

Land Cover Investigation

Measure Tree Height on a Slope: Stand by Tree Data Sheet

School Name: _____ Site: _____

Measurement Time: _____
 Year Month Day Hour (UT)

Recorded By: _____

Clinometer Data

Dominant Species _____	Clinometer Reading (°)	TAN of Clinometer Reading	Height to 0° on Tree (m)	Distance to Tree (m)	Tree Height (m)	Average Tree Height (m)
Specimen 1.						
Specimen 2.						
Specimen 3.						
Specimen 4.						
Specimen 5.						

Co-Dominant Species _____	Clinometer Reading (°)	TAN of Clinometer Reading	Height to 0° on Tree (m)	Distance to Tree (m)	Tree Height (m)	Average Tree Height (m)
Specimen 1.						
Specimen 2.						
Specimen 3.						
Specimen 4.						
Specimen 5.						

$$\text{Tree Height} = [(\text{TAN of Clinometer Reading}) \times (\text{Distance to Tree})] + (\text{Height to } 0^\circ \text{ on Tree})$$

Note: Measure each tree three times and average the three height values. If all three values are within 1 meter of the average, report the values. If not, repeat the measurements until they are within 1 meter of their average, and then report these values.