

Carteret-Craven Electric Cooperative

SOLAR WATER HEATING STUDY

This table shows electric water heater usage that backs solar water heating systems at two home
The meters measures only usage at the water heater.

The average national usage for a two-person household is 6.73 kWh/day.

TWO-PERSON HOUSEHOLDS

HOUSEHOLD 1			
Date	Reading	kWh	Average kWh/day
11/13/2008	69725		
11/27/2008	69780	55	3.93
12/29/2008	69949	169	5.28
1/26/2009	70051	102	3.64
2/23/2009	70139	88	3.14
3/30/2009	70256	117	3.34
4/26/2009	70314	58	2.15
5/25/2009	70342	28	0.97
6/29/2009	70364	22	0.63
7/27/2009	70385	21	0.75
8/24/2009	70406	21	0.75
9/21/2009	70431	25	0.89
10/26/2009	70483	52	1.49
11/30/2009	70610	127	3.63
12/28/2009	70726	116	4.14
1/28/2010	70839	113	3.65
2/15/2010	70931	92	5.11
3/15/2010	71021	90	3.21
4/12/2010	71063	42	1.50
5/17/2010	71115	52	1.49
6/14/2010	71145	30	1.07
7/12/2010	71147	2	0.07
8/16/2010	71157	10	0.29
9/15/2010	71163	6	0.20
10/11/2010	71191	28	1.08

HOUSEHOLD 2			
Date	Reading	kWh	Average kWh/day
12/1/2008	34682		
12/18/2008	34773	91	5.35
1/13/2009	34904	131	5.04
2/7/2009	35045	141	5.64
3/1/2009	35118	73	3.32
4/20/2009	35290	172	3.44
6/8/2009	35364	74	1.51
7/6/2009	35425	61	2.18
9/7/2009	35745	320	5.08
10/3/2009	35790	45	1.73
11/5/2009	35903	113	3.42
12/8/2009	36047	144	4.36
2/1/2010	36217	170	3.09
3/14/2010	36383	166	4.05
4/4/2010	36443	60	2.86

TOTAL AVERAGE DAILY USAGE 2.18

TOTAL AVERAGE DAILY USAGE 3.60

Energy Information Administration: Electric Water Heater Average Usage

Number of People	Gallons/Day	Gallons/Month	Average kWh	Average kWh/day
1	15	450	117	3.90
2	30	900	202	6.73
3	45	1350	287	9.57
4	60	1800	374	12.47
5	75	2250	456	15.20
6	90	2700	541	18.03