

## Calculating the Iowa 2016 Deposit Container Recycling Rate (1/12/17)

Deposit Container Type	Tons landfilled (straight, as sampled) <sup>1</sup>	Tons landfilled (scaled for weighted average) <sup>2</sup>	Tons landfilled (scaled for seasonality) <sup>3</sup>	Container conversion factors (units per pound) <sup>4</sup>	Units landfilled (using CalRecycle conversion factors)	Units Sold in Iowa, 2015 (from CRI BMDA) <sup>5</sup>	Proportion unrecovered (units landfilled ÷ unit sold)	Deposit Recycling rate (= 100% - proportion unrecovered)
PET	3,841	6,829	5,974	12.09	144,457,559	362,220,916	40%	60%
Aluminum	4,160	7,397	6,471	29.10	376,591,577	1,224,344,849	31%	69%
Glass	8,788	15,624	13,668	1.56	42,563,818	255,381,893	17%	83%
<b>Totals</b>	<b>16,790</b>	<b>29,849</b>	<b>26,113</b>		<b>563,612,953</b>	<b>1,841,947,658</b>	<b>29%</b>	<b>71%</b>

Total Tons MSW Landfilled <sup>1</sup> =	1,846,639	so, scaling by
Total Tons MSW Represented by 2017 waste sort =	1,038,708	<b>1.8</b>
<i>1,846,639 Total MSW ÷ 1,038,708 MSW</i>		

Beer sales in IA during the waste sampling period (May, June and July) were 14.3% above the 3-month average for the year, so landfilled total should be divided by **114.3%**  
 Revised Total = 2,110,876

**Notes:**

<sup>1</sup> FINAL 2017 Iowa Statewide Waste Characterization Study, SCS Engineers for Iowa DNR. Dec. 28, 2017, Footnote 1, Pg. 70

<sup>2</sup> Weighted averages computed by scaling up by 1.8 (total tons of MSW landfilled/tons of MSW represented by waste sort)

<sup>3</sup> Scaled down to account for higher-than-average sales during the 3-month waste sampling period. Monthly data for IA beer sales from The Beer Institute.

<sup>4</sup> Container Recycling Institute 2015 data, per CalRecycle.

<sup>5</sup> Units sold from "2015 Beverage Market Data Analysis," The Container Recycling Institute, 2017.