

Regional Analysis of Recycling Rates of Consumer Packaging and Paper Products

Appendix to Washington Consumer
Packaging and Paper Study

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A top-down view of a large pile of discarded waste. The items are densely packed and include a variety of materials: clear plastic bottles, a red plastic bottle, a green plastic bottle, a yellow plastic bottle, a blue plastic bottle, a brown paper bag, an orange paper bag, a white paper bag, a silver metal can, a black metal can, a green metal can, a silver metal lid, a glass jar, and a glass bottle. The colors are vibrant and varied, creating a complex and textured scene.

1.0

Regional Analysis

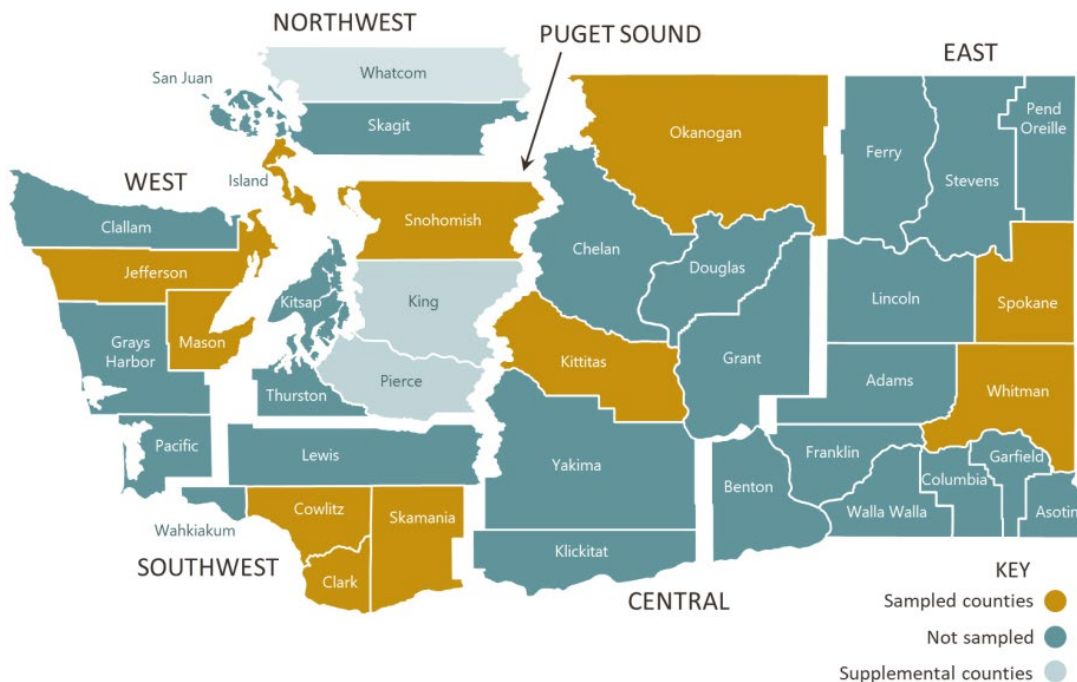
1.1 Background

This report serves as an appendix to the Washington Consumer Packaging and Paper Study: Recycling Rate Assessment and Recommendations (“the main report”). The main report is a statewide analysis of the current state of recycling of consumer packaging and paper products (CPPP). However, in Washington waste recovery data is reported by six different Waste Generation Areas (WGAs). This appendix compares the recycling and generation rates of consumer packaging and paper products on a region-by-region basis.

The six different WGAs are shown in Figure 1 and listed below:

- The Central region
- The Northwest region
- The Puget Sound region
- The East region
- The Southwest region; and,
- The West region

Figure 1: Map of Waste Generation Areas



Source: 2020-2021 Washington Statewide Waste Characterization Study.

The regions vary in population and density. Table 1 below shows the population, density, and number of households (single family (SF) and multifamily (MF)) for each WGA in Washington.

Table 1: Demographics by WGA

WGA	Population (2021)	Population Density (Population per Square Mile)	Number of Households (2018)	Number of SF Households (2019)	Numbers of MF Households (2019)
Central	593,000 (7.6%)	28	244,200	158,900	85,300
East	1,084,600 (14.0%)	55	436,700	288,800	148,000
Northwest	461,300 (5.9%)	89	228,700	157,500	71,200
Puget Sound	4,628,600 (59.6%)	620	1,878,500	1,135,600	742,900
Southwest	723,500 (9.3%)	116	277,800	194,200	83,700
West	276,100 (3.6%)	30	143,700	101,900	41,800
Total	7,767,100 (100%)		3,209,600	2,036,900	1,172,900

Source: Washington Department of Ecology, GADM data, and Washington Department of Ecology (2020), Plastic Packaging in Washington: Assessing Use, Disposal and Management.

Puget Sound accounts for more than half of the state population. Puget Sound contains the city of Seattle, a population hub in the state.

1.2 Generation

This section compares the generation of consumer packaging and paper products across WGAs. Table 2 below shows the total tons generated by material category for all sectors (i.e., residential and commercial sources) in each WGA.

Table 2: Total Generation by WGA – All Sectors in tons (2021)

Material	Central	East	Northwest	Puget Sound	Southwest	West	Total
Rigid Plastic	40,000	51,100	14,900	163,700	35,500	9,800	315,000
Flexible Plastic	33,700	32,400	10,900	116,200	30,600	8,400	232,200
Metals	15,200	16,300	7,300	61,200	11,700	4,900	116,600
Paper & Cardboard	187,500	250,000	101,500	1,128,000	157,000	43,900	1,867,900
Container Glass	23,000	19,000	10,800	114,500	7,800	2,600	177,700
All CPPP	299,300	369,000	145,400	1,583,500	242,600	69,600	2,709,400
Beverage Containers	35,500	33,700	14,500	161,700	14,600	6,900	266,900

Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

Puget Sound accounts for more than half of the consumer packaging and paper products generated in Washington. Puget Sound includes the City of Seattle and has over 4.5 million residents, while the next closest WGA in terms of population has just over 1 million residents (East region). To see generation on a normalized level, Table 3 below shows the annual generation per capita across the WGAs.

Table 3: Generation Per Capita (lbs/capita) by WGA - All Sectors (2021)

Material	Central	East	Northwest	Puget Sound	Southwest	West	Statewide
Rigid Plastic	135	94	65	71	98	71	81
Flexible Plastic	114	60	47	50	85	61	60
Metals	51	30	32	26	32	35	30
Paper & Cardboard	632	461	440	487	434	318	481
Container Glass	78	35	47	49	22	19	46
All CPPP	1,009	680	630	684	671	504	698
Beverage Containers	120	62	63	70	40	50	69

Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

In each WGA, the paper and cardboard material category accounts for the most consumer packaging and paper products generated.

The Central region has the highest per capita generation rate of just over 1000 pounds per capita annually. This is more than 300 pounds more per capita than the next closest WGA, which is the East region at 680 pounds per capita. Generation per capita is higher across all material types in the Central region than the rest of the state. This may be due to demographic factors such as median income or population shifts.

1.3 Recycling Rate

Table 4: Recycling Rate by WGA – All Sectors (2021)

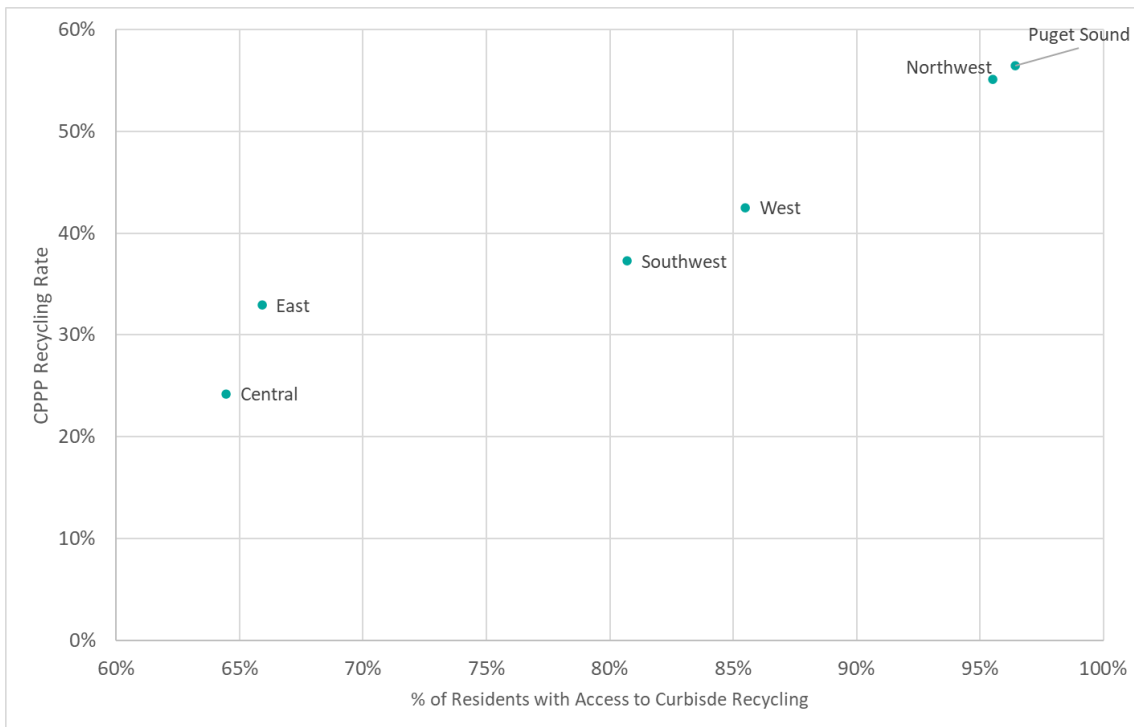
Material	Central	East	Northwest	Puget Sound	Southwest	West
Rigid Plastic	8%	9%	29%	31%	9%	28%
Flexible Plastic	3%	1%	4%	5%	1%	1%
Metals	9%	30%	55%	48%	52%	60%
Paper & Cardboard	35%	44%	64%	66%	51%	53%
Container Glass	5%	9%	57%	53%	9%	23%
All CPPP	24%	33%	55%	56%	37%	43%

Material	Central	East	Northwest	Puget Sound	Southwest	West
Beverage Containers	10%	18%	68%	59%	25%	49%

Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

Puget Sound and Northwest have the highest consumer packaging and paper products recycling rates at 56% and 55%, respectively. The other four WGAs all have recycling rates below 48%, which is the statewide consumer packaging and paper products recycling rate. The Central region has the lowest consumer packaging and paper product recycling rate at 24%. The Central region also has the lowest proportion of single-family households with access to curbside recycling at 64%. The East region has the next lowest recycling rate at 33%, and following the trend of the Central region, it has the second lowest percentage of single-family households with access curbside recycling at 66%. Figure 2 below plots the consumer packaging and paper products recycling rate versus the percent of residents (both single-family and multifamily households) which have at least the option for access to curbside recycling in each WGA.

Figure 2: All Sector CPPP Recycling Rate vs Residential Curbside Access (2021)



Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment, Washington Department of Ecology SF Recycling Access Survey.

There is no case where a WGA has a lower curbside access rate compared to other WGAs yet has a higher recycling rate than that WGA. Puget Sound has the highest level of access to curbside recycling, and it has the highest consumer packaging and paper products recycling rate.

Table 5 below shows the recycling rate by WGA for only the residential sector.

Table 5: Recycling Rate by WGA – Residential (2021)

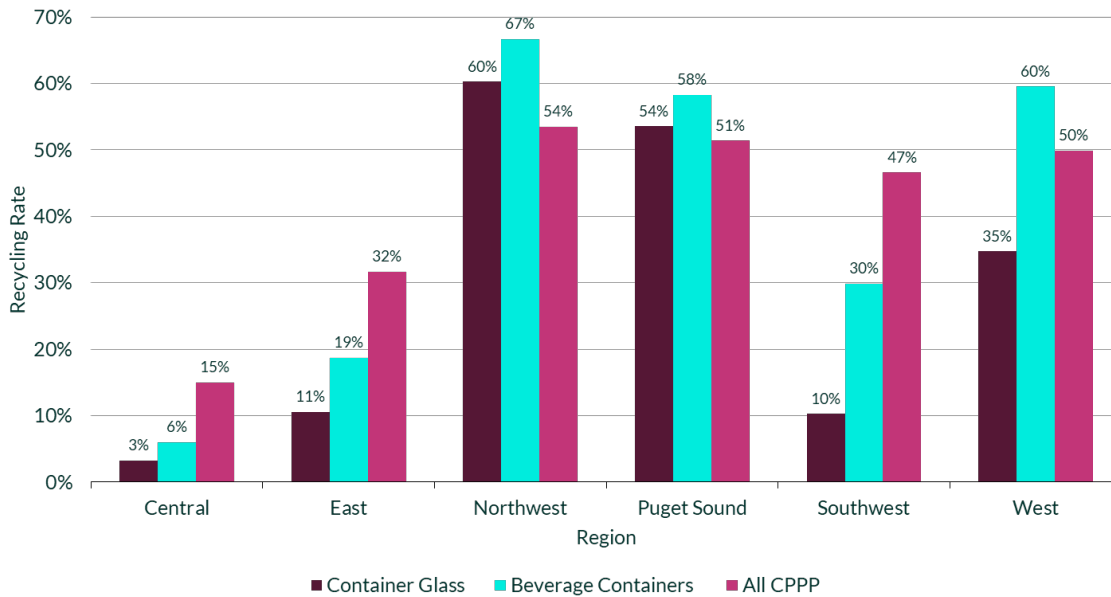
	Central	East	Northwest	Puget Sound	Southwest	West
Rigid Plastic	4%	10%	28%	27%	16%	34%
Flexible Plastic	0%	0%	6%	4%	1%	2%
Metals	8%	36%	58%	51%	61%	72%
Paper & Cardboard	26%	45%	61%	61%	61%	59%
Container Glass	3%	11%	60%	54%	10%	35%
All CPPP	15%	32%	54%	51%	47%	50%
Beverage Containers	6%	19%	67%	58%	30%	60%

Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

When looking only at the residential sector, three WGAs (the Northwest, Puget Sound, and the West regions) have a consumer packaging and paper products recycling rate above 44% which is the statewide residential consumer packaging and paper products recycling rate. The Central region has the lowest residential rate and is 29 points below 44%.

The beverage container recycling rate is inconsistent in whether it is recycled more or less often than consumer packaging and paper products as a whole. In the Central, East and Southwest regions, beverage containers are recycled at a lower rate than all packaging. These regions also have low container glass to glass recycling options, which may explain the low beverage container recycling rate. Figure 3 below shows the recycling rates of container glass, beverage containers as a whole, and all CPPP for each of the six regions.

Figure 3: Beverage Container and CPPP Recycling Rates – Residential (2021)



Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

In the figure above, the Central, East, and Southwest regions have container glass recycling rates of 11% or lower. They also have relatively low recycling rates of all beverage containers compared to the other three regions. Glass containers appear to have a strong influence on the overall recycling rate of beverage containers, as they are the heaviest beverage container per unit. Increasing the recycling rate of glass containers may have a strong effect on increasing the recycling rate of all beverage containers.

1.4 Disposal Rates

Table 6 below shows the total tons of consumer packaging and paper products disposed (i.e., landfilled or incinerated) by each WGA, along with material specific categories.

Table 6: Tons Disposed by WGA – All Sectors (2021)

Material	Central	East	Northwest	Puget Sound	Southwest	West	Statewide
Rigid Plastic	36,600	46,600	10,500	113,600	32,300	9,800	249,400
Flexible Plastic	32,700	32,100	10,400	110,900	30,400	8,400	224,900
Metals	13,800	11,500	3,300	31,900	5,500	4,900	70,900
Paper & Cardboard	121,400	139,600	36,400	380,000	76,700	43,900	798,000
Container Glass	22,000	17,300	4,600	53,400	7,000	2,600	106,900
All CPPP	226,800	247,400	65,200	690,600	151,900	69,600	1,451,500

Material	Central	East	Northwest	Puget Sound	Southwest	West	Statewide
Beverage Containers	31,800	27,800	4,600	66,300	11,000	6,900	148,400

Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

Paper and cardboard is the most disposed category in each WGA. To compare the disposal quantities on a normalized basis, Table 7 below shows the pounds per capita disposed across the WGAs.

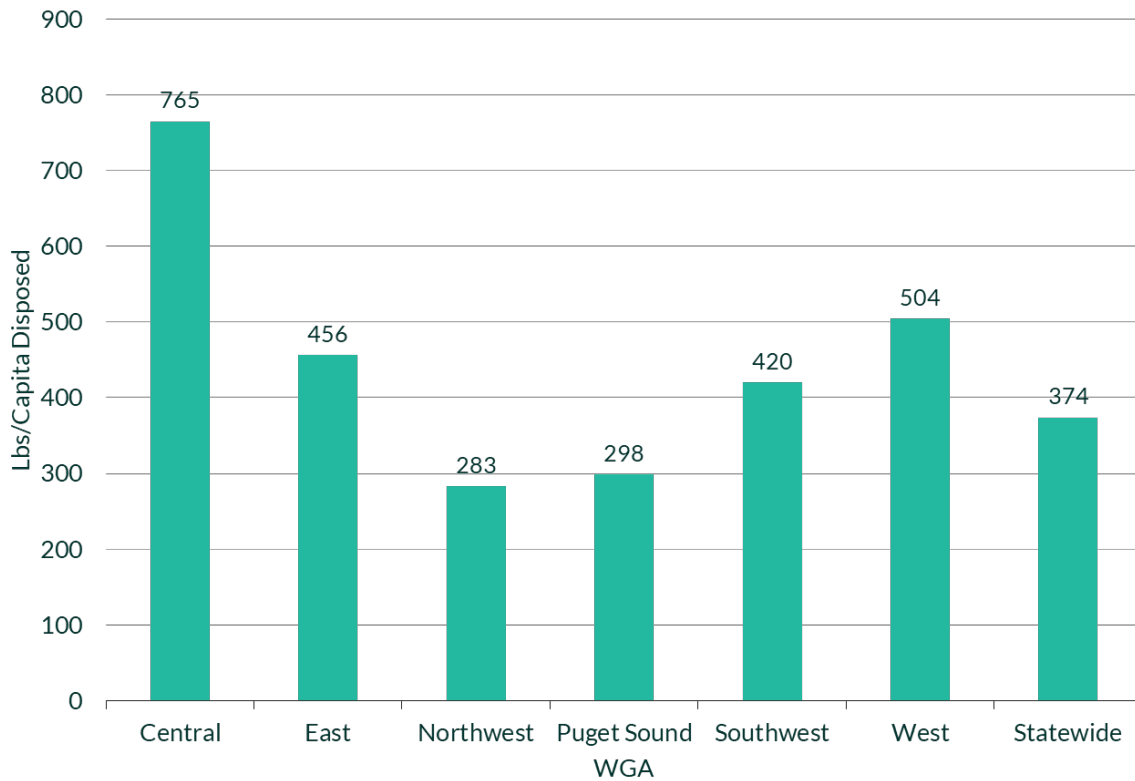
Table 7: Lbs/capita Disposed by WGA – All Sectors (2021)

Material	Central	East	Northwest	Puget Sound	Southwest	West	Statewide
Rigid Plastic	123	86	46	49	89	71	64
Flexible Plastic	110	59	45	48	84	61	58
Metals	47	21	14	14	15	35	18
Paper & Cardboard	409	257	158	164	212	318	205
Container Glass	74	32	20	23	19	19	28
All CPPP	765	456	283	298	420	504	374
Beverage Containers	107	51	20	29	30	50	38

Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

The central region has the highest generation per capita, as well as the lowest recycling rates. This results in the Central region having the highest disposal per capita as well at 765 pounds per capita disposed. Figure 4 below charts the overall consumer packaging and paper products disposed per capita by WGA and compares it to the statewide average.

Figure 4: CPPP Lbs/Capita Disposed by WGA – All Sectors (2021)



Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

The Central, East, Southwest, and West regions all dispose consumer packaging and paper products at a higher rate than the state as a whole. Potential reasons for this may be due to limited access to curbside recycling in more rural areas, as the Northwest and Puget Sound each have near universal curbside access. Additionally, the statewide total is skewed towards the Puget Sound region as it accounts for over half of the state’s population.

Table 8 depicts the impact of population size as Puget Sound accounts for 48% of the total tonnage disposed in the state of Washington, and the next most populous WGA (the East) accounts for the second highest total at 17%.

Table 8: WGA Share of Total CPPP Disposed – All Sectors (2021)

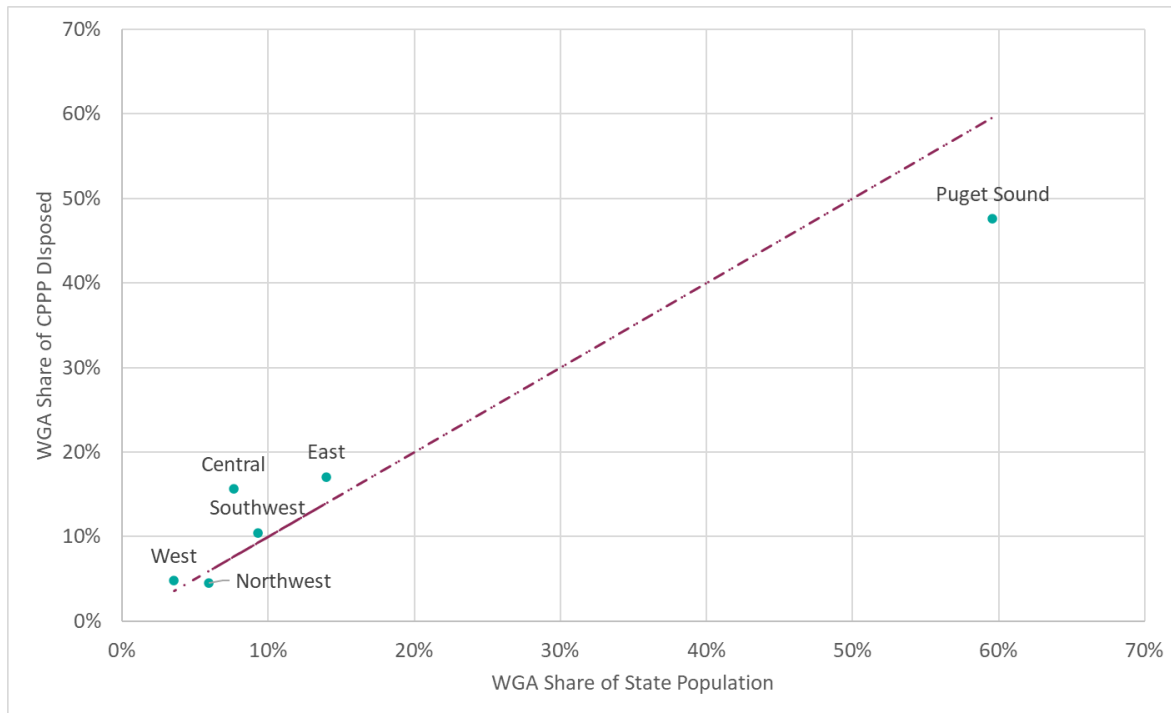
	Central	East	Northwest	Puget Sound	Southwest	West
All CPPP Disposed	16%	17%	4%	48%	10%	5%

Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

However, as seen in Figure 4, Puget Sound has the second lowest disposal rate per capita. To achieve more of a concrete analysis of where excess material consumer packaging and paper products might be

disposed, the disposal share of each WGA is compared to its population share. Figure 5 below plots the percent of total consumer packaging and paper products disposed by each WGA versus that WGA's percentage of total state population. The purple 45-degree line shows where a region would fall if its percent of tonnage disposed was equal to its percent of the state population. Therefore, WGAs which are below the line dispose less than their population share might suggest. Likewise, those above the line disposed more than their share of the population.

Figure 5: CPPP Disposal Share vs Population Share (2021)



Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment

The Puget Sound and Northwest regions are both below the purple line in Figure 5, signifying their percentage of tonnage disposed is less than their percentage of the population. Conversely, the West, Southwest, Central, and East regions are all above the line, meaning their disposal share is greater than their population share. The Central region has the largest difference between population and disposal shares, as it has a disposal share that is 8 percentage points higher than its population share.

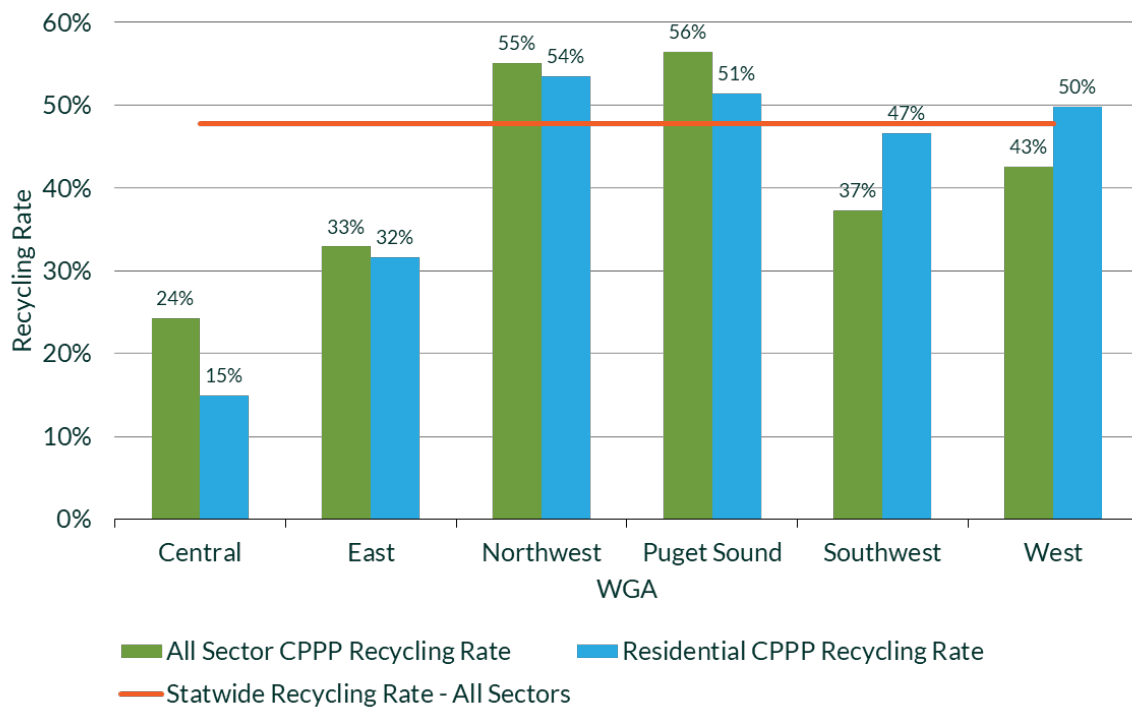
1.5 Conclusion

Waste Generation Areas (WGAs) that have greater access to curbside recycling, and higher recycling rates appear to dispose less consumer packaging and paper products per person than WGAs with lower curbside recycling access, lower access to recycled material end users, and low recycling rates. Puget sound has a secondary glass processor as well as a glass container manufacturer around the Seattle area. There is also a secondary glass processor in Portland, Oregon, and a glass container manufacturer in Kalama, Washington in the Southwest of the state. These glass recycling and manufacturing locations may help to explain with

the Northwest, Puget Sound, Southwest and West regions have higher recycling rates than the Central and East regions, which do not have glass recycling outlets and must transport across the Cascade Mountain range to reach Seattle and Kalama. Although Puget Sound has the second highest generation per capita, it has the second lowest disposal rate per capita. The Northwest has the second lowest generation per capita and the lowest disposal rate per capita.

Two WGAs have a recycling rate for all sectors above the statewide recycling rate for all sectors of 48% (Northwest and Puget Sound), while three WGAs have a recycling rate for the residential sector above the statewide recycling rate for all sectors (Northwest, Puget Sound and West). Figure 6 below shows the residential recycling rate and all sector recycling rate for each WGA. The figure also displays the statewide average recycling rate for all sectors.

Figure 6: All Sector and Residential CPPP Recycling Rates vs Statewide Average



Sources: Eunomia Modelling, 2021 Ecology Washington Recycling and Recovery Data, 2020-2021 Washington Statewide Waste Characterization Study, 2020 King County Material Recovery Assessment



2.0

Regional Detailed Tables

This section includes tables showing the material flows and recycling rates for consumer packaging and paper products for the Central, East, Northwest, Puget Sound, Southwest, and West regions. For each WGA, the material flows and recycling rates are included for the following subsections:

- All Sectors: Material flows and recycling rates for consumer packaging and paper products from all sectors (including both residential and commercial sources)
- Residential: Material flows and recycling rates for consumer packaging and paper products from residential sources
- Commercial: Material flows and recycling rates for consumer packaging and paper products from commercial sources

Each subsection includes a table that provides material flows and recycling rates for seven main material categories (rigid plastic, flexible plastic, metals, paper & cardboard, container glass, all CPPP, and beverage containers) and then a table with thirty-six detailed categories of consumer packaging and paper products.

The primary sources of data that were used to estimate the findings presented in the tables below included: 2020-2021 Washington Statewide Waste Characterization Study,¹ 2021 Ecology Statewide Disposal Totals,² the 2021 Ecology Recycling Recovery Data,³ 2020-2021 King County Material Recovery Assessment,⁴ and the Responsible Recycling Task Force 2021 Report, Improving Recycling in Washington through Producer Responsibility Policy: Costs and Benefits - Responsible Recycling Task Force - King County Solid Waste Division.⁵

2.1 Central Region

2.1.1 All Sectors

Table 9: Summary of Commercial and Residential Material Flows in tons and Recycling Rates in the Central Region (2021)

Central – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	35,100	1,470	36,600	3,380	40,000	8%
Flexible Plastic	31,400	1,250	32,700	1,047	33,700	3%
Metals	13,300	578	13,800	1,360	15,200	9%
Paper & Cardboard	116,900	4,530	121,400	65,600	187,500	35%
Container Glass	21,500	498	22,000	1,090	23,000	5%
All CPPP	218,500	8,330	226,800	72,530	299,300	24%
Beverage Containers	30,700	1,090	31,800	3,700	35,500	10%

¹ Washington State Department of Ecology (2021) 2020-2021 Washington Statewide Waste Characterization Study.

² Data provided by Department of Ecology.

³ Ibid.

⁴ King County Solid Waste Division (2020) [Materials Recovery Facility Assessment: Recyclables Characterization](#).

⁵ Northwest Product Stewardship Council (2021) [Improving Recycling in Washington through Producer Responsibility Policy: Costs and Benefits - Responsible Recycling Task Force - King County Solid Waste Division](#)

Table 10: Detailed Commercial and Residential Material Flows in tons and Recycling Rates in the Central Region (2021)

Central – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	35,100	1,470	36,600	3,380	40,000	8%
#1 PET Bottles	7,900	453	8,300	1,320	9,600	14%
<i>#1 PET Beverage Containers</i>	6,100	407	6,500	1,180	7,600	16%
#1 PET Other Packaging	3,500	83	3,600	308	3,900	8%
#2 HDPE Natural Bottles	2,270	67	2,330	870	3,200	27%
#2 HDPE Natural Beverage Containers	1,830	52	1,880	690	2,600	27%
#2 HDPE Colored Bottles	2,900	83	3,000	510	3,400	15%
#2 HDPE Colored Beverage Containers	280	9	290	55	340	16%
#2 HDPE Other Packaging	3,680	17	3,680	78	3,820	2%
#3 PVC Packaging	10	0	10	0	10	0%
#4 LDPE Packaging	11	0	11	0	11	0%
#5 PP Packaging	5,700	702	6,400	238	6,700	4%
#6 PS Packaging	880	0	880	0	880	0%
#7 Other Packaging	3,960	0	3,960	0	3,960	0%
Expanded Polystyrene Packaging	4,400	67	4,400	32	4,500	1%
R/C Plastic Packaging	26	0	26	0	26	0%
PLA/Compostable Packaging	118	0	118	0	118	0%
Total Flexible Plastics	31,400	1,250	32,700	1,047	33,700	3%
PE Plastic Bags & Film	16,600	600	17,300	910	18,200	5%
Other Plastic Film & Flexible Packaging	14,700	702	15,500	157	15,700	1%
Total Metals	13,300	578	13,800	1,360	15,200	9%
Steel Cans	6,900	114	7,000	410	7,400	6%
Aluminum Cans	4,400	169	4,600	790	5,300	15%
Aluminum Beverage Containers	3,900	159	4,100	760	4,900	16%
Other Nonferrous Metal	1,980	295	2,300	173	2,500	7%
Total Paper & Card	116,900	4,530	121,400	65,600	187,500	35%

Central – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Newspaper	1,920	83	1,990	1,840	3,800	48%
Cardboard	46,000	770	46,700	53,600	100,300	53%
Mixed Paper Products	40,100	2,490	42,600	8,100	50,600	16%
Cartons	6,500	0	6,500	4	6,500	0%
Carton Beverage Containers	2,850	0	2,850	2	2,850	0%
Paper Packaging	22,500	1,240	23,700	2,120	25,900	8%
Container Glass	21,500	498	22,000	1,090	23,000	5%
Container Glass Beverage Containers	15,800	464	16,300	1,000	17,200	6%
Total CPPP	218,500	8,330	226,800	72,530	299,300	24%
Total Beverage Containers	30,700	1,090	31,800	3,700	35,500	10%

2.1.2 Residential Rates

Table 11: Summary of Residential Material Flows in tons and Recycling Rates in the Central Region (2021)

Central - Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	21,000	170	21,200	980	22,200	4%
Flexible Plastic	17,100	150	17,300	47	17,300	0%
Metals	8,900	68	8,900	730	9,700	8%
Paper & Cardboard	50,900	530	51,400	18,100	69,500	26%
Container Glass	17,800	58	17,900	590	18,400	3%
All CPPP	116,000	980	117,000	20,500	137,000	15%
Beverage Containers	22,100	130	22,200	1,400	23,600	6%

Table 12: Detailed Residential Material Flows in tons and Recycling Rates in the Central Region (2021)

Central - Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	21,000	170	21,200	980	22,200	4%
#1 PET Bottles	5,200	53	5,200	460	5,700	8%
<i>#1 PET Beverage Containers</i>	4,100	47	4,100	410	4,500	9%
#1 PET Other Packaging	2,400	10	2,400	98	2,500	4%
#2 HDPE Natural Bottles	1,500	8	1,500	130	1,600	8%
<i>#2 HDPE Natural Beverage Containers</i>	1,200	6	1,200	110	1,300	8%
#2 HDPE Colored Bottles	1,800	10	1,800	140	1,900	7%
<i>#2 HDPE Colored Beverage Containers</i>	180	1	180	15	190	8%
#2 HDPE Other Packaging	580	2	580	42	620	7%
#3 PVC Packaging	6	0	6	0	6	0%
#4 LDPE Packaging	8	0	8	0	8	0%
#5 PP Packaging	3,900	82	4,000	98	4,100	2%
#6 PS Packaging	520	0	520	0	520	0%
#7 Other Packaging	3,100	0	3,100	0	3,100	0%
Expanded Polystyrene Packaging	2,100	8	2,100	6	2,100	0%
R/C Plastic Packaging	26	0	26	0	26	0%
PLA/Compostable Packaging	42	0	42	0	42	0%
Total Flexible Plastics	17,100	150	17,300	47	17,300	0%
PE Plastic Bags & Film	6,400	70	6,500	20	6,500	0%
Other Plastic Film & Flexible Packaging	10,700	82	10,800	27	10,900	0%
Total Metals	8,900	68	8,900	730	9,700	8%
Steel Cans	4,700	14	4,700	250	5,000	5%
Aluminum Cans	3,200	19	3,200	320	3,500	9%
<i>Aluminum Beverage Containers</i>	2,800	19	2,900	310	3,200	10%
Other Nonferrous Metal	980	35	1,000	170	1,200	14%
Total Paper & Card	50,900	530	51,400	18,100	69,500	26%
Newspaper	1,500	10	1,500	930	2,400	39%

Central - Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	14,700	90	14,800	11,600	26,300	44%
Mixed Paper Products	19,500	290	19,800	4,100	23,900	17%
Cartons	1,300	0	1,300	0	1,300	0%
<i>Carton Beverage Containers</i>	550	0	550	0	550	0%
Paper Packaging	14,000	140	14,100	1,500	15,700	10%
Container Glass	17,800	58	17,900	590	18,400	3%
<i>Container Glass Beverage Containers</i>	13,200	54	13,300	540	13,800	4%
Total CPPP	116,000	980	117,000	20,500	137,000	15%
Total Beverage Containers	22,100	130	22,200	1,400	23,600	6%

2.1.3 Commercial Rates

Table 13: Summary of Commercial Material Flows in tons and Recycling Rates in the Central Region (2021)

Central - Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	14,100	1,300	15,400	2,400	17,800	13%
Flexible Plastic	14,300	1,100	15,400	1,000	16,400	6%
Metals	4,400	510	4,900	630	5,500	11%
Paper & Cardboard	66,000	4,000	70,000	47,500	118,000	40%
Container Glass	3,700	440	4,100	500	4,600	11%
All CPPP	102,500	7,350	109,800	52,030	162,300	32%
Beverage Containers	8,600	960	9,600	2,300	11,900	19%

Table 14: Detailed Commercial Material Flows in tons and Recycling Rates in the Central Region (2021)

Central - Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	14,100	1,300	15,400	2,400	17,800	13%
#1 PET Bottles	2,700	400	3,100	860	3,900	22%
#1 PET Beverage Containers	2,000	360	2,400	770	3,100	25%
#1 PET Other Packaging	1,100	73	1,200	210	1,400	15%
#2 HDPE Natural Bottles	770	59	830	740	1,600	46%
#2 HDPE Natural Beverage Containers	630	46	680	580	1,300	45%
#2 HDPE Colored Bottles	1,100	73	1,200	370	1,500	25%
#2 HDPE Colored Beverage Containers	100	8	110	40	150	27%
#2 HDPE Other Packaging	3,100	15	3,100	36	3,200	1%
#3 PVC Packaging	4	0	4	0	4	0%
#4 LDPE Packaging	3	0	3	0	3	0%
#5 PP Packaging	1,800	620	2,400	140	2,600	5%
#6 PS Packaging	360	0	360	0	360	0%
#7 Other Packaging	860	0	860	0	860	0%
Expanded Polystyrene Packaging	2,300	59	2,300	26	2,400	1%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	76	0	76	0	76	0%
Total Flexible Plastics	14,300	1,100	15,400	1,000	16,400	6%
PE Plastic Bags & Film	10,200	530	10,800	890	11,700	8%
Other Plastic Film & Flexible Packaging	4,000	620	4,700	130	4,800	3%
Total Metals	4,400	510	4,900	630	5,500	11%
Steel Cans	2,200	100	2,300	160	2,400	7%
Aluminum Cans	1,200	150	1,400	470	1,800	26%
Aluminum Beverage Containers	1,100	140	1,200	450	1,700	26%
Other Nonferrous Metal	1,000	260	1,300	3	1,300	0%
Total Paper & Card	66,000	4,000	70,000	47,500	118,000	40%
Newspaper	420	73	490	910	1,400	65%

Central - Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	31,300	680	31,900	42,000	74,000	57%
Mixed Paper Products	20,600	2,200	22,800	4,000	26,700	15%
Cartons	5,200	0	5,200	4	5,200	0%
Carton Beverage Containers	2,300	0	2,300	2	2,300	0%
Paper Packaging	8,500	1,100	9,600	620	10,200	6%
Container Glass	3,700	440	4,100	500	4,600	11%
Container Glass Beverage Containers	2,600	410	3,000	460	3,400	14%
Total CPPP	102,500	7,350	109,800	52,030	162,300	32%
Total Beverage Containers	8,600	960	9,600	2,300	11,900	19%

2.2 East Region

2.2.1 All Sectors

Table 15: Summary of Commercial and Residential Material Flows in tons and Recycling Rates in the East Region (2021)

East – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	46,100	520	46,600	4,500	51,100	9%
Flexible Plastic	31,700	470	32,100	200	32,400	1%
Metals	11,300	207	11,500	4,810	16,300	30%
Paper & Cardboard	138,000	1,570	139,600	110,400	250,000	44%
Container Glass	17,200	181	17,300	1,630	19,000	9%
All CPPP	243,800	2,988	247,400	121,460	369,000	33%
Beverage Containers	27,400	388	27,800	6,000	33,700	18%

Table 16: Detailed Commercial and Residential Material Flows in tons and Recycling Rates in the East Region (2021)

East – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	46,100	520	46,600	4,500	51,100	9%
#1 PET Bottles	9,100	156	9,300	2,190	11,400	19%
#1 PET Beverage Containers	7,100	143	7,200	1,900	9,100	21%
#1 PET Other Packaging	3,770	30	3,780	480	4,300	11%
#2 HDPE Natural Bottles	2,310	23	2,310	760	3,000	25%
#2 HDPE Natural Beverage Containers	1,770	18	1,870	600	2,470	24%
#2 HDPE Colored Bottles	2,470	30	2,480	560	3,000	19%
#2 HDPE Colored Beverage Containers	235	3	246	61	300	20%
#2 HDPE Other Packaging	3,400	6	3,400	154	3,500	4%
#3 PVC Packaging	32	0	32	0	32	0%
#4 LDPE Packaging	0	0	0	0	0	0%
#5 PP Packaging	8,900	247	9,200	420	9,600	4%
#6 PS Packaging	1,320	0	1,320	0	1,320	0%
#7 Other Packaging	8,600	0	8,600	0	8,600	0%
Expanded Polystyrene Packaging	6,100	23	6,100	13	6,100	0%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	280	0	280	0	280	0%
Total Flexible Plastics	31,700	470	32,100	200	32,400	1%
PE Plastic Bags & Film	14,400	209	14,700	139	14,800	1%
Other Plastic Film & Flexible Packaging	17,200	247	17,500	61	17,500	0%
Total Metals	11,300	207	11,500	4,810	16,300	30%
Steel Cans	5,000	41	5,000	1,080	6,100	18%
Aluminum Cans	4,500	60	4,500	1,820	6,300	29%
Aluminum Beverage Containers	3,900	57	4,000	1,810	5,800	31%
Other Nonferrous Metal	1,760	106	1,880	1,806	3,690	49%
Total Paper & Card	138,000	1,570	139,600	110,400	250,000	44%
Newspaper	3,300	30	3,300	6,600	9,900	67%

East – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	54,900	272	55,100	81,000	136,100	60%
Mixed Paper Products	39,000	880	39,900	17,400	57,100	30%
Cartons	4,100	0	4,100	27	4,100	1%
Carton Beverage Containers	1,810	0	1,810	12	1,810	1%
Paper Packaging	36,800	428	37,200	5,400	42,500	13%
Container Glass	17,200	181	17,300	1,630	19,000	9%
Container Glass Beverage Containers	12,600	167	12,700	1,510	14,300	11%
Total CPPP	243,800	2,988	247,400	121,460	369,000	33%
Total Beverage Containers	27,400	388	27,800	6,000	33,700	18%

2.2.2 Residential Rates

Table 17: Summary of Residential Material Flows in tons and Recycling Rates in the East Region (2021)

East - Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	23,900	400	24,300	2,700	27,000	10%
Flexible Plastic	18,000	360	18,300	80	18,400	0%
Metals	7,700	160	7,900	4,300	12,100	36%
Paper & Cardboard	55,200	1,200	56,400	46,600	103,000	45%
Container Glass	11,700	140	11,800	1,400	13,300	11%
All CPPP	116,000	2,300	119,000	55,000	174,000	32%
Beverage Containers	18,400	300	18,700	4,300	23,000	19%

Table 18: Detailed Residential Material Flows in tons and Recycling Rates in the East Region (2021)

East - Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	23,900	400	24,300	2,700	27,000	10%
#1 PET Bottles	6,600	120	6,800	1,300	8,000	16%
<i>#1 PET Beverage Containers</i>	5,200	110	5,300	1,100	6,400	17%
#1 PET Other Packaging	2,800	23	2,800	280	3,100	9%
#2 HDPE Natural Bottles	1,600	18	1,600	380	1,900	20%
<i>#2 HDPE Natural Beverage Containers</i>	1,200	14	1,300	300	1,600	19%
#2 HDPE Colored Bottles	1,500	23	1,500	390	1,900	21%
<i>#2 HDPE Colored Beverage Containers</i>	140	2	150	42	190	22%
#2 HDPE Other Packaging	1,400	5	1,400	120	1,500	8%
#3 PVC Packaging	4	0	4	0	4	0%
#4 LDPE Packaging	0	0	0	0	0	0%
#5 PP Packaging	4,700	190	4,900	280	5,200	5%
#6 PS Packaging	750	0	750	0	750	0%
#7 Other Packaging	2,000	0	2,000	0	2,000	0%
Expanded Polystyrene Packaging	2,500	18	2,500	11	2,500	0%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	180	0	180	0	180	0%
Total Flexible Plastics	18,000	360	18,300	80	18,400	0%
PE Plastic Bags & Film	7,500	160	7,700	29	7,700	0%
Other Plastic Film & Flexible Packaging	10,400	190	10,600	52	10,600	0%
Total Metals	7,700	160	7,900	4,300	12,100	36%
Steel Cans	3,300	32	3,300	900	4,200	21%
Aluminum Cans	3,100	46	3,100	1,500	4,600	33%
<i>Aluminum Beverage Containers</i>	2,700	44	2,700	1,500	4,200	36%
Other Nonferrous Metal	1,300	82	1,400	1,800	3,200	56%
Total Paper & Card	55,200	1,200	56,400	46,600	103,000	45%
Newspaper	2,000	23	2,000	3,300	5,300	62%

East - Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	20,000	210	20,200	28,700	48,900	59%
Mixed Paper Products	15,000	680	15,700	11,100	26,700	42%
Cartons	1,600	0	1,600	3	1,600	0%
<i>Carton Beverage Containers</i>	710	0	710	1	710	0%
Paper Packaging	16,600	330	16,900	3,500	20,400	17%
Container Glass	11,700	140	11,800	1,400	13,300	11%
<i>Container Glass Beverage Containers</i>	8,500	130	8,600	1,300	10,000	13%
Total CPPP	116,000	2,300	119,000	55,000	174,000	32%
Total Beverage Containers	18,400	300	18,700	4,300	23,000	19%

2.2.3 Commercial Rates

Table 19: Summary of Commercial Material Flows in tons and Recycling Rates in the East Region (2021)

East - Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	22,200	120	22,300	1,800	24,100	7%
Flexible Plastic	13,700	110	13,800	120	14,000	1%
Metals	3,600	47	3,600	510	4,200	12%
Paper & Cardboard	82,800	370	83,200	63,800	147,000	43%
Container Glass	5,500	41	5,500	230	5,700	4%
All CPPP	127,800	688	128,400	66,460	195,000	34%
Beverage Containers	9,000	88	9,100	1,700	10,700	16%

Table 20: Detailed Commercial Material Flows in tons and Recycling Rates in the East Region (2021)

East - Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	22,200	120	22,300	1,800	24,100	7%
#1 PET Bottles	2,500	36	2,500	890	3,400	26%
#1 PET Beverage Containers	1,900	33	1,900	800	2,700	30%
#1 PET Other Packaging	970	7	980	200	1,200	17%
#2 HDPE Natural Bottles	710	5	710	380	1,100	35%
#2 HDPE Natural Beverage Containers	570	4	570	300	870	34%
#2 HDPE Colored Bottles	970	7	980	170	1,100	15%
#2 HDPE Colored Beverage Containers	95	1	96	19	110	17%
#2 HDPE Other Packaging	2,000	1	2,000	34	2,000	2%
#3 PVC Packaging	28	0	28	0	28	0%
#4 LDPE Packaging	0	0	0	0	0	0%
#5 PP Packaging	4,200	57	4,300	140	4,400	3%
#6 PS Packaging	570	0	570	0	570	0%
#7 Other Packaging	6,600	0	6,600	0	6,600	0%
Expanded Polystyrene Packaging	3,600	5	3,600	2	3,600	0%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	100	0	100	0	100	0%
Total Flexible Plastics	13,700	110	13,800	120	14,000	1%
PE Plastic Bags & Film	6,900	49	7,000	110	7,100	2%
Other Plastic Film & Flexible Packaging	6,800	57	6,900	9	6,900	0%
Total Metals	3,600	47	3,600	510	4,200	12%
Steel Cans	1,700	9	1,700	180	1,900	9%
Aluminum Cans	1,400	14	1,400	320	1,700	19%
Aluminum Beverage Containers	1,200	13	1,300	310	1,600	19%
Other Nonferrous Metal	460	24	480	6	490	1%
Total Paper & Card	82,800	370	83,200	63,800	147,000	43%
Newspaper	1,300	7	1,300	3,300	4,600	72%

East - Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	34,900	62	34,900	52,300	87,200	60%
Mixed Paper Products	24,000	200	24,200	6,300	30,400	21%
Cartons	2,500	0	2,500	24	2,500	1%
Carton Beverage Containers	1,100	0	1,100	11	1,100	1%
Paper Packaging	20,200	98	20,300	1,900	22,100	9%
Container Glass	5,500	41	5,500	230	5,700	4%
Container Glass Beverage Containers	4,100	37	4,100	210	4,300	5%
Total CPPP	127,800	688	128,400	66,460	195,000	34%
Total Beverage Containers	9,000	88	9,100	1,700	10,700	16%

2.3 Northwest Region

2.3.1 All Sectors

Table 21: Summary of Residential and Commercial Material Flows in tons and Recycling Rates in the Northwest Region (2021)

Northwest – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	10,300	155	10,500	4,300	14,900	29%
Flexible Plastic	10,300	134	10,400	430	10,900	4%
Metals	3,200	61	3,300	4,000	7,300	55%
Paper & Cardboard	36,000	475	36,400	65,200	101,500	64%
Container Glass	4,600	53	4,600	6,200	10,800	57%
All CPPP	64,400	878	65,200	80,080	145,400	55%
Beverage Containers	4,500	114	4,600	9,900	14,500	68%

Table 22: Detailed Residential and Commercial Material Flows in tons and Recycling Rates in the Northwest Region (2021)

Northwest – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	10,300	155	10,500	4,300	14,900	29%
#1 PET Bottles	1,260	48	1,310	2,050	3,400	60%
#1 PET Beverage Containers	800	42	840	1,840	2,700	68%
#1 PET Other Packaging	1,340	8	1,340	470	1,770	27%
#2 HDPE Natural Bottles	460	7	460	770	1,240	62%
#2 HDPE Natural Beverage Containers	380	5	380	600	990	61%
#2 HDPE Colored Bottles	660	8	670	500	1,170	43%
#2 HDPE Colored Beverage Containers	61	1	62	55	117	47%
#2 HDPE Other Packaging	1,510	2	1,520	132	1,600	8%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	1	0	1	0	1	0%
#5 PP Packaging	2,220	73	2,320	380	2,700	14%
#6 PS Packaging	460	0	460	8	470	2%
#7 Other Packaging	1,380	0	1,380	0	1,380	0%
Expanded Polystyrene Packaging	1,060	7	1,060	30	1,090	3%
R/C Plastic Packaging	13	0	13	0	13	0%
PLA/Compostable Packaging	5	0	5	0	5	0%
Total Flexible Plastics	10,300	134	10,400	430	10,900	4%
PE Plastic Bags & Film	3,500	63	3,600	310	3,800	8%
Other Plastic Film & Flexible Packaging	6,800	73	6,800	134	7,000	2%
Total Metals	3,200	61	3,300	4,000	7,300	55%
Steel Cans	1,740	12	1,750	880	2,700	33%
Aluminum Cans	930	18	950	1,720	2,600	66%
Aluminum Beverage Containers	730	17	750	1,600	2,400	67%
Other Nonferrous Metal	610	31	640	1,315	2,010	65%
Total Paper & Card	36,000	475	36,400	65,200	101,500	64%
Newspaper	610	8	620	1,860	2,500	74%

Northwest – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	15,000	81	15,100	45,500	60,600	75%
Mixed Paper Products	12,500	258	12,800	13,300	26,100	51%
Cartons	510	0	510	0	510	0%
Carton Beverage Containers	220	0	220	0	220	0%
Paper Packaging	7,200	124	7,400	4,400	11,800	37%
Container Glass	4,600	53	4,600	6,200	10,800	57%
Container Glass Beverage Containers	2,330	49	2,330	5,700	8,000	71%
Total CPPP	64,400	878	65,200	80,080	145,400	55%
Total Beverage Containers	4,500	114	4,600	9,900	14,500	68%

2.3.2 Residential Rates

Table 23: Summary of Residential Material Flows in tons and Recycling Rates in the Northwest Region (2021)

Northwest – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	4,900	150	5,100	2,000	7,100	28%
Flexible Plastic	3,500	130	3,600	250	3,900	6%
Metals	1,700	59	1,800	2,500	4,300	58%
Paper & Cardboard	14,300	460	14,700	23,300	38,000	61%
Container Glass	3,100	51	3,100	4,700	7,800	60%
All CPPP	27,500	850	28,300	32,700	61,100	54%
Beverage Containers	2,900	110	3,000	6,000	9,000	67%

Table 24: Detailed Residential Material Flows in tons and Recycling Rates in the Northwest Region (2021)

Northwest – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	4,900	150	5,100	2,000	7,100	28%
#1 PET Bottles	710	46	760	950	1,700	56%
<i>#1 PET Beverage Containers</i>	470	41	510	850	1,400	61%
#1 PET Other Packaging	460	8	460	200	670	30%
#2 HDPE Natural Bottles	300	7	300	260	560	46%
<i>#2 HDPE Natural Beverage Containers</i>	240	5	240	200	450	44%
#2 HDPE Colored Bottles	540	8	550	260	810	32%
<i>#2 HDPE Colored Beverage Containers</i>	51	1	52	29	81	36%
#2 HDPE Other Packaging	110	2	120	87	200	44%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	0	0	0	0	0	0%
#5 PP Packaging	1,400	71	1,500	200	1,700	12%
#6 PS Packaging	220	0	220	4	220	2%
#7 Other Packaging	420	0	420	0	420	0%
Expanded Polystyrene Packaging	710	7	710	29	740	4%
R/C Plastic Packaging	13	0	13	0	13	0%
PLA/Compostable Packaging	2	0	2	0	2	0%
Total Flexible Plastics	3,500	130	3,600	250	3,900	6%
PE Plastic Bags & Film	1,200	61	1,300	130	1,400	9%
Other Plastic Film & Flexible Packaging	2,300	71	2,300	130	2,500	5%
Total Metals	1,700	59	1,800	2,500	4,300	58%
Steel Cans	830	12	840	530	1,400	38%
Aluminum Cans	610	17	630	620	1,200	52%
<i>Aluminum Beverage Containers</i>	510	16	530	600	1,100	55%
Other Nonferrous Metal	310	30	340	1,300	1,700	76%
Total Paper & Card	14,300	460	14,700	23,300	38,000	61%
Newspaper	280	8	290	1,300	1,600	81%

Northwest – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	4,500	78	4,600	12,600	17,200	73%
Mixed Paper Products	6,800	250	7,100	7,400	14,500	51%
Cartons	270	0	270	0	270	0%
<i>Carton Beverage Containers</i>	120	0	120	0	120	0%
Paper Packaging	2,300	120	2,500	1,900	4,400	43%
Container Glass	3,100	51	3,100	4,700	7,800	60%
<i>Container Glass Beverage Containers</i>	1,500	47	1,500	4,300	5,800	74%
Total CPPP	27,500	850	28,300	32,700	61,100	54%
Total Beverage Containers	2,900	110	3,000	6,000	9,000	67%

2.3.3 Commercial Rates

Table 25: Summary of Commercial Material Flows in tons and Recycling Rates in the Northwest Region (2021)

Northwest – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	5,400	5	5,400	2,300	7,800	29%
Flexible Plastic	6,800	4	6,800	180	7,000	3%
Metals	1,500	2	1,500	1,500	3,000	50%
Paper & Cardboard	21,700	15	21,700	41,900	63,500	66%
Container Glass	1,500	2	1,500	1,500	3,000	50%
All CPPP	36,900	28	36,900	47,380	84,300	56%
Beverage Containers	1,600	4	1,600	3,900	5,500	71%

Table 26: Detailed Commercial Material Flows in tons and Recycling Rates in the Northwest Region (2021)

Northwest – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	5,400	5	5,400	2,300	7,800	29%
#1 PET Bottles	550	2	550	1,100	1,700	65%
#1 PET Beverage Containers	330	1	330	990	1,300	76%
#1 PET Other Packaging	880	0	880	270	1,100	25%
#2 HDPE Natural Bottles	160	0	160	510	680	75%
#2 HDPE Natural Beverage Containers	140	0	140	400	540	74%
#2 HDPE Colored Bottles	120	0	120	240	360	67%
#2 HDPE Colored Beverage Containers	10	0	10	26	36	72%
#2 HDPE Other Packaging	1,400	0	1,400	45	1,400	3%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	1	0	1	0	1	0%
#5 PP Packaging	820	2	820	180	1,000	18%
#6 PS Packaging	240	0	240	4	250	2%
#7 Other Packaging	960	0	960	0	960	0%
Expanded Polystyrene Packaging	350	0	350	1	350	0%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	3	0	3	0	3	0%
Total Flexible Plastics	6,800	4	6,800	180	7,000	3%
PE Plastic Bags & Film	2,300	2	2,300	180	2,400	8%
Other Plastic Film & Flexible Packaging	4,500	2	4,500	4	4,500	0%
Total Metals	1,500	2	1,500	1,500	3,000	50%
Steel Cans	910	0	910	350	1,300	27%
Aluminum Cans	320	1	320	1,100	1,400	79%
Aluminum Beverage Containers	220	1	220	1,000	1,300	77%
Other Nonferrous Metal	300	1	300	15	310	5%
Total Paper & Card	21,700	15	21,700	41,900	63,500	66%
Newspaper	330	0	330	560	900	62%

Northwest – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	10,500	3	10,500	32,900	43,400	76%
Mixed Paper Products	5,700	8	5,700	5,900	11,600	51%
Cartons	240	0	240	0	240	0%
Carton Beverage Containers	100	0	100	0	100	0%
Paper Packaging	4,900	4	4,900	2,500	7,400	34%
Container Glass	1,500	2	1,500	1,500	3,000	50%
Container Glass Beverage Containers	830	2	830	1,400	2,200	64%
Total CPPP	36,900	28	36,900	47,380	84,300	56%
Total Beverage Containers	1,600	4	1,600	3,900	5,500	71%

2.4 Puget Sound Region

2.4.1 All Sectors

Table 27: Summary of Residential and Commercial Material Flows in tons and Recycling Rates in the Puget Sound Region (2021)

Puget Sound – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	91,600	22,100	113,600	50,000	163,700	31%
Flexible Plastic	91,300	19,600	110,900	5,300	116,200	5%
Metals	23,200	8,800	31,900	29,300	61,200	48%
Paper & Cardboard	312,000	68,500	380,000	748,000	1,128,000	66%
Container Glass	45,900	7,500	53,400	61,200	114,500	53%
All CPPP	563,600	126,400	690,600	894,000	1,583,500	56%
Beverage Containers	50,100	16,100	66,300	95,000	161,700	59%

Table 28: Detailed Residential and Commercial Material Flows in tons and Recycling Rates in the Puget Sound Region (2021)

Puget Sound – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	91,600	22,100	113,600	50,000	163,700	31%
#1 PET Bottles	17,500	6,800	24,200	22,200	46,400	48%
#1 PET Beverage Containers	11,070	6,000	17,100	20,000	37,200	54%
#1 PET Other Packaging	9,700	1,240	11,000	5,600	16,500	34%
#2 HDPE Natural Bottles	4,100	750	4,800	7,900	12,700	62%
#2 HDPE Natural Beverage Containers	3,400	590	4,000	6,200	10,200	61%
#2 HDPE Colored Bottles	5,600	1,240	6,800	6,200	13,000	48%
#2 HDPE Colored Beverage Containers	502	136	630	670	1,300	52%
#2 HDPE Other Packaging	4,300	247	4,600	1,660	6,200	27%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	67	0	67	0	67	0%
#5 PP Packaging	19,400	10,500	29,900	4,700	34,700	14%
#6 PS Packaging	2,260	247	2,560	1,070	3,600	30%
#7 Other Packaging	12,100	0	12,100	0	12,100	0%
Expanded Polystyrene Packaging	15,400	1,000	16,300	770	17,100	5%
R/C Plastic Packaging	280	0	280	0	280	0%
PLA/Compostable Packaging	950	0	950	0	950	0%
Total Flexible Plastics	91,300	19,600	110,900	5,300	116,200	5%
PE Plastic Bags & Film	38,400	9,000	47,400	3,100	50,500	6%
Other Plastic Film & Flexible Packaging	52,900	10,500	63,500	2,130	65,600	3%
Total Metals	23,200	8,800	31,900	29,300	61,200	48%
Steel Cans	9,000	1,730	10,700	11,500	22,200	52%
Aluminum Cans	8,500	2,470	11,000	12,200	23,200	53%
Aluminum Beverage Containers	6,720	2,450	9,200	11,800	20,900	56%
Other Nonferrous Metal	5,770	4,550	10,200	5,540	15,800	35%
Total Paper & Card	312,000	68,500	380,000	748,000	1,128,000	66%
Newspaper	9,400	1,240	10,700	35,300	45,900	77%

Puget Sound – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	125,600	11,600	137,200	466,000	604,000	77%
Mixed Paper Products	108,600	37,600	146,200	189,400	335,000	57%
Cartons	13,000	0	13,000	156	13,200	1%
Carton Beverage Containers	5,600	0	5,600	67	5,700	1%
Paper Packaging	54,900	18,100	73,000	56,900	129,800	44%
Container Glass	45,900	7,500	53,400	61,200	114,500	53%
Container Glass Beverage Containers	22,690	6,900	29,600	56,300	86,000	65%
Total CPPP	563,600	126,400	690,600	894,000	1,583,500	56%
Total Beverage Containers	50,100	16,100	66,300	95,000	161,700	59%

2.4.2 Residential Rates

Table 29: Summary of Residential Material Flows in tons and Recycling Rates in the Puget Sound Region (2021)

Puget Sound – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	68,800	4,200	72,900	26,900	99,900	27%
Flexible Plastic	61,300	3,700	65,000	2,500	67,500	4%
Metals	18,600	1,700	20,200	20,900	41,100	51%
Paper & Cardboard	215,000	12,900	227,000	352,000	579,000	61%
Container Glass	40,700	1,400	42,100	48,500	90,600	54%
All CPPP	404,000	23,800	428,000	451,000	878,000	51%
Beverage Containers	43,200	3,000	46,300	65,300	112,000	58%

Table 30: Detailed Residential Material Flows in tons and Recycling Rates in the Puget Sound Region (2021)

Puget Sound – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	68,800	4,200	72,900	26,900	99,900	27%
#1 PET Bottles	14,700	1,300	15,900	12,000	27,900	43%
<i>#1 PET Beverage Containers</i>	10,400	1,100	11,500	10,800	22,400	48%
#1 PET Other Packaging	7,500	240	7,800	2,900	10,600	27%
#2 HDPE Natural Bottles	2,700	140	2,800	3,100	6,000	52%
<i>#2 HDPE Natural Beverage Containers</i>	2,200	110	2,300	2,500	4,800	52%
#2 HDPE Colored Bottles	4,500	240	4,700	3,800	8,500	45%
<i>#2 HDPE Colored Beverage Containers</i>	420	26	440	410	850	48%
#2 HDPE Other Packaging	2,100	47	2,200	1,200	3,400	35%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	61	0	61	0	61	0%
#5 PP Packaging	15,100	2,000	17,100	2,900	20,000	15%
#6 PS Packaging	1,800	47	1,900	610	2,500	24%
#7 Other Packaging	7,400	0	7,400	0	7,400	0%
Expanded Polystyrene Packaging	11,800	190	11,900	490	12,400	4%
R/C Plastic Packaging	280	0	280	0	280	0%
PLA/Compostable Packaging	800	0	800	0	800	0%
Total Flexible Plastics	61,300	3,700	65,000	2,500	67,500	4%
PE Plastic Bags & Film	25,400	1,700	27,100	1,200	28,300	4%
Other Plastic Film & Flexible Packaging	35,900	2,000	37,900	1,200	39,100	3%
Total Metals	18,600	1,700	20,200	20,900	41,100	51%
Steel Cans	6,000	330	6,300	8,600	14,900	58%
Aluminum Cans	7,300	470	7,800	7,200	15,000	48%
<i>Aluminum Beverage Containers</i>	6,100	450	6,600	7,000	13,500	52%
Other Nonferrous Metal	5,300	850	6,100	5,100	11,200	46%
Total Paper & Card	215,000	12,900	227,000	352,000	579,000	61%
Newspaper	8,300	240	8,500	23,800	32,300	74%

Puget Sound – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	93,400	2,200	95,600	175,000	271,000	65%
Mixed Paper Products	65,500	7,100	72,600	114,000	186,000	61%
Cartons	4,700	0	4,700	16	4,700	0%
<i>Carton Beverage Containers</i>	2,000	0	2,000	7	2,000	0%
Paper Packaging	42,700	3,400	46,100	39,100	85,100	46%
Container Glass	40,700	1,400	42,100	48,500	90,600	54%
<i>Container Glass Beverage Containers</i>	22,000	1,300	23,300	44,600	68,000	66%
Total CPPP	404,000	23,800	428,000	451,000	878,000	51%
Total Beverage Containers	43,200	3,000	46,300	65,300	112,000	58%

2.4.3 Commercial Rates

Table 31: Summary of Commercial Material Flows in tons and Recycling Rates in the Puget Sound Region (2021)

Puget Sound – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	22,800	17,900	40,700	23,100	63,800	36%
Flexible Plastic	30,000	15,900	45,900	2,800	48,700	6%
Metals	4,600	7,100	11,700	8,400	20,100	42%
Paper & Cardboard	97,000	55,600	153,000	396,000	549,000	72%
Container Glass	5,200	6,100	11,300	12,700	23,900	53%
All CPPP	159,600	102,600	262,600	443,000	705,500	63%
Beverage Containers	6,900	13,100	20,000	29,700	49,700	60%

Table 32: Detailed Commercial Material Flows in tons and Recycling Rates in the Puget Sound Region (2021)

Puget Sound – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	22,800	17,900	40,700	23,100	63,800	36%
#1 PET Bottles	2,800	5,500	8,300	10,200	18,500	55%
#1 PET Beverage Containers	670	4,900	5,600	9,200	14,800	62%
#1 PET Other Packaging	2,200	1,000	3,200	2,700	5,900	46%
#2 HDPE Natural Bottles	1,400	610	2,000	4,800	6,700	72%
#2 HDPE Natural Beverage Containers	1,200	480	1,700	3,700	5,400	69%
#2 HDPE Colored Bottles	1,100	1,000	2,100	2,400	4,500	53%
#2 HDPE Colored Beverage Containers	82	110	190	260	450	58%
#2 HDPE Other Packaging	2,200	200	2,400	460	2,800	16%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	6	0	6	0	6	0%
#5 PP Packaging	4,300	8,500	12,800	1,800	14,700	12%
#6 PS Packaging	460	200	660	460	1,100	42%
#7 Other Packaging	4,700	0	4,700	0	4,700	0%
Expanded Polystyrene Packaging	3,600	810	4,400	280	4,700	6%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	150	0	150	0	150	0%
Total Flexible Plastics	30,000	15,900	45,900	2,800	48,700	6%
PE Plastic Bags & Film	13,000	7,300	20,300	1,900	22,200	9%
Other Plastic Film & Flexible Packaging	17,000	8,500	25,600	930	26,500	4%
Total Metals	4,600	7,100	11,700	8,400	20,100	42%
Steel Cans	3,000	1,400	4,400	2,900	7,300	40%
Aluminum Cans	1,200	2,000	3,200	5,000	8,200	61%
Aluminum Beverage Containers	620	2,000	2,600	4,800	7,400	65%
Other Nonferrous Metal	470	3,700	4,100	440	4,600	10%
Total Paper & Card	97,000	55,600	153,000	396,000	549,000	72%
Newspaper	1,100	1,000	2,200	11,500	13,600	85%

Puget Sound – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	32,200	9,400	41,600	291,000	333,000	87%
Mixed Paper Products	43,100	30,500	73,600	75,400	149,000	51%
Cartons	8,300	0	8,300	140	8,500	2%
Carton Beverage Containers	3,600	0	3,600	60	3,700	2%
Paper Packaging	12,200	14,700	26,900	17,800	44,700	40%
Container Glass	5,200	6,100	11,300	12,700	23,900	53%
Container Glass Beverage Containers	690	5,600	6,300	11,700	18,000	65%
Total CPPP	159,600	102,600	262,600	443,000	705,500	63%
Total Beverage Containers	6,900	13,100	20,000	29,700	49,700	60%

2.5 Southwest Region

2.5.1 All Sectors

Table 33: Summary of Residential and Commercial Material Flows in tons and Recycling Rates in the Southwest Region (2021)

Southwest – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	32,300	77	32,300	3,200	35,500	9%
Flexible Plastic	30,200	68	30,400	321	30,600	1%
Metals	5,500	30	5,500	6,040	11,700	52%
Paper & Cardboard	76,400	241	76,700	80,200	157,000	51%
Container Glass	7,000	26	7,000	690	7,800	9%
All CPPP	151,500	441	151,900	90,470	242,600	37%
Beverage Containers	10,900	55	11,000	3,580	14,600	25%

Table 34: Detailed Residential and Commercial Material Flows in tons and Recycling Rates in the Southwest Region (2021)

Southwest – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	32,300	77	32,300	3,200	35,500	9%
#1 PET Bottles	3,100	24	3,100	1,560	4,600	34%
#1 PET Beverage Containers	2,360	21	2,380	1,360	3,700	37%
#1 PET Other Packaging	2,310	4	2,320	165	2,510	7%
#2 HDPE Natural Bottles	1,040	2	1,040	530	1,610	33%
#2 HDPE Natural Beverage Containers	840	1	840	420	1,260	33%
#2 HDPE Colored Bottles	1,630	4	1,630	660	2,210	30%
#2 HDPE Colored Beverage Containers	152	0	153	72	221	33%
#2 HDPE Other Packaging	1,050	1	1,050	46	1,090	4%
#3 PVC Packaging	10	0	10	0	10	0%
#4 LDPE Packaging	9	0	9	0	9	0%
#5 PP Packaging	3,940	37	3,970	134	4,100	3%
#6 PS Packaging	770	2	770	61	830	7%
#7 Other Packaging	13,300	0	13,300	0	13,300	0%
Expanded Polystyrene Packaging	5,100	3	5,100	48	5,100	1%
R/C Plastic Packaging	2	0	2	0	2	0%
PLA/Compostable Packaging	51	0	51	0	51	0%
Total Flexible Plastics	30,200	68	30,400	321	30,600	1%
PE Plastic Bags & Film	11,700	31	11,800	209	12,000	2%
Other Plastic Film & Flexible Packaging	18,500	37	18,500	105	18,600	1%
Total Metals	5,500	30	5,500	6,040	11,700	52%
Steel Cans	2,470	6	2,470	1,620	4,090	40%
Aluminum Cans	2,090	9	2,090	1,090	3,200	34%
Aluminum Beverage Containers	1,810	8	1,810	1,050	2,900	36%
Other Nonferrous Metal	1,030	16	1,050	3,404	4,380	78%
Total Paper & Card	76,400	241	76,700	80,200	157,000	51%
Newspaper	1,360	4	1,360	12,800	14,300	90%

Southwest – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	30,300	40	30,400	56,500	86,900	65%
Mixed Paper Products	22,800	131	22,900	8,700	31,700	27%
Cartons	1,560	0	1,560	27	1,580	2%
Carton Beverage Containers	680	0	680	12	690	2%
Paper Packaging	20,400	63	20,500	2,150	22,600	10%
Container Glass	7,000	26	7,000	690	7,800	9%
Container Glass Beverage Containers	5,100	24	5,200	640	5,800	11%
Total CPPP	151,500	441	151,900	90,470	242,600	37%
Total Beverage Containers	10,900	55	11,000	3,580	14,600	25%

2.5.2 Residential Rates

Table 35: Summary of Residential Material Flows in tons and Recycling Rates in the Southwest Region (2021)

Southwest – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	19,800	54	19,800	900	20,700	4%
Flexible Plastic	20,700	48	20,800	270	21,000	1%
Metals	1,900	21	1,900	340	2,300	15%
Paper & Cardboard	51,500	170	51,700	41,200	93,000	44%
Container Glass	3,300	18	3,300	260	3,600	7%
All CPPP	97,200	311	97,500	42,970	140,600	31%
Beverage Containers	4,800	39	4,900	980	5,900	17%

Table 36: Detailed Residential Material Flows in tons and Recycling Rates in the Southwest Region (2021)

Southwest – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	19,800	54	19,800	900	20,700	4%
#1 PET Bottles	1,000	17	1,000	460	1,500	31%
#1 PET Beverage Containers	760	15	780	410	1,200	34%
#1 PET Other Packaging	610	3	620	94	710	13%
#2 HDPE Natural Bottles	360	1	360	140	510	27%
#2 HDPE Natural Beverage Containers	290	1	290	110	410	27%
#2 HDPE Colored Bottles	430	3	430	80	510	16%
#2 HDPE Colored Beverage Containers	42	0	43	9	51	18%
#2 HDPE Other Packaging	750	1	750	16	760	2%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	3	0	3	0	3	0%
#5 PP Packaging	940	26	970	63	1,000	6%
#6 PS Packaging	330	1	330	31	360	9%
#7 Other Packaging	12,300	0	12,300	0	12,300	0%
Expanded Polystyrene Packaging	3,000	2	3,000	19	3,000	1%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	38	0	38	0	38	0%
Total Flexible Plastics	20,700	48	20,800	270	21,000	1%
PE Plastic Bags & Film	8,000	22	8,000	190	8,200	2%
Other Plastic Film & Flexible Packaging	12,700	26	12,700	72	12,800	1%
Total Metals	1,900	21	1,900	340	2,300	15%
Steel Cans	370	4	370	120	490	24%
Aluminum Cans	1,100	6	1,100	210	1,300	16%
Aluminum Beverage Containers	970	6	970	210	1,200	18%
Other Nonferrous Metal	460	11	470	4	480	1%
Total Paper & Card	51,500	170	51,700	41,200	93,000	44%
Newspaper	160	3	160	2,700	2,900	93%

Southwest – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	22,500	28	22,500	32,800	55,300	59%
Mixed Paper Products	15,000	92	15,100	5,000	20,100	25%
Cartons	780	0	780	0	780	0%
Carton Beverage Containers	340	0	340	0	340	0%
Paper Packaging	13,100	44	13,200	750	13,900	5%
Container Glass	3,300	18	3,300	260	3,600	7%
Container Glass Beverage Containers	2,400	17	2,500	240	2,700	9%
Total CPPP	97,200	311	97,500	42,970	140,600	31%
Total Beverage Containers	4,800	39	4,900	980	5,900	17%

2.5.3 Commercial Rates

Table 37: Summary of Commercial Material Flows in tons and Recycling Rates in the Southwest Region (2021)

Southwest – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	32,300	77	32,300	3,200	35,500	9%
Flexible Plastic	30,200	68	30,400	321	30,600	1%
Metals	5,500	30	5,500	6,040	11,700	52%
Paper & Cardboard	76,400	241	76,700	80,200	157,000	51%
Container Glass	7,000	26	7,000	690	7,800	9%
All CPPP	151,500	441	151,900	90,470	242,600	37%
Beverage Containers	10,900	55	11,000	3,580	14,600	25%

Table 38: Detailed Commercial Material Flows in tons and Recycling Rates in the Southwest Region (2021)

Southwest – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	32,300	77	32,300	3,200	35,500	9%
#1 PET Bottles	3,100	24	3,100	1,560	4,600	34%
#1 PET Beverage Containers	2,360	21	2,380	1,360	3,700	37%
#1 PET Other Packaging	2,310	4	2,320	165	2,510	7%
#2 HDPE Natural Bottles	1,040	2	1,040	530	1,610	33%
#2 HDPE Natural Beverage Containers	840	1	840	420	1,260	33%
#2 HDPE Colored Bottles	1,630	4	1,630	660	2,210	30%
#2 HDPE Colored Beverage Containers	152	0	153	72	221	33%
#2 HDPE Other Packaging	1,050	1	1,050	46	1,090	4%
#3 PVC Packaging	10	0	10	0	10	0%
#4 LDPE Packaging	9	0	9	0	9	0%
#5 PP Packaging	3,940	37	3,970	134	4,100	3%
#6 PS Packaging	770	2	770	61	830	7%
#7 Other Packaging	13,300	0	13,300	0	13,300	0%
Expanded Polystyrene Packaging	5,100	3	5,100	48	5,100	1%
R/C Plastic Packaging	2	0	2	0	2	0%
PLA/Compostable Packaging	51	0	51	0	51	0%
Total Flexible Plastics	30,200	68	30,400	321	30,600	1%
PE Plastic Bags & Film	11,700	31	11,800	209	12,000	2%
Other Plastic Film & Flexible Packaging	18,500	37	18,500	105	18,600	1%
Total Metals	5,500	30	5,500	6,040	11,700	52%
Steel Cans	2,470	6	2,470	1,620	4,090	40%
Aluminum Cans	2,090	9	2,090	1,090	3,200	34%
Aluminum Beverage Containers	1,810	8	1,810	1,050	2,900	36%
Other Nonferrous Metal	1,030	16	1,050	3,404	4,380	78%
Total Paper & Card	76,400	241	76,700	80,200	157,000	51%
Newspaper	1,360	4	1,360	12,800	14,300	90%

Southwest – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	30,300	40	30,400	56,500	86,900	65%
Mixed Paper Products	22,800	131	22,900	8,700	31,700	27%
Cartons	1,560	0	1,560	27	1,580	2%
Carton Beverage Containers	680	0	680	12	690	2%
Paper Packaging	20,400	63	20,500	2,150	22,600	10%
Container Glass	7,000	26	7,000	690	7,800	9%
Container Glass Beverage Containers	5,100	24	5,200	640	5,800	11%
Total CPPP	151,500	441	151,900	90,470	242,600	37%
Total Beverage Containers	10,900	55	11,000	3,580	14,600	25%

2.6 West Region

2.6.1 All Sectors

Table 39: Summary of Residential and Commercial Material Flows in tons and Recycling Rates in the West Region (2021)

West – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	6,800	206	7,000	2,700	9,800	28%
Flexible Plastic	8,200	186	8,400	92	8,400	1%
Metals	1,880	83	1,930	2,960	4,900	60%
Paper & Cardboard	19,900	650	20,500	23,300	43,900	53%
Container Glass	1,940	71	1,980	607	2,600	23%
All CPPP	38,720	1,191	39,810	29,599	69,600	43%
Beverage Containers	3,300	156	3,500	3,410	6,900	49%

Table 40: Detailed Residential and Commercial Material Flows in tons and Recycling Rates in the West Region (2021)

West – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	6,800	206	7,000	2,700	9,800	28%
#1 PET Bottles	1,100	69	1,160	1,350	2,500	54%
#1 PET Beverage Containers	730	63	790	1,210	1,980	61%
#1 PET Other Packaging	1,020	12	1,030	310	1,340	23%
#2 HDPE Natural Bottles	410	5	410	350	760	46%
#2 HDPE Natural Beverage Containers	340	4	340	270	610	44%
#2 HDPE Colored Bottles	410	12	430	330	760	43%
#2 HDPE Colored Beverage Containers	38	2	40	36	76	47%
#2 HDPE Other Packaging	320	2	320	99	420	24%
#3 PVC Packaging	2	0	2	0	2	0%
#4 LDPE Packaging	2	0	2	0	2	0%
#5 PP Packaging	1,820	100	1,860	264	2,140	12%
#6 PS Packaging	183	0	183	0	183	0%
#7 Other Packaging	790	0	790	0	790	0%
Expanded Polystyrene Packaging	730	10	750	11	760	1%
R/C Plastic Packaging	17	0	17	0	17	0%
PLA/Compostable Packaging	42	0	42	0	42	0%
Total Flexible Plastics	8,200	186	8,400	92	8,400	1%
PE Plastic Bags & Film	4,000	86	4,200	42	4,200	1%
Other Plastic Film & Flexible Packaging	4,100	100	4,300	50	4,300	1%
Total Metals	1,880	83	1,930	2,960	4,900	60%
Steel Cans	880	17	900	282	1,190	24%
Aluminum Cans	620	24	650	1,470	2,060	71%
Aluminum Beverage Containers	470	22	490	1,360	1,900	72%
Other Nonferrous Metal	390	43	430	1,206	1,670	72%
Total Paper & Card	19,900	650	20,500	23,300	43,900	53%
Newspaper	650	12	670	700	1,370	51%

West – All Sectors	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	7,100	110	7,200	15,700	22,900	69%
Mixed Paper Products	7,100	360	7,500	5,400	12,800	42%
Cartons	910	0	910	0	910	0%
Carton Beverage Containers	400	0	400	0	400	0%
Paper Packaging	4,000	171	4,200	1,690	5,800	29%
Container Glass	1,940	71	1,980	607	2,600	23%
Container Glass Beverage Containers	1,320	66	1,390	555	1,970	28%
Total CPPP	38,720	1,191	39,810	29,599	69,600	43%
Total Beverage Containers	3,300	156	3,500	3,410	6,900	49%

2.6.2 Residential Rates

Table 41: Summary of Residential Material Flows in tons and Recycling Rates in the West Region (2021)

West – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	3,200	86	3,300	1,700	5,000	34%
Flexible Plastic	3,000	76	3,100	70	3,100	2%
Metals	1,000	34	1,000	2,600	3,600	72%
Paper & Cardboard	8,100	270	8,400	11,900	20,300	59%
Container Glass	1,100	29	1,100	590	1,700	35%
All CPPP	16,400	490	16,900	16,800	33,700	50%
Beverage Containers	1,600	64	1,700	2,500	4,200	60%

Table 42: Detailed Residential Material Flows in tons and Recycling Rates in the West Region (2021)

West – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	3,200	86	3,300	1,700	5,000	34%
#1 PET Bottles	560	28	580	830	1,400	59%
<i>#1 PET Beverage Containers</i>	360	26	380	740	1,100	67%
#1 PET Other Packaging	570	5	570	180	760	24%
#2 HDPE Natural Bottles	190	2	190	160	350	46%
<i>#2 HDPE Natural Beverage Containers</i>	160	2	160	120	280	43%
#2 HDPE Colored Bottles	230	5	240	230	470	49%
<i>#2 HDPE Colored Beverage Containers</i>	21	1	22	25	47	53%
#2 HDPE Other Packaging	110	1	110	78	190	41%
#3 PVC Packaging	0	0	0	0	0	0%
#4 LDPE Packaging	1	0	1	0	1	0%
#5 PP Packaging	720	41	760	180	940	19%
#6 PS Packaging	83	0	83	0	83	0%
#7 Other Packaging	340	0	340	0	340	0%
Expanded Polystyrene Packaging	390	4	400	10	410	2%
R/C Plastic Packaging	17	0	17	0	17	0%
PLA/Compostable Packaging	12	0	12	0	12	0%
Total Flexible Plastics	3,000	76	3,100	70	3,100	2%
PE Plastic Bags & Film	1,100	35	1,200	25	1,200	2%
Other Plastic Film & Flexible Packaging	1,800	41	1,900	45	1,900	2%
Total Metals	1,000	34	1,000	2,600	3,600	72%
Steel Cans	510	7	520	200	720	28%
Aluminum Cans	250	10	260	1,200	1,400	86%
<i>Aluminum Beverage Containers</i>	150	9	160	1,100	1,300	85%
Other Nonferrous Metal	250	18	270	1,200	1,500	80%
Total Paper & Card	8,100	270	8,400	11,900	20,300	59%
Newspaper	500	5	510	490	1,000	49%

West – Residential	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	2,100	45	2,100	6,700	8,800	76%
Mixed Paper Products	3,200	150	3,400	3,600	6,900	52%
Cartons	490	0	490	0	490	0%
<i>Carton Beverage Containers</i>	220	0	220	0	220	0%
Paper Packaging	1,800	71	1,900	1,200	3,000	40%
Container Glass	1,100	29	1,100	590	1,700	35%
<i>Container Glass Beverage Containers</i>	700	27	730	540	1,300	42%
Total CPPP	16,400	490	16,900	16,800	33,700	50%
Total Beverage Containers	1,600	64	1,700	2,500	4,200	60%

2.6.3 Commercial Rates

Table 43: Summary of Commercial Material Flows in tons and Recycling Rates in the West Region (2021)

West – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Rigid Plastic	3,600	120	3,700	1,000	4,800	21%
Flexible Plastic	5,200	110	5,300	22	5,300	0%
Metals	880	49	930	360	1,300	28%
Paper & Cardboard	11,800	380	12,100	11,400	23,600	48%
Container Glass	840	42	880	17	900	2%
All CPPP	22,320	701	22,910	12,799	35,900	36%
Beverage Containers	1,700	92	1,800	910	2,700	34%

Table 44: Detailed Commercial Material Flows in tons and Recycling Rates in the West Region (2021)

West – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Total Rigid Plastics	3,600	120	3,700	1,000	4,800	21%
#1 PET Bottles	540	41	580	520	1,100	47%
#1 PET Beverage Containers	370	37	410	470	880	53%
#1 PET Other Packaging	450	7	460	130	580	22%
#2 HDPE Natural Bottles	220	3	220	190	410	46%
#2 HDPE Natural Beverage Containers	180	2	180	150	330	45%
#2 HDPE Colored Bottles	180	7	190	100	290	34%
#2 HDPE Colored Beverage Containers	17	1	18	11	29	38%
#2 HDPE Other Packaging	210	1	210	21	230	9%
#3 PVC Packaging	2	0	2	0	2	0%
#4 LDPE Packaging	1	0	1	0	1	0%
#5 PP Packaging	1,100	59	1,100	84	1,200	7%
#6 PS Packaging	100	0	100	0	100	0%
#7 Other Packaging	450	0	450	0	450	0%
Expanded Polystyrene Packaging	340	6	350	1	350	0%
R/C Plastic Packaging	0	0	0	0	0	0%
PLA/Compostable Packaging	30	0	30	0	30	0%
Total Flexible Plastics	5,200	110	5,300	22	5,300	0%
PE Plastic Bags & Film	2,900	51	3,000	17	3,000	1%
Other Plastic Film & Flexible Packaging	2,300	59	2,400	5	2,400	0%
Total Metals	880	49	930	360	1,300	28%
Steel Cans	370	10	380	82	470	17%
Aluminum Cans	370	14	390	270	660	41%
Aluminum Beverage Containers	320	13	330	260	600	43%
Other Nonferrous Metal	140	25	160	6	170	4%
Total Paper & Card	11,800	380	12,100	11,400	23,600	48%
Newspaper	150	7	160	210	370	57%

West – Commercial	Disposed	Disposed - MRF Residue	Total Disposed	Recycled	Total Generated	Recycling Rate
Cardboard	5,000	65	5,100	9,000	14,100	64%
Mixed Paper Products	3,900	210	4,100	1,800	5,900	31%
Cartons	420	0	420	0	420	0%
Carton Beverage Containers	180	0	180	0	180	0%
Paper Packaging	2,200	100	2,300	490	2,800	18%
Container Glass	840	42	880	17	900	2%
Container Glass Beverage Containers	620	39	660	15	670	2%
Total CPPP	22,320	701	22,910	12,799	35,900	36%
Total Beverage Containers	1,700	92	1,800	910	2,700	34%

