

Heat Loss - With Frost Proof Shallow Foundation										
	SF / LF		Degree Days	Delta T low temp to 65 degrees	DD adj for soil temp vs air temp		R Value Conc Foundation Wall, rim joist sidings, plantings, air films	BTU per yr per sf	SF 30x30 house	Equiv. Gal Oil
3 feet above ground inc rim joist	3	Air temp	7000	70	100%	7000	35	4,800	1,728,000	15.71
4 feet below ground	4	50 degrees		10	14%	1000	1	24,000	11,520,000	104.73
4 - 8 feet below ground	4	50 degrees		10	14%	1000	1	24,000	11,520,000	104.73
Total Heat Loss									24,768,000	225.16
Energy Savings from Frost Proof Shallow Foundation									49,248,000	447.71
Cost Savings from Frost Proof Shallow Foundation										\$ 1,657
Payback would be shorter due to savings from reduced infiltration, reduced water / moisture, insect, and vermin in basement and building										