2017 Pierce County Waste Characterization Study Results

391,000 tons

Cat. No.	Material Categories	Aggregate			Single Family Residential			Multifamily Residential			Residential Self Haul			Commercial			Commercial Self Haul			Efficiency		
			90% Confidence Interval			90% Confidence Interval			90% Confidence Interval			90% Confidence Interval			90% Confidence Interval			90% Confidence Interval			90% Confidence Interval	
		% Comp.	Lower Bound	Upper Bound	% Comp.	Lower Bound	Upper Bound	% Comp.	Lower Bound	Upper Bound	% Comp.	Lower Bound	Upper Bound	% Comp.	Lower Bound	Upper Bound	% Comp.	Lower Bound	Upper Bound	% Comp.	Lower Bound	Upper Bound
	Paper																					
1	Newspaper	0.66%	0.53%	0.80%	0.58%	0.45%	0.71%	2.19%	1.16%	3.54%	0.65%	0.19%	1.38%	0.41%	0.23%	0.65%	0.18%	0.05%	0.40%	0.54%	0.27%	0.90%
2	Cardboard & Kraft Paper	2.81%	2.41%	3.24%	1.72%	1.40%	2.06%	4.19%	3.30%	5.18%	1.28%	0.55%	2.32%	5.53%	3.77%	7.61%	1.09%	0.48%	1.93%	2.45%	1.74%	3.28%
3	Paperboard	1.80%	1.56%	2.05%	2.10%	1.89%	2.32%	3.77%	2.99%	4.63%	0.06%	0.02%	0.12%	2.24%	1.63%	2.95%	0.04%	0.01%	0.09%	2.16%	1.79%	2.58%
4	Magazine/Catalogs	0.44%	0.35%	0.54%	0.47%	0.33%	0.64%	0.99%	0.51%	1.61%	0.01%	0.00%	0.02%	0.22%	0.11%	0.38%	0.37%	0.09%	0.82%	0.58%	0.26%	1.02%
5	Cartons and Coated Paperboard	0.51%	0.43%	0.60%	0.50%	0.43%	0.57%	0.84%	0.59%	1.14%	0.21%	0.07%	0.45%	0.68%	0.39%	1.06%	0.09%	0.02%	0.20%	0.52%	0.35%	0.72%
6	Aseptic Packages	0.06%	0.05%	0.07%	0.08%	0.06%	0.11%	0.06%	0.03%	0.10%	0.00%	0.00%	0.01%	0.11%	0.06%	0.18%	0.00%	N/A	N/A	0.06%	0.03%	0.09%
7	Mixed Recyclable Paper	2.71%	2.27%	3.19%	1.99%	1.71%	2.29%	3.68%	2.80%	4.69%	2.43%	0.69%	5.20%	3.67%	2.23%	5.46%	1.68%	0.46%	3.63%	3.84%	2.65%	5.24%
8	Contaminated Paper	10.66%	9.40%	11.99%	14.99%	14.11%	15.88%	10.54%	9.41%	11.73%	1.32%	0.44%	2.66%	11.02%	8.78%	13.48%	0.25%	0.07%	0.56%	15.31%	12.65%	18.18%
9	Other Non-Recyclable Paper	0.33%	0.27%	0.41%	0.45%	0.32%	0.61%	0.16%	0.12%	0.20%	0.61%	0.19%	1.27%	0.33%	0.19%	0.51%	0.00%	N/A	N/A	0.22%	0.13%	0.33%
	Total Paper	19.98%	18.09%	21.95%	22.87%	21.85%	23.92%	26.43%	23.87%	29.07%	6.58%	2.91%	11.60%	24.23%	20.91%	27.71%	3.69%	1.50%	6.82%	25.67%	22.43%	29.06%
	Plastic																					
10	Pop and Water Bottles	0.90%	0.79%	1.02%	0.95%	0.84%	1.07%	1.39%	1.17%	1.62%	0.19%	0.07%	0.37%	0.85%	0.60%	1.13%	0.18%	0.07%	0.34%	1.32%	1.03%	1.64%
11	All other Bottles and Jugs	1.06%	0.93%	1.21%	1.14%	1.02%	1.27%	1.85%	1.53%	2.21%	0.25%	0.09%	0.47%	1.19%	0.86%	1.57%	0.03%	0.01%	0.08%	1.56%	1.22%	1.95%
12	Compatible Plastic Containers	0.26%	0.22%	0.31%	0.41%	0.34%	0.50%	0.21%	0.15%	0.29%	0.02%	0.01%	0.03%	0.20%	0.12%	0.32%	0.02%	0.01%	0.05%	0.27%	0.20%	0.36%
13	Non-Compatible Plastics	5.29%	4.72%	5.90%	6.59%	6.15%	7.04%	5.81%	4.95%	6.72%	1.15%	0.55%	1.97%	6.02%	4.71%	7.48%	0.71%	0.32%	1.24%	6.27%	5.38%	7.24%
14	StyrofoamTM	1.11%	0.90%	1.34%	0.89%	0.81%	0.99%	0.80%	0.63%	0.98%	0.41%	0.16%	0.80%	2.97%	1.40%	5.11%	0.07%	0.02%	0.15%	0.70%	0.52%	0.90%
15	Plastic Shopping Bags	0.34%	0.29%	0.39%	0.52%	0.46%	0.59%	0.56%	0.44%	0.69%	0.01%	0.00%	0.01%	0.29%	0.20%	0.40%	0.00%	0.00%	0.00%	0.37%	0.21%	0.57%
16	Plastic Film	5.38%	4.76%	6.03%	6.32%	5.86%	6.79%	3.67%	3.15%	4.22%	1.00%	0.50%	1.67%	8.81%	7.04%	10.77%	3.61%	1.17%	7.32%	5.27%	4.57%	6.01%
	Total Plastic	14.34%	12.93%	15.81%	16.82%	16.06%	17.60%	14.28%	12.84%	15.78%	3.02%	1.62%	4.85%	20.34%	16.22%	24.79%	4.61%	1.82%	8.60%	15.76%	14.31%	17.27%
	Glass																					
17	Clear Glass	2.47%	2.11%	2.85%	3.19%	2.82%	3.59%	3.73%	2.95%	4.60%	1.55%	0.48%	3.22%	1.42%	0.93%	2.00%	0.83%	0.24%	1.77%	3.01%	2.17%	3.99%
18	Brown Glass	0.78%	0.64%	0.93%	1.36%	1.10%	1.65%	1.14%	0.74%	1.61%	0.06%	0.02%	0.12%	0.29%	0.15%	0.49%	0.00%	N/A	N/A	1.21%	0.59%	2.05%
19	Green Glass	0.54%	0.44%	0.66%	0.85%	0.63%	1.09%	0.72%	0.43%	1.09%	0.07%	0.02%	0.15%	0.28%	0.14%	0.48%	0.00%	N/A	N/A	1.06%	0.58%	1.70%
20	Other Glass	1.04%	0.80%	1.31%	1.16%	0.81%	1.58%	0.70%	0.33%	1.21%	1.67%	0.47%	3.59%	0.27%	0.14%	0.44%	0.34%	0.09%	0.74%	0.62%	0.33%	0.98%
	Total Glass	4.83%	4.16%	5.54%	6.56%	5.85%	7.31%	6.29%	5.28%	7.39%	3.35%	1.17%	6.60%	2.26%	1.54%	3.13%	1.17%	0.38%	2.38%	5.90%	4.66%	7.27%
	Metal																					
21	Steel Cans	0.71%	0.61%	0.83%	1.14%	0.99%	1.30%	1.16%	0.97%	1.37%	0.03%	0.01%	0.06%	0.54%	0.32%	0.81%	0.00%	N/A	N/A	0.67%	0.49%	0.89%
22	Aluminum Cans	0.69%	0.60%	0.79%	0.84%	0.74%	0.94%	1.13%	0.96%	1.31%	0.04%	0.01%	0.07%	0.65%	0.45%	0.90%	0.18%	0.05%	0.37%	0.89%	0.63%	1.19%
23	Aerosol Cans	0.19%	0.15%	0.23%	0.32%	0.24%	0.40%	0.18%	0.12%	0.25%	0.10%	0.03%	0.22%	0.11%	0.05%	0.18%	0.04%	0.01%	0.09%	0.13%	0.08%	0.20%
24	Large Appliances	0.17%	0.12%	0.24%	0.00%	N/A	N/A	0.00%	N/A	N/A	1.48%	0.41%	3.20%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A
25	Other Ferrous Metals	2.15%	1.77%	2.58%	1.58%	1.21%	2.00%	1.21%	0.74%	1.79%	2.98%	1.20%	5.51%	1.85%	1.08%	2.82%	3.67%	1.26%	7.25%	3.23%	1.80%	5.06%
26	Other Non-Ferrous Metals	0.57%	0.47%	0.67%	0.77%	0.64%	0.91%	0.38%	0.27%	0.51%	0.01%	0.00%	0.03%	0.29%	0.18%	0.41%	0.39%	0.10%	0.88%	0.84%	0.51%	1.26%
	Total Metal	4.48%	3.94%	5.06%	4.63%	4.13%	5.17%	4.05%	3.41%	4.75%	4.64%	2.08%	8.15%	3.43%	2.48%	4.54%	4.28%	1.72%	7.90%	5.77%	4.29%	7.47%
	Organics																					
27	Food Waste: Edible/Program Compatible	2.62%	2.21%	3.07%	3.09%	2.67%	3.54%	2.54%	1.94%	3.22%	0.38%	0.11%	0.79%	4.48%	2.65%	6.75%	0.00%	N/A	N/A	2.77%	1.88%	3.84%
28	Food Waste: Edible/Non-Compatible	6.84%	5.88%	7.88%	7.17%	6.51%	7.87%	7.90%	6.65%	9.25%	0.87%	0.26%	1.82%	13.20%	8.99%	18.07%	0.00%	N/A	N/A	7.29%	5.09%	9.86%
29	Food Waste: Inedible/Compatible	3.30%	2.81%	3.83%	4.51%	3.91%	5.16%	2.41%	1.95%	2.91%	0.23%	0.07%	0.49%	3.78%	2.51%	5.31%	0.00%	N/A	N/A	5.41%	3.67%	7.47%
30	Food Waste: Inedible/Non-Compatible	0.60%	0.50%	0.71%	0.82%	0.70%	0.96%	0.52%	0.31%	0.79%	0.14%	0.04%	0.29%	0.52%	0.31%	0.79%	0.00%	0.00%	0.00%	1.18%	0.65%	1.87%
31	K-Cups	0.21%	0.17%	0.25%	0.40%	0.32%	0.49%	0.23%	0.13%	0.35%	0.07%	0.02%	0.14%	0.06%	0.03%	0.10%	0.00%	N/A	N/A	0.29%	0.20%	0.40%
32	Yard Waste	3.96%	3.00%	5.05%	4.05%	2.90%	5.38%	0.83%	0.39%	1.44%	5.33%	1.50%	11.30%	1.71%	0.76%	3.03%	8.40%	1.75%	19.34%	4.90%	2.56%	7.94%
33	Land Clearing Debris	0.47%	0.30%	0.66%	0.00%	N/A	N/A	0.00%	N/A	N/A	3.96%	0.91%	9.03%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A
34	Other Organic Waste	3.45%	2.84%	4.12%	5.42%	4.41%	6.52%	5.20%	3.44%	7.31%	0.95%	0.31%	1.93%	1.97%	0.99%	3.27%	2.35%	0.73%	4.85%	1.27%	0.63%	2.13%
	Total Organics	21.46%	18.92%	24.11%	25.46%	23.83%	27.12%	19.63%	17.26%	22.11%	11.93%	4.15%	22.99%	25.72%	19.21%	32.82%	10.75%	2.91%	22.70%	23.12%	19.48%	26.97%
	C&D Waste																					
35	Gypsum Wallboard	1.25%	0.89%	1.68%	0.19%	0.11%	0.31%	0.25%	0.07%	0.54%	1.68%	0.53%	3.47%	1.45%	0.52%	2.85%	6.83%	1.92%	14.43%	0.25%	0.06%	0.55%
36	Concrete	1.72%	1.24%	2.27%	1.16%	0.72%	1.70%	0.06%	0.01%	0.13%	2.76%	0.73%	6.06%	3.57%	1.52%	6.42%	4.00%	0.85%	9.33%	0.14%	0.04%	0.29%
37	Insulation	0.23%	0.17%	0.30%	0.03%	0.02%	0.05%	0.01%	0.00%	0.02%	0.61%	0.22%	1.20%	0.01%	0.00%	0.01%	0.27%	0.09%	0.56%	0.73%	0.18%	1.65%
38	Carpet	0.28%	0.20%	0.38%	0.08%	0.05%	0.14%	0.12%	0.03%	0.27%	0.63%	0.20%	1.31%	0.00%	0.00%	0.00%	0.96%	0.30%	1.99%	0.13%	0.03%	0.29%
39	Untreated Lumber	5.17%	4.01%	6.48%	0.88%	0.64%	1.16%	1.02%	0.44%	1.84%	18.54%	9.21%	30.21%	4.00%	2.02%	6.62%	17.00%	8.54%	27.63%	1.54%	0.72%	2.67%
40	Treated Wood Waste	2.67%	1.97%	3.47%	0.74%	0.52%	1.01%	3.46%	1.82%	5.60%	10.75%	3.38%	21.59%	0.68%	0.31%	1.20%	5.23%	1.89%	10.11%	0.92%	0.37%	1.71%
41	Asphalt Roofing	2.52%	1.67%	3.53%	0.24%	0.13%	0.39%	0.00%	N/A	N/A	6.20%	1.33%	14.28%	0.01%	0.00%	0.02%	16.95%	4.72%	34.67%	0.00%	N/A	N/A
42	Pallets	0.18%	0.13%	0.25%	0.00%	N/A	N/A	0.00%	N/A	N/A	1.29%	0.36%	2.79%	0.00%	N/A	N/A	0.32%	0.08%	0.71%	0.00%	N/A	N/A
43	Other Construction Debris	1.44%	1.04%	1.91%	0.09%	0.05%	0.15%	0.60%	0.15%	1.34%	3.58%	1.21%	7.14%	0.00%	N/A	N/A	8.16%	3.32%	14.91%	0.04%	0.01%	0.10%
44	Asphalt	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A
	Total C&D Waste	15.47%	12.09%	19.18%	3.43%	2.64%	4.32%	5.52%	3.58%	7.85%	46.06%	26.14%	66.67%	9.73%	5.25%	15.38%	59.72%	40.72%	77.32%	3.75%	1.95%	6.11%

	Hazardous Waste																								
45	Paints/Adhesives	0.16%	0.11%	0.21%	0.41%	0.23%	0.65%	0.01%	0.00%	0.01%	0.00%	N/A	N/A	0.09%	0.03%	0.17%	0.00%	N/A	N/A	0.08%	0.03%	0.17%			
46	Cleaners	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A			
47	Pesticides/Herbicides	0.09%	0.07%	0.13%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	0.00%	0.00%	0.00%	N/A	N/A	0.94%	0.23%	2.11%	0.00%	N/A	N/A			
48	Vehicle & Equipment Fluids	0.03%	0.02%	0.04%	0.03%	0.01%	0.04%	0.00%	N/A	N/A	0.00%	0.00%	0.01%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.01%	0.00%	0.03%			
49	Car Batteries	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A			
50	Alkaline Batteries	0.10%	0.08%	0.12%	0.15%	0.12%	0.19%	0.09%	0.05%	0.14%	0.05%	0.02%	0.11%	0.06%	0.03%	0.11%	0.00%	N/A	N/A	0.15%	0.06%	0.26%			
51	Other Batteries	0.02%	0.01%	0.03%	0.00%	N/A	N/A	0.02%	0.01%	0.05%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.18%	0.05%	0.40%			
52	Fluorescent Light Tubes & Compacts	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	N/A	N/A	0.00%	N/A	N/A			
53	Gasoline	0.04%	0.03%	0.06%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.42%	0.10%	0.96%			
54	Explosives	0.00%	0.00%	0.01%	0.01%	0.00%	0.01%	0.02%	0.01%	0.05%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A			
55	Medical Waste	0.07%	0.05%	0.09%	0.01%	0.01%	0.02%	0.09%	0.03%	0.19%	0.00%	N/A	N/A	0.15%	0.06%	0.29%	0.00%	N/A	N/A	0.30%	0.08%	0.66%			
56	Medicine (Rx Only)	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.07%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A			
57	E-Cycle Program	0.15%	0.10%	0.20%	0.02%	0.01%	0.03%	0.63%	0.18%	1.34%	0.00%	N/A	N/A	0.38%	0.13%	0.75%	0.21%	0.05%	0.46%	0.00%	N/A	N/A			
58	All Other E-Waste	0.03%	0.02%	0.04%	0.05%	0.02%	0.07%	0.10%	0.04%	0.21%	0.00%	N/A	N/A	0.00%	0.00%	0.00%	0.00%	N/A	N/A	0.00%	N/A	N/A			
59	Other Hazardous Waste	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A			
	Total Hazardous Waste	0.70%	0.55%	0.87%	0.69%	0.50%	0.93%	0.99%	0.46%	1.73%	0.06%	0.02%	0.12%	0.68%	0.31%	1.20%	1.15%	0.32%	2.48%	1.14%	0.48%	2.09%			
	Other Waste																								
60	Tires	0.36%	0.25%	0.48%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.33%	0.09%	0.70%	0.00%	N/A	N/A	0.55%	0.14%	1.23%	2.48%	0.56%	5.73%			
61	Mattresses/Box Springs	0.44%	0.31%	0.59%	0.00%	N/A	N/A	0.00%	N/A	N/A	1.23%	0.41%	2.49%	0.00%	N/A	N/A	2.89%	0.92%	5.92%	0.00%	N/A	N/A			
62	Furniture/Bulky	2.81%	1.87%	3.94%	0.00%	N/A	N/A	0.00%	N/A	N/A	17.15%	4.76%	35.10%	0.00%	N/A	N/A	7.92%	2.53%	15.95%	0.00%	N/A	N/A			
63	Small Appliances	0.97%	0.76%	1.22%	0.70%	0.48%	0.97%	2.92%	1.33%	5.11%	1.60%	0.61%	3.03%	0.42%	0.20%	0.71%	0.78%	0.23%	1.68%	0.86%	0.36%	1.59%			
64	Textiles and Leather	3.98%	3.37%	4.64%	5.20%	4.38%	6.08%	7.39%	5.74%	9.22%	2.23%	0.71%	4.57%	3.47%	2.05%	5.25%	1.80%	0.57%	3.71%	2.45%	1.59%	3.49%			
65	Diapers	2.65%	2.22%	3.12%	4.61%	4.03%	5.23%	4.85%	3.60%	6.27%	0.00%	0.00%	0.00%	1.15%	0.64%	1.81%	0.00%	N/A	N/A	2.84%	1.60%	4.43%			
66	All Other Waste	4.07%	3.61%	4.55%	5.12%	4.77%	5.47%	4.42%	3.53%	5.41%	1.51%	0.66%	2.69%	4.54%	3.60%	5.58%	0.68%	0.22%	1.40%	6.24%	5.40%	7.14%			
67	Liquids	1.95%	1.62%	2.31%	1.31%	1.04%	1.60%	2.09%	1.35%	2.98%	0.21%	0.07%	0.42%	2.90%	2.01%	3.95%	0.00%	N/A	N/A	1.94%	1.33%	2.65%			
68	Fines	1.45%	1.23%	1.67%	2.59%	2.26%	2.94%	1.13%	0.81%	1.51%	0.10%	0.03%	0.21%	1.12%	0.87%	1.41%	0.00%	0.00%	0.00%	1.23%	0.67%	1.95%			
	Total Other Waste	18.67%	16.41%	21.04%	19.52%	18.45%	20.62%	22.80%	20.61%	25.07%	24.35%	9.77%	42.92%	13.61%	11.11%	16.32%	14.63%	5.70%	26.78%	18.04%	14.38%	22.03%			
	Total	99.92%			100.00%			100.00%			100.00%			100.00%			100.00%			99.17%					