

WARM: Per Ton Estimates of Energy Use for Alternative Management Scenarios

Material	Energy Savings per Ton of Material Source Reduced (million BTU)	Energy Savings per Ton of Material Recycled (million BTU)	Energy Savings per Ton of Material Landfilled (million BTU)	Energy Savings per Ton of Material Combusted (million BTU)	Energy Savings per Ton of Material Composted (million BTU)	Energy Savings per Ton of Material Anaerobically Digested (million BTU)
Aluminum Cans	(89.69)	(152.76)	0.27	0.60	NA	NA
Aluminum Ingot	(126.95)	(113.85)	0.27	0.60	NA	NA
Steel Cans	(29.88)	(19.97)	0.27	(17.14)	NA	NA
Copper Wire	(122.36)	(82.59)	0.27	0.54	NA	NA
Glass	(6.90)	(2.13)	0.27	0.50	NA	NA
HDPE	(61.21)	(50.20)	0.27	(19.34)	NA	NA
LDPE	(71.02)	NA	0.27	(19.24)	NA	NA
PET	(50.26)	(31.87)	0.27	(10.13)	NA	NA
LLDPE	(66.37)	NA	0.27	(19.30)	NA	NA
PP	(66.59)	NA	0.27	(19.31)	NA	NA
PS	(74.99)	NA	0.27	(17.40)	NA	NA
PVC	(48.34)	NA	0.27	(7.46)	NA	NA
PLA	(30.69)	NA	0.27	(7.94)	0.58	NA
Corrugated Containers	(22.32)	(15.07)	(0.25)	(6.64)	NA	NA
Magazines/third-class mail	(33.23)	(0.69)	0.04	(4.89)	NA	NA
Newspaper	(36.46)	(16.49)	0.05	(7.53)	NA	NA
Office Paper	(36.60)	(10.08)	(0.53)	(6.40)	NA	NA
Phonebooks	(40.20)	(11.93)	0.05	(7.53)	NA	NA
Textbooks	(35.60)	(1.03)	(0.53)	(6.40)	NA	NA
Dimensional Lumber	(3.67)	0.59	0.23	(7.88)	NA	NA
Medium-density Fiberboard	(11.92)	0.86	0.26	(7.88)	NA	NA
Food Waste (non-meat)	(7.20)	NA	(0.02)	(2.06)	0.58	(1.40)
Food Waste (meat only)	(43.60)	NA	(0.02)	(2.06)	0.58	(1.40)
Beef	(63.88)	NA	(0.02)	(2.06)	0.58	(1.40)
Poultry	(26.48)	NA	(0.02)	(2.06)	0.58	(1.40)
Grains	(5.64)	NA	(0.02)	(2.06)	0.58	(1.40)
Bread	(6.52)	NA	(0.02)	(2.06)	0.58	(1.40)
Fruits and Vegetables	(5.07)	NA	(0.02)	(2.06)	0.58	(1.40)
Dairy Products	(14.27)	NA	(0.02)	(2.06)	0.58	(1.40)
Yard Trimmings	0.00	NA	0.14	(2.48)	0.58	NA
Grass	0.00	NA	0.19	(2.48)	0.58	NA
Leaves	0.00	NA	0.16	(2.48)	0.58	NA
Branches	0.00	NA	(0.00)	(2.48)	0.58	NA
Mixed Paper (general)	(29.44)	(20.45)	(0.21)	(6.67)	NA	NA
Mixed Paper (primarily residential)	(28.66)	(20.45)	(0.19)	(6.64)	NA	NA
Mixed Paper (primarily from offices)	(34.64)	(20.85)	(0.18)	(6.11)	NA	NA
Mixed Metals	(50.61)	(65.99)	0.27	(10.99)	NA	NA
Mixed Plastics	(54.42)	(38.84)	0.27	(13.63)	NA	NA
Mixed Recyclables	NA	(14.82)	(0.07)	(6.58)	NA	NA
Food Waste	(14.56)	NA	(0.02)	(2.06)	0.58	(1.40)
Mixed Organics	NA	NA	0.06	(2.26)	0.58	NA
Mixed MSW	NA	NA	(0.07)	(4.64)	NA	NA
Carpet	(91.06)	(21.47)	0.27	(7.19)	NA	NA
Personal Computers	(956.74)	(29.15)	0.27	(6.27)	NA	NA
Clay Bricks	(5.13)	NA	0.27	NA	NA	NA
Concrete	NA	(0.11)	0.27	NA	NA	NA
Fly Ash	NA	(4.77)	0.27	NA	NA	NA
Tires	(71.71)	(3.56)	0.27	(28.52)	NA	NA
Asphalt Concrete	(1.68)	(1.22)	0.27	NA	NA	NA
Asphalt Shingles	(3.13)	(2.43)	0.27	(8.53)	NA	NA
Drywall	(3.56)	(2.62)	0.27	NA	NA	NA
Fiberglass Insulation	(4.73)	NA	0.27	NA	NA	NA
Vinyl Flooring	(10.73)	NA	0.27	(7.46)	NA	NA
Wood Flooring	(14.45)	NA	0.27	(10.39)	NA	NA

WARM: Per Ton Estimates of GHG Emissions for Baseline and Alternative Management Scenarios

Material	GHG Emissions per Ton of Material Source Reduced (MTCO₂E)	GHG Emissions per Ton of Material Recycled (MTCO₂E)	GHG Emissions per Ton of Material Landfilled (MTCO₂E)	GHG Emissions per Ton of Material Combusted (MTCO₂E)	GHG Emissions per Ton of Material Composted (MTCO₂E)	GHG Emission per Ton of Material Anaerobically Digested
Aluminum Cans	(4.91)	(9.11)	0.02	0.04	NA	NA
Aluminum Ingot	(7.47)	(7.19)	0.02	0.04	NA	NA
Steel Cans	(3.06)	(1.81)	0.02	(1.57)	NA	NA
Copper Wire	(7.01)	(4.71)	0.02	0.03	NA	NA
Glass	(0.53)	(0.28)	0.02	0.03	NA	NA
HDPE	(1.47)	(0.87)	0.02	1.23	NA	NA
LDPE	(1.80)	NA	0.02	1.24	NA	NA
PET	(2.20)	(1.12)	0.02	1.21	NA	NA
LLDPE	(1.58)	NA	0.02	1.23	NA	NA
PP	(1.55)	NA	0.02	1.23	NA	NA
PS	(2.50)	NA	0.02	1.60	NA	NA
PVC	(1.95)	NA	0.02	0.64	NA	NA
PLA	(2.09)	NA	(1.64)	(0.97)	(0.15)	NA
Corrugated Containers	(5.60)	(3.12)	0.23	(0.51)	NA	NA
Magazines/third-class mail	(8.60)	(3.07)	(0.39)	(0.37)	NA	NA
Newspaper	(4.77)	(2.75)	(0.82)	(0.58)	NA	NA
Office Paper	(7.97)	(2.86)	1.22	(0.49)	NA	NA
Phonebooks	(6.22)	(2.64)	(0.82)	(0.58)	NA	NA
Textbooks	(9.07)	(3.11)	1.22	(0.49)	NA	NA
Dimensional Lumber	(2.03)	(2.46)	(1.01)	(0.61)	NA	NA
Medium-density Fiberboard	(2.23)	(2.47)	(0.88)	(0.61)	NA	NA
Food Waste (non-meat)	(0.76)	NA	0.54	(0.14)	(0.18)	(0.06)
Food Waste (meat only)	(15.10)	NA	0.54	(0.14)	(0.18)	(0.06)
Beef	(30.05)	NA	0.54	(0.14)	(0.18)	(0.06)
Poultry	(2.47)	NA	0.54	(0.14)	(0.18)	(0.06)
Grains	(0.62)	NA	0.54	(0.14)	(0.18)	(0.06)
Bread	(0.67)	NA	0.54	(0.14)	(0.18)	(0.06)
Fruits and Vegetables	(0.44)	NA	0.54	(0.14)	(0.18)	(0.06)
Dairy Products	(1.74)	NA	0.54	(0.14)	(0.18)	(0.06)
Yard Trimmings	NA	NA	(0.18)	(0.18)	(0.15)	NA
Grass	NA	NA	0.13	(0.18)	(0.15)	NA
Leaves	NA	NA	(0.52)	(0.18)	(0.15)	NA
Branches	NA	NA	(0.51)	(0.18)	(0.15)	NA
Mixed Paper (general)	(6.75)	(3.53)	0.13	(0.51)	NA	NA
Mixed Paper (primarily residential)	(6.65)	(3.53)	0.07	(0.51)	NA	NA
Mixed Paper (primarily from offices)	(7.96)	(3.59)	0.17	(0.47)	NA	NA
Mixed Metals	(3.70)	(4.34)	0.02	(1.02)	NA	NA
Mixed Plastics	(1.92)	(1.02)	0.02	1.22	NA	NA
Mixed Recyclables	NA	(2.82)	0.04	(0.44)	NA	NA
Food Waste	(3.66)	NA	0.54	(0.14)	(0.18)	(0.06)
Mixed Organics	NA	NA	0.20	(0.16)	(0.16)	NA
Mixed MSW	NA	NA	0.35	(0.07)	NA	NA
Carpet	(3.82)	(2.36)	0.02	1.08	NA	NA
Personal Computers	(50.49)	(2.50)	0.02	(0.19)	NA	NA
Clay Bricks	(0.27)	NA	0.02	NA	NA	NA
Concrete	NA	(0.01)	0.02	NA	NA	NA
Fly Ash	NA	(0.87)	0.02	NA	NA	NA
Tires	(4.28)	(0.38)	0.02	0.51	NA	NA
Asphalt Concrete	(0.11)	(0.08)	0.02	NA	NA	NA
Asphalt Shingles	(0.19)	(0.09)	0.02	(0.35)	NA	NA
Drywall	(0.21)	0.03	(0.06)	NA	NA	NA
Fiberglass Insulation	(0.38)	NA	0.02	NA	NA	NA
Vinyl Flooring	(0.61)	NA	0.02	(0.33)	NA	NA
Wood Flooring	(4.05)	NA	(0.86)	(0.77)	NA	NA