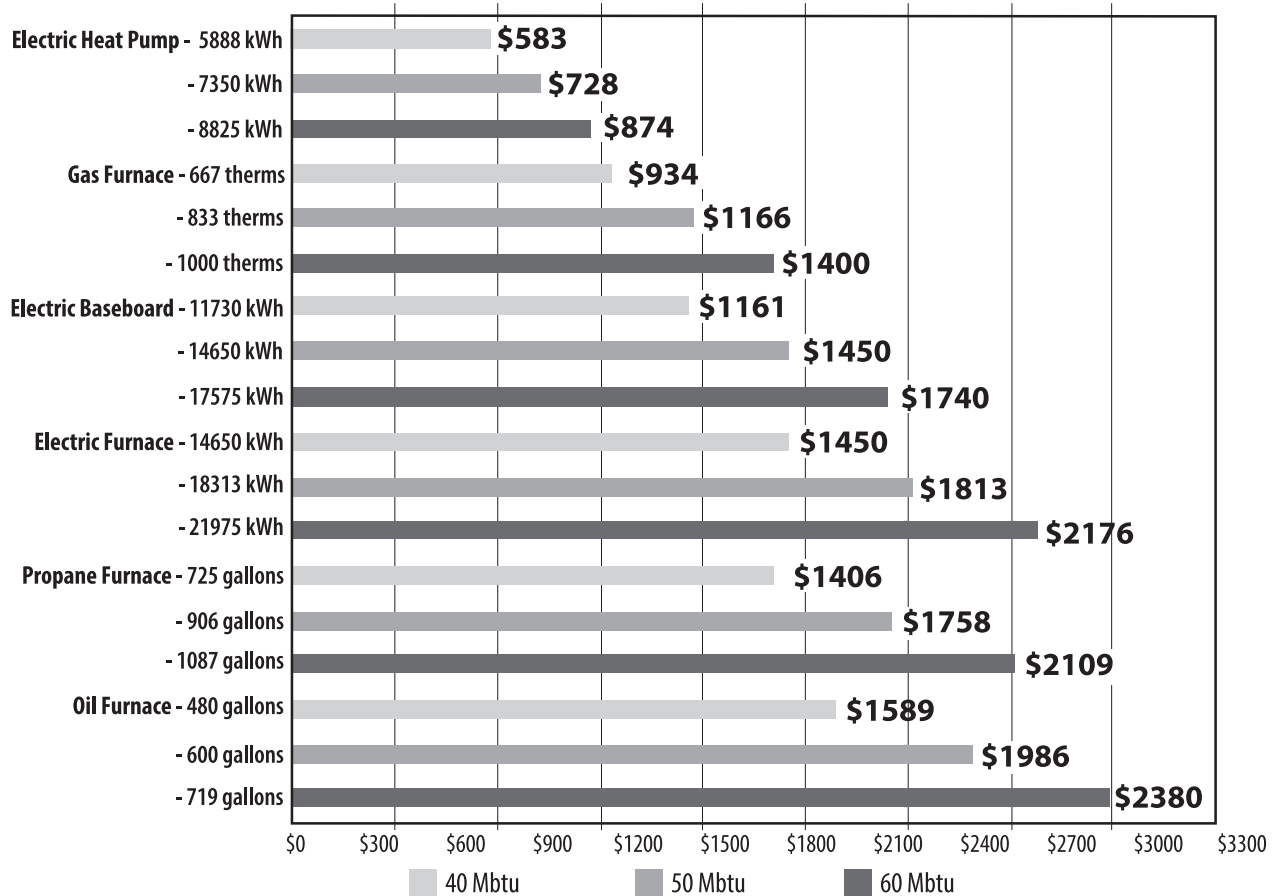


Home Heating Fuel Cost Comparison

The chart below shows a comparison of annual home heating fuel costs based on the most recent information obtained from suppliers in Snohomish County. The chart also shows that electric heat pumps continue to provide a very cost-effective heating source. (Electric costs based on PUD residential billing rate of 9.9 cents per kilowatt-hour.)

The costs are based on the space heating needs for an average single family home. Individual consumptions can vary significantly, depending on thermostat settings, air leakage, house construction, and other factors.

Heating Fuel Cost Comparison



System assumptions:

- Electric heat pump: HSPF 8.5, \$0.099/kWh, 3413 Btu/kWh, 25% duct loss
- Gas Furnace: 80% efficiency, \$1.40/therm, 100,000 Btu/therm, 25% duct loss
- Electric baseboard: 100% efficiency, \$0.099/kWh, 3413 Btu/kWh
- Propane furnace: 80% efficiency, \$1.94/gallon, 92,000 Btu/gallon, 25% duct loss
- Electric furnace: 100% efficiency, \$0.099/kWh, 3413 Btu/kWh, 25% duct loss
- Oil furnace: 80% efficiency, \$3.31/gallon, 139,000 Btu/gallon, 25% duct loss