

Tools For Measuring Your Forest

WASHINGTON STATE UNIVERSITY



KING COUNTY EXTENSION

Forestry Hand & Power Tools - Washington State University - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Mail Print View Source Add-ons

Address <http://ext.nrs.wsu.edu/handtools/index.htm> Go Links


WASHINGTON STATE UNIVERSITY *World Class. Face to Face.* CAMPUSES WSU HOME WSU SEARCH myWSU

Washington State University - Cooperative Extension

Basic Hand and Power Forestry Tools

RTI Funding

- Objectives
- Hand & Power Tools
- Suppliers
- Resource Links
- Send Comments/Questions



Cooperative Extension | Natural Resource Sciences

Forestry Hand Tools: handtool@wsu.edu 509-863-8400 (voice & fax) | [Accessibility](#) | [Copyright](#) | [Policies](#)
Tom Brannon, [Washington State University](#), [Cooperative Extension](#), 8774 Colodkum Rd., Malaga, WA, 98828 USA
Webdesign by [Leila Styer](#) - CAHNRS - Computer Resource Unit; content by Dwyhee Weikel-Magden; Natural Resources Extension

<http://ext.nrs.wsu.edu/handtools>

The bare essentials

- Vest
- Writing instruments
- Measuring tape
- Flagging tape
- Woodland stick
- First aid

The electives

- Increment borer
- Compass
- Clinometer
- Calipers
- Prisms
- Hand lens

Vest

- \$30 - \$80
- Keeps all your equipment easily accessible



Waterproof Paper

- Use a pencil to write on
- Find at college bookstores, some office supply stores
- Around \$5 per notebook



Flagging Tape

- \$2 per roll
- Use to mark trees, trails, boundaries, and small equipment



Compass

- Good for determining property boundaries
- Need to set declination (about 17° E in Washington)
- \$10 and up



Hand lens

- \$5 to \$10
- Good for inspecting foliage, bark, increment cores



Tree Measuring Tools

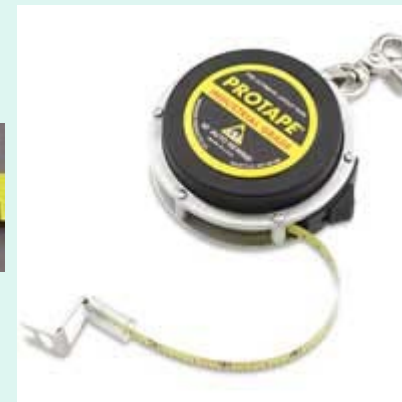


Measuring Tape

- Double-sided – diameter and linear
- 50', 75', 100'
- \$30 and up



Diameter tape



Loggers tape



3.14 inches of tape
= 1 inch diameter

Calipers

- For young trees
- To measure diameter
- Plastic model ~\$7



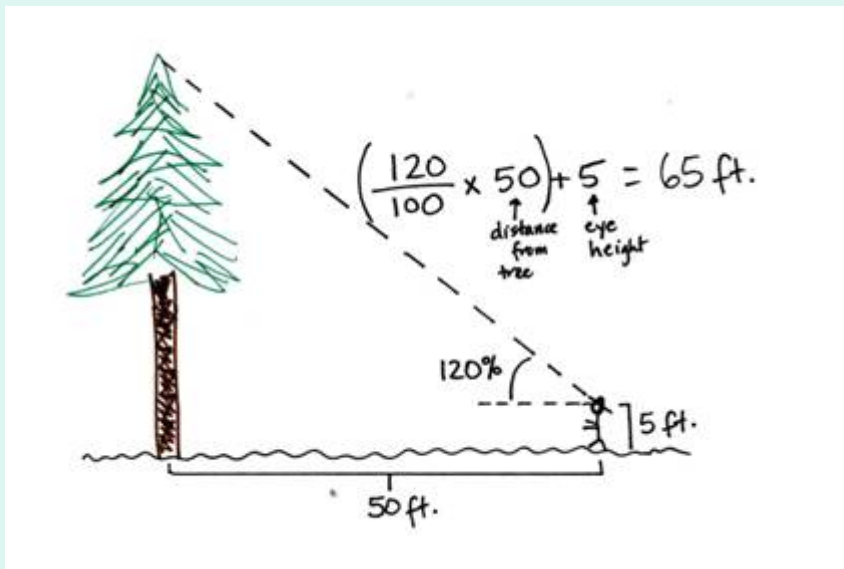
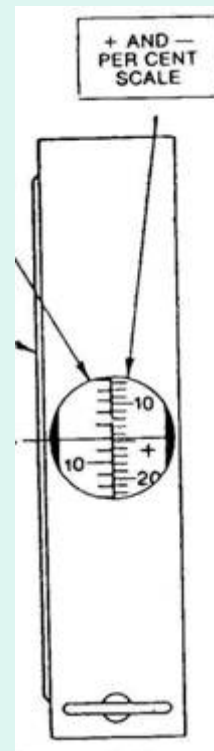
Woodland Stick

- Can measure tree height and diameter (less accurate)
- Can estimate tree/log volume
- Cost: \$10 and up



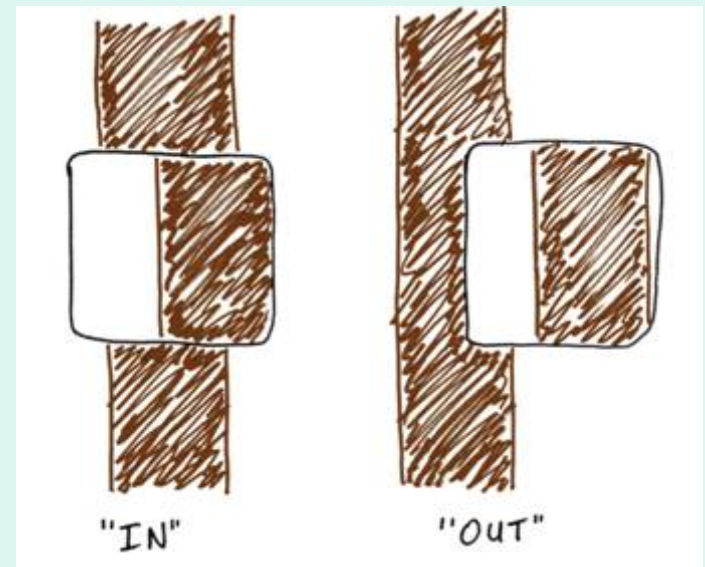
Clinometer

- Use to measure tree height, and/or crown height/ratio
- Cost: \$100 and up



Prism

- For measuring stand density (basal area)
- Quicker than sampling a fixed plot, but less information
- Not for young stands (need clear view of bole)
- Cost: \$20 - \$50



Increment Borer

- About \$200
- Use to measure diameter growth and to age tree
- Plastic straws make good core holders



Last but not least...

First aid supplies

- Bee sting kit
- Cuts and scrapes



Last but not least...

