# SPACE AND WATER HEATING COST COMPARISON—WASHINGTON

SPACE HEATING TYPE	UNIT	BTU PER UNIT	COST PER UNIT	EFFICIENCY	COST PER MILLION BTU	AMOUNT OF HEAT PER \$1.00 SPENT
Natural Gas Furnace-80%	Therm	100,000	\$0.81	80%	\$10.13	98,765
Natural Gas Furnace-92%	Therm	100,000	\$0.81	92%	\$8.80	113,580
Natural Gas Furnace-95%	Therm	100,000	\$0.81	95%	\$8.53	117,284
Natural Gas Furnace-98%	Therm	100,000	\$0.81	98%	\$8.27	120,988
Fuel Oil Furnace-60%	Gallon	138,500	\$3.24	60%	\$38.99	25,648
Fuel Oil Furnace-90%	Gallon	138,500	\$3.24	90%	\$25.99	38,472
Electric Resistance	kWh	3,412	\$0.082	100%	\$24.03	41,610
Heat Pump-8.5 HSPF	kWh	3,412	\$0.082	249%	\$9.65	103,629
Heat Pump-9.0 HSPF	kWh	3,412	\$0.082	264%	\$9.11	109,725
Heat Pump-9.5 HSPF	kWh	3,412	\$0.082	278%	\$8.63	115,821
Heat Pump-10 HSPF	kWh	3,412	\$0.082	293%	\$8.20	121,917
Heat Pump-10.5 HSPF	kWh	3,412	\$0.082	308%	\$7.81	128,012
WATER HEATING TYPE	UNIT	BTU PER UNIT	COST PER UNIT	EFFICIENCY	COST PER MILLION BTU	AMOUNT OF HEAT PER \$1.00 SPENT
NG Storage-code	Therm	100,000	\$0.81	62%	\$13.06	76,543
NG Storage67 EF	Therm	100,000	\$0.81	67%	\$12.09	82,716
NG Tankless8 EF	Therm	100,000	\$0.81	80%	\$10.13	98,765
NG Tankless95 EF	Therm	100,000	\$0.81	95%	\$8.53	117,284
Electric Storage-code	kWh	3,412	\$0.082	90%	\$26.70	37,449
Electric Storage95 EF	kWh	3,412	\$0.082	95%	\$25.30	39,529

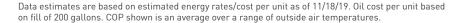
### WATER HEATER EF CALCULATION

Code Minimum EF

Elec (.97-.00132V) NG (.67-.0019V)

### **HSPF CONVERSION TO COP**

HSPF\*.293=COP





# WHOLE HOME HEATING COMPARISON— WASHINGTON

Amount of heat per \$1.00 spent

### **SPACE HEATING**

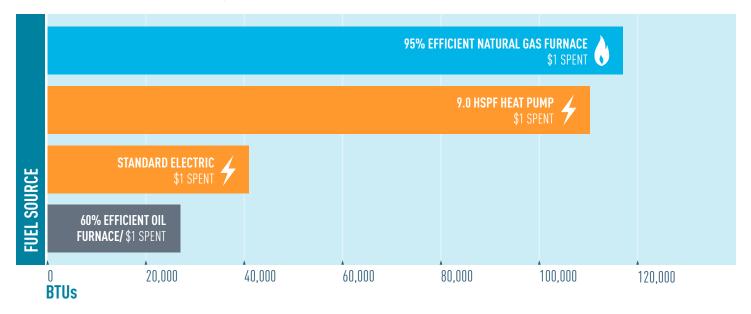
Natural gas provides

MORE HEAT per \$1.00 spent
than oil or electricity.

### WATER HEATING

A natural gas tankless water heater provides UP TO 66% MORE heat per \$1.00 spent than electricity, and a tanked water heater provides UP TO 52% MORE heat than electricity for the same \$1.00.

# **SPACE HEATING BTUS PER \$1.00**



## WATER HEATING BTUS PER \$1.00

