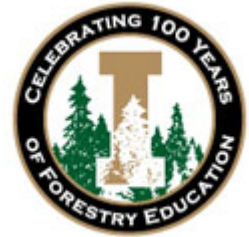


College of Natural Resources

Department of Forest Resources Forest Measurements and Inventory Laboratory 2



Part 1: Establishing Plots

The objectives of this laboratory exercise are to:

- Work together in groups to **efficiently** set-up plots of various sizes and when using different measurement systems
- Become familiar with “pacing your chain”
- Become familiar with visualizing plot sizes and areas

Location: Meet at **the grassy area between the CNR and Agricultural Sciences building** at 1:15pm

Materials and Supplies:

- Clipboard
- Pencils
- Loggers Tape
- We will provide additional 100' tapes
- Calculator

Part 1: Pacing your Chain

A 100ft measuring tape will be laid out on flat ground, with a flag placed at the beginning and at 66 feet. The goal of this first task is for **you** to determine how many of your paces are in a chain. **Remember a pace is every 2nd step.**

Walk 66 feet and count how many paces you take: _____ paces

Walk the 66 feet again and count your number of paces: _____ paces

Average of the two: _____ average paces

Use the following conversion formula to calculate how many feet are in your pace:

Feet in your pace = $66/\text{average pace}$: _____ feet = _____ meters

[1 foot = 0.3048 m; 66 feet = 20.1168 m; 100m ~ 330 feet]

Part 2: Establishing Plots

In your group, establish each of the following plots:

- a. 1/10 acre circular plot with a flag at each of the N, S, E, and W far points and a chaining pin at plot center
- b. 1/100 acre circular plot with a flag at each of the N, S, E, and W far points and a chaining pin at plot center
- c. 1/1000 acre circular plot with a flag at each of the N, S, E, and W far points and a chaining pin at plot center
- d. 10mx10m square plot with flags at each corner and a chaining pin at plot center
- e. 1/10 hectare circular plot with a flag at each of the N, S, E, and W far points and a chaining pin at plot center
- f. 1/100 hectare circular plot with a flag at each of the N, S, E, and W far points and a chaining pin at plot center

Part 3: Slope Correction

At the location identified by your instructor set-up a slope corrected 1/20 acre circular plot with a flag at each of the N, S, E, and W far points and a chaining pin at plot center