

The Green School committee has collected the following data on the total kilowatts of electric and therms of gas that MRHS has used each month since July 2009. In the hopes of decreasing the amount of energy used, the committee has implemented some energy saving methods. Now they would like to see if their methods are working and if there has been a significant decrease of energy consumption.

Your goal is to take their data and perform an appropriate hypothesis test for each type of energy and then present the results. Be sure to discuss which data you used for your test and why you used it. Your results should include your work and be written in layman's terms for the committee who may not have as much statistical background as you. This should be type written (aside from and handwritten work) and is due on _____.

Site: L75 (MARRIOTT'S RIDGE HIGH)

School year 09-10

Electric	JUL 2009	AUG 2009	SEP 2009	OCT 2009	NOV 2009	DEC 2009
TOTAL KWH	302,700	223,200	289,500	309,300	338,100	270,600
	JAN 2010	FEB 2010	MAR 2010	APR 2010	MAY 2010	JUN 2010
	247,500	218,100	292,500	312,000	267,300	255,900

School year 10-11

Electric	JUL 2010	AUG 2010	SEP 2010	OCT 2010	NOV 2010	DEC 2010
TOTAL KWH	181,800	225,300	286,800	240,600	229,500	218,100
	JAN 2011	FEB 2011	MAR 2011	APR 2011	MAY 2011	JUN 2011
	200,700	204,000	268,800	275,100	300,900	274,200

School year 11-12

Electric	JUL 2011	AUG 2011	SEP 2011	OCT 2011	NOV 2011	DEC 2011
TOTAL KWH	240,600	225,000	313,200	240,300	233,100	238,500
	JAN 2012	FEB 2012	MAR 2012	APR 2012	MAY 2012	JUN 2012
	201,900	213,900	256,200	223,800	296,400	208,500

School year 12-13

Electric	JUL 2012	AUG 2012	SEP 2012	OCT 2012	NOV 2012	DEC 2012
TOTAL KWH	296,700	343,200	272,400	279,900	234,600	200,100
	JAN 2013					
	240,900					

School year 09-10

Gas	JUL 2009	AUG 2009	SEP 2009	OCT 2009	NOV 2009	DEC 2009
TOTAL THERMS	270	357	767	5,390	7,898	15,170
	JAN 2010	FEB 2010	MAR 2010	APR 2010	MAY 2010	JUN 2010
	14,338	15,067	8,885	4,835	2,301	422

Data continues

School year 10-11

Gas

TOTAL THERMS

JUL 2010	AUG 2010	SEP 2010	OCT 2010	NOV 2010	DEC 2010
287	226	1,457	4,760	9,683	17,190
JAN 2011	FEB 2011	MAR 2011	APR 2011	MAY 2011	JUN 2011
19,760	11,828	11,769	6,104	2,957	301

School year 11-12

Gas

TOTAL THERMS

JUL 2011	AUG 2011	SEP 2011	OCT 2011	NOV 2011	DEC 2011
179	286	1,505	6,492	10,683	16,177
JAN 2012	FEB 2012	MAR 2012	APR 2012	MAY 2012	JUN 2012
14,346	14775	9495	7591	1208	982

School year 12-13

Gas

TOTAL KWH

JUL 2012	AUG 2012	SEP 2012	OCT 2012	NOV 2012	DEC 2012
2627	528	1163	7761	10642	11952
JAN 2013					
16105					