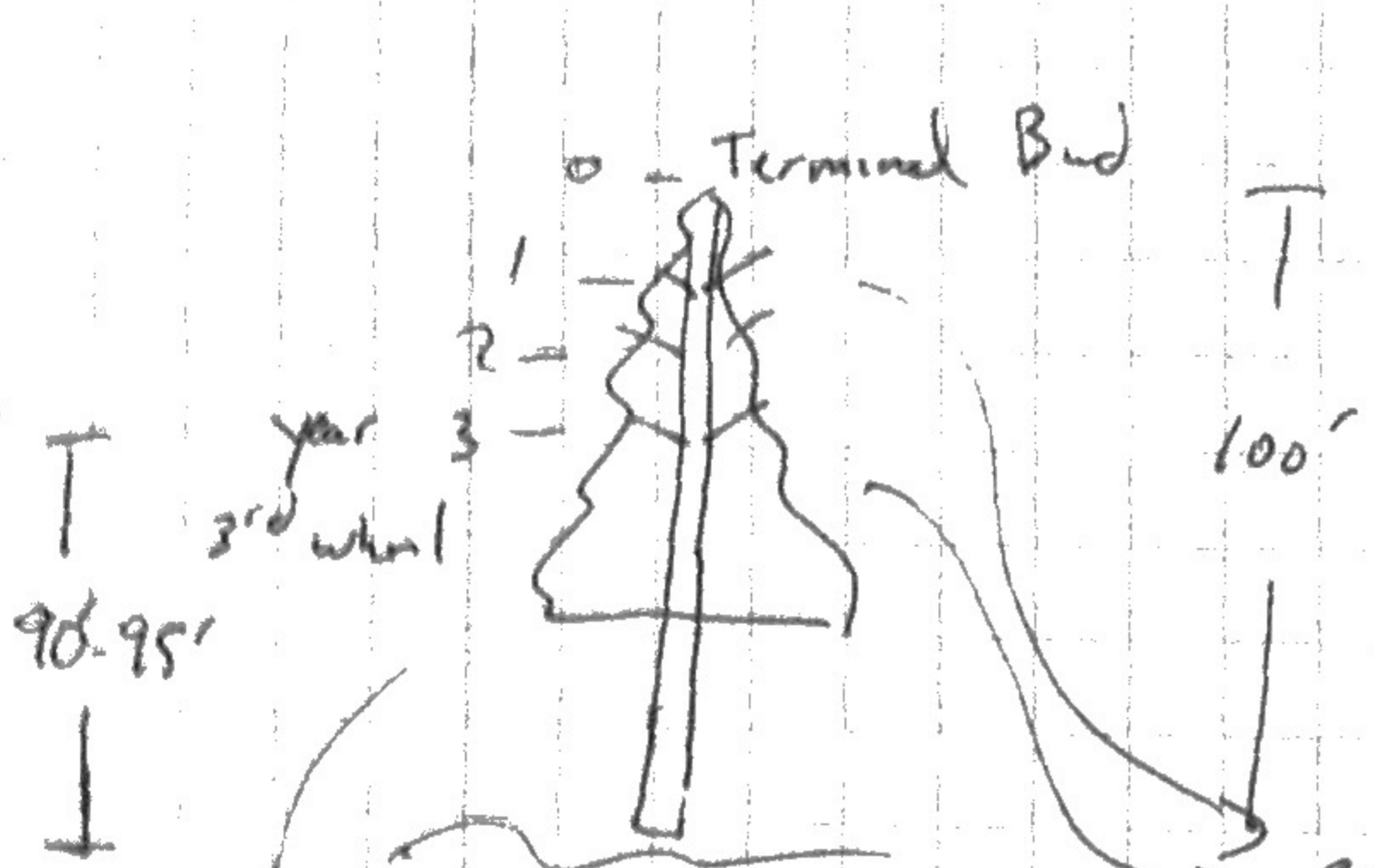


6-23-09 Interview Mark Coleman + Mark Kimsey

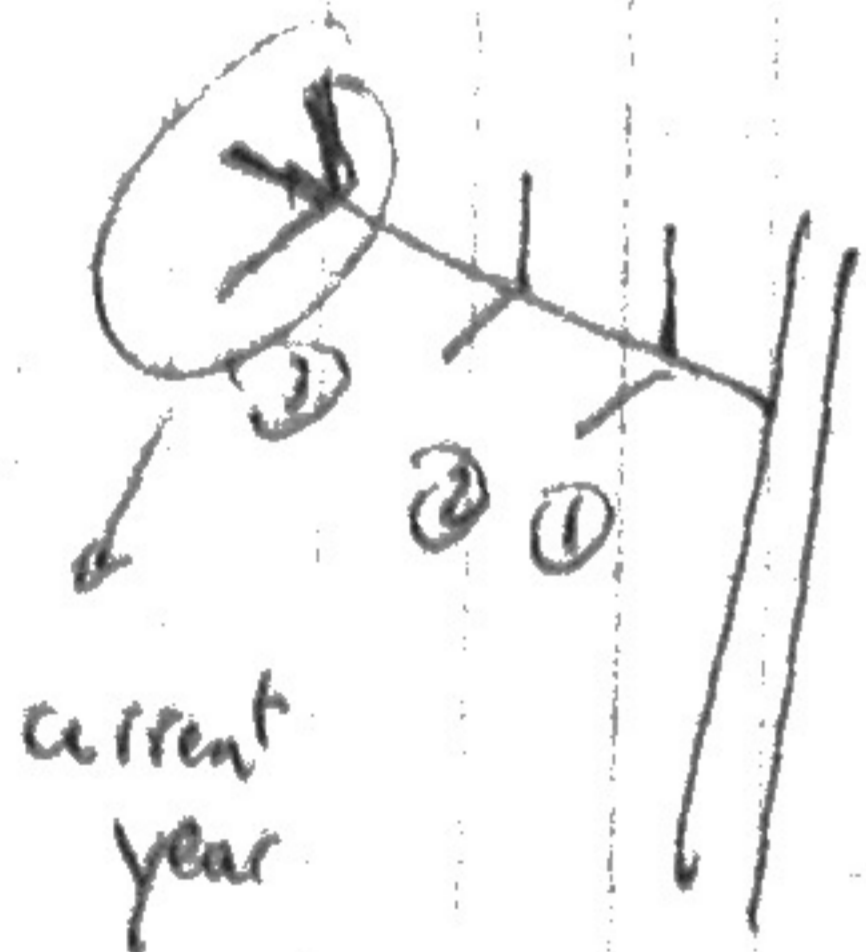
Project - tree foliar sampling

- core goal - forest nutrition
 - nutrient diagnostic tests
 - foliar sample - 3rd whorl



Average height of ^{tree} ~~sample~~ ≈ 85 ft
 Upper seed tree ≈ 120 ft

each node (see branch growth) defines a year of growth



approximately size of pinky to pencil size

- Project learning opportunities
- see trees
 - get samples to cut

weather -
 worst case -
 ideal scenario -
 size restrictions -

- Any conifer (Douglas fir, lodge pole,
- ~~no~~ potential to branch out into other "related" payloads
- they use loppers - pitch not an issue
- catch + retrieve ⇒ got to do better than shotgun
- multiple samples needed
- 1 sample per tree → multiple trees in area - max sample plot 1 acre (usually smaller)
- usually sampling 3-5 would have 10 plots
- telescoping poles go to about 30 feet
- who is operator - Mark Kimsey - less training the better
- simple - easy to use
- climbing tree to get sample ≈ 45 min
- setup time then 5-10 minutes per sample (that would be great)
- typically done in Aug-Dec (10°F-110°F)
- don't typically climb in rain or snow
- conditions are driven by safety
- tree climbing - go in pairs
- # ?
- phase 1 vs phase 2 ⇒ play by ear
- if multiple samples are collected, make sure you can tell them apart
- take sample to open spot + drop is an option but not preferred.