

VOLUME-TO-WEIGHT CONVERSION FACTORS

Materials:	Volume *	Weight in Pounds *
MIXED MUNICIPAL SOLID WASTE (MSW)		
MSW, (uncompacted)	One cubic yard	150-300 (225 Average)
MSW, (compacted in truck)	One cubic yard	500-1,000
MSW, compacted in packer truck	3.3 cubic yards	2000 (Average)
C & D; Clean Fill		
Concrete	One cubic yard	860
Asphalt Paving	One cubic yard	773
Brick, Ceramic, Porcelain	One cubic yard	860
Roofing	One cubic yard	731
Wood	One cubic yard	169

SPECIAL WASTE		
Industrial Waste (Similar to MSW and C & D categories)		
Friable Asbestos/other Regulated Asbestos (Similar different type of C & D)	One cubic yard	Varies
Infectious Waste (Similar to MSW categories)		
Ash	One cubic yard	945-1080
PCS (Petroleum Contaminated Soils)	One cubic yard	929
Offal (animal and fish scraps)	One cubic yard	1350
Sewage Sludge dry	One cubic yard	945
Sewage Sludge wet	One cubic yard	1215
Other Sludges (dry-wet)	One cubic yard	945-1215

Other Materials		
Vegetative--Food Waste	One cubic yard	1,070
Yard Waste, raw, mulched (either for composting or land application)	One cubic yard	350
Yard Waste, finished compost	One cubic yard	1,400
Brush, loose	One cubic yard	300
Scrap Tire-Passenger**	One passenger	22.5
Scrap Tire-Truck**	One truck tire	60
Used Motor Oil***	One gallon	8
Antifreeze***	One gallon	8
Lead Acid Batteries****	One vehicle battery	40

* Formula for converting cubic yards to tons:
 $\# \text{ of cubic yards} \times \text{weight in pounds} \div 2000 \text{ pounds} = \text{tons}$

**Formula for converting tires to tons:
 $\# \text{ of tires} \times \text{weight in pounds} \div 2000 \text{ pounds} = \text{tons}$

***Formula for converting gallons to tons:
 $\# \text{ of gallons} \times \text{weight in pounds} \div 2000 \text{ pounds} = \text{tons}$

****Formula for converting # of Lead Acid Batteries to tons:
 $\# \text{ of batteries} \times \text{weight in pounds} \div 2000 \text{ pounds} = \text{tons}$

** Gaylord size most commonly used is 40" x 48" x 36"; weight of empty Gaylord approx. 45 pounds
 One cubic foot = 7.5 gallons or 1728 cubic inches
 One cubic yard = 36" x 36" x 36" or 46,656 cubic inches
 One cubic yard = 202 gallons or 27 cubic feet
 18 bushel hamper = 0.83 cubic yards

SOURCES: National Recycling Coalition Measurement Standards and Reporting Guidelines; EPA; FEEO and CIWMB 2006

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Materials:	Volume *	Weight in Pounds *
PAPER:		
Mixed Paper Grades/Junk Mail, loose	One cubic yard	875
Corrugated Cardboard (OCC), baled	One cubic yard	1,100
Corrugated Cardboard (OCC), baled	30" x 60" x 48"	900
Corrugated Cardboard (OCC), compacted	One cubic yard	500
Corrugated Cardboard (OCC), flattened, loose	40 cubic yard roll-off	2000
Newsprint (ONP), loose	One cubic yard	600
Newsprint (ONP), compacted	One cubic yard	860
Newsprint (ONP)	12" stack	35
Office paper	40" x 48" x 40"	650
Office paper	One cubic yard	400
Phone Books	12" stack	25
CONTAINERS:		
Mixed PET, dairy, whole loose	One cubic yard	30 (Average)
Mixed PET, dairy & other rigid, whole, loose	One cubic yard	40 (Average)
PET (soda bottles), whole, loose	One cubic yard	35
PET (soda bottles), whole, loose	Gaylord	45
PET (soda bottles), whole, baled	30" x 48" x 60"	600
HDPE (dairy only), baled	30" x 48" x 60"	650
HDPE (mixed), baled	30" x 48" x 60"	750
HDPE (whole) uncompacted	One cubic yard	24
HDPE (whole) compacted	One cubic yard	270
Aluminum Containers, whole	One cubic yard	62
Aluminum Containers, flattened	One cubic yard	250
Steel Cans, whole	One cubic yard	150
Steel Cans, flattened	One cubic yard	850
Glass Whole Containers	One cubic yard	1,000
Glass Whole Container	Full grocery bag	15
OTHER MATERIALS		
Scrap Metal	One cubic yard	225
Scrap Metal—Used Major Appliances (average of all types and brands)	One appliance	150
Pallets	One, average size	35
Pallets	Five cubic yards	2000
Electronic Scrap	CRT (Computer Monitor)	50
Electronic Scrap	TV	90
Plastic Film, baled	30" x 42" x 48"	1,100
Plastic Film, baled	semi-trailer load	44,000
Other Plastics:		
Mixed rigid, no film, granulated	Gaylord	750
Mixed rigid and densified by mixed plastic mold technology	One cubic foot	average 60
PS, granulated or peanuts	One cubic yard	9
Household Hazardous Waste	One gallon	10
Latex Paint	One gallon	10.9
Mixed Textiles, loose	One cubic yard	240
Mixed Textiles, baled	One cubic yard	480
Mixed Textiles, baled	31" x 45" x 60"	885
Carpet Padding	One cubic yard	62

* Formula for converting cubic yards to tons:
 # of cubic yards x weight in pounds ÷ 2000 pounds = tons