

Homi R. Mullan

Cell: +91-9820811308; Tel.(091) 022-3865290

Email: homi-mullan@hotmail.com

HOSPITAL & MEDICAL WASTE MANAGEMENT CONSULTANT  
(ENVIRONMENT, ENGINEERING & TRAINING)



**Waste Quantity (by Volume & Weight) Estimation Data Tables.**

**Table 1: Container Size & Volume**

Description Of Container.	SIZE IN INCHES.		SIZE IN METERS.		VOLUME	VOLUME	VOLUME
	diameter.	height.	diameter.	height.	CU. FEET	CU. METER	LITRE
	1	1	0.0254	0.0254	1	0.0283	28.3
<b>Garbage Can</b>	16	22	0.4064	0.5588	2	0.0566	<b>56.6</b>
	18	24	0.4572	0.6096	3.6	0.10188	<b>101.9</b>
	21	25.5	0.5334	0.6477	4.1	0.11603	<b>116.0</b>
<b>Oil Drum</b>	55	gallon			<b>7</b>	0.1981	<b>198.1</b>
Bushel (US Standard)					1.25	0.03538	<b>35.4</b>
Barrel (U.S. Standard)							
Gallon (U.S. Standard)					0.134	0.00379	<b>3.8</b>

Reference to: Incinerator Institute of America Waste Classifications.

**Type 0:** TRASH: Highly Combustible Waste, Paper, Wood, Cardboard, Cartons, including up to 10% treated papers, Plastic or rubber scraps; commercial and industrial sources.

**Type 1:** RUBBISH: Combustible Waste, Paper, Wood, Cardboard, Cartons, combustible floor sweepings; domestic, commercial and industrial sources.

**Type 2:** REFUSE: Rubbish and garbage; residential sources.

**Type 3:** GARBAGE: Animal and Vegetable wastes; restaurants, hotels, markets; Institutional and commercial and club sources.

**Type 4:** ANIMAL SOLIDS AND ORGANIC WASTES: Carcasses, Organs, Solid Organic wastes; Hospital, Laboratory, abattoirs, animal pounds and similar sources.

**Table 2: Waste Density and Weight Carrying Capacity of Containers**

Waste Description	Density in lb./cu.ft	Density in kg./cu..mtr	waste in 55 gallon drum (kg.)	waste in can size 16"x22" (kg.)	waste in can size 18"x24" (kg.)	waste in can size 21"x25.5" (kg.)
		1	16.08	3.2		
Paper (loose)	7	112.56	22.3	6.37	11.47	13.06
Wood (dry)	15	241.20	47.8	13.65	24.57	27.99
Sawdust	12	192.96	38.2	10.92	19.66	22.39
Magazines & Packed paper	50	804.00	159.3	45.51	81.91	93.29
<b>Garbage (70% moisture)</b>	45	723.60	143.3	40.96	73.72	83.96
Type 0 waste(paper, wood) 10% moisture	<b>8</b>	<b>128.64</b>	25.5	7.28	13.11	14.93
Type 1 waste(paper, wood) 25% moisture	<b>10</b>	<b>160.80</b>	31.9	9.10	16.38	18.66
Type 2 waste (Refuse) 50% moisture	<b>20</b>	<b>321.60</b>	63.7	18.20	32.76	37.32
Type 3 waste(garbage) 70% moisture	<b>35</b>	<b>562.80</b>	111.5	31.85	57.34	65.30
Type 4 waste(Pathology) 85% moisture	<b>55</b>	<b>884.40</b>	175.2	50.06	90.10	102.62