FOR 2542 - Forest Inventory
Stem Analysis

David Larsen

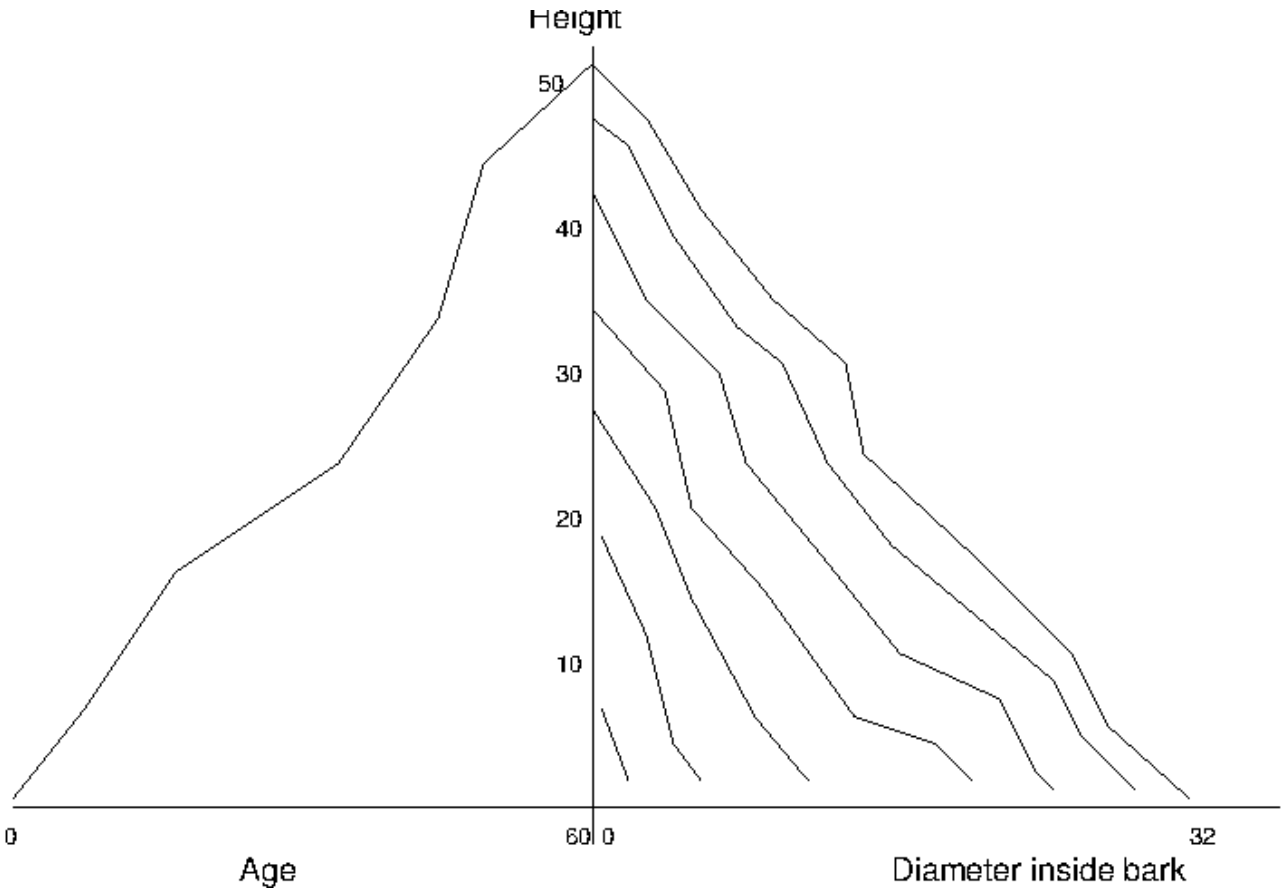
Stem analysis is a procedure that examines the past age and growth of a single tree. This is done by sectioning a tree a intervals up the stem. Stem analysis is not difficult if the data are collected in the correct format. The following is the suggested form to organize the data collection.

First collect general tree information such as DBH, total height, total age, species, and the names of the crew members.

- Measure the stump height, the length of each section, and the length of the leader.
- At each section find an average radius and mark it. Along the radius mark each five years along the radius from the cambium to the pith. Measure the distance from the pith to each mark.
- Take the age at each section.

Tabulate the data as follows:

Section	Length	DIB	Age	Current	-5	-10	-15	-20	-25
stump	1	32	60	32	27	24	22	18	16
2	8	24	50	24	21	19			
3	8	24	42	24	21				


Height
50
40
30
20
10
0
60
0
32
Age
Diameter inside bark