

# SPACE AND WATER HEATING COST COMPARISON—OREGON

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	\$0.87	80%	\$10.88	91,954
Natural Gas Furnace-92%	Therm	100,000	\$0.87	92%	\$9.46	105,747
Natural Gas Furnace-95%	Therm	100,000	\$0.87	95%	\$9.16	109,195
Natural Gas Furnace-98%	Therm	100,000	\$0.87	98%	\$8.88	112,644
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	\$0.12	100%	\$35.17	28,433
Heat Pump-8.5 HSPF	kWh	3,412	\$0.12	249%	\$14.12	70,813
Heat Pump-9.0 HSPF	kWh	3,412	\$0.12	264%	\$13.34	74,979
Heat Pump-9.5 HSPF	kWh	3,412	\$0.12	278%	\$12.64	79,144
Heat Pump-10.0 HSPF	kWh	3,412	\$0.12	293%	\$12.00	83,310
Heat Pump-10.5 HSPF	kWh	3,412	\$0.12	308%	\$11.43	87,475
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	\$0.87	62%	\$14.03	71,264
NG Storage-.67 EF	Therm	100,000	\$0.87	67%	\$12.99	77,011
NG Tankless-.8 EF	Therm	100,000	\$0.87	80%	\$10.88	91,954
NG Tankless-.95 EF	Therm	100,000	\$0.87	95%	\$9.16	109,195
Electric Storage-code	kWh	3,412	\$0.12	90%	\$39.08	25,590
Electric Storage-.95 EF	kWh	3,412	\$0.12	95%	\$37.02	27,012

## WATER HEATER EF CALCULATION

### Code Minimum EF

Elec (.97-.00132V)

NG (.67-.0019V)

## HSPF CONVERSION TO COP

HSPF\*.293=COP

Data estimates are based on estimated energy rates/cost per unit as of 11/18/19. Oil cost per unit based on fill of 200 gallons. COP shown is an average over a range of outside air temperatures.



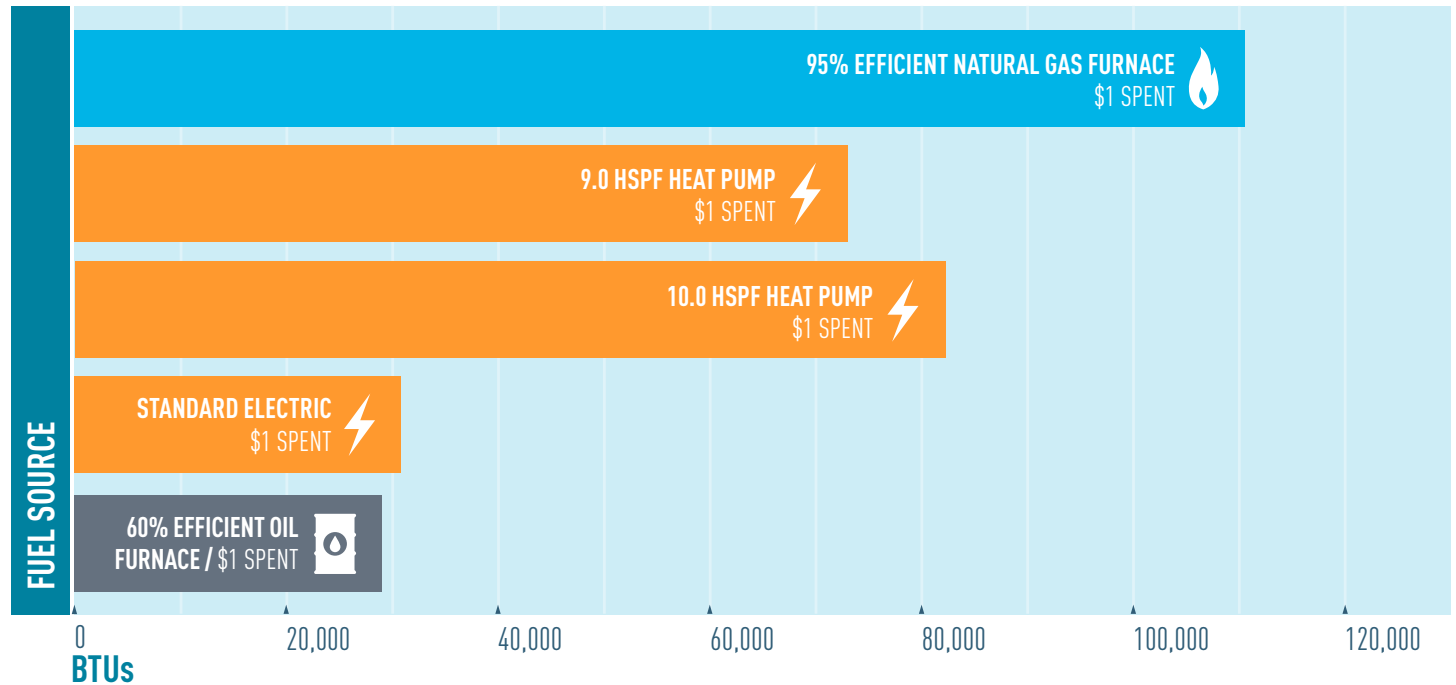
# WHOLE HOME HEATING COMPARISON— OREGON

Amount of heat per \$1.00 spent

## SPACE HEATING

Natural gas provides **MORE HEAT** per \$1.00 spent than oil or electricity.

## SPACE HEATING BTUs PER \$1.00



## WATER HEATING

A natural gas tankless water heater provides **UP TO 75% MORE** heat per \$1.00 spent than electricity, and a tanked water heater provides **UP TO 65% MORE** heat than electricity for the same \$1.00.

## WATER HEATING BTUs PER \$1.00

