

For the year 2010						
Energy produced at the Weston Dairy Farm Solar Thermal unit						
	BTU's generated	daily average	How much oil would be needed (gallons)	How much electricity (Kwh)	How much propane would be needed (gallons)	
January	4,506,000	145,355	32	1,321	50	
February	5,343,000	190,821	38	1,566	59	
March	6,255,000	201,774	45	1,833	69	
April	6,709,000	223,633	48	1,966	74	
May	8,217,000	265,065	59	2,408	90	
June	6,635,000	221,167	48	1,945	73	
July	8,004,000	258,194	58	2,346	88	
August	7,457,000	240,548	54	2,186	82	
September	5,662,000	188,733	41	1,659	62	
October	5,296,000	170,839	38	1,552	58	
November	4,324,000	144,133	31	1,267	48	
December	3,534,000	114,000	25	1,036	39	
2010 totals	71,942,000		518	21,085	791	
conversions used		1 gal htg oil = 139,000 Btu's				
		1 Kwh electricity = 3,412 Btu's				
		1 gal propane = 91,000 Btu's				
		1 gal kerosene = 135,000 Btu's				
Btu data from Lance's record on the farm.						
The Weston Farm installed a Solar Thermal unit with an "on demand" propane hot water heater to use for their hot water needs for the milking operation. Installed in fall of 2009.						
Remember, this only reports on the Btu's generated. How that energy is used depends upon the needs of the operation and how the energy is stored. The dairy requires a great deal of hot water year round on a daily basis so this system works very well.						