

TECHNICAL NOTES

FOREST PRODUCTS LABORATORY

U. S. FOREST SERVICE

MADISON, WISCONSIN

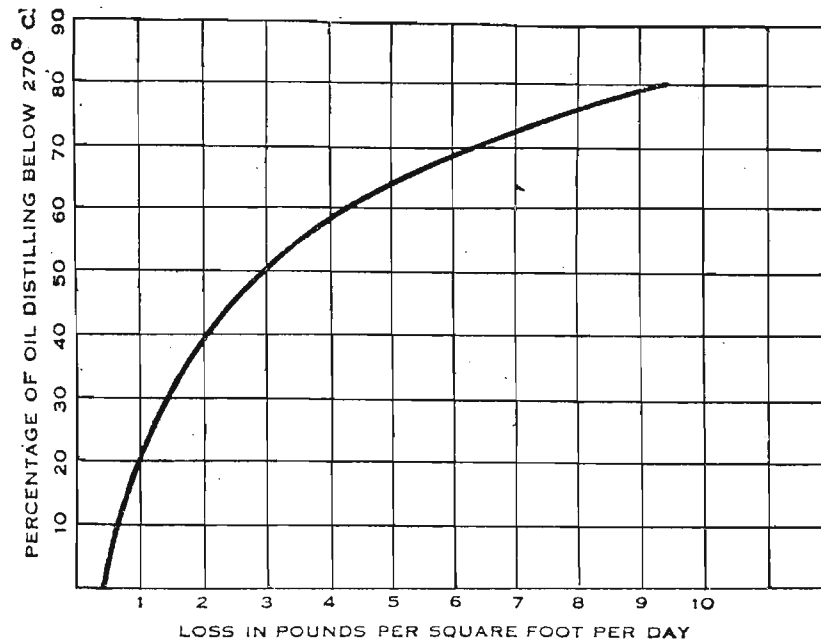
No. 118

LOSS OF CREOSOTE BY EVAPORATION FROM OPEN TANKS

The amount of creosote lost through evaporation in open tank treatments has been shown in experiments at the Forest Products Laboratory to be in proportion to the area of the exposed surface and the volatility of the oil. At the treating temperature of 195° Fahrenheit, the loss of creosote in pounds per square foot per day may be computed from the equation,

$$\text{Log } L = .0165 V - .347$$

in which L is the loss in pounds per square foot of exposed surface, and V the percentage of the creosote distilling below 270° centigrade. Or the loss may be found without computation from the curve of this equation given below.



The equation and curve given here are applicable only when the temperature of the treating bath is in the neighborhood of 195° Fahrenheit. At higher and lower temperatures, constants other than .0165 and .347 should be used, and these constants have not yet been determined.