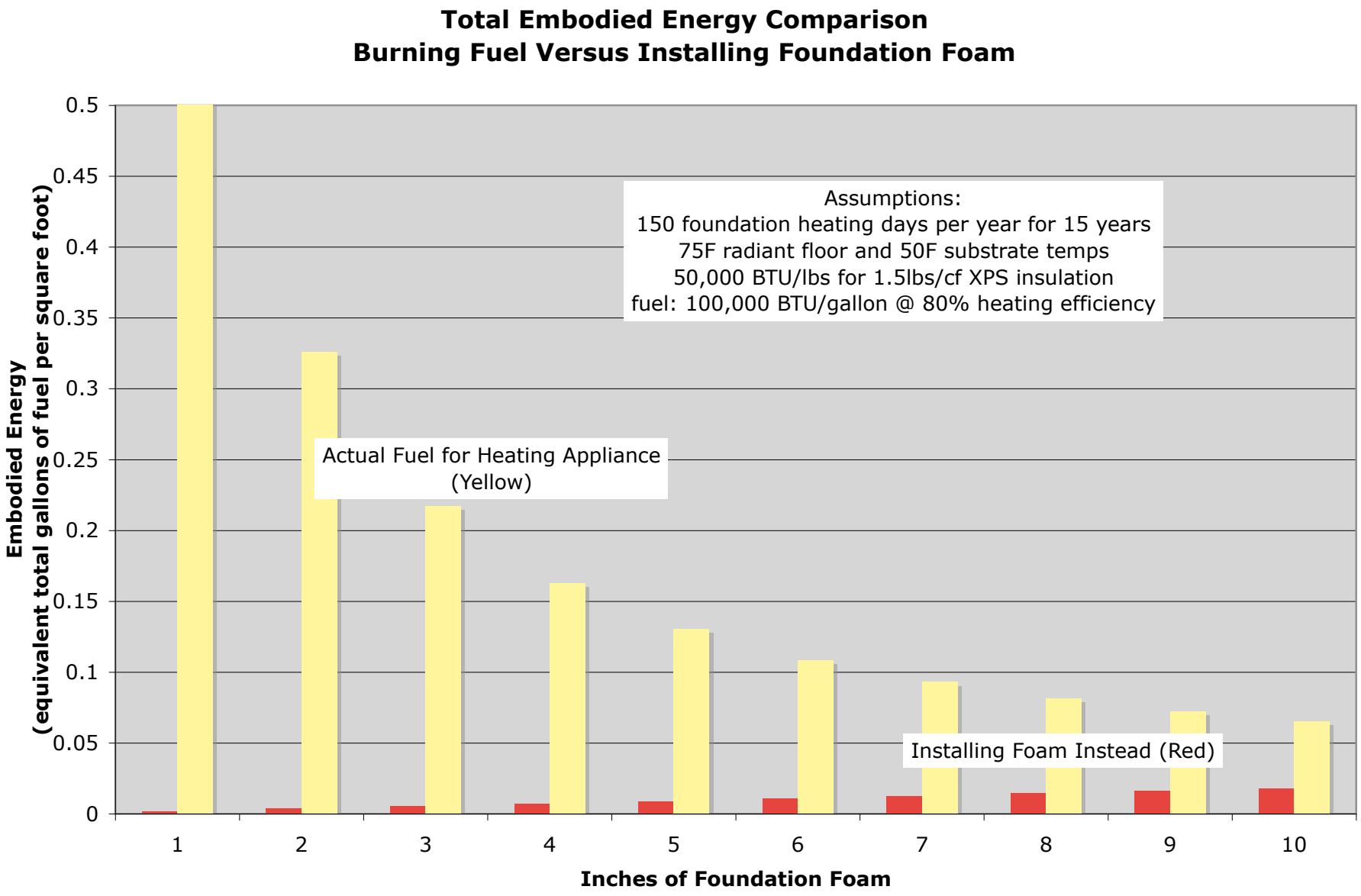
Total Embodied Energy Comparison
Burning Fuel Versus Installing Foundation Foam
Embodied Energy
(equivalent total gallons of fuel per square foot)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Assumptions:
150 foundation heating days per year for 15 years
75F radiant floor and 50F substrate temps
50,000 BTU/lbs for 1.5lbs/cf XPS insulation
fuel: 100,000 BTU/gallon @ 80% heating efficiency
Actual Fuel for Heating Appliance
(Yellow)
Installing Foam Instead (Red)
1
2
3
4
5
6
7
8
9
10
Inches of Foundation Foam