Land Cover Investigation

Measure Tree Height on a Slope: Two-Triangle with Feet Higher than Tree Base Technique Data Sheet

School Name: _____ Site: _____

Measurement Time: _____
Year Month Day Hour (UT)

Recorded By: _____

Clinometer Data

Dominant Species _____	1st Clinometer Reading (°)	TAN of 1st Clinometer Reading	2nd Clinometer Reading (°)	TAN of 2nd Clinometer Reading	3rd Clinometer Reading (°)	COS of 3rd Clinometer Reading	Distance to the Tree (m)	Baseline Calculation (m)	Tree Height (m)	Average Tree Height (m)
Specimen 1.										
Specimen 2.										
Specimen 3.										
Specimen 4.										
Specimen 5.										

Baseline = (Distance to the Tree) x (COS of 3rd Clinometer Reading)

Tree Height = [(TAN of 1st Clinometer Reading) x (Baseline)] + [(TAN of 2nd Clinometer Reading) x (Baseline)]

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.

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Measure Tree Height on a Slope: Two-Triangle with Feet Higher than Tree Base Technique Data Sheet – Page 2

School Name: _____ Site: _____

Measurement Time: _____
Year Month Day Hour (UT)

Recorded By: _____

Clinometer Data

Co-Dominant Species _____	1st Clinometer Reading (°)	TAN of 1st Clinometer Reading	2nd Clinometer Reading (°)	TAN of 2nd Clinometer Reading	3rd Clinometer Reading (°)	COS of 3rd Clinometer Reading	Distance to the Tree (m)	Baseline Calculation (m)	Tree Height (m)	Average Tree Height (m)
Specimen 1.										
Specimen 2.										
Specimen 3.										
Specimen 4.										
Specimen 5.										

Baseline = (Distance to the Tree) x (COS of 3rd Clinometer Reading)

Tree Height = [(TAN of 1st Clinometer Reading) x (Baseline)] + [(TAN of 2nd Clinometer Reading) x (Baseline)]

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.