



(Version 8, 8/06)

The emission factors presented in this table reflect national average landfill gas recovery practices and transportation distances.

### Greenhouse Gas Emission Factors (MTCO<sub>2</sub>E per short ton)

Material	Source Reduction	Recycling	Landfilling, National Average	Landfilling, No Recovery	Landfilling, Flaring	Landfilling, Energy Recovery	Combustion	Composting
Aluminum Cans	-8.23	-13.57	0.04	0.04	0.04	0.04	0.06	N/A
Steel Cans	-3.18	-1.79	0.04	0.04	0.04	0.04	-1.53	N/A
Copper Wire	-7.34	-4.92	0.04	0.04	0.04	0.04	0.05	N/A
Glass	-0.57	-0.28	0.04	0.04	0.04	0.04	0.05	N/A
HDPE	-1.79	-1.39	0.04	0.04	0.04	0.04	0.93	N/A
LDPE	-2.27	-1.69	0.04	0.04	0.04	0.04	0.93	N/A
PET	-2.09	-1.54	0.04	0.04	0.04	0.04	1.08	N/A
Corrugated Box	-5.59	-3.11	0.4	1.48	-0.22	-0.49	-0.65	N/A
Magazines	-8.65	-3.07	-0.3	0.14	-0.55	-0.66	-0.47	N/A
Newspaper	-4.87	-2.79	-0.87	-0.47	-1.08	-1.17	-0.74	N/A
Office Paper	-8	-2.85	1.94	3.83	0.87	0.4	-0.62	N/A
Phonebook	-6.32	-2.66	-0.87	-0.47	-1.08	-1.17	-0.74	N/A
Textbook	-9.17	-3.11	1.94	3.83	0.87	0.4	-0.62	N/A
Dimensional Lumber	-2.02	-2.46	-0.49	0.07	-0.81	-0.95	-0.78	N/A
Fiberboard	-2.22	-2.47	-0.49	0.07	-0.81	-0.95	-0.78	N/A
Food Waste	N/A	N/A	0.72	1.43	0.32	0.15	-0.18	-0.2
Yard Waste	N/A	N/A	-0.22	-0.03	-0.68	-0.79	-0.22	-0.2
Grass	N/A	N/A	-0.01	0.22	-0.15	-0.21	-0.22	-0.2
Leaves	N/A	N/A	-0.18	-0.29	-0.99	-1.1	-0.22	-0.2
Branches	N/A	N/A	-0.49	0.07	-0.81	-0.95	-0.22	-0.2
Mixed Paper Board	N/A	-3.54	0.35	1.38	-0.23	-0.49	-0.65	N/A
Residential	N/A	-3.54	0.25	1.23	-0.3	-0.54	-0.65	N/A
Mixed Paper - Office	N/A	-3.42	0.47	1.48	-0.1	-0.36	-0.59	N/A

Mixed Metals	N/A	-5.26	0.04	0.04	0.04	0.04	-1.06	N/A
Mixed Plastics	N/A	-1.49	0.04	0.04	0.04	0.04	0.99	N/A
Mixed Recyclables	N/A	-2.91	0.14	0.95	-0.3	-0.5	-0.61	N/A
Mixed Organics	N/A	N/A	0.24	0.64	-0.23	-0.37	-0.2	-0.2
MixedMSW	N/A	N/A	0.42	1.59	0.15	-0.08	-0.12	N/A
Carpets	-3.99	-7.18	0.04	0.04	0.04	0.04	0.39	N/A
PCs	-55.47	-2.26	0.04	0.04	0.04	0.04	-0.2	N/A
ClayBricks	-0.28	N/A	0.04	0.04	0.04	0.04	N/A	N/A
Aggregate	N/A	-0.01	0.04	0.04	0.04	0.04	N/A	N/A
FlyAsh	N/A	-0.87	0.04	0.04	0.04	0.04	N/A	N/A
Tires	-1.09	-1.82	0.04	0.04	0.04	0.04	0.05	N/A

Note that the emission factors represent the GHG emissions associated with managing 1 short ton of MSW in the manner indicated. : GHG savings should be calculated by comparing the emissions associated with the alternative scenario with the emissions associated with the baseline scenario, as opposed to simply multiplying the quantity by an emission factor. For instance, the GHG savings of recycling 1 short ton of aluminum instead of landfilling it would be calculated as follows:

$$(1 \text{ short ton} \times -7.4 \text{ MTCO}_2\text{E/short ton}) - (1 \text{ short ton} \times 0.02\text{MTCO}_2\text{E/short ton}) = -7.42 \text{ MTCO}_2\text{E}$$