

$$\frac{.2 \text{ BTU}}{\text{hr} \cdot \text{ft}^2 \cdot ^\circ\text{F}} \cdot \frac{24 \text{ HR}}{1 \text{ DAY}} \cdot \frac{1 \text{ ft} \cdot (12+12+10) \text{ ft}}{1}$$

$$\frac{70^\circ\text{F} - 30^\circ\text{F}}{1} = 6,528 \text{ BTU/DAY}$$

$$\left(\frac{1 \text{ day}}{6528 \text{ BTU}} \cdot \frac{24 \times 10^6 \text{ BTU}}{1 \text{ CORD SUGAR MAPLE}} \right)^{-1} = 0.000272 \text{ cord}$$

$$.000272 \text{ cord} \cdot \frac{128 \text{ ft}^3}{1 \text{ CORD}} \cdot \frac{12 \text{ in}/\text{ft} \cdot 1.25}{16 \text{ in long firewood}} =$$

$$0.0326 \text{ ft}^2 = 4.7 \text{ sq in} \times 16'' \text{ long FIREWOOD}$$

$$\sqrt{4.7 \text{ in}^2} = 2.2''$$

1 PIECE 2.2 x 2.2 x 16'' FIREWOOD
PER DAY

OR RUNNING STOVE 180 DAYS

$$\frac{180 \text{ DAYS}}{\text{YEAR}} \cdot 0.000272 \text{ CORD/DAY} = 0.05 \text{ CORD/YEAR}$$