

# 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	\$1.05	80%	\$13.13	76,190
Natural Gas Furnace-92%	Therm	100,000	\$1.05	92%	\$11.41	87,619
Natural Gas Furnace-95%	Therm	100,000	\$1.05	95%	\$11.05	90,476
Natural Gas Furnace-98%	Therm	100,000	\$1.05	98%	\$10.71	93,333
Fuel Oil Furnace-60%	Gallon	138,500	\$2.77	60%	\$33.33	30,000
Fuel Oil Furnace-90%	Gallon	138,500	\$2.77	90%	\$22.22	45,000
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	\$1.05	62%	\$16.94	59,048
NG Storage-.67 EF	Therm	100,000	\$1.05	67%	\$15.67	63,810
NG Tankless-.8 EF	Therm	100,000	\$1.05	80%	\$13.13	76,190
NG Tankless-.95 EF	Therm	100,000	\$1.05	95%	\$11.05	90,476
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 11/01/2021. Oil cost per unit based on fill of 200 gallons. COP shown is an average over a range of outside air temperatures.



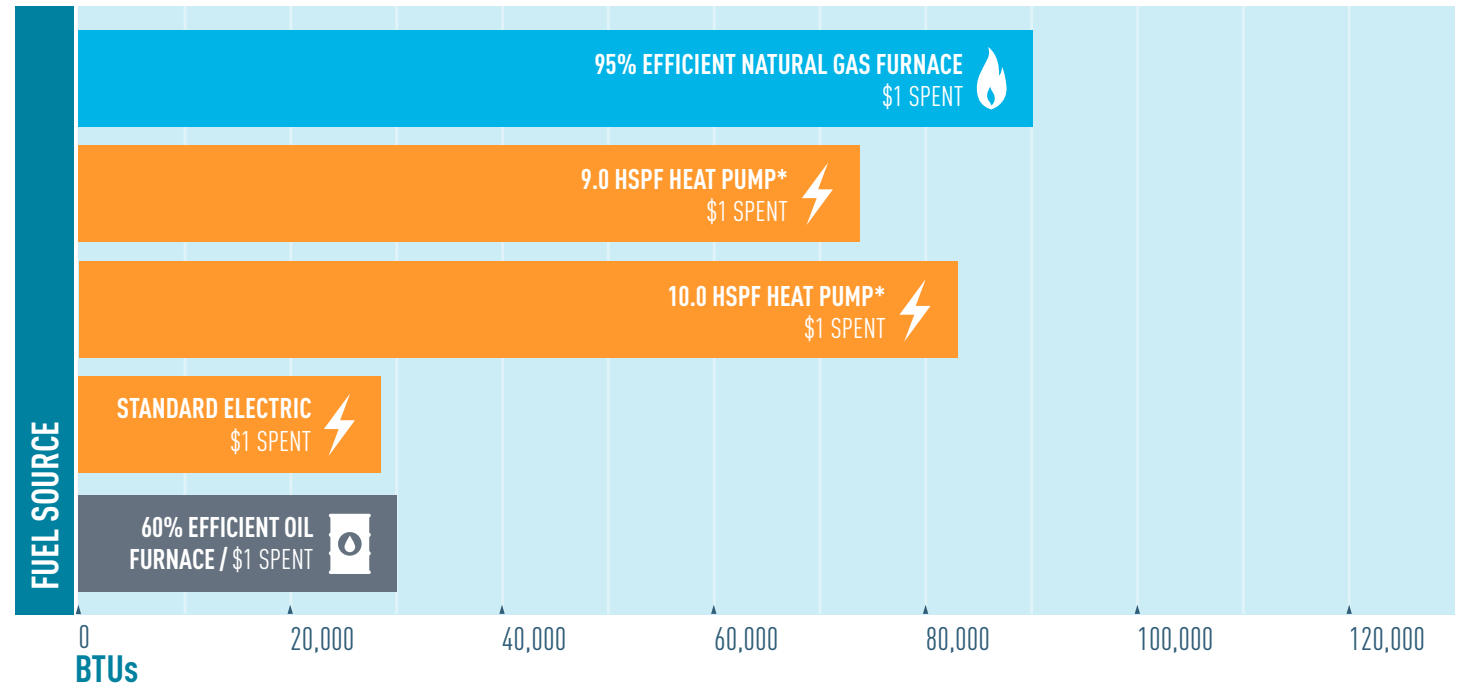
# WHOLE HOME HEATING COMPARISON—OREGON

Amount of heat per \$1.00 spent

## SPACE HEATING

Natural gas provides **MORE HEAT** per \$1.00 spent than oil or standard electric resistance.

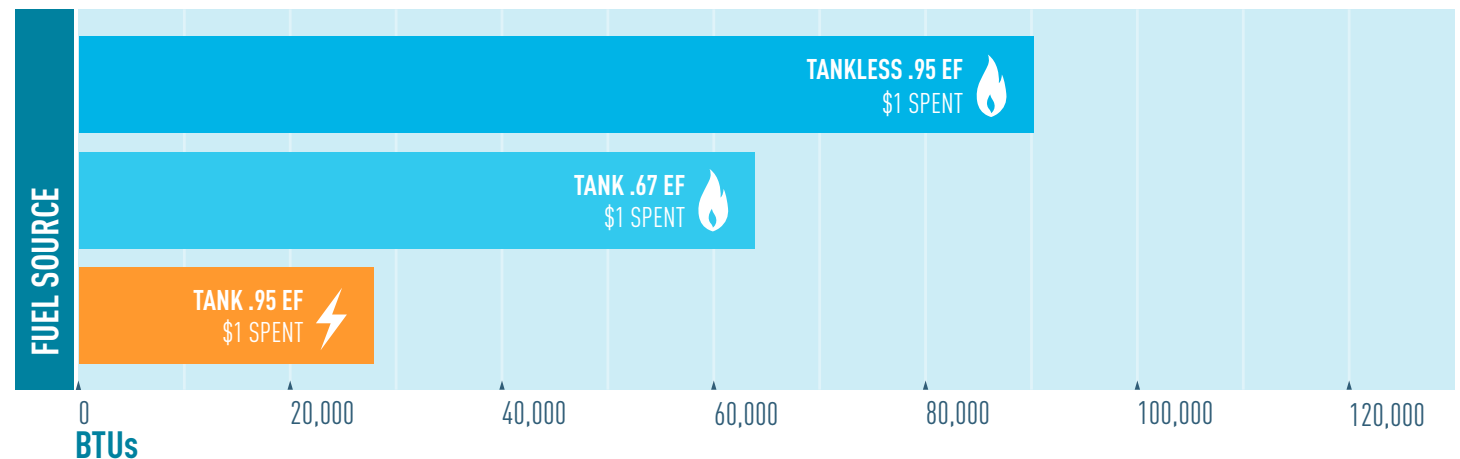
## SPACE HEATING BTUs PER \$1.00



## WATER HEATING

A natural gas tankless water heater provides **UP TO 70% MORE** heat per \$1.00 spent than electricity, and a tanked water heater provides **UP TO 58% MORE** heat than electricity for the same \$1.00.

## WATER HEATING BTUs PER \$1.00



\*Heat pump equipment, installation, and maintenance expenses may vary based on the product chosen for installation in the home.