

Town of Brookhaven
BBBB
What If

Not Addressing:

**5 cents vs. 10 cents
Handling Fees
Who Gets Unclaimed Deposits
Economics of Litter
Odds Of It Passing**

Addressing:

**Impact to
Brookhaven's WM
system by adding a
deposit to more
containers**

Assumptions:

**Collection Costs

It all gets collected

Regardless of the cost**

Beverage Container Deposit and Redemption
 Statistics, As Reported For The Period
 10/1/2002 - 9/30/2003 NYSDEC Division
 of Solid & Hazardous Materials

	State	Region 1
Statewide redemption rate	0.692	0.54
Redemption Rate for Beer containers	0.777	0.661
Redemption Rate for soda containers	0.608	0.443
Redemption Rate for wine containers	0.691	0
Beverage Containers Sold in NYS	5,671,911,220	668,458,860
Deposits Charged	\$283,595,561.00	\$33,422,943.00
Containers Redeemed	3,923,188,960	360,701,520
Deposits Redeemed	\$196,159,448.00	\$18,035,076.00
Containers Unredeemed	1,748,722,260	307,757,360
Unredeemed deposits	\$87,436,113.00	\$15,387,868.00
Market Share of Glass Sold	0.13	
Market Share of Aluminum Sold	0.63	
Market Share of Plastic Sold	0.24	
Calculations: (container weight in lbs/2000)		
Container Weight - Glass (in tons)	0.000225	
Container Weight - Aluminum (in tons)	0.00001825	
Container Weight - Plastic (in tons)	0.0000625	
BiMetal (California DoC) approximate (SWAG)	0.000125	

Hudson Baylor Brookhaven, Monthly Report,
March 2007

		<u>Price Per Ton</u>
PETMIX in Tons (out)	108.01	\$330.00
Aluminum in Tons (out)	20.13	\$1,540.00
Glass in Tons (out)	403.36	\$9.00
Tin (out)	173.99	\$187.00
Total Containers in Tons (In)	1536.76	

Waste and Opportunity, US Beverage
container Recycling Scorecard and Report,
Container Recycling Institute, October 2006

Beverage Containers Comprise 4.7% of the waste stream

Source: US EPA, 2005

"After reaching a recycling rate of 31.2% in 1992,
the glass beverage container recycling rate dropped to 20.2% in 2003.

Source: US EPA, 2005, CRI 2006

"...the aluminum can recycling rate has declined from 65% in 1992 to 45% in 2005

Source: CRI 2006

PET bottle recycling rates dropped from 39.7% in 1995 to 19.6% in 2003

Source: American Plastics Council, 2005

Between 1992 and 2004, PET carbonated soft drink bottle sales
more than doubled from 12 billion units to over 28 billion

Source: CRI 2006

PET bottled water sales grew from 3.3 billion units in 1997
to an estimated 26 billion in 2005

Source: CRI 2006

Aluminum beverage can sales grew by 8% from 92.4 billion in 1992
to 100 billion units in 2003

Source: CRI 2006

Glass bottle sales increased 12.5% from 32 billion units in 1993
to 36 billion units in 2003.

Source: CRI 2006

Per capita consumption of soft drinks in 2005 fell 1% to 828 eight ounce servings

An Analysis of the Costs and Benefits of
Beverage Container Recovery in Canada
CM Consulting, January 2002

An optimum curbside program for beverage containers in BC would recover 40% less material than the present deposit-return system and would result in an estimated 46% increase in beverage container litter annually.

City of Toronto: Deposit-return for only wine and spirit containers is estimated to reduce the cost of the city's waste management system by approximately \$1,000,000 per year following full implementation.

Comprehensive deposit-return on all alcoholic and non-alcoholic beverage containers is estimated to reduce the cost of the city's waste management system by approximately \$4,750,000 per year following full implementation.

<http://www.bottlebill.org/legislation/campaigns/ny/support.shtml>

Container Recycling Institute

Non-carbonated beverages account for approximately 22% of beverage sales in NY - 2.5 billion cans and bottles a year
125 for every person in the state

20% of non-deposit beverage containers get recycled

80% of deposit beverage containers get recycled - 70% returned, 10% curbside

2 billion additional bottles and cans would be recycled with the BBBB

Testimony before the NYS Joint Senate Finance and Ways & Means Committee
29-Jan-04

Beverage Containers Sold in NYS, 2002

BBBB Additional Beverages Containers

Percent

Aluminum Cans	186,000,000	7.29%
Steel Cans	10,000,000	0.39%
Plastic Bottles	2,045,000,000	80.10%
Glass Bottles	312,000,000	12.22%
Total	2,553,000,000	100.00%

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The Analysis:

Impact to Recycling

How many beverage containers, by material type, would the BBBB add in the Town of Brookhaven?

	Containers	Region 1 - 54%	Value
Aluminum Cans	4,560,705	2,462,781	\$69,216.46
Steel Cans	245,199	132,408	\$3,095.03
Plastic Bottles	50,143,238	27,077,348	\$558,470.31
Glass Bottles	7,650,215	4,131,116	\$8,365.51
Total	62,599,357	33,803,653	\$639,147.30

If 20% of non-deposit beverage containers get recycled and 10 % of deposit beverage containers get recycled curbside then Brookhaven's Numbers looks like this:

	W/ BBBB		W/O BBBB	
	Containers	Value	Containers	Value
Aluminum Cans	456,071	\$12,501.58	912,141	\$25,003.15
Steel Cans	24,520	\$456.68	49,040	\$913.37
Plastic Bottles	5,014,324	\$91,511.41	10,028,648	\$183,022.82
Glass Bottles	765,022	-\$4,991.77	1,530,043	-\$9,983.53
Total	6,259,936	\$99,477.90	12,519,871	\$198,955.81

Net per Operations Contract- 80% to Town \$79,582.32 \$159,164.65

Impact to Brookhaven's Recycling Revenue W/BBBB = **(\$79,582.32)** annually

Savings in Litter Clean Up Costs

Priceless

Thank You

John Kowalchuk, Commissioner
Department of Waste Management
Brookhaven, Long Island, New York