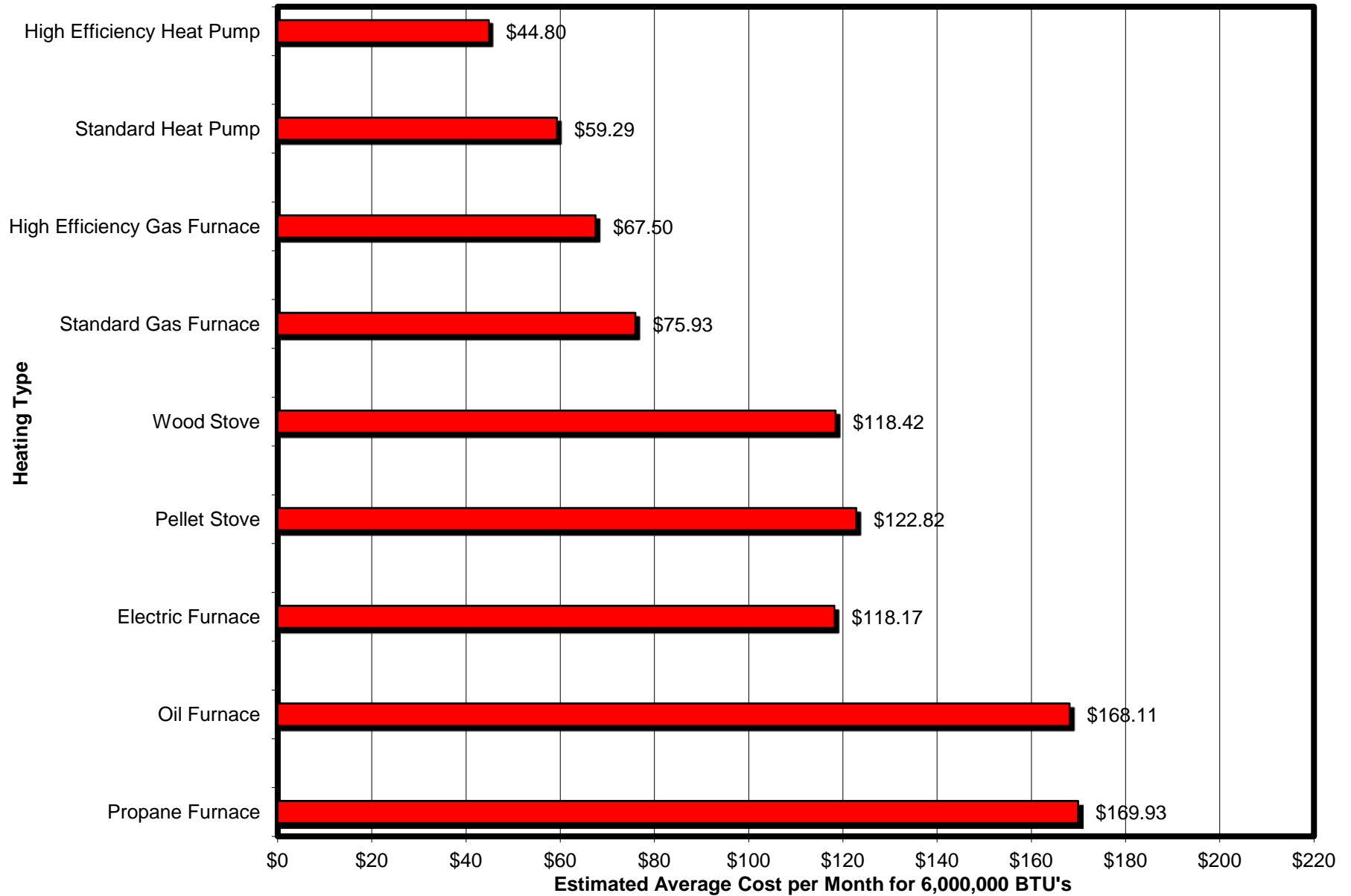


# Heating System Cost Analysis



# Heating System Cost Analysis

Heating System	Formula	Fuel Units	Cost per Fuel Unit	Cost per Million BTU	Estimated Cost per Month
	<b>1,000,000 Btuh</b>				
<b>UEC Program, High Efficiency Heat Pump</b>	<b>3412 kWh/BTU X 3.412 / 9.0 HSPF</b>	<b>111.11</b>	<b>kWh x \$0.0672 =</b>	<b>\$ 7.47</b>	<b>\$ 44.80</b>
	1,000,000 Btuh				
Standard Electric Heat Pump	3412 kWh/BTU X 3.412 / 6.8 HSPF	147.06	kWh x \$0.0672 =	\$ 9.88	\$ 59.29
	1,000,000 Btuh				
High Efficiency Gas Furnace	(100,000/Therm X 90% A.F.U.E. Efficiency)	11.11	Therms X \$1.012 =	\$ 11.25	\$ 67.50
	1,000,000 Btuh				
Standard Efficiency Gas Furnace	(100,000/Therm X 80% A.F.U.E. Efficiency)	12.50	Therms X \$1.012=	\$ 12.66	\$ 75.93
	1,000,000 Btuh				
Wood Stove	(19,000,000/Cord X 60% A.F.U.E. Efficiency)	0.09	Cords X \$225.00 =	\$ 19.74	\$ 118.42
	1,000,000 Btuh				
Pellet Stove	(16,400,000 BTU/Ton X 70% A.F.U.E. Efficiency)	0.09	Tons X \$235.00 =	\$ 20.47	\$ 122.82
	1,000,000 Btuh				
Electric Furnace	(3412 BTU/kWh X 100% A.F.U.E. Efficiency)	293.08	kWh x \$0.0672 =	\$ 19.70	\$ 118.17
	1,000,000 Btuh				
Oil Furnace	(140,000 BTU/Gal. X 80% A.F.U.E. Efficiency)	8.93	Gals. X \$3.138 =	\$ 28.02	\$ 168.11
	1,000,000 Btuh				
Standard Efficiency Propane Furnace	(91,800 BTU/Gal. X 80% A.F.U.E. Efficiency)	13.62	Gals. X \$2.08 =	\$ 28.32	\$ 169.93

Efficiency ratings for combustion heating systems represent an average "Annual Fuel Utilization Efficiency" (A.F.U.E.).
Blower fan costs NOT included with combustion systems - up to \$1 per month. Blower fan costs ARE included with heat pump examples!
New systems can be more efficient. Older systems will be less efficient. Estimated cost per month based on 6 million BTUs of heating produced per month.