Research, Analytics, and Insights Team Solid Waste Planning & Program Management Division SPU_SW_Reports@seattle.gov

Municipal Solid Waste Quarterly Report -City Contracted and Self-haul Tonnage

Q1 2022



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How to use this Tableau report

Interactivity:

- * All tables/figures are interactive
- * Click or hover on a data point or any part of a figure for more information
- * To narrow results, use filters on the left-hand side of each tab or sheet (called a "dashboard" in Tableau)
- * Click on sections of figures or tables to "highlight" that section. Click again to remove the highlight.

Note that actions can be reset and will not affect the dashboard for other viewers.

Navigation:

* Tableau reports are organized into dashboards, which are individual sheets or tabs. This report has 8 dashboards.

* To return to the home page dashboard, click the home button in the top right corner located on every dashboard * The homepage has links to all dashboards

Downloading Data, Plots, or Tables:

* Data, plots, and tables can be downloaded using the Download button in the top right corner of each dashboard * Only the data used to create the displayed table or plot will be downloaded. This means downloaded data will reflect user choices, including which dashboard is open and the choices made to filter the table/plot.

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About the Data

Q1 2022 🦨

Data

Critical Note:

The data in this report include estimated City contracted and self-haul tonnage plus some garbage and organics data from private stations. The data presented are not a full account of the municipal solid waste (MSW) in the City and do not include estimates of non-contracted commercial recycling and composting or activities such as home composting. In addition, this report does not exclude estimated tons of contaminants. For these reasons, the data in this report may differ from other reports published by SPU. The data in this report are estimated and are subject to change.

Obtaining Data/Plots/Tables:

Plots, tables, and the data used to generate any tables or plot in this report can be downloaded by pressing the Download button in the top right corner of each dashboard. Note that the full data table will not be downloaded. Data will be subset based on the selections made to filter the data, such as sector and year, and the report dashboard open.

Data Sources

- Contracted tonnage data is uploaded weekly by vendors under contract with SPU to the Solid Waste Data Integration (SWDI) database.

Data undergoes a QA/QC process weekly to identify errors and missing data. Corrections are submitted, on average, within a week.

- Commercial non-contracted tonnage data come from:

Garbage: Vendor monthly Excel reports

"Mid-Month Report" from Waste Management and "Flow Control Report" from Republic/Lander.

Organics: Waste Management monthly online report (ENSPIRE) and Cedar Grove quarterly PDF report.

- Material estimate percentages come from the <u>SPU Waste Composition Studies</u> for the Residential Sector.

Garbage: 2010, 2014, 2020

Recycling: 2010, 2015, 2020

Terms

-Municipal Solid Waste (MSW): Includes all garbage, recycling, and organics (food and yard waste) material that Seattle customers set out for collection or haul to a City transfer station.

-Contracted Tonnage: Number of tons collected by vendors under contract with SPU -Non-contracted Tonnage:

- -- Self-haul includes only material transported by customers to SPU's transfer stations
- -- Commercial garbage and organics include both contracted and non-contracted tonnage. Commercial recycling includes only the contracted portion.
- Sector: Residential, Commercial, Self-haul
 - -- Residential: Single family + Multifamily subsectors
 - --- Single family: Dwellings with no more than four units
 - --- Multifamily: Apartments and condominiums with five or more units
- Contaminant: Items that did not meet the requirements of Seattle's recycling program (as of 2014-15)
- Stream: Waste stream including garbage, recycling, and organics (food and yard waste)

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Estimated City Contracted and Self-haul MSW Tonnage



Percent difference Q1 2022 and previous quarter

Single family	Multifamily	Commercial	Self-haul
-8.44%	6.43%	0.54%	7.02%

Percent difference Q1 2022 and Q1 2021

Single family	Multifamily	Commercial	Self-haul
1.35%	5.26%	11.18%	6.75%

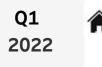
Estimated Single family Tons by Waste Stream (Q1-Q1)

	2014	2015	2016	2017	2018	2019	2020	2021	2022
Garbage	14,402	12,784	13,475	11,980	14,052	13,940	14,950	16,493	17,407
Recycling	14,616	14,338	15,125	15,251	15,135	13,962	14,123	15,192	14,949
Organics	13,030	16,809	17,112	14,376	16,420	15,517	16,299	16,310	16,287
Estimated Total	42,047	43,931	45,712	41,607	45,607	43,418	45,371	47,995	48,643

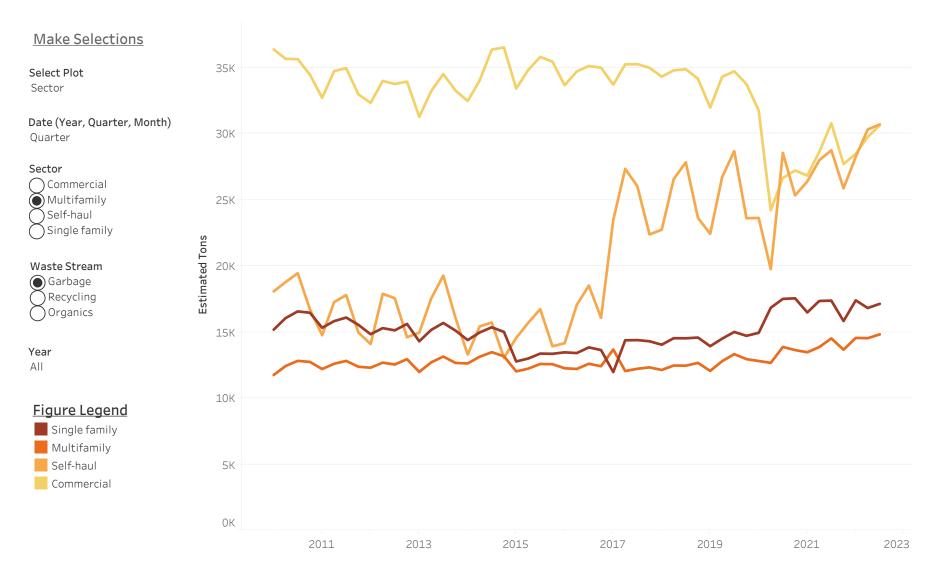
Make Selections			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Select Plot Proportion of tons	1	00%	10	100		100		10		100	100			
		90%	- 88	- 88	- 88	- 64		- 60	- 84	- 60	- 82			
Stream			- 60			- 64								
 ✓ Garbage ✓ Recycling 		80%									- 82			
✓ Organics	Suc	70%	- 88	- 88	- 88				- 84	- 60	- 82			
Sector Commercial Multifamily	Proportion of Total Tons	60%												
Self-haul Single family	tion of '	50%												
Legend Garbage, 2021	ropor	40%												
Garbage, 2021 Garbage, 2022 Recycling, 2021		30%												
Recycling, 2022 Organics, 2021		20%												
Organics, 2022		10%												
		0%												

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Estimated City Contracted and Self-haul MSW Tons Over Time



Estimated City contracted and self-haul MSW tons by Sector



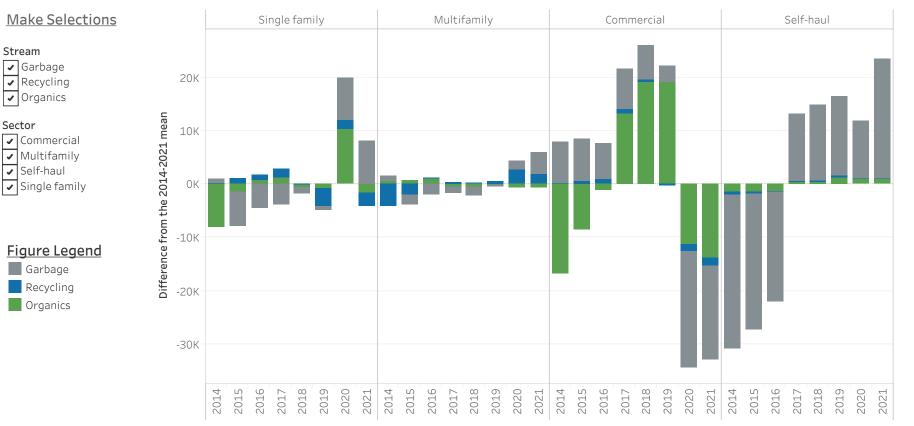
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Difference in Estimated Annual City Contracted and Self-haul MSW Tonnage from the 2014-2021 Mean



Difference in estimated annual MSW tons from the 2014-2021 mean. Means calculated for each sector/stream combination.

	Single family			Multifamily			Commercial			Self-haul		
	Garbage	Recycling	Organics	Garbage	Recycling	Organics	Garbage	Recycling	Organics	Garbage	Recycling	Organics
2015	-6,426	1,102	-1,515	-1,961	-1,910	719	7,840	640	-8,567	-25,599	-282	-1,489
2016	-4,565	1,002	827	-1,884	217	1,037	6,828	840	-1,146	-20,698	-112	-1,262
2017	-3,879	1,739	1,244	-1,089	354	-464	7,547	817	13,368	12,753	81	470
2018	-1,230	24	-613	-1,645	206	-450	6,487	482	19,205	14,288	209	471
2019	-765	-3,399	-753	-228	524	-165	3,100	-259	19,242	14,968	278	1,300
2020	7,922	1,750	10,432	1,621	2,840	-592	-21,822	-1,326	-11,348	10,782	45	1,123
2021	8,127	-2,472	-1,638	4,150	1,863	-647	-17,720	-1,414	-13,854	22,508	203	857



Waste Compositon study years * Garbage (2010,2014,2020) * Recycling (2010, 2015, 2020)

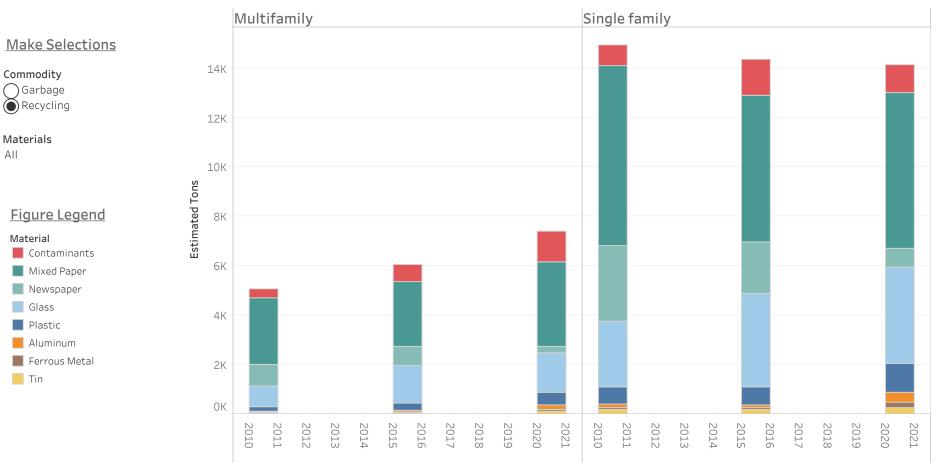
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Estimated Composition of City Contracted MSW Tonnages for Residential Subsectors using Waste Composition Study Material Proportions



		2010	2015	2020
Recycling	Multifamily	5,059	6,040	7,377
	Single family	14,914	14,338	14,127
Total		19,974	20,377	21,504

Estimated tons of Recycling material classes for single family and multifamily subsectors in Q1 through Q1

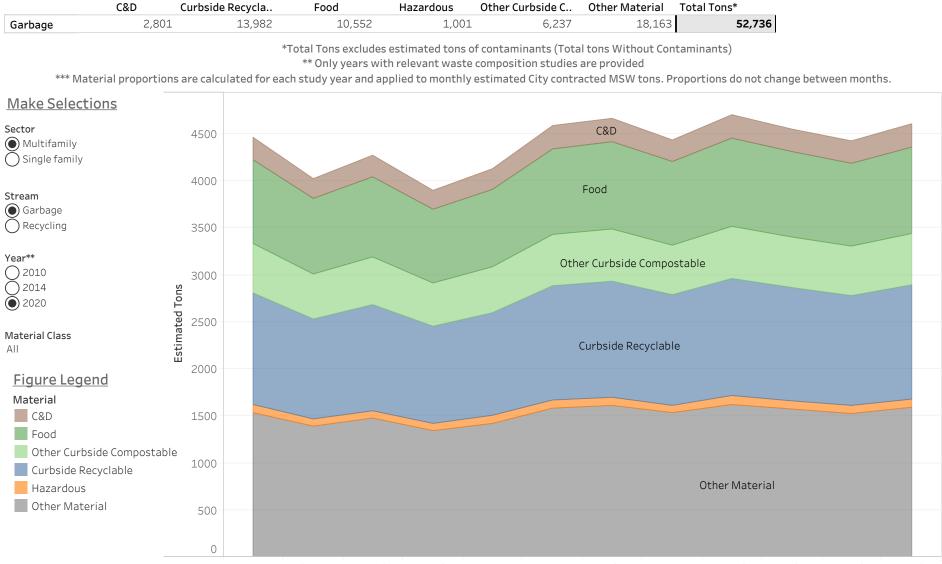


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Estimated City Contracted MSW Tonnages for Material Classes in the Residential Garbage and Recycling Streams using Waste Composition Study Material Proportions



Estimated collected tons for material classes in the Garbage stream in 2020



January February March April May June July August September October November December