



Chapter 6 - Tool Identification

Revised 2025

The objective of this section is to familiarize students with some of the basic and commonly used tools and instruments in the forestry profession. The best way to learn to identify the tools is through "hands on" demonstration or display by a forester. Pictures are included at the end of this chapter as another study aid.

For the contest, these tools are divided into the following categories according to their purpose:

- a) Timber cruising and/or log scaling
- b) Measuring distance and direction
- c) Tree planting and site preparation
- d) Safety
- e) Cutting wood and brush
- f) Fighting wildfires
- g) Miscellaneous

For the contest, contestants should be able to identify the following tools and their uses:

- Tools used for **timber cruising and/or log scaling**:
 - Relaskop
 - Clinometer
 - Prism
 - Logger's tape (a double-sided tape with Pi inches on one side for measuring circumference and tenths of feet on the other for measuring distance) (can also be used for measuring distance)
 - Diameter tape (a single-sided tape with Pi inches, only for measuring circumference; usually has a hook on the end for attaching to tree bark)
 - Increment borer
 - Cruiser's vest
 - Log scaling stick
 - Tatum
 - Laser Range Finder (can also be used for measuring distance)

- Tools used for **measuring distance and/or direction**:
 - GPS unit
 - Logger's tape (also used for cruising and scaling)
 - Hand compass
 - Hip chain
 - Steel chain
- Tools used for **tree planting and/or site preparation**:
 - Planting bar
 - Planting spade/shovel
 - Planting bag
 - HoeDad
- Tools used for **safety**:
 - Hard hat
 - Leather gloves
 - Chaps
 - Safety glasses
 - Caulk (Cork) boots
- Tools used for **cutting wood and brush**:
 - Chainsaw (also used for fighting wildfires)
 - Cruiser's axe or hatchet
 - Pulaski
 - Felling wedges
- Tools used for **fighting wildfires**:
 - Backpack pump
 - Chainsaw (also used for cutting wood and brush)
 - Gated 'Y' (comes in several sizes)
 - Hose connector (comes in various sizes)
 - Drip torch
 - Hose clamp
 - Forester nozzle
 - Garden hose nozzle
 - McLeod
- **Miscellaneous** tools:
 - Plastic flagging
 - Tree marking gun
 - Pocket stereoscope
 - Unmanned aerial system (drone)
 - Map
 - LiDAR
 - Peavey

Tools used for Timber Cruising and/or Log Scaling



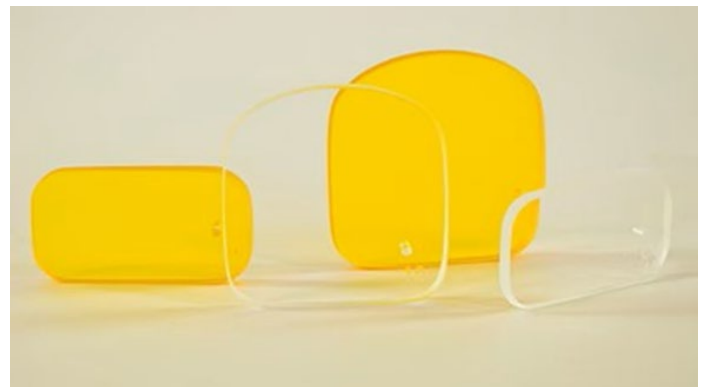
Relaskop



Electronic Relaskop



Clinometer



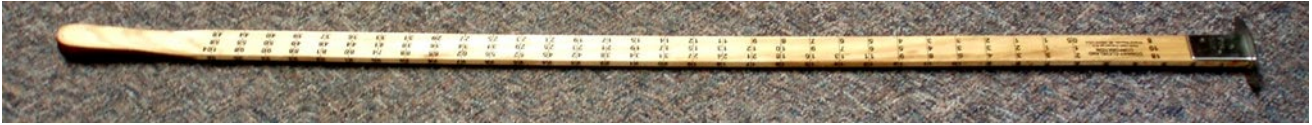
Prism



Logger's Tape



Diameter Tape



Log Scaling Stick



Increment Borer



Cruiser's Vest



Tatum



Laser Range Finder

Tools used for Measuring Distance and/or Direction



GPS Units



Logger's Tape



Hand Compass



Hip Chain

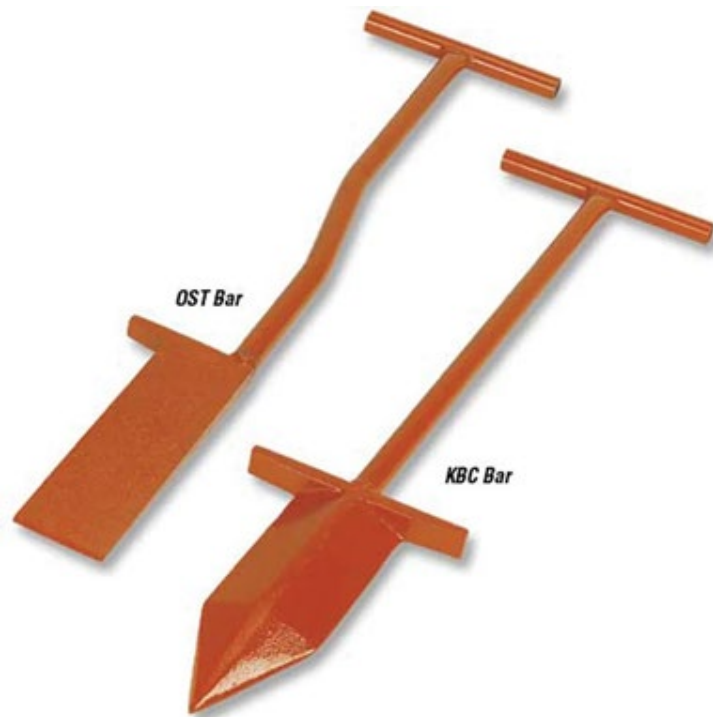


Steel Chain

Tools used for Tree Planting and/or Site Preparation



Planting Spade/Shovel



Planting Bar



Planting Bag



HoeDad

Tools Used for Safety



Leather Gloves



Hard Hat



Chaps



Safety Glasses



Caulk (Cork) Boots

Tools Used for Cutting Wood and Brush



Cruiser's Axe (Hatchet)



Chainsaw



Pulaski



Felling Wedges

Tools Used in Wildland Firefighting



Backpack Pump



Gated Y



Forester Nozzle



Hose Connector



Hose Clamp



Drip Torch



McLeod



Garden Hose Nozzle



Miscellaneous Tools



Plastic Flagging



Tree Marking Paint



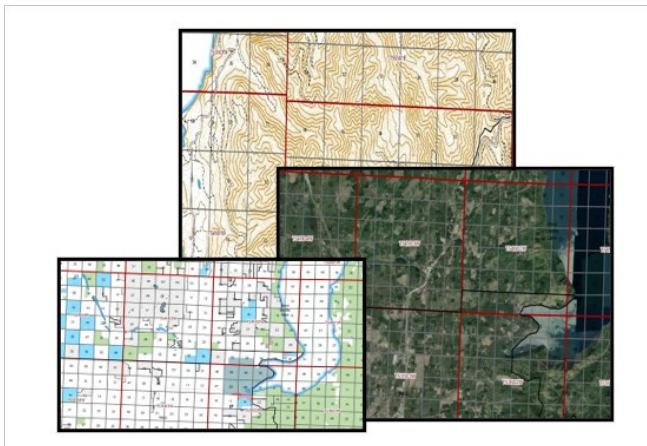
Peavey



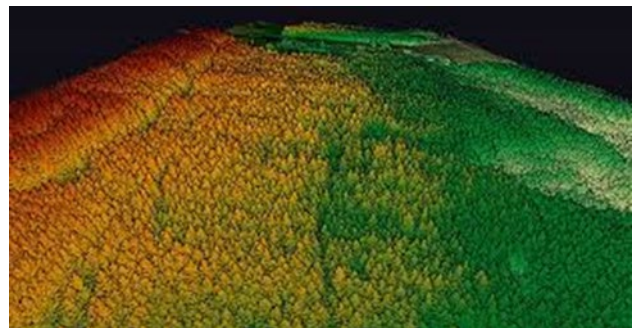
Pocket Stereoscope



Unmanned Aerial System (Drone)



Maps



LiDAR