

## Homework No. 7 – Angle Count Sampling

### Point Sampling for Stand Structure Summaries

Rapid assessments for tree-related values are often made using point sampling. In point sampling, the probability of a tree being included is proportional to size; in other words, we sample big trees relatively more than small trees, given their abundance.

### Objective

In this assignment, you practice generating stand level summaries from plot level data much like you did in Homework 07. In this case, the data come from a BAF 10 point sample cruise. You need to use pivot tables, and remember some basics of forest measurement.

### Instructions

On the class website are plot data from a BAF 10 point sample collected in northern hardwoods forest in the western UP. Generate the following summaries at the stand level, for live trees only.

- 1) two-way cross tabulations
  - a. trees per acre by species and diameter class
  - b. basal area per acre by species diameter class
  
- 2) one way cross tabulations
  - a. trees per acre by diameter class and the 95% confidence intervals
  - b. basal area per acre by diameter class and the 95% confidence intervals

Then plot these last two frequency tables as histograms and include error bars to show the confidence intervals.

### Product

Submit your answers in professional memo format. Assume you're preparing the memo for your supervisor at a real job after graduation! What would your supervisor expect to see?

### Due Date

This assignment is due at the beginning of class on Monday March 30, 2009.