



## CHAPTER 6 - TOOL IDENTIFICATION

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 provided by three forestry supply catalog companies\* 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)
- 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
- Log scaling stick
- Cruiser's vest
- Tatum

- Tools used for **measuring distance and/or direction**:

- GPS unit
- Hand compass
- Hip chain
- Steel chain
- Logger's Tape (also used for cruising and scaling)

- Tools used for **tree planting and/or site preparation**:

- Planting bag
- Hoedad
- Planting bar
- Planting spade/shovel

- Tools used for **safety**:

- Caulk (Cork) Boots
  - Chaps
  - Hard Hat
  - Leather gloves
  - Safety glasses

- Tools used for **cutting wood and brush**:

- Cruiser's axe or hatchet
  - Chainsaw
  - Pulaski

- Tools used for **fighting wildfires**:

- Backpack pump
  - Chainsaw (also used for cutting wood and brush)
  - Gated 'Y' (comes in several sizes)
  - Hose clamp
  - Hose connector (comes in various sizes)
  - Forester nozzle
  - Mop-up nozzle
  - Pulaski (also used for cutting wood and brush)

- **Miscellaneous** tools:

- Computer
  - Drip Torch
  - Plastic flagging
  - Pocket Stereoscope
  - Map
  - Aerial Photos
  - Tree Marking Gun

\*Forestry supply catalogs used as sources for all pictures except wildfire fighting tools:

Ben Meadows Co. Second Edition 2004  
1-800-241-6401  
[www.benmeadows.com](http://www.benmeadows.com)

Terra Tech, Inc. Catalog 23 (2000)  
1-800-321-1037  
[www.terratech.com](http://www.terratech.com)

Forestry Suppliers, Inc. Catalog 55 (2004-2005)  
1-800-647-5368  
[www.forestry-suppliers.com](http://www.forestry-suppliers.com)

## TOOLS USED FOR TIMBER CRUISING and/or LOG SCALING

(\*Logger's Tape shown on page 6.4)



Cruiser's vest



Tatum



Clinometer



Increment borer



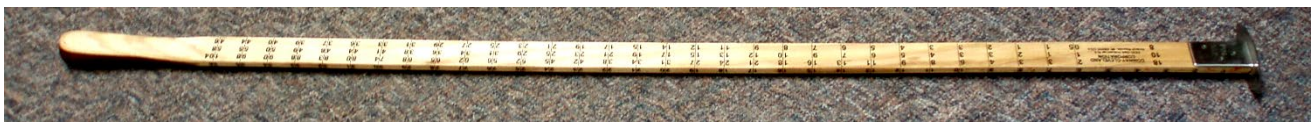
Prism



Diameter tape



Relaskop



Log scaling stick

## TOOLS USED FOR MEASURING DISTANCE and/or DIRECTION



Logger's Tape



Hand compass



GPS unit

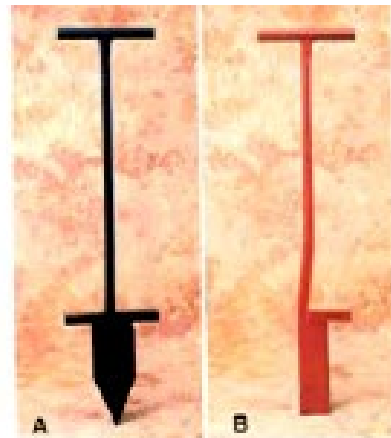


Steel chain



Hip chain

## TOOLS USED FOR PLANTING and/or SITE PREPARATION



Planting bar



Planting bag

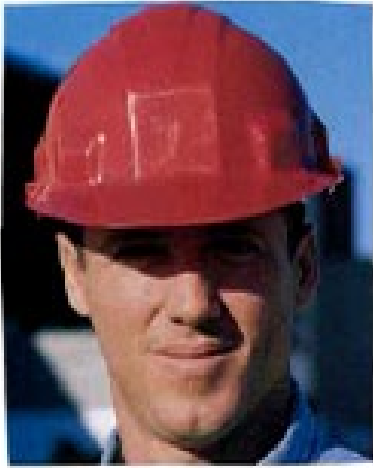


Planting spade/shovel



Hoedad

## TOOLS USED FOR SAFETY



Hard Hat



Leather gloves



Safety glasses

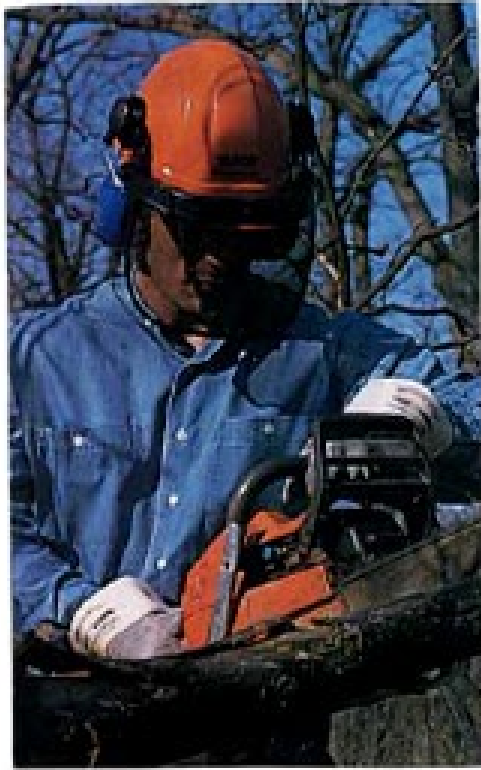


Chaps



Caulk (Cork) Boots

## TOOLS USED FOR CUTTING WOOD and BRUSH



Chainsaw



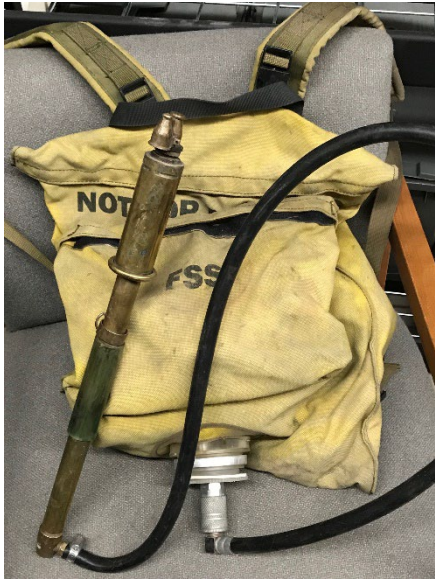
Cruiser's Axe



Pulaski



## TOOLS USED FOR FIGHTING WILDFIRES



Backpack pump



Gated 'Y' (large)



Gated 'Y' (small, for mop-up)



Hose clamp



Hose connector



Forester nozzle



Mop-up nozzle



## MISCELLANEOUS TOOLS



Plastic flagging



Tree Marking Gun



Drip Torch



Computer



Maps & Aerial Photos



Pocket Stereoscope