

QUANTIFYING PINE DECLINE LEAF AREA INDEX MEASUREMENT

Forest Health Dynamics Laboratory
School of Forestry and Wildlife Sciences, Auburn University



LEAF AREA INDEX (LAI)

- LAI – Leaf area/ground area (m^2/m^2)
- Ceptometer
- $L = [(1 - 1/2K) f_b - 1] * \ln \tau / (A (1 - 0.47f_b))$

L – Leaf area index

K – Extinction coefficient

f_b – Fraction of incident PAR

τ – PAR below to PAR above

A- Leaf absorbance



Effect	Df	P - Value
Pre-Inoculation	4	0.1559
Post-Inoculation		
Inoculum density (I)	4	0.0080
Period (T)	1	0.0024
I X T	4	0.7402

