

FO-2213 Forest Measurement
Topic 1: **Forest Structure, Measurement System, (Linear and Area)**

Forest Structure

Land:

Distance:

paces
feet and tenths of feet
chains
meters
DME distances (ft, m)

Measurements:

Acre = 10 ch²
Acre = 43,560 ft²
Hectare = 10,000m²

Description:

7.5 minute Quadrangle Sheet
Government Land Office (GLO)
Latitude and Longitude (Lat/long)
Universal Transverse Mercator (UTM)

Trees:

Measurements:

Species

Dbh

Height total height
 merchantable

Form Mesavage and Girard Form Class
 Form Point

Product seedling
 sapling
 pre-merchantable
 pulpwood
 chip'n saw
 sawtimber
 pole/piling
 peeler

tie

Volume cubic feet
 cords
 board feet (Doyle, Scribner, International 1/4)
 tons

Age

Productivity site index

Stands:

Measurements:

Species - Product - Size Class

Site Productivity (site index)

Area

Volume/weight (per acre, total stand)

Inventory Methods:

Sampling design: random vs. systematic

Sampling methods: plots, strips, pps

Equipment:

Tree measurements:

Inventory analysis methods:

Mapping:

Equipment

Procedures