## HEATING COST COMPARISON COST PER MILLION BTU'S

**ELECTRIC** 

<u>1,000,000 BTU</u> 3,413 BTU/KWH	=	293 KWH	X \$/KWH =	\$
NATURAL GAS				
<u>1,000,000 BTU</u> .75 SPF X 100,000 BTU/THERM	=	13.3 THERMS	X \$/THERM =	\$
<u>1,000,000 BTU</u> .90 SPF X 100,000 BTU/THERM	=	11.11 THERMS	X \$/THERM =	\$
<u>1,000,000 BTU</u> .95 SPF X 100,000 BTU/THERM	=	10.53 THERMS	X \$/THERM =	\$
PROPANE				
<u>1,000,000 BTU</u> .75 SPF X 91,500 BTU/GALLON	=	14.6 GALLONS	X \$/GALLON =	\$
<u>1,000,000 BTU</u> .90 SPF X 91,500 BTU/GALLON	=	12.14 GALLONS	X \$/GALLON =	\$
<u>1,000,000 BTU</u> .95 SPF X 91,500 BTU/GALLON	=	11.5 GALLONS	X \$/GALLON =	\$
OIL				
<u>1,000,000 BTU</u> .60 SPF X 140,000 BTU/GALLON	=	11.9 GALLONS	X \$/GALLON =	\$
AIR SOURCE HEAT PUMP				
<u>1,000,000 BTU</u> 2.8 COP X 3,413 BTU/KWH =		105 KWH	X \$/KWH =	\$
GROUND SOURCE HEAT PUMP				
<u>1,000,000 BTU</u> 3.6 COP* X 3,413 BTU/KWH	=	81 KWH	X \$/KWH =	\$

\*COP's include water pumping watts at 200' total dynamic heat with well pump at 25% wire to water efficiency.

COP (Coefficient of Performance) and SPF (Seasonal Performance Factor) are terms used to rate the efficiency of a heating unit.

Vernon Electric Cooperative, Westby, WI

www.vernonelectric.org

This institution is an equal opportunity provider and employer.