

2017 Pierce County Waste Characterization Study Results

379,000 tons		Aggregate			Single Family Residential			Multifamily Residential			Residential Self Haul			Commercial			Commercial Self Haul			Efficiency			
Cat.	No. Material Categories	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	0.48%	0.39%	0.58%	0.51%	0.39%	0.65%	1.03%	0.73%	1.39%	0.00%	0.00%	0.01%	0.73%	0.46%	1.04%	0.00%	0.00%	0.00%	0.59%	0.25%	1.08%	
	2 Cardboard & Kraft Paper	1.98%	1.66%	2.32%	0.81%	0.66%	0.99%	2.73%	2.19%	3.32%	3.36%	1.67%	5.62%	3.03%	2.21%	3.99%	0.92%	0.38%	1.70%	4.04%	2.58%	5.80%	
	3 Paperboard	1.04%	0.89%	1.21%	1.09%	0.91%	1.29%	1.95%	1.63%	2.29%	0.15%	0.06%	0.29%	1.56%	1.17%	2.00%	0.12%	0.04%	0.24%	1.43%	1.01%	1.93%	
	4 Magazine/Catalogs	0.56%	0.45%	0.68%	0.64%	0.46%	0.85%	1.13%	0.62%	1.79%	0.01%	0.01%	0.03%	0.83%	0.52%	1.22%	0.00%	0.00%	0.00%	0.54%	0.22%	1.00%	
	5 Cartons and Coated Paperboard	0.65%	0.55%	0.77%	0.59%	0.50%	0.70%	1.52%	1.15%	1.95%	0.10%	0.04%	0.21%	0.87%	0.63%	1.14%	0.03%	0.01%	0.06%	1.00%	0.58%	1.54%	
	6 Aseptic Packages	0.10%	0.08%	0.12%	0.15%	0.12%	0.19%	0.12%	0.07%	0.18%	0.00%	0.00%	0.00%	0.14%	0.09%	0.21%	0.00%	0.00%	0.01%	0.11%	0.04%	0.20%	
	7 Mixed Recyclable Paper	1.88%	1.59%	2.20%	1.64%	1.38%	1.93%	3.34%	2.58%	4.20%	0.23%	0.09%	0.44%	3.64%	2.65%	4.79%	0.03%	0.01%	0.06%	3.28%	2.21%	4.56%	
	8 Contaminated Paper	11.21%	9.86%	12.62%	14.97%	14.20%	15.75%	13.51%	12.22%	14.86%	2.12%	0.87%	3.91%	15.74%	13.74%	17.84%	1.65%	0.64%	3.13%	13.94%	10.98%	17.18%	
	9 Other Non-Recyclable Paper	0.46%	0.36%	0.58%	0.30%	0.22%	0.39%	0.24%	0.16%	0.33%	1.41%	0.45%	2.90%	0.75%	0.45%	1.13%	0.00%	N/A	N/A	0.53%	0.22%	0.97%	
	Total Paper	18.37%	16.45%	20.38%	20.71%	19.73%	21.70%	25.57%	23.83%	27.35%	7.40%	3.85%	12.00%	27.29%	24.96%	29.68%	2.76%	1.22%	4.90%	25.45%	21.86%	29.22%	
	Plastic																						
	10 Pop and Water Bottles	0.92%	0.80%	1.05%	0.90%	0.79%	1.02%	1.67%	1.43%	1.91%	0.27%	0.11%	0.51%	1.34%	1.09%	1.62%	0.13%	0.06%	0.24%	1.39%	1.12%	1.68%	
	11 All other Bottles and Jugs	0.92%	0.79%	1.05%	1.08%	0.96%	1.21%	1.49%	1.26%	1.73%	0.23%	0.08%	0.46%	1.37%	1.13%	1.63%	0.00%	0.00%	0.01%	1.09%	0.80%	1.43%	
	12 Compatible Plastic Containers	0.60%	0.50%	0.71%	0.81%	0.66%	0.98%	0.99%	0.66%	1.38%	0.02%	0.01%	0.04%	0.81%	0.54%	1.12%	0.03%	0.01%	0.05%	0.57%	0.32%	0.90%	
	13 Non-Compatible Plastics	4.84%	4.26%	5.44%	5.80%	5.32%	6.30%	6.68%	5.63%	7.80%	2.46%	1.24%	4.08%	6.44%	5.27%	7.71%	0.73%	0.30%	1.34%	5.67%	4.32%	7.19%	
	14 StyrofoamTM	0.65%	0.56%	0.75%	0.98%	0.87%	1.10%	0.83%	0.71%	0.96%	0.12%	0.05%	0.23%	0.75%	0.58%	0.95%	0.01%	0.01%	0.03%	0.66%	0.44%	0.92%	
	15 Plastic Shopping Bags	0.21%	0.17%	0.24%	0.29%	0.25%	0.34%	0.31%	0.25%	0.37%	0.02%	0.01%	0.04%	0.26%	0.18%	0.36%	0.00%	0.00%	0.00%	0.20%	0.11%	0.31%	
	16 Plastic Film	4.23%	3.74%	4.74%	6.21%	5.84%	6.59%	4.94%	4.45%	5.45%	0.45%	0.22%	0.76%	4.94%	4.38%	5.54%	0.63%	0.30%	1.09%	5.32%	4.38%	6.34%	
	Total Plastic	12.36%	11.09%	13.69%	16.08%	15.26%	16.92%	16.89%	15.33%	18.52%	3.59%	1.98%	5.65%	15.90%	14.21%	17.66%	1.54%	0.79%	2.52%	14.89%	12.93%	16.96%	
	Glass																						
	17 Clear Glass	2.68%	2.28%	3.11%	3.28%	2.91%	3.67%	3.71%	2.94%	4.56%	2.51%	0.91%	4.87%	2.30%	1.77%	2.91%	0.38%	0.13%	0.75%	3.44%	2.17%	4.98%	
	18 Brown Glass	1.10%	0.91%	1.30%	1.33%	1.07%	1.61%	1.74%	1.25%	2.31%	0.05%	0.02%	0.11%	1.72%	1.08%	2.52%	0.00%	0.00%	0.00%	1.48%	0.72%	2.50%	
	19 Green Glass	0.75%	0.61%	0.90%	1.24%	0.96%	1.56%	0.73%	0.46%	1.06%	0.29%	0.09%	0.59%	0.69%	0.38%	1.10%	0.00%	N/A	N/A	0.76%	0.33%	1.35%	
	20 Other Glass	1.32%	1.00%	1.70%	0.94%	0.65%	1.30%	0.68%	0.37%	1.08%	4.55%	1.47%	9.21%	0.55%	0.32%	0.84%	1.54%	0.51%	3.12%	0.17%	0.06%	0.32%	
	Total Glass	5.85%	5.00%	6.76%	6.79%	6.06%	7.56%	6.85%	5.78%	8.00%	7.39%	2.98%	13.58%	5.27%	4.05%	6.65%	1.92%	0.68%	3.77%	5.84%	3.72%	8.39%	
	Metal																						
	21 Steel Cans	0.76%	0.66%	0.88%	1.11%	0.97%	1.26%	0.91%	0.81%	1.01%	0.16%	0.06%	0.30%	1.08%	0.87%	1.30%	0.00%	N/A	N/A	0.71%	0.44%	1.05%	
	22 Aluminum Cans	0.60%	0.51%	0.69%	0.53%	0.46%	0.61%	0.98%	0.83%	1.14%	0.28%	0.12%	0.52%	1.09%	0.81%	1.40%	0.06%	0.02%	0.11%	0.82%	0.56%	1.12%	
	23 Aerosol Cans	0.17%	0.14%	0.21%	0.22%	0.17%	0.27%	0.23%	0.16%	0.30%	0.01%	0.00%	0.03%	0.25%	0.17%	0.34%	0.04%	0.01%	0.07%	0.28%	0.12%	0.50%	
	24 Large Appliances	0.19%	0.13%	0.26%	0.02%	0.01%	0.03%	0.00%	N/A	N/A	0.86%	0.25%	1.82%	0.00%	N/A	N/A	0.42%	0.14%	0.83%	0.19%	0.03%	0.46%	
	25 Other Ferrous Metals	2.46%	2.00%	2.97%	1.26%	0.99%	1.56%	2.70%	1.64%	4.02%	5.32%	2.16%	9.77%	2.34%	1.69%	3.87%	2.34%	1.03%	4.16%	3.02%	1.70%	4.72%	
	26 Other Non-Ferrous Metals	0.52%	0.44%	0.61%	0.81%	0.64%	1.00%	0.65%	0.48%	0.85%	0.14%	0.05%	0.26%	0.49%	0.35%	0.65%	0.03%	0.01%	0.06%	0.55%	0.31%	0.86%	
	Total Metal	4.71%	4.08%	5.38%	3.95%	3.49%	4.43%	5.46%	4.24%	6.82%	6.77%	3.14%	11.65%	5.57%	4.54%	6.69%	2.88%	1.37%	4.94%	5.57%	3.98%	7.42%	
	Organics																						
	27 Food Waste: Edible/Program Compatible	2.54%	2.15%	2.96%	3.86%	3.34%	4.41%	2.69%	2.10%	3.34%	0.38%	0.14%	0.73%	2.95%	1.89%	4.24%	0.00%	0.00%	0.01%	3.76%	2.46%	5.33%	
	28 Food Waste: Edible/Non-Compatible	5.50%	4.76%	6.29%	7.71%	6.97%	8.50%	6.55%	5.88%	7.25%	1.25%	0.48%	2.40%	7.93%	6.13%	9.94%	0.01%	0.00%	0.02%	6.10%	4.69%	7.68%	
	29 Food Waste: Inedible/Compatible	3.17%	2.71%	3.65%	5.21%	4.68%	5.76%	3.02%	2.40%	3.70%	0.33%	0.13%	0.63%	3.59%	2.67%	4.65%	0.00%	0.00%	0.00%	3.78%	2.51%	5.30%	
	30 Food Waste: Inedible/Non-Compatible	0.73%	0.60%	0.87%	1.03%	0.82%	1.28%	1.01%	0.71%	1.37%	0.02%	0.01%	0.05%	0.96%	0.60%	1.41%	0.00%	0.00%	0.00%	0.89%	0.48%	1.43%	
	31 K-Cups	0.25%	0.20%	0.30%	0.47%	0.38%	0.57%	0.26%	0.19%	0.35%	0.04%	0.01%	0.08%	0.21%	0.09%	0.36%	0.00%	0.00%	0.00%	0.08%	0.04%	0.14%	
	32 Yard Waste	3.66%	2.78%	4.66%	3.28%	2.38%	4.32%	1.13%	0.54%	1.93%	5.58%	1.99%	10.85%	3.83%	1.91%	6.37%	5.60%	1.63%	11.75%	3.00%	0.84%	6.44%	
	33 Land Clearing Debris	1.35%	0.87%	1.93%	0.20%	0.10%	0.32%	0.72%	0.24%	1.46%	0.00%	N/A	N/A	0.00%	N/A	N/A	7.80%	2.20%	16.41%	0.00%	N/A	N/A	
	34 Other Organic Waste	5.36%	4.36%	6.46%	7.78%	6.57%	9.09%	6.28%	4.56%	8.27%	0.61%	0.23%	1.19%	2.77%	1.72%	4.05%	6.39%	1.88%	13.31%	2.46%	1.32%	3.94%	
	Total Organics	22.56%	19.69%	25.57%	29.55%	27.70%	31.43%	21.67%	19.65%	23.75%	8.22%	3.76%	14.21%	22.24%	18.44%	26.29%	19.81%	7.40%	36.33%	20.08%	15.56%	25.03%	
	C&D Waste																						
	35 Gypsum Wallboard	2.17%	1.54%	2.92%	0.48%	0.27%	0.75%	0.64%	0.01%	0.08%	1.96%	0.63%	3.98%	0.21%	0.08%	0.38%	10.86%	4.60%	19.35%	1.18%	0.26%	2.75%	
	36 Concrete	0.72%	0.50%	0.97%	0.26%	0.17%	0.39%	0.64%	0.26%	1.18%	0.07%	0.02%	0.15%	0.23%	0.09%	0.42%	3.01%	0.88%	6.38%	0.42%	0.10%	0.99%	
	37 Insulation	0.89%	0.61%	1.22%	0.24%	0.13%	0.39%	0.01%	0.00%	0.02%	3.60%	0.96%	7.85%	0.03%	0.01%	0.06%	2.36%	0.84%	4.62%	0.00%	N/A	N/A	
	38 Carpet	2.05%	1.45%	2.75%	0.11%	0.07%	0.18%	0.59%	0.24%	1.10%	6.73%	2.29%	13.26%	0.19%	0.07%	0.37%	6.67%	2.52%	12.62%	0.85%	0.15%	2.10%	
	39 Untreated Lumber	4.22%	3.21%	5.36%	0.56%	0.41%	0.73%	1.04%	0.53%	1.71%	15.57%	6.70%	27.27%	1.57%	0.87%	2.46%	9.62%	4.85%	15.79%	3.82%	1.21%	7.81%	
	40 Treated Wood Waste	2.93%	2.29%	3.65%	0.87%	0.61%	1.18%	1.50%	0.92%	2.22%	9.73%	4.23%	17.18%	2.24%	1.23%	3.55%	5.14%	2.47%	8.70%	1.40%	0.58%	2.57%	
	41 Asphalt Roofing	2.97%	2.02%	4.11%	0.11%	0.06%	0.18%	0.00%	N/A	N/A	5.91%	1.74%	12.32%	0.05%	0.02%	0.09%	14.59%	5.40%	27.26%	0.00%	N/A	N/A	
	42 Pallets	0.03%	0.02%	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	0.23%	0.08%	0.46%	0.00%	N/A	N/A	
	43 Other Construction Debris	1.36%	0.97%	1.82%	0.06%	0.03%	0.09%	0.00%	0.00%	0.01%	5.99%	2.13%	11.64%	0.39%	0.14%	0.76%	3.61%	1.51%	6.57%	0.00%	N/A	N/A	
	44 Asphalt	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	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	
	Total C&D Waste	17.36%	13.62%	21.45%	2.71%	2.06%	3.45%	3.82%	2.50%	5.40%	49.56%	35.14%	64.01%	4.91%	3.06%	7.15%	56.09%	37.18%	74.13%	7.67%	3.40%	13.47%	

Hazardous Waste																						
45	Paints/Adhesives	0.05%	0.04%	0.07%	0.09%	0.05%	0.14%	0.02%	0.01%	0.05%	0.01%	0.00%	0.01%	0.05%	0.02%	0.10%	0.00%	N/A	N/A	0.07%	0.01%	0.17%
46	Cleaners	0.00%	0.00%	0.00%	0.00%	N/A	N/A	0.01%	0.00%	0.02%	0.00%	N/A	N/A	0.01%	0.00%	0.02%	0.00%	N/A	N/A	0.00%	N/A	N/A
47	Pesticides/Herbicides	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	0.00%	0.01%	0.00%	N/A	N/A	0.00%	N/A	N/A
48	Vehicle & Equipment Fluids	0.02%	0.02%	0.03%	0.00%	N/A	N/A	0.04%	0.01%	0.07%	0.03%	0.01%	0.06%	0.07%	0.03%	0.14%	0.00%	N/A	N/A	0.05%	0.01%	0.11%
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	0.05%	0.04%	0.07%	0.07%	0.06%	0.09%	0.10%	0.07%	0.14%	0.02%	0.01%	0.05%	0.04%	0.02%	0.07%	0.01%	0.00%	0.01%	0.04%	0.01%	0.08%
51	Other Batteries	0.01%	0.00%	0.01%	0.02%	0.01%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.00%	N/A	N/A
52	Fluorescent Light Tubes & Compacts	0.01%	0.00%	0.01%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.02%	0.01%	0.04%	0.01%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	N/A	N/A
53	Gasoline	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	N/A	N/A	0.01%	0.00%	0.01%	0.00%	N/A	N/A	0.00%	N/A	N/A
54	Explosives	0.02%	0.02%	0.03%	0.03%	0.02%	0.04%	0.05%	0.02%	0.10%	0.00%	0.00%	0.00%	0.03%	0.01%	0.06%	0.00%	N/A	N/A	0.01%	0.00%	0.02%
55	Medical Waste	0.08%	0.06%	0.10%	0.06%	0.04%	0.09%	0.05%	0.02%	0.09%	0.00%	0.00%	0.00%	0.15%	0.06%	0.28%	0.00%	N/A	N/A	0.37%	0.09%	0.84%
56	Medicine (Rx Only)	0.03%	0.02%	0.03%	0.04%	0.03%	0.06%	0.03%	0.01%	0.06%	0.02%	0.00%	0.03%	0.02%	0.01%	0.03%	0.00%	N/A	N/A	0.03%	0.01%	0.05%
57	E-Cycle Program	0.05%	0.04%	0.07%	0.00%	0.00%	0.00%	0.08%	0.03%	0.16%	0.00%	0.00%	0.00%	0.29%	0.10%	0.57%	0.00%	N/A	N/A	0.00%	N/A	N/A
58	All Other E-Waste	0.22%	0.17%	0.29%	0.22%	0.14%	0.32%	0.89%	0.41%	1.55%	0.00%	0.00%	0.01%	0.08%	0.04%	0.14%	0.00%	N/A	N/A	0.04%	0.01%	0.08%
59	Other Hazardous Waste	0.02%	0.01%	0.03%	0.05%	0.03%	0.08%	0.00%	N/A	N/A	0.00%	N/A	N/A	0.01%	0.00%	0.02%	0.00%	N/A	N/A	0.00%	N/A	N/A
Total Hazardous Waste		0.57%	0.46%	0.69%	0.60%	0.46%	0.76%	1.28%	0.73%	1.99%	0.10%	0.04%	0.18%	0.78%	0.47%	1.16%	0.01%	0.00%	0.01%	0.59%	0.25%	1.08%
Other Waste																						
60	Tires	0.01%	0.01%	0.01%	0.02%	0.01%	0.04%	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
61	Mattresses/Box Springs	0.51%	0.36%	0.69%	0.00%	N/A	N/A	0.00%	N/A	N/A	1.81%	0.56%	3.74%	0.00%	N/A	N/A	1.94%	0.79%	3.57%	0.00%	N/A	N/A
62	Furniture/Bulky	2.78%	1.95%	3.76%	0.00%	N/A	N/A	0.00%	N/A	N/A	9.47%	3.94%	17.06%	0.00%	N/A	N/A	10.73%	4.14%	19.93%	0.00%	N/A	N/A
63	Small Appliances	0.95%	0.72%	1.21%	1.28%	0.83%	1.82%	0.83%	0.44%	1.35%	1.53%	0.50%	3.11%	0.45%	0.19%	0.81%	0.42%	0.14%	0.83%	0.71%	0.18%	1.60%
64	Textiles and Leather	3.35%	2.84%	3.90%	4.39%	3.80%	5.03%	4.57%	3.40%	5.91%	2.24%	0.83%	4.32%	4.27%	3.19%	5.51%	0.00%	0.00%	0.00%	2.68%	1.61%	4.02%
65	Diapers	3.47%	2.92%	4.07%	5.73%	4.91%	6.61%	4.75%	3.70%	5.93%	0.56%	0.17%	1.17%	2.43%	1.59%	3.44%	0.00%	0.00%	0.00%	3.85%	1.94%	6.37%
66	All Other Waste	4.51%	3.93%	5.13%	4.89%	4.55%	5.24%	4.78%	4.38%	5.20%	0.76%	0.32%	1.39%	6.68%	5.62%	7.83%	1.90%	0.74%	3.60%	9.46%	6.68%	12.67%
67	Liquids	1.25%	1.04%	1.46%	1.36%	1.09%	1.67%	1.53%	1.17%	1.94%	0.59%	0.21%	1.17%	2.14%	1.50%	2.89%	0.00%	0.00%	0.00%	1.97%	1.40%	2.63%
68	Fines	1.38%	1.16%	1.62%	1.93%	1.62%	2.26%	1.98%	1.31%	2.79%	0.02%	0.01%	0.04%	2.08%	1.57%	2.66%	0.00%	N/A	N/A	1.22%	0.76%	1.81%
Total Other Waste		18.21%	16.07%	20.46%	19.60%	18.24%	21.00%	18.45%	16.84%	20.12%	16.97%	9.38%	26.25%	18.05%	16.14%	20.04%	14.99%	5.91%	27.30%	19.90%	16.16%	23.91%
Total		99.99%			99.99%			100.00%			100.00%			100.00%			100.00%			100.00%		