

Standard Waste Generated in Weight for Building/Business Type

<i>Building Type</i>	<i>Pounds per Day</i>	<i>Building Type</i>	<i>Pounds per Day</i>
Apartments	2.5 lbs. Per person or 4 lbs. Per bedroom or 8 lbs. Per unit	Motel	2 lbs. per room
Cafeteria	1 lb. Per meal served	Nursing/Retirement Home	5 lbs. per person
Department Store	75 lbs. Corrugated paper per \$1,000 of sales; 15 lbs. Other waster per \$1,000 of sales (total of 90 lbs. Waste per \$1,000 of sales)	Office	1 lb. per 100 square feet
Fast Food	200 lbs. Corrugated paper per \$1,000 of sales	Restaurant	1.5 lbs. per meal served
Hospital	16 lbs. Per occupied bed	School	0.5 lbs per person without cafeteria 1 lb. per person with cafeteria
Hotel (First Class)	3.2 lbs. per room and 2 lbs. Per meal served	Shopping Mall	2.5 lbs. per 100 square feet
Hotel (Mid-Class)	1.7 lbs. Per room and 1.2 lbs. Per meal served	Supermarket	100 lbs. corrugated paper per \$1,000 of sales; 65 lbs. other waste per \$1,000 or sales (total of 165 lbs. waste per \$1,000 of sales)
Manufacturing	100-399 employees: 3 lbs per person 400-3,000 employees: 7 lbs per person	Warehouse	1 lb. per 100 square feet

Standard Waste Generated in Cubic Yards for Building/Business Type

<i>Classification</i>	<i>Building Type</i>	<i>Waste Generated</i>	<i>Classification</i>	<i>Building Type</i>	<i>Waste Generated</i>
Apartments	Singles or no children	1-1.5 cy per month	Warehouse		Varies with type of activity
	Family	1.5-2 cy per month	Factories		Varies with type of activity
Commercial Buildings	Office	1 cy per 10,000 sq ft per day	Institutions	Hospitals	1 cy per 5 occupied beds per day
	Department Store	1 cy 2,500 sq ft per day		Nursing Homes	1 cy per 15 persons per day
	Shopping Centers	Varies with type of tenant handled		Rest & Retirement Homes	1 cy per 20 persons per day
	Supermarkets	1 cy per 1,250 sq ft per day	Schools	Grade Schools	1 cy per 8 rooms per day
	Restaurants	Varies w/no of meals served & type of food		High Schools	1 cy per 10 rooms per day
	Drugstores	1 cy per 2,000 sq ft per day		Universities	Survey required
	Banks	Survey required			
Hotels & Motels	High Occupancy	.5 cy per room per week & restaurants			
	Average Occupancy	1/6 cy per room per week & restaurants			

Conversion Tables

Conversion Table For Cubic Foot Volume Calculation		One Cubic Yard Equivalent	
Garbage Can 18" diameter x 24" deep	3.6 cubic feet	27 cubic feet	one cubic yard
Garbage Can 16" diameter x 22" deep	2.0 cubic feet	1 cubic yard	equal to 203 gallons
Bushel Basket – Standard	1.24 cubic feet	1 cubic yard	approximately four 55-gallon drums
Barrel (U.S. Standard)	5.08 cubic feet	1 cubic yard	approximately eleven 20-gallon cans
7½ Gallons	1.0 cubic feet	1 cubic yard	approximately seven 30-gallon cans
1 Gallon	0.134 cubic feet		
55 Barrel Oil Drum	7.0 cubic feet		

To find container capacity in CYs

Formula: $\frac{L \times W \times H}{27}$	=	Cubic Yards
L	=	Length (in feet)
W	=	Width (in feet)
H	=	Side Height (in feet)

Estimated tonnage for containers and rear loaders

2 cy container	=	.12 tons	12 cy R/L	=	2 tons
4 cy container	=	.24 tons	15 cy R/L	=	3 tons
6 cy container	=	.36 tons	20 cy R/L	=	4 tons
8 cy container	=	.48 tons	30 cy R/L	=	5 tons
10 cy container	=	.61 tons	40 cy R/L	=	7 tons
Estimated tonnage for compactor: Compactor size in cubic yards÷the compaction ratio (4) = compacted yards		Compacted yards÷3.3 = Tonnage			

Matrix

Business Type	Pounds per Yard	Matrix	Business Type	Pounds per Yard	Matrix
Apartments	100	10	Hotel (3rd Class)	80	8
Auto Dealer	150	15	Post Office	300	30
Commercial Buildings	75	7.5	Printing	200	20
Construction Debris	400	40	Restaurant	245	24.5
Convenience Store	95	9.5	Retail	105	10.5
Department Store	115	11.5	Retirement Home	75	7.5
Drug Store	115	11.5	Schools	90	9
Fast Food	180	18	Supermarket	245	24.5
Furniture Store	80	8	Tavern/Bar	160	16
Gas Station	75	7.5	Trailer Park	100	10
Hospital	130	13	Warehouse	100	10
Hotel	120	12	Wholesale	90	9

Material Conversion Rates (Weight and Volume) for Construction

Material	Lbs/CY	Tons/CY	CY/Tons
Wood	300 lbs/cy	0.15 tons/cy	6.7 cy/ton
Cardboard	100 lbs/cy	0.05 tons/cy	20 cy/ton
Drywall	500 lbs/cy	0.25 tons/cy	4 cy/ton
Concrete/Asphalt	1400 lbs/cy	0.7 tons/cy	1.4 cy/ton
Mixed Waste	350 lbs/cy	0.175 tons/cy	5.7 cy/ton

Estimated Project Waste Generated fro Construction

Type of Project	Waste Generated: Pounds/Square Foot
Residential Construction (New)	3.71
Non Residential Construction (New)	3.89
Residential Demolition	115.00
Non Residential Demolition	155.00
Residential Renovation	12.03