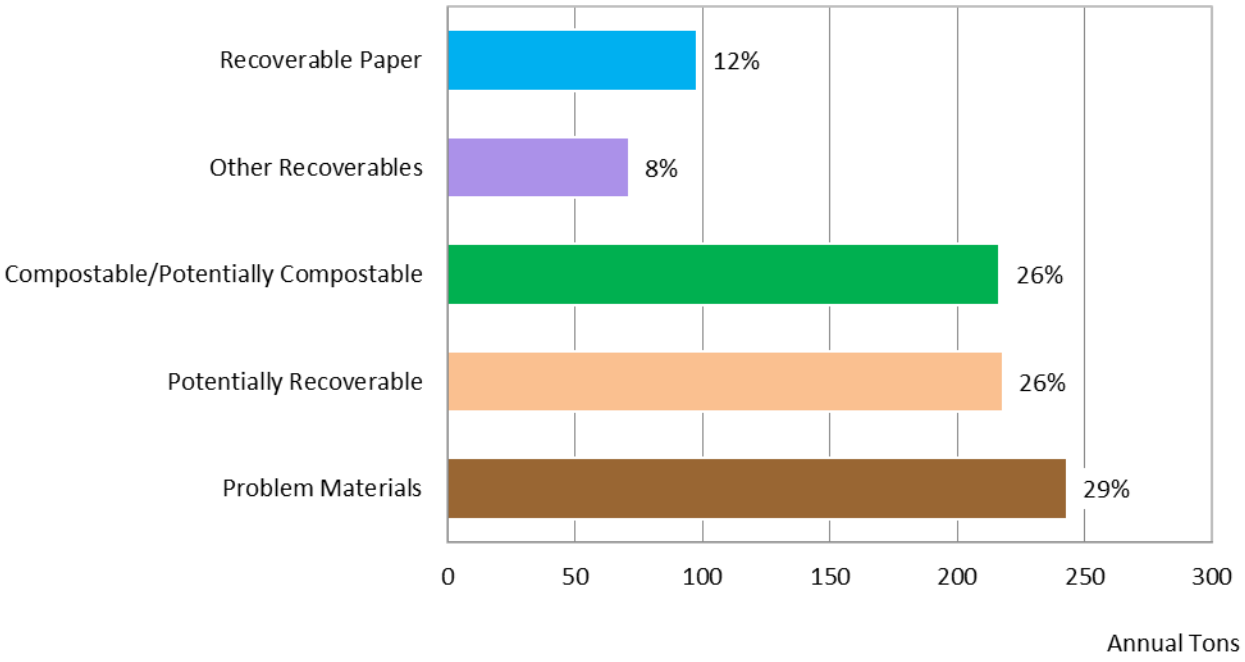


Figure 64. Composition by Material Class, Rio Dell, Self-haul

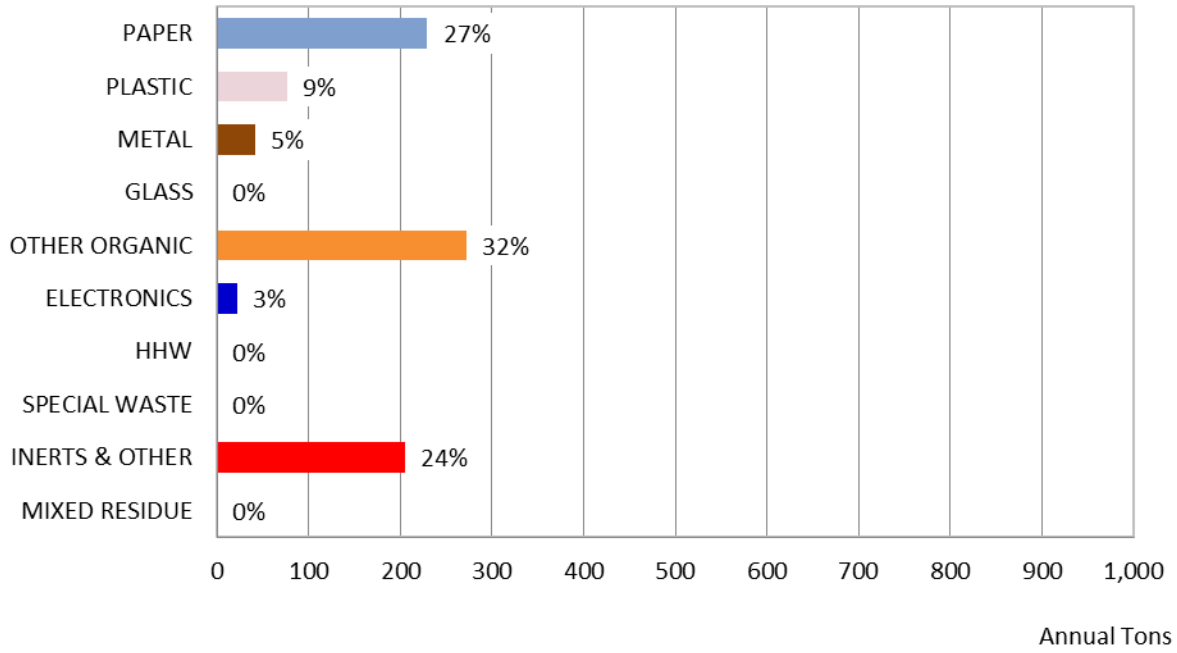


Table 58. Ten Most Prevalent Materials, Rio Dell, Self-haul

Material	Est. Percent	Est. Tons
Food - Not Donatable	16.0%	136
Textiles - Organic	11.9%	101
R/C Paper	10.1%	86
R/C Inerts and Other	9.0%	76
Other Recyclable Paper	7.1%	60
Textiles - Synthetic, Mixed, Unknown	7.0%	60
Compostable Paper	5.4%	45
Roofing Tar Paper/Felt	4.1%	35
Prunings Trimmings	3.7%	32
Uncoated Corrugated Cardboard	3.4%	29
Total for Top Materials	**77.8%**	**659**

Table 59. Detailed Material Composition, Rio Dell, Self-haul

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**27.1%**	**4.5%**	**229**
Uncoated Corrugated Cardboard	3.4%	0.3%	29
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	1.1%	1.8%	9
Other Recyclable Paper	7.1%	3.7%	60
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.0%	0.0%	0
Compostable Paper	5.4%	5.0%	45
R/C Paper	10.1%	1.6%	86
PLASTIC	**9.0%**	**1.2%**	**76**
PETE Water Bottles	0.2%	0.4%	2
Other PETE Containers	0.9%	0.9%	8
HDPE Containers	0.8%	0.4%	6
Single-Use Polystyrene Food Service Items	0.0%	0.0%	0
#3-#7 Other Containers	0.4%	0.1%	3
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	0.4%	0.1%	4
Plastic Grocery and Other Merchandise Bags	0.2%	0.0%	1
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	0
Film Products	0.2%	0.2%	2
Other Film	0.9%	0.7%	7
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	2.7%	0.3%	23
Other Non-Recyclable Rigid Plastic	1.6%	1.5%	14
R/C Plastic	0.7%	0.5%	6
GLASS	**0.0%**	**0.0%**	**0**
Clear Glass Bottles Containers	0.0%	0.0%	0
Green Glass Bottles Containers	0.0%	0.0%	0
Brown Glass Bottles Containers	0.0%	0.0%	0
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0
METAL	**5.0%**	**0.1%**	**42**
Tin/Steel Cans	2.8%	0.4%	24
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.5%	0.8%	4
Aluminum Cans	0.5%	0.9%	4
Other Non-ferrous	0.0%	0.0%	0
Mixed Recoverable Metal	0.0%	0.0%	0
R/C Metal	1.2%	2.0%	10

Material	Estimated Percent	+/-	Estimated Tons
OTHER ORGANIC	**32.1%**	**17.2%**	**272**
Food - Potentially Donatable	0.0%	0.0%	0
Food - Not Donatable	16.0%	20.6%	136
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	3.7%	6.1%	32
Branches Stumps	0.5%	0.8%	4
Manures	0.0%	0.0%	0
Textiles - Organic	11.9%	8.7%	101
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	0.0%	0.0%	0
INERTS & OTHER	**24.2%**	**18.6%**	**205**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	4.1%	6.8%	35
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.8%	2.9%	15
Clean Engineered Wood	1.3%	2.2%	11
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.8%	1.4%	7
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	7.0%	9.5%	60
R/C Inerts and Other	9.0%	14.8%	76
ELECTRONICS	**2.7%**	**4.4%**	**23**
E-Waste	2.7%	4.4%	23
HHW	**0.0%**	**0.0%**	**0**
Household Hazardous Waste	0.0%	0.0%	0
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**0.0%**	**0.0%**	**0**
Mixed Residue	0.0%	0.0%	0

Sample Count			**2**
Total Tons			**847**

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

Recoverable Paper	**11.6%**	2.1%	**98**
Other Recoverables	**8.4%**	4.1%	**71**
Compostable/Potentially Compostable	**25.6%**	30.9%	**217**
Potentially Recoverable	**25.7%**	10.0%	**218**
Problem Materials	**28.7%**	22.9%	**243**
Totals	**100.0%**		**847**

Table 60. Detailed Material Composition, Unincorporated County, Overall

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**18.9%**	**3.6%**	**8,389**
Uncoated Corrugated Cardboard	2.2%	1.0%	982
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	1.0%	0.5%	425
Other Recyclable Paper	6.6%	2.0%	2,929
Paper Cups - Compostable	0.1%	0.1%	56
Paper Cups - Not Compostable	0.2%	0.1%	90
Compostable Paper	6.0%	1.3%	2,675
R/C Paper	2.8%	1.0%	1,233
PLASTIC	**13.0%**	**2.3%**	**5,787**
PETE Water Bottles	0.8%	0.4%	371
Other PETE Containers	0.7%	0.3%	322
HDPE Containers	0.5%	0.2%	237
Single-Use Polystyrene Food Service Items	0.1%	0.1%	52
#3-#7 Other Containers	0.8%	0.2%	355
Compostable Plastics	0.0%	0.0%	8
Plastic Trash Bags	2.0%	0.4%	870
Plastic Grocery and Other Merchandise Bags	0.3%	0.2%	136
Non-Bag Commercial Industrial Packaging Film	1.1%	0.8%	496
Film Products	0.9%	0.8%	378
Other Film	3.3%	0.8%	1,474
Rigid Plastic Drip Lines	0.0%	0.0%	3
Other Recyclable Rigid Plastic	1.2%	0.8%	512
Other Non-Recyclable Rigid Plastic	0.3%	0.2%	149
R/C Plastic	1.0%	0.3%	423
GLASS	**5.5%**	**3.3%**	**2,426**
Clear Glass Bottles Containers	5.0%	3.3%	2,230
Green Glass Bottles Containers	0.2%	0.1%	75
Brown Glass Bottles Containers	0.1%	0.1%	48
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.1%	0.1%	30
R/C Glass	0.1%	0.1%	44
METAL	**9.9%**	**7.8%**	**4,412**
Tin/Steel Cans	0.8%	0.3%	343
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	7.2%	7.8%	3,210
Aluminum Cans	0.5%	0.3%	237
Other Non-ferrous	0.4%	0.2%	191
Mixed Recoverable Metal	0.5%	0.5%	210
R/C Metal	0.5%	0.2%	221
OTHER ORGANIC	**36.7%**	**6.4%**	**16,319**
Food - Potentially Donatable	4.2%	2.3%	1,880
Food - Not Donatable	19.7%	4.8%	8,775
Leaves Grass	1.4%	1.4%	628
Prunings Trimmings	0.9%	0.9%	381
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	4.5%	4.6%	1,978
Carpet	0.7%	0.5%	297
Animal Carcasses	0.0%	0.0%	0
R/C Organic	5.4%	2.0%	2,380
INERTS & OTHER	**9.1%**	**9.1%**	**4,041**
Concrete	0.1%	0.1%	35
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	16
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	1.0%	1.2%	443
Clean Engineered Wood	2.0%	3.2%	907
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	3.3%	4.8%	1,488
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	14
Rock, Soil, and Fines	0.5%	0.7%	201
Textiles - Synthetic, Mixed, Unknown	1.9%	1.2%	857
R/C Inerts and Other	0.2%	0.1%	80
ELECTRONICS	**1.3%**	**1.3%**	**573**
E-Waste	1.3%	1.3%	573
HHW	**0.3%**	**0.3%**	**151**
Household Hazardous Waste	0.3%	0.3%	151
SPECIAL WASTE	**2.8%**	**2.9%**	**1,229**
Ash	0.0%	0.0%	1
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.2%	0.3%	74
Bulky Items	2.4%	2.9%	1,070
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.2%	0.3%	84
MIXED RESIDUE	**2.5%**	**1.0%**	**1,119**
Mixed Residue	2.5%	1.0%	1,119
Sample Count			**27**
Total Tons			**44,446**

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

Recoverable Paper	**9.8%**	2.4%	**4,336**
Other Recoverables	**18.0%**	7.1%	**7,989**
Compostable/Potentially Compostable	**32.4%**	7.1%	**14,402**
Potentially Recoverable	**16.6%**	9.5%	**7,374**
Problem Materials	**23.3%**	3.4%	**10,344**
Totals	**100.0%**		**44,446**

Figure 65. Composition by Recoverability Group, Unincorporated County, Commercial

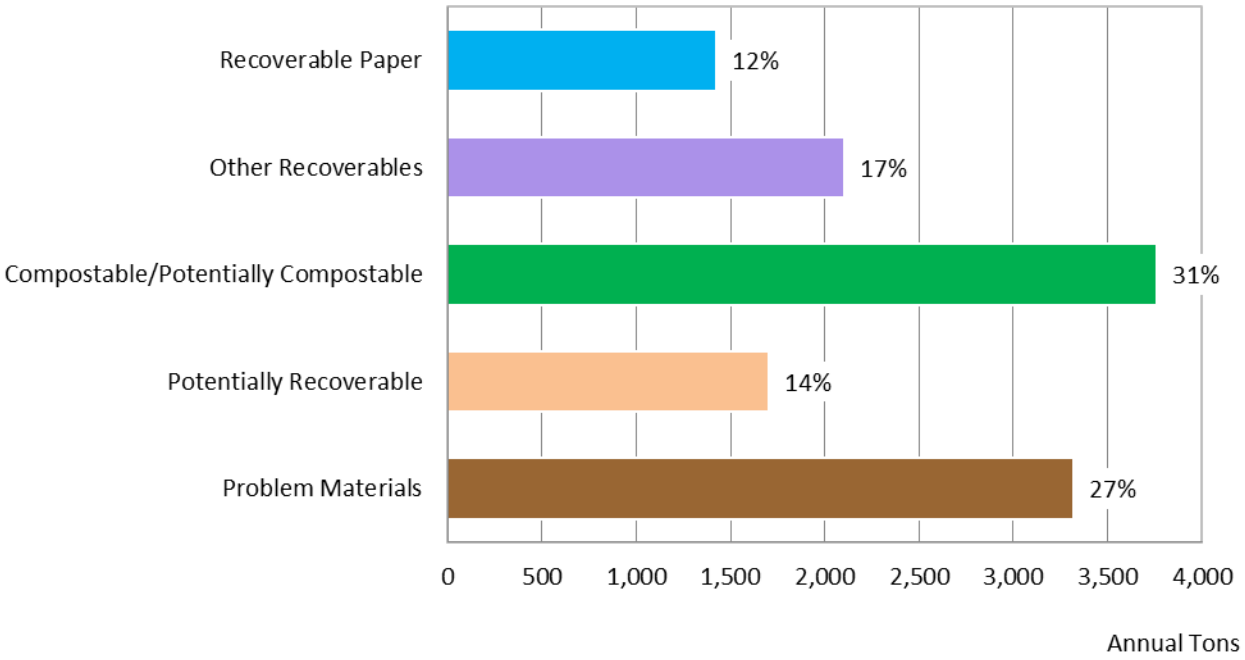


Figure 66. Composition by Material Class, Unincorporated County, Commercial

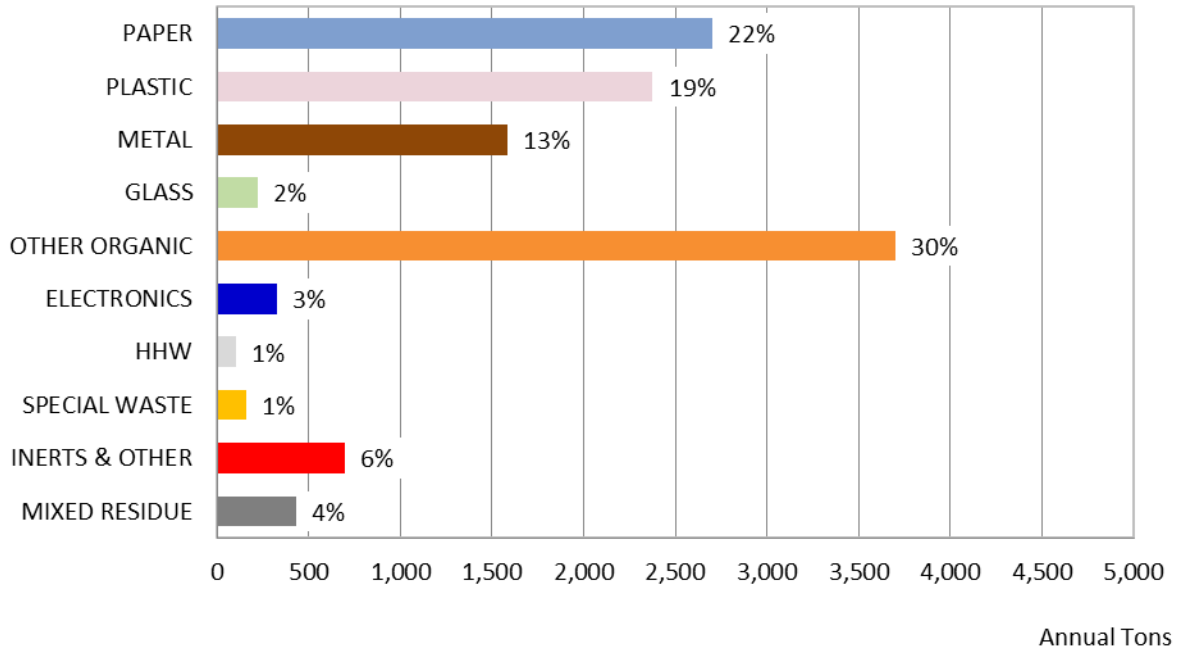


Table 61. Ten Most Prevalent Materials, Unincorporated County, Commercial

Material	Est. Percent	Est. Tons
Food - Not Donatable	16.8%	2,070
Other Ferrous	8.7%	1,070
Compostable Paper	7.0%	863
Other Recyclable Paper	6.5%	805
R/C Organic	4.6%	565
Leaves Grass	4.4%	547
Uncoated Corrugated Cardboard	4.2%	515
Other Film	3.9%	474
Non-Bag Commercial Industrial Packaging Film	3.8%	468
Mixed Residue	3.5%	432
Total for Top Materials	**63.5%**	**7,809**

Table 62. Detailed Material Composition, Unincorporated County, Commercial

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**22.0%**	**4.7%**	**2,702**
Uncoated Corrugated Cardboard	4.2%	1.8%	515
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.8%	0.3%	102
Other Recyclable Paper	6.5%	1.7%	805
Paper Cups - Compostable	0.4%	0.3%	50
Paper Cups - Not Compostable	0.5%	0.2%	63
Compostable Paper	7.0%	1.9%	863
R/C Paper	2.5%	0.9%	304
PLASTIC	**19.3%**	**5.5%**	**2,377**
PETE Water Bottles	1.1%	0.4%	131
Other PETE Containers	0.4%	0.1%	44
HDPE Containers	0.8%	0.3%	103
Single-Use Polystyrene Food Service Items	0.1%	0.1%	14
#3-#7 Other Containers	1.2%	0.5%	151
Compostable Plastics	0.0%	0.0%	3
Plastic Trash Bags	3.2%	1.3%	395
Plastic Grocery and Other Merchandise Bags	0.2%	0.1%	29
Non-Bag Commercial Industrial Packaging Film	3.8%	2.9%	468
Film Products	1.8%	2.7%	220
Other Film	3.9%	1.3%	474
Rigid Plastic Drip Lines	0.0%	0.0%	3
Other Recyclable Rigid Plastic	1.4%	1.0%	173
Other Non-Recyclable Rigid Plastic	0.1%	0.1%	12
R/C Plastic	1.3%	0.7%	156
GLASS	**1.8%**	**0.7%**	**223**
Clear Glass Bottles Containers	1.1%	0.4%	138
Green Glass Bottles Containers	0.0%	0.0%	0
Brown Glass Bottles Containers	0.3%	0.2%	36
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.2%	0.4%	30
R/C Glass	0.2%	0.2%	19
METAL	**12.9%**	**8.8%**	**1,585**
Tin/Steel Cans	0.9%	0.6%	116
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	8.7%	7.6%	1,070
Aluminum Cans	0.4%	0.1%	45
Other Non-ferrous	0.5%	0.3%	57
Mixed Recoverable Metal	1.5%	1.7%	187
R/C Metal	0.9%	0.4%	110
OTHER ORGANIC	**30.1%**	**6.4%**	**3,701**
Food - Potentially Donatable	1.7%	1.4%	207
Food - Not Donatable	16.8%	5.2%	2,070
Leaves Grass	4.4%	4.9%	547
Prunings Trimmings	0.2%	0.2%	22
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	1.0%	0.6%	124
Carpet	1.3%	1.1%	166
Animal Carcasses	0.0%	0.0%	0
R/C Organic	4.6%	2.8%	565
INERTS & OTHER	**5.7%**	**2.7%**	**699**
Concrete	0.3%	0.4%	35
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.1%	0.1%	11
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.4%	0.3%	47
Clean Engineered Wood	0.1%	0.1%	10
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.2%	0.1%	23
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.1%	0.1%	7
Rock, Soil, and Fines	1.6%	2.4%	198
Textiles - Synthetic, Mixed, Unknown	2.7%	1.7%	335
R/C Inerts and Other	0.3%	0.2%	34
ELECTRONICS	**2.7%**	**4.1%**	**327**
E-Waste	2.7%	4.1%	327
HHW	**0.8%**	**1.2%**	**101**
Household Hazardous Waste	0.8%	1.2%	101
SPECIAL WASTE	**1.3%**	**1.2%**	**157**
Ash	0.0%	0.0%	1
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.6%	0.9%	73
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.7%	1.0%	82
MIXED RESIDUE	**3.5%**	**2.2%**	**432**
Mixed Residue	3.5%	2.2%	432
Sample Count			**11**
Total Tons			**12,304**

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

Recoverable Paper	**11.6%**	2.8%	**1,422**
Other Recoverables	**17.1%**	8.2%	**2,104**
Compostable/Potentially Compostable	**30.6%**	9.0%	**3,761**
Potentially Recoverable	**13.8%**	5.6%	**1,700**
Problem Materials	**27.0%**	3.7%	**3,316**
Totals	**100.0%**		**12,304**

Figure 67. Composition by Recoverability Group, Unincorporated County, Residential

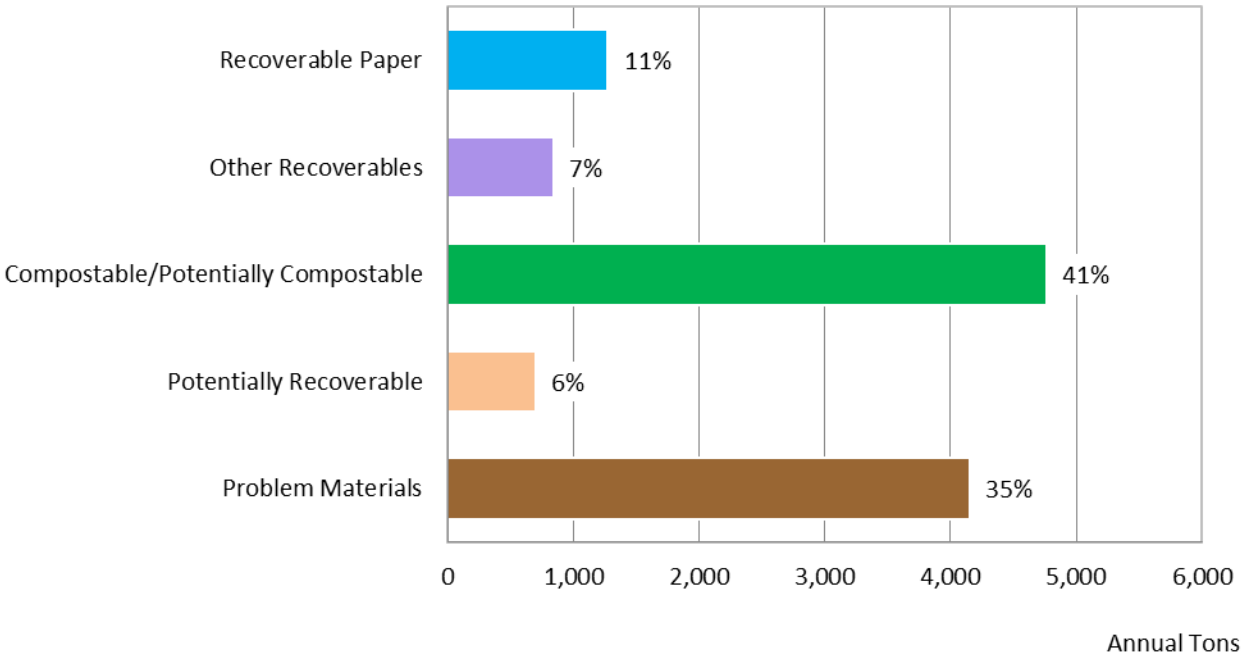


Figure 68. Composition by Material Class, Unincorporated County, Residential

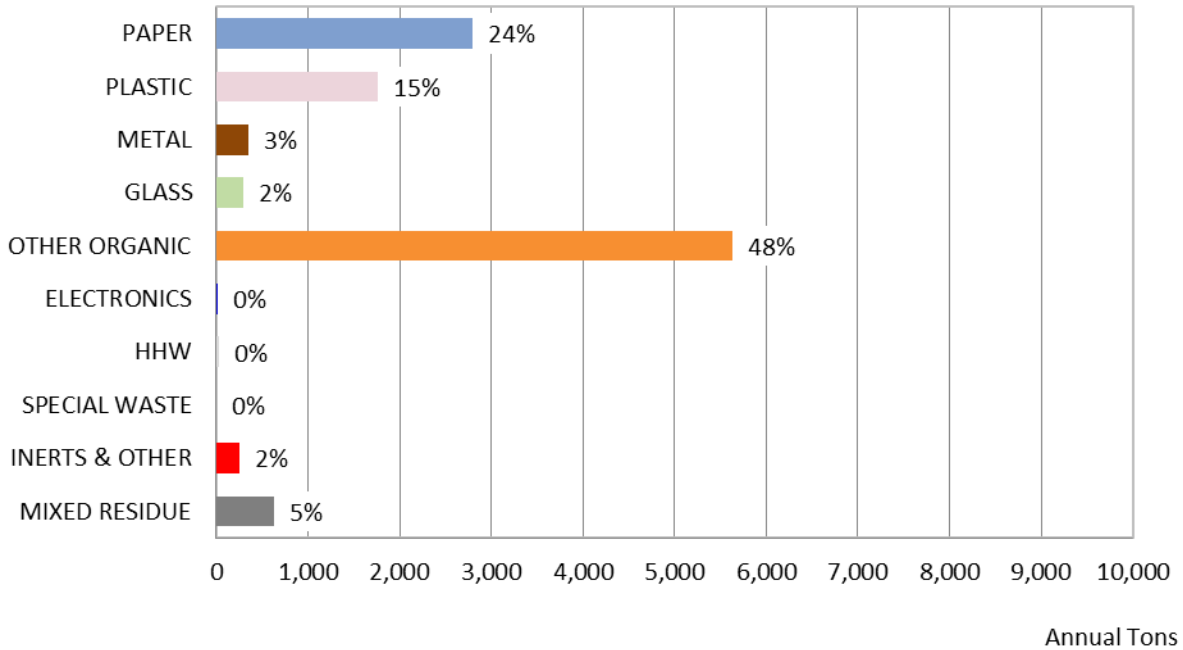


Table 63. Ten Most Prevalent Materials, Unincorporated County, Residential

Material	Est. Percent	Est. Tons
Food - Not Donatable	27.2%	3,193
R/C Organic	13.4%	1,573
Compostable Paper	9.7%	1,133
Other Recyclable Paper	8.5%	999
Other Film	6.0%	705
Mixed Residue	5.3%	624
Textiles - Organic	3.7%	429
R/C Paper	3.1%	362
Plastic Trash Bags	3.0%	347
Food - Potentially Donatable	2.9%	341
Total for Top Materials	**82.7%**	**9,706**

Table 64. Detailed Material Composition, Unincorporated County, Residential

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**23.8%**	**3.6%**	**2,791**
Uncoated Corrugated Cardboard	1.8%	1.7%	216
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	0.5%	0.1%	59
Other Recyclable Paper	8.5%	1.5%	999
Paper Cups - Compostable	0.0%	0.0%	3
Paper Cups - Not Compostable	0.2%	0.1%	18
Compostable Paper	9.7%	2.6%	1,133
R/C Paper	3.1%	0.4%	362
PLASTIC	**15.0%**	**4.6%**	**1,762**
PETE Water Bottles	0.5%	0.1%	56
Other PETE Containers	0.8%	0.4%	89
HDPE Containers	0.4%	0.1%	43
Single-Use Polystyrene Food Service Items	0.2%	0.3%	29
#3-#7 Other Containers	1.0%	0.5%	122
Compostable Plastics	0.0%	0.1%	5
Plastic Trash Bags	3.0%	0.7%	347
Plastic Grocery and Other Merchandise Bags	0.4%	0.1%	42
Non-Bag Commercial Industrial Packaging Film	0.0%	0.0%	4
Film Products	0.9%	1.3%	109
Other Film	6.0%	1.7%	705
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	0.4%	0.2%	41
Other Non-Recyclable Rigid Plastic	0.0%	0.1%	5
R/C Plastic	1.4%	0.7%	165
GLASS	**2.5%**	**0.9%**	**291**
Clear Glass Bottles Containers	2.1%	1.0%	243
Green Glass Bottles Containers	0.4%	0.3%	45
Brown Glass Bottles Containers	0.0%	0.0%	2
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	1
METAL	**3.0%**	**0.7%**	**354**
Tin/Steel Cans	1.4%	0.7%	162
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.0%	0.0%	5
Aluminum Cans	0.2%	0.1%	29
Other Non-ferrous	0.9%	0.8%	111
Mixed Recoverable Metal	0.2%	0.1%	19
R/C Metal	0.3%	0.2%	30
OTHER ORGANIC	**47.9%**	**7.5%**	**5,627**
Food - Potentially Donatable	2.9%	1.5%	341
Food - Not Donatable	27.2%	5.0%	3,193
Leaves Grass	0.6%	0.7%	70
Prunings Trimmings	0.2%	0.1%	21
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	3.7%	2.2%	429
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	13.4%	6.6%	1,573
INERTS & OTHER	**2.1%**	**0.8%**	**247**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.1%	5
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.0%	0.0%	2
Clean Engineered Wood	0.0%	0.0%	0
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	0.2%	0.1%	22
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.1%	0.1%	7
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	1.4%	0.6%	170
R/C Inerts and Other	0.4%	0.2%	42
ELECTRONICS	**0.1%**	**0.2%**	**14**
E-Waste	0.1%	0.2%	14
HHW	**0.2%**	**0.1%**	**25**
Household Hazardous Waste	0.2%	0.1%	25
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**5.3%**	**3.0%**	**624**
Mixed Residue	5.3%	3.0%	624
Sample Count			**4**
Total Tons			**11,736**

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

Recoverable Paper	**10.9%**	3.1%	**1,275**
Other Recoverables	**7.2%**	0.6%	**844**
Compostable/Potentially Compostable	**40.6%**	4.4%	**4,767**
Potentially Recoverable	**6.0%**	1.5%	**700**
Problem Materials	**35.4%**	5.0%	**4,151**
Totals	**100.0%**		**11,736**

Figure 69. Composition by Recoverability Group, Unincorporated County, Combined

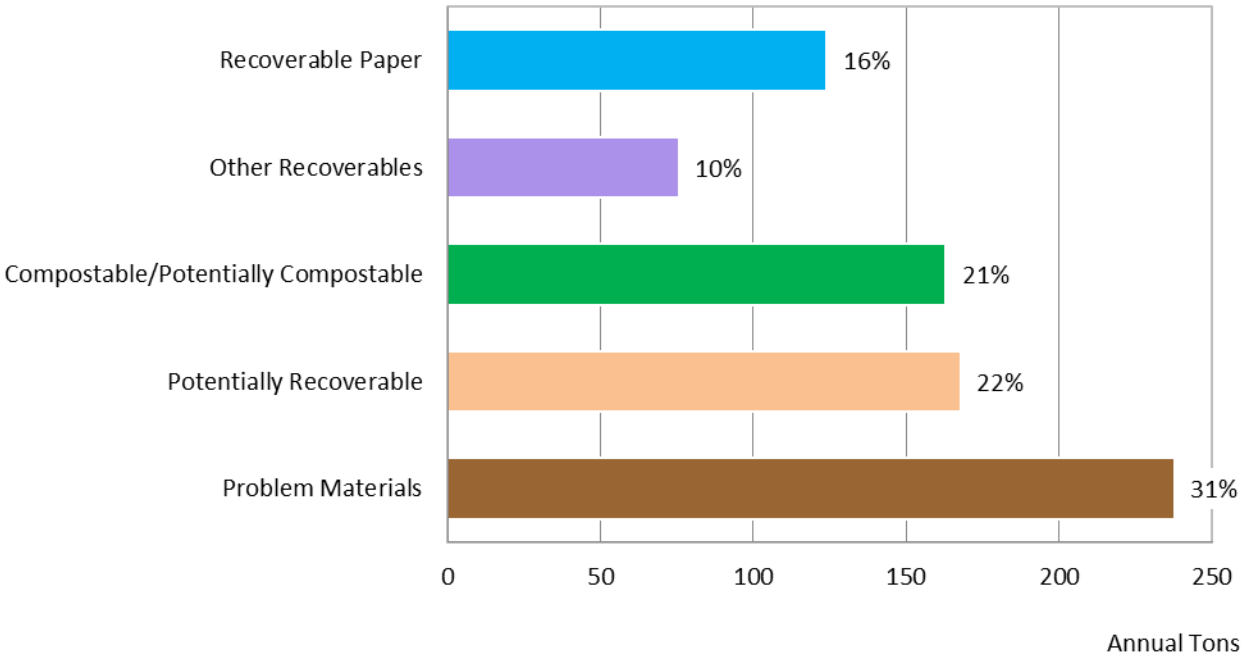


Figure 70. Composition by Material Class, Unincorporated County, Combined

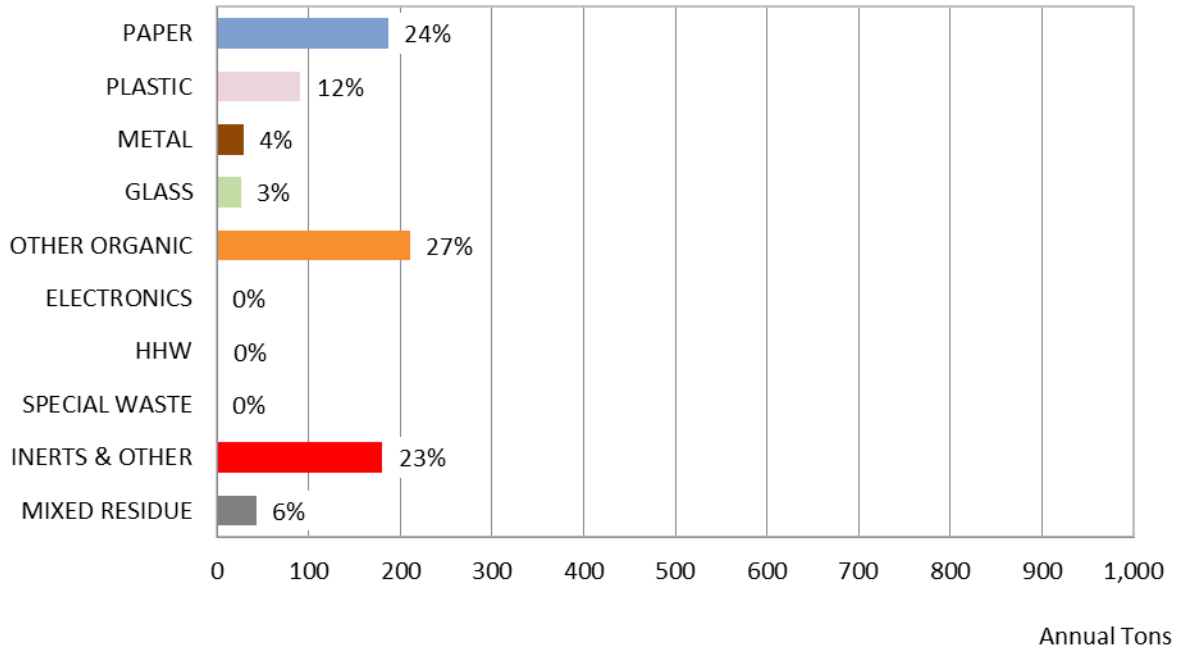


Table 65. Ten Most Prevalent Materials, Unincorporated County, Combined

Material	Est. Percent	Est. Tons
Food - Not Donatable	13.8%	106
Textiles - Synthetic, Mixed, Unknown	8.5%	66
Other Recyclable Paper	8.0%	62
R/C Inerts and Other	7.5%	58
Other Wood Waste	6.7%	52
R/C Organic	6.7%	51
Uncoated Corrugated Cardboard	6.6%	51
Mixed Residue	5.6%	43
Compostable Paper	5.6%	43
Textiles - Organic	5.1%	39
Total for Top Materials	**74.1%**	**569**

Table 66. Detailed Material Composition, Unincorporated County, Combined

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**24.3%**	**8.6%**	**187**
Uncoated Corrugated Cardboard	6.6%	5.7%	51
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	1.5%	0.5%	12
Other Recyclable Paper	8.0%	6.0%	62
Paper Cups - Compostable	0.0%	0.0%	0
Paper Cups - Not Compostable	0.5%	0.2%	4
Compostable Paper	5.6%	4.1%	43
R/C Paper	2.1%	0.9%	16
PLASTIC	**11.9%**	**0.7%**	**91**
PETE Water Bottles	0.6%	0.5%	5
Other PETE Containers	0.3%	0.3%	3
HDPE Containers	0.4%	0.3%	3
Single-Use Polystyrene Food Service Items	0.3%	0.2%	2
#3-#7 Other Containers	0.6%	0.3%	5
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	2.8%	0.8%	22
Plastic Grocery and Other Merchandise Bags	0.1%	0.1%	1
Non-Bag Commercial Industrial Packaging Film	0.1%	0.2%	1
Film Products	0.0%	0.0%	0
Other Film	4.7%	1.2%	36
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.3%	1.6%	10
Other Non-Recyclable Rigid Plastic	0.0%	0.0%	0
R/C Plastic	0.6%	0.2%	5
GLASS	**3.5%**	**2.9%**	**27**
Clear Glass Bottles Containers	1.7%	2.3%	13
Green Glass Bottles Containers	0.2%	0.2%	2
Brown Glass Bottles Containers	1.5%	1.1%	12
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.0%	0.0%	0
METAL	**3.8%**	**3.8%**	**29**
Tin/Steel Cans	0.8%	0.7%	6
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	0.0%	0.0%	0
Aluminum Cans	0.9%	1.0%	7
Other Non-ferrous	0.2%	0.1%	1
Mixed Recoverable Metal	1.9%	2.7%	14
R/C Metal	0.0%	0.0%	0
OTHER ORGANIC	**27.4%**	**14.2%**	**210**
Food - Potentially Donatable	1.7%	2.2%	13
Food - Not Donatable	13.8%	7.9%	106
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	0.2%	0.2%	1
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	5.1%	3.2%	39
Carpet	0.0%	0.0%	0
Animal Carcasses	0.0%	0.0%	0
R/C Organic	6.7%	2.6%	51
INERTS & OTHER	**23.5%**	**15.5%**	**180**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	0.3%	0.2%	2
Clean Engineered Wood	0.5%	0.4%	4
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	6.7%	8.8%	52
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	8.5%	7.4%	66
R/C Inerts and Other	7.5%	11.2%	58
ELECTRONICS	**0.0%**	**0.0%**	**0**
E-Waste	0.0%	0.0%	0
HHW	**0.1%**	**0.1%**	**0**
Household Hazardous Waste	0.1%	0.1%	0
SPECIAL WASTE	**0.0%**	**0.0%**	**0**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	0.0%	0.0%	0
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**5.6%**	**3.4%**	**43**
Mixed Residue	5.6%	3.4%	43
Sample Count			**3**
Total Tons			**768**

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

Recoverable Paper	**16.1%**	6.3%	**124**
Other Recoverables	**9.8%**	3.3%	**76**
Compostable/Potentially Compostable	**21.2%**	12.1%	**163**
Potentially Recoverable	**21.8%**	16.2%	**168**
Problem Materials	**31.0%**	13.0%	**238**
Totals	**100.0%**		**768**

Figure 71. Composition by Recoverability Group, Unincorporated County, Self-haul

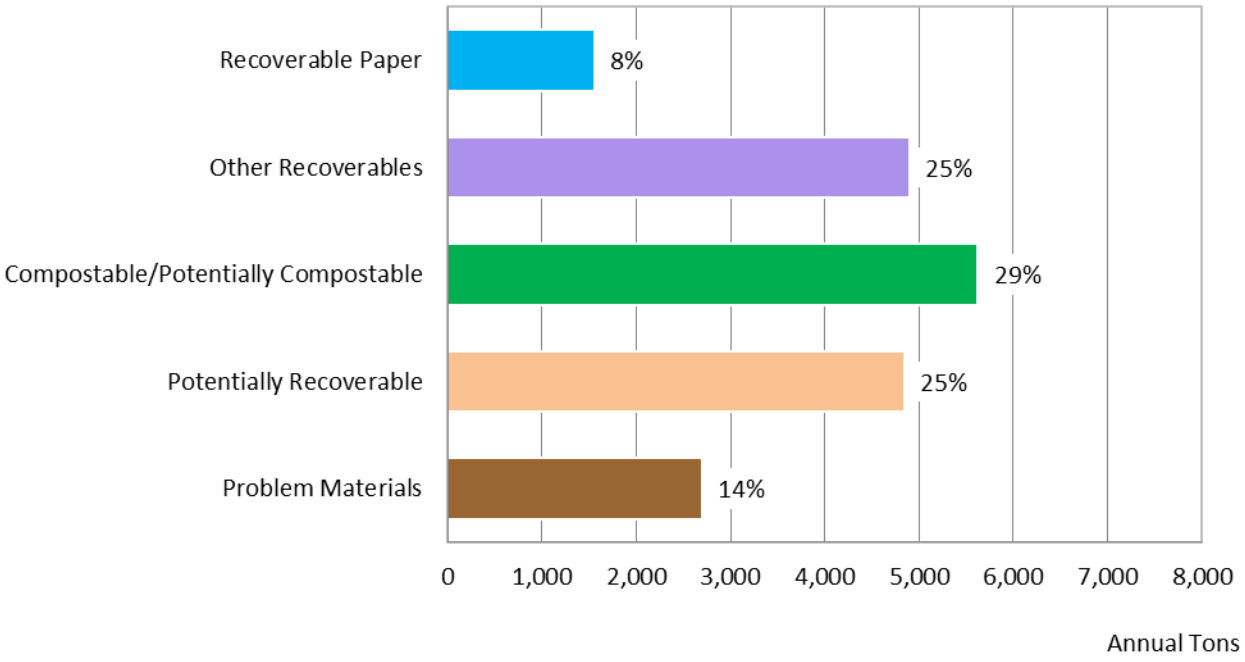


Figure 72. Composition by Material Class, Unincorporated County, Self-haul

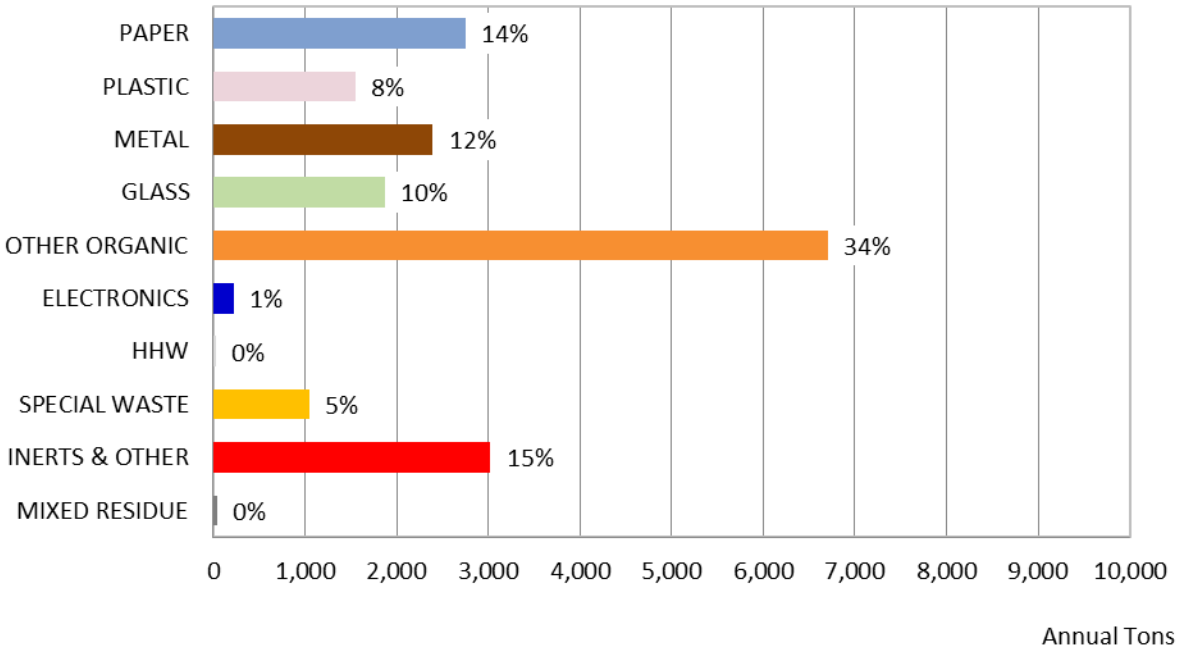


Table 67. Ten Most Prevalent Materials, Unincorporated County, Self-haul

Material	Est. Percent	Est. Tons
Food - Not Donatable	17.1%	3,361
Other Ferrous	10.6%	2,079
Clear Glass Bottles Containers	9.2%	1,810
Other Wood Waste	7.2%	1,418
Textiles - Organic	7.1%	1,391
Food - Potentially Donatable	6.6%	1,299
Other Recyclable Paper	5.5%	1,075
Bulky Items	5.4%	1,051
Clean Engineered Wood	4.5%	881
Compostable Paper	3.2%	632
Total for Top Materials	**76.4%**	**14,997**

Table 68. Detailed Material Composition, Unincorporated County, Self-haul

Material	Estimated Percent	+/-	Estimated Tons
PAPER	**14.0%**	**7.3%**	**2,751**
Uncoated Corrugated Cardboard	1.2%	1.7%	233
Waxed Corrugated Cardboard	0.0%	0.0%	0
Paper Bags	1.3%	1.0%	256
Other Recyclable Paper	5.5%	4.2%	1,075
Paper Cups - Compostable	0.0%	0.0%	2
Paper Cups - Not Compostable	0.0%	0.0%	8
Compostable Paper	3.2%	2.1%	632
R/C Paper	2.8%	2.3%	545
PLASTIC	**7.9%**	**2.9%**	**1,548**
PETE Water Bottles	0.9%	0.8%	177
Other PETE Containers	0.9%	0.6%	184
HDPE Containers	0.4%	0.5%	87
Single-Use Polystyrene Food Service Items	0.0%	0.0%	7
#3-#7 Other Containers	0.4%	0.3%	77
Compostable Plastics	0.0%	0.0%	0
Plastic Trash Bags	0.6%	0.3%	113
Plastic Grocery and Other Merchandise Bags	0.3%	0.4%	63
Non-Bag Commercial Industrial Packaging Film	0.1%	0.1%	15
Film Products	0.2%	0.2%	42
Other Film	1.4%	1.4%	270
Rigid Plastic Drip Lines	0.0%	0.0%	0
Other Recyclable Rigid Plastic	1.5%	1.8%	289
Other Non-Recyclable Rigid Plastic	0.7%	0.5%	129
R/C Plastic	0.5%	0.4%	94
GLASS	**9.5%**	**7.5%**	**1,870**
Clear Glass Bottles Containers	9.2%	7.5%	1,810
Green Glass Bottles Containers	0.1%	0.2%	28
Brown Glass Bottles Containers	0.0%	0.1%	9
Other Colored Glass Bottles Containers	0.0%	0.0%	0
Flat Glass	0.0%	0.0%	0
R/C Glass	0.1%	0.1%	23
METAL	**12.2%**	**16.7%**	**2,396**
Tin/Steel Cans	0.3%	0.4%	60
Major Appliances	0.0%	0.0%	0
Used Oil Filters	0.0%	0.0%	0
Other Ferrous	10.6%	16.9%	2,079
Aluminum Cans	0.8%	0.6%	159
Other Non-ferrous	0.1%	0.1%	20
Mixed Recoverable Metal	0.0%	0.0%	0
R/C Metal	0.4%	0.3%	78
OTHER ORGANIC	**34.2%**	**13.3%**	**6,709**
Food - Potentially Donatable	6.6%	5.0%	1,299
Food - Not Donatable	17.1%	9.9%	3,361
Leaves Grass	0.0%	0.0%	0
Prunings Trimmings	1.7%	2.1%	332
Branches Stumps	0.0%	0.0%	0
Manures	0.0%	0.0%	0
Textiles - Organic	7.1%	10.2%	1,391
Carpet	0.6%	1.0%	126
Animal Carcasses	0.0%	0.0%	0
R/C Organic	1.0%	1.5%	200
INERTS & OTHER	**15.4%**	**20.6%**	**3,025**
Concrete	0.0%	0.0%	0
Asphalt Paving	0.0%	0.0%	0
Asphalt Composition Shingles	0.0%	0.0%	0
Roofing Tar Paper/Felt	0.0%	0.0%	0
Roofing Mastic	0.0%	0.0%	0
Built-up Roofing	0.0%	0.0%	0
Other Asphalt Roofing Material	0.0%	0.0%	0
Clean Dimensional Lumbar	2.0%	2.7%	386
Clean Engineered Wood	4.5%	7.2%	881
Clean Pallets Crates	0.0%	0.0%	0
Other Wood Waste	7.2%	10.8%	1,418
Clean Gypsum Board	0.0%	0.0%	0
Painted/Demolition Gypsum Board	0.0%	0.0%	0
Rock, Soil, and Fines	0.0%	0.0%	0
Textiles - Synthetic, Mixed, Unknown	1.7%	2.4%	337
R/C Inerts and Other	0.0%	0.0%	3
ELECTRONICS	**1.1%**	**1.4%**	**222**
E-Waste	1.1%	1.4%	222
HHW	**0.1%**	**0.2%**	**22**
Household Hazardous Waste	0.1%	0.1%	22
SPECIAL WASTE	**5.4%**	**6.6%**	**1,051**
Ash	0.0%	0.0%	0
Treated Medical Waste	0.0%	0.0%	0
Mattresses	0.0%	0.0%	0
Bulky Items	5.4%	6.6%	1,051
Vehicle and Truck Tires	0.0%	0.0%	0
Other Tires	0.0%	0.0%	0
R/C Special Waste	0.0%	0.0%	0
MIXED RESIDUE	**0.2%**	**0.3%**	**43**
Mixed Residue	0.2%	0.2%	43
Sample Count			**9**
Total Tons			**19,638**

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

Recoverable Paper	**8.0%**	4.7%	**1,565**
Other Recoverables	**25.0%**	15.3%	**4,903**
Compostable/Potentially Compostable	**28.6%**	14.8%	**5,626**
Potentially Recoverable	**24.7%**	21.3%	**4,846**
Problem Materials	**13.7%**	6.7%	**2,699**
Totals	**100.0%**		**19,638**