## **Heating Bill Comparison**

Date: January 7, 2007

A 2000 ft<sup>2</sup> home in Michigan uses nearly 85.3 million BTU of heat (MBtu) per winter. The annual heating bill is calculated as such:



H = annual heating bill in dollars

A =fuel price

 $H = \frac{85.3 \text{ A}}{}$ 

B C

B = heat content of fuel

C = furnace efficiency factor

Fuel	A	В	C	Н
electricity	\$0.102 / kWh	0.00341 MBtu / kWh	1	\$ 2,550
biodiesel	\$2.70 / gal	0.013 MBtu / gal	0.8	\$ 2,126
propane	\$1.95 / gal	0.0915 MBtu / gal	0.85	\$ 2,138
heating oil	\$2.37 / gal	0.1399 MBtu / gal	0.8	\$ 1,805
soybean oil	\$2 / gal	0.1298 MBtu / gal	0.8	\$ 1,641
wood pellets	\$200 / ton	15.3 MBtu / ton	0.8	\$ 1,393
oak cordwood	\$100 / full cord	25 MBtu / full cord	0.25	\$ 1,364
natural gas	\$11.13 / kcf *	1.0265 MBtu / kcf	0.85	\$ 1,087
corn	\$ 3.68 / bu	0.3809 MBtu / bushel	0.8	\$ 1,029
yellow grease	\$ 1.07 / gal	0.1298 MBtu / gal	0.8	\$878
sugar beet pulp	\$100 / ton	13.34 MBtu / ton	0.8	\$799
wood chips	\$50 / ton	10.2 MBtu / ton	0.7	\$597

\* kcf = thousand cubic feet

