

**Environmental Metrics Report on Discarded Books Sent to Better World Books
FY2016**

Account	End Destination of Book	Total Books ReUsed or Recycled	Books (lbs)	Trees	Water (g)	Green-house Gases (lbs)	Landfill Space (cu yd)	Electricity (kwh)
University of Maine-Ft Kent: Blake Library		260	355	3	2,582	555		858
	Recycled	112	153	1	650	235		363
	Reused	148	202	2	1,932	320		495
Recycled Totals		112	153	1	650	235		363
Reused Totals		148	202	2	1,932	320		495
Grand Totals		260	355	3	2,582	555		858

EXPLANATION OF DATA VALUES

REUSED BOOKS – This category is made up of the sum of books sold and donated. The reuse of these books is considered waste prevention. Reducing the volume of waste we create results in limiting the environmental impact of disposal or recycling¹.

RECYCLED BOOKS – Books we deem unsalable and not appropriate for donation to our participating literacy partners. Recycling books is termed waste reduction¹. Our recyclers report that the efficiency of recycling a book yields 97% of that book as usable fiber.

POUNDS OF BOOKS – The average weight of the outbound books that Better World Books has processed is 1.37 pounds. This average weight is multiplied by the number of books categorized as ReUsed. Recycled books are multiplied by the efficiency rating of generating recycled fiber (see Usable Fiber below).

TREES – The number of typical trees assumes a mix of hardwoods and softwoods 6-8 inches in diameter and 40 feet tall. The number of trees saved per ton of 100% recycled fiber produced is twenty four².

WATER (g) - There are 8,750 gallons of water saved per ton of paper produced when comparing 100% forest fiber sources to 100% postconsumer fiber².

METHANE & GREENHOUSE GASES (lbs) – Landfilling produces .725 pounds of methane per book³. One way of measuring the impact of greenhouse gases is by assigning them a Global Warming Potential (GWP). The concept of a global warming potential (GWP) was developed to compare the ability of each greenhouse gas to trap heat in the atmosphere relative to another gas. The definition of a GWP for a particular greenhouse gas is the ratio of heat trapped by one unit mass of the greenhouse gas to that of one unit mass of CO₂ over a specified time period*. Methane has a GWP of 25 which makes this particular emission a greater cause for concern than CO₂. The total greenhouse gases, including Methane saved in production of one ton of paper from 100% postconsumer fiber versus 100% forest fiber sources is 2108 pounds².

LANDFILL SPACE (cu yd) – 1 ton of books takes up 3.3 cubic yards of space in a landfill². The total pounds divided by 2000 equals total tons. Tonnage multiplied by 3.3 cubic yards and multiplied again by the 97% efficiency rating of postconsumer content paper yields the total cubic yards of space conserved.

Kwhs – There are 4893 Kilowatt Hours of electricity saved per ton of paper produced when comparing 100% forest fiber sources to 100% postconsumer fiber². The conversion factor utilized was 1 Btu = 0.00029307108333 kilowatt hour.

Tons of Usable Fiber – Our recyclers report that 97% of the books that we send are turned into usable fiber. This 3% of refuse is used in calculation of any pertinent metrics. The total pounds of Recycled books divided by 2000 yield the total tonnage of usable fiber.

1. Environmental Protection Agency. Pollution Prevention Act of 1990. Retrieved October 27, 2008 from <http://www.ofee.gov>.

2. Environmental impact estimates were made using the Environmental Defense Fund Paper Calculator. For more information visit <http://www.papercalculator.org>

3. Borealis Centre for Trade Environment and Trade Research. Findings from the U.S. Book Industry: Environmental Trends and Climate Impacts. Retrieved July 10, 2008, from http://www.greenpressinitiative.org/documents/trends_summary.pdf.

*Environmental Protection Agency. High Global Warming Potential (GWP) Gases. [Online] Retrieved October 28, 2007 from <http://www.epa.gov/highgwp/scientific.html>

**Sales From Books Discarded to Better World Books
FY2016**

Sales Summary						
Year	Month	Gross Sales	Market Commission	Net Sales	NPLP Commission	Client Commission
2016	(1 months)	\$0.40	\$0.06	\$0.34	\$0.02	\$0.05
23213-003L	July	\$0.40	\$0.06	\$0.34	\$0.02	\$0.05
	Totals	\$0.40	\$0.06	\$0.34	\$0.02	\$0.05

**Better World Books Inventory
FY2016**

Inventory by Suffix					
Year	Month	Total Inventory	Sold to Date	Inventory De-Listed	In Stock Today
2015	(2 months)	162	118	2	42
	July	69	47	1	21
	September	93	71	1	21
	Totals	162	118	2	42