

Table 1. Approximate annual fuel savings with pipe insulation (per linear foot)*

Nominal diameter (inches)	Surface area (sq. ft.)	Heat loss bare pipe (Btu/hour-foot)	Heat loss 1" insulation (Btu/hour-foot)	Natural gas @ \$1.05/therm	Fuel oil @ \$2/gallon	Propane @ \$1.75/gallon
1/2	0.22	52	11.5	\$1.22	\$1.62	\$2.43
3/4	1.05	65	13	\$1.56	\$2.08	\$3.12
1	1.32	82	15	\$2.01	\$2.68	\$4.02
1 1/4	1.66	102	18	\$2.52	\$3.36	\$5.04
1 1/2	1.9	118	19	\$2.97	\$3.96	\$5.94
2	2.4	147	23	\$3.72	\$4.96	\$7.44
3	3.5	218	30	\$5.64	\$7.52	\$11.28
4	4.5	279	37	\$7.26	\$9.68	\$14.52
6	6.6	409	51	\$10.74	\$14.32	\$21.48

* Steel pipe, 180°F water temperature, 70°F room air temperature, 2,000 hours per year, 1-inch foam insulation, 70 percent heating system efficiency