

**Sub-Section: Food Service**

**Three Hours to Change Options**

"Average" New Hampshire Camp (Capacity)		
Campers: 131	Staff: 33	Ratio: 4:1

		People	Meals	Days	Trays per Cycle	Cycles Saved	Gallons per Cycle	Gallons Saved	Avg. Cost per gal.	Dollar Savings
1) Stop using individual trays at meals	Average Camp	164	x 3	x 56	÷ 18	= 1531	x 0.729	= 1116	x \$0.004	= \$4.46
	Own Camp		x	x	÷	=	x	=	x \$0.004	=

	7 oz. Cup Type	People	Cups per Day	Days	Cups per Case	Cases Used	Cost per Case	Total Cup Cost
2) Use compostable disposable cups, and compost them rather than putting them in the trash	Average Camp	Conventional Plastic	164	x 5	x 56	÷ 1000	= 45.9	x \$72.00 = \$3,306.24
		Compostable PLA	164	x 5	x 56	÷ 2000	= 23.0	x \$120.00 = \$2,755.20
	Price Difference: <b>\$551.04</b>							
	Own Camp	Conventional Plastic		x	x	÷ 1000	=	x \$72.00 =
Compostable PLA			x	x	÷ 2000	=	x \$120.00 =	
Price Difference: _____								

Cases Used	Case Weight (lbs.)	Trash Savings (lbs.)
	x 22	=

	Refrigerator Type	kWh per Year	Days of Use per Year	Days per Year	kWh Used per Season	Cost/kWh	Total Electricity Cost
3) When it's time, purchase an Energy Star qualified commercial refrigerator	Average Camp	Conventional	3548	x 70	÷ 365	= 680.4	x \$0.16 = \$108.87
		Energy Star	2351	x 70	÷ 365	= 450.9	x \$0.16 = \$72.14
	Subtract for Seasonal Savings: <b>\$36.73</b>						
	Own Camp	Conventional		x	÷ 365	=	x
Energy Star			x	÷ 365	=	x	=
Subtract for Seasonal Savings: _____							
		Energy Star Cost	Conventional Cost	Seasonal Savings	Seasons		
Investment Recovery ( _____ - _____ ) ÷ _____ = _____							

## Notes and Resources

The idea of the average camp is based on the 2007-2008 list published by NH Department of Environmental Services of licensed Youth Recreation Camps. No distinction was made between day and resident camps for the purposes of this sheet. A simple average of each camp's capacity has been used, based on 100% enrollment.

**"Average Camp" assumptions are made for calculation purposes. You can change the numbers and calculate the savings for your own camp.**

- 1) The number of trays per cycle is an educated guess.  
The gallons per cycle are for a Hobart AM 15-5 Energy Star qualified commercial dishwasher.  
We are assuming that the average cost of water in New Hampshire is \$4 per 1000 gallons. The US EPA's publication "Water on Tap: What You Need to Know", EPA 816-K-03-007, October 2003, estimates the national average water rate is \$2 per 1000 gallons. That rate doesn't include sewer costs, and water rates for public water utilities in New Hampshire have risen dramatically in the last few years. Many camps have their own wells and septic systems. However, reducing water use does reduce the stress on the well and septic system!
- 2) For the number of cups per day, we assumed that each person used a cup at every meal and two snacks.  
The number of days is based on a 56-day (8-week) summer.  
The conventional and compostable cups were of similar styles. (If you use paper cups, you may already be able to compost them.)  
Compostable cups were found at [www.ecoproducts.com](http://www.ecoproducts.com). Conventional plastic cups were found at [www.foodservicedirect.com](http://www.foodservicedirect.com). Prices are approximate.
- 3) Specifications, energy use, and costs for conventional and Energy Star refrigerators were taken from the Energy Star website's savings calculator for Commercial Solid Door Refrigerators and Freezers, based on a 44 cubic foot capacity. ([www.energystar.gov](http://www.energystar.gov))  
The cost per kWh is based on anecdotal information from several camps.

### **Additional Steps for Savings and Education**

Save food miles by purchasing some amount of food locally through a CSA, farmer's market, or local distributor.

Check [www.localharvest.org](http://www.localharvest.org) to find food resources in your area.

Use unbleached napkins or napkins made from 100% recycled materials, and compost napkin waste.

Organize your dining hall so that campers can collect and weigh food waste after each meal and compost as much food waste as possible.

Use smaller plates and bowls to save dishwasher cycles. (This also encourages healthy portion control.)

Commit to purchasing one or more categories of organic food like lettuce, milk, coffee, or flour.

Whenever you choose organic, pesticide use is reduced somewhere!

Plan one or more meals each week without meat, or even without dairy or eggs.

Buy or build a solar oven to use for outdoor cooking activities with campers.

Plant a garden with campers, and let them harvest and eat what they grow.