

1 MATERIALS CONVERSION WORKSHEET - SEPARATED MATERIALS (Total Tons Generated)

This worksheet lists materials typically generated from a construction or demolition project and provides formulas for converting common units (i.e. cubic yards, square feet and board feet) to tons. It can be used for preparing your WRRP and Summary Report, which require that quantities be provided in tons. Step 1 - For your WRRP, enter estimated quantity for each applicable material in Column I, based on units of cubic yards (cy), cubic foot (cu ft), square feet (sq ft), or board foot (bd ft). For your Summary Report, use the actual quantities, based on weight tags, gate receipts, or other documents. Step 2 - Multiply by Tons/Unit figure listed in Worksheet Column II. Enter the result for each material in Column III. Step 3 - Enter quantities for each separated material from Column C on the Worksheet into the corresponding section of Column A of your WRRP or Summary Report.

<u>Material Category</u>	<u>Column I Volume</u>	<u>Units</u>	<u>x</u>	<u>Column II Tons/unit</u>	<u>=</u>	<u>Column III Tons</u>
Asphalt/Concrete	Asphalt (broken)	_____	cy	x	.07	= _____
	Concrete (broken)	_____	cy	x	.09	= _____
	Concrete (solid slab)	_____	cy	x	1.2975	= _____
Brick/Masonry/Tile	Brick (broken)	_____	cy	x	.7	= _____
	Brick (whole, palletized)	_____	cy	x	1.512	= _____
	Masonry Block (broken)	_____	cy	x	.6	= _____
	Tile	_____	sq ft	x	.00175	= _____
Building Materials (doors, windows, cabinets, etc.)	_____	cy	x	.15	= _____	
Cardboard (flat)	_____	cy	x	.05	= _____	
Carpet	(by square foot)	_____	sq ft	x	.0005	= _____
	(by cubic yard)	_____	cy	x	.3	= _____
Carpet Padding/Foam	_____	sq ft	x	.000125	= _____	
Ceiling Tiles	(whole - palletized)	_____	sq ft	x	.0003	= _____
	(loose)	_____	cy	x	.0875	= _____
² Dirt	_____	cu ft	x	.3852	= _____	
Drywall (new or used)	1/2" (by square foot)	_____	sq ft	x	.0008	= _____
	5/8" (by square foot)	_____	sq ft	x	.00105	= _____
Drywall (demo/used)	_____	cy	x	.25	= _____	
Garbage/Trash	_____	cy	x	.175	= _____	
Landscape Debris (brush trees, etc.)	_____	cy	x	.15	= _____	
Scrap Metal	_____	cy	x	.453	= _____	
Unpainted Wood & Pallets	(by board foot)	_____	bd ft	x	.001375	= _____
	(by cubic yard)	_____	cy	x	.15	= _____
³ Other	_____		x		= _____	

cy = cubic yards cu ft = cubic foot sq ft = square foot bd ft = board foot

Total Tons = _____

Sources:

¹ City of Oakland PWD

² California Integrated Waste Management Board (factor averaged between 5 different types of dirt and converted to tons for consistency)

³ For additional conversion factors go to <http://www.ciwmb.ca.gov/iglibrary/dsg/apndxi.htm#Conversion>