

## Tree Taper and Site Study

### Sampling Design:

Design your sample according to a stratification of your lands based on...

- Elevation
- Aspect
- Slope
- Precipitation
- Site Index
- Etc.

### Methods and Procedures:

1. Study Procedures (3 trees/species minimum - biggest, smallest, middle)
  - a. Cut subject tree / de-limb as necessary
  - b. Record
    - i. Stump height – 100' tape
    - ii. Stump diameter – calipers
    - iii. Stump double bark thickness – use measure with 6" ruler in 2 places at that location on the tree
    - iv. Stump age (if possible)
    - v. DBH – calipers
    - vi. Crown diameter – ocular estimate of crown diameter
    - vii. Crown ratio or average crown height – 100' tape
  - c. Mark 4.5' and 34' and any other merchantable steps (67') – Marking implement
  - d. Measure diameter increments up the tree (DBH/10 then round to nearest inch) – use calipers by making two measurements at right angles then averaging to diameter at any point. Record at each:
    - i. Height – 100' tape
    - ii. Diameter – use calipers by making two measurements at right angles then averaging to diameter at any point.
    - iii. Double bark thickness – use chainsaw to remove bark then measure with 6" ruler in 2 places at that location on the tree



*Site / Taper Data Collection Form*

Data Collector: \_\_\_\_\_ Feller: \_\_\_\_\_

Tree No.: \_\_\_\_\_ Species: \_\_\_\_\_

Location: \_\_\_\_\_ Time/Date: \_\_\_\_\_

Lat: N \_\_\_\_\_ Long: W \_\_\_\_\_

Elevation: \_\_\_\_\_ Aspect: \_\_\_\_\_ Slope: \_\_\_\_\_

Ht Live Crn: \_\_\_\_\_ Crown Dia: \_\_\_\_\_

Msmt #	DOB	Height	Double Bark	Age	Notes
10					
9					
8					
7					
6					
5					
4					
3					
2					
Tip	0"		0"	0	
10m		34'			
DBH		4.5'			
Base (1)					

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Tree No.: \_\_\_\_\_ Species: \_\_\_\_\_

Location: \_\_\_\_\_ Time/Date: \_\_\_\_\_

Lat: N \_\_\_\_\_ Long: W \_\_\_\_\_

Elevation: \_\_\_\_\_ Aspect: \_\_\_\_\_ Slope: \_\_\_\_\_

Ht Live Crn: \_\_\_\_\_ Crown Dia: \_\_\_\_\_

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