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| --- | --- | --- |
| **Volume-to-Weight Conversions for Recyclable Materials** |  |  |
|  |  | **for use with the Municipal Recycling Data Sheet** |  |  |
| **Material** | **Density** | **Sources** |  |
| **Paper** |   |   |   |  |
|   | *Newspaper* |  |  |  |
|   |  | Loose, unbaled | 445 pounds / cubic yard | 1,2,3 |  |
|   |  | Compacted | 800 pounds / cubic yard | 2,3 |  |
|   |  | Hand stacked | 35 pounds / 12 inch stack | 2,3 |  |
|   | *Corrugated Cardboard* |   |   |  |
|   |  | Loose, unbaled | 200 pounds / cubic yard | 1,2,3 |  |
|   |  | Compacted | 460 pounds / cubic yard | 2,3 |  |
|   | *Other Paper* |   |   |  |
|   |  | Telephone Books | 250 pounds / cubic yard | 4 |  |
|   |  | Mixed Paper | 490 pounds / cubic yard | 1,3 |  |
|   |  |   |   |   |  |
| **Containers** |   |   |  |
|   | *Commingled* |   |   |  |
|   |  | Cans, Glass & Plastic | 180 pounds / cubic yard | 1,2,3 |  |
|   |  | Cans & Glass | 270 pounds / cubic yard | 1,2,3 |  |
|   | *Glass* |   |   |  |
|   |  | Whole Bottles | 620 pounds / cubic yard | 1,2,3 |  |
|   |  | Crushed-semi (manually) | 1,175 pounds / cubic yard | 2,3 |  |
|   |  | Mechanically Crushed | 1,840 pounds / cubic yard | 2,3 |  |
|   | *Steel/ Tin Cans* |   |   |  |
|   |  | Whole | 150 pounds / cubic yard | 2,3 |  |
|   |  | Flattened | 850 pounds / cubic yard | 2,3 |  |
|   | *Aluminum Cans* |   |   |  |
|   |  | Whole | 60 pounds / cubic yard | 1,2,3 |  |
|   |  | Flattened | 225 pounds / cubic yard | 2,3 |  |
|   | *Plastics* |   |   |  |
|   |  | PET #1 - whole | 35 pounds / cubic yard | 1,2,3 |  |
|   |  | HDPE #2 - whole | 25 pounds / cubic yard | 3 |  |
|   |  | Plastics #3 - #7 - whole | 50 pounds / cubic yard | 3 |  |
|   |  | All Plastics: #1 - #7 - whole | 38 pounds / cubic yard | 2 |  |
|   |  |   |   |   |  |
| **Miscellaneous materials** |   |   |  |
|   |  | White goods (appliances) | 300 lb / cy or 170 each on average | 4 |  |
|   |  | Textiles | 175 pounds / cubic yard | 4 |  |
|   |  | CRTs/Computers | 50 lbs each (whole on average) | 4 |  |
| **Organics** - Weight Conversions |   |   |  |
|   |  | Grass Clippings | 667 pounds / cubic yard | 4 |  |
|   |  | Leaves | 400 pounds / cubic yard | 4 |  |
|   |  | Brush | 500 pounds / cubic yard | 4 |  |
|   |  | Unfinished compost | 1,500 pounds / cubic yard | 4 |  |
|   |  | Finished compost | 1,350 pounds / cubic yard | 4 |  |
| **Organics** - Volumetric Conversions |   |   |  |
|   |  | Grass Clippings | 3 cubic yards/ton | 4 |  |
|   |  | Leaves | 5 cubic yards/ton | 4 |  |
|   |  | Brush | 4 cubic yards/ton | 4 |  |
| **Hazardous Household Products (HHP)** |   |   |  |
|   |  | Auto batteries |  39 lbs each | 5 |  |
|   |  | Batteries (household) | 40 pounds / 5 gallon pail | 4 |  |
|   |  | Oil filters | 250 pounds / 55 gallon drum | 4 |  |
|   |  | Paint (boxed) | 690 pounds / cy box | 4 |  |
|   |  | Paint (bulk packed) | 450 pounds / 55 gallon drum | 4 |  |
| **Mercury Containing Products (MCP)** |  |  |  |
|   |  | Fluorescent lamps | 0.5 pounds / four foot lamp | 4 |  |
|   |  | U-Tube | report as 4 linear feet each |  |  |
|   |  | Circular Bulb | report as 4 linear feet each |  |  |
|   |  | Compact Fluorescent Light Bulb | report as 4 linear feet each |  |  |
|   |  | HID Bulbs | report as 8 linear feet each |  |  |
|   |   |   |   |   |  |
| Sources |  |  |  |  |
| 1. California Integrated Waste Management Board, data from CalRecovery report (w/Tellus) of 1991 |  |  |
| 2. National Recycling Coalition, data from 1998 |  |  |  |
| 3. Information from other government sources includes OR & VA Departments of Environmental Quality, NJ Department of Environmental Protection, HI documentation |  |
|  | as well as US Navy facility guidance documents and the United States Environmental Protection Agency. |  |  |
| 4. DEP conversion rate from previous research |  |  |  |
| 5. From EPA and Waste AgeMassachusetts |  |  |  |
|  |  |  |  |  |  |
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