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## Cost Saving Corrections

Michael Tiner

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134	1 batch of DIY
12 pounds	
per week	
100	per week of DIY
5200	oz per year
38.80597015	batches need to make
462.15	per year DIY cost
14080	oz per 110 gal
12 pounds	
BS per week	
200	Per week of Store bought
10400	Per Year of store bought
1.353846154	batches needed of 55gal barrels
4000	per year of store bought cost
3537.85	savings
38.5%	total savings per year

<b>HSC</b>
<b>Homemade</b>
- \$10.62 per 8.5 pounds
- \$572.24 per 458 pounds
- 160-pound capacity washer
- \$1.25 per pound approx
- Consists of
- 14oz of laundry soap (\$1.48) x1
- 65oz of borax detergent (\$4.97) x1
- 55oz of arm and hammer washing soda (\$5.00) x1
- Total \$10.62
- Walmart prices ^
<b>DIY</b>
- 1 load = 1 ¼ cups
- 1 ¼ cups = ½ pound
- \$0.78 per load
- \$1.56 per 2 loads
<b>Commercial - Spartan</b>
- \$1556.34 per 458 pounds
- 160 pound capacity washer
- Washer uses 1 pump per load
- 1 pump = approx 9 oz
- \$3.40 per pound approx
<b>Spartan</b>
- 1 loads = 1 ¼ cups
- 1 ¼ cups = ½ pound
- \$2.13 per load
- \$4.26 per 2 loads
<b>Savings: maximum security</b>
- Per week (17.5 loads)
- \$59.15
- Per month
- \$236.60
- Per year
- \$2839.20
<b>Annual savings = nearly 3k</b>
- 2x the amount of detergent with money you save in one year
Saves 32% spent on laundry detergent = \$1494.10

<b>HSC</b>		
134		
1 oz per 12 pounds		
583	per week pounds	667
48.58333333	per week diy	55.58333333
2526.333333	oz per year	2890.333333
18.85323383	batches per year	21.56965174
223.4108209	annual diy cost	255.6003731
14080	oz per 110 gal	
2 oz per 12 pounds		
583 lbs per week		667 lbs per week
97.16666667		111.1666667
5052.666667		5780.666667
2.786647315		2.435705224
6000	per year of store bought cost	
5776.589179		5744.399627
0.9627648632		0.9573999378
96.27648632		95.73999378

## Cost Savings Corrections

Michael Tiner

This research is a cost-savings analysis of doing laundry within the Rhode Island Department of Corrections. This is an assessment of the cost of homemade and store-bought detergent observed and additionally considered for real-world practicality.

On the left, are some calculations  
On the right, is my detergent



## MICHAEL TINER Cost Savings Chart

