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 tools that are used in the contest have been divided into 6 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) Miscellaneous

The best way for a student to learn to identify the tools is through a '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, 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

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• 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:

1-800-241-6401
www.benmeadows.com

Terra Tech, Inc. Catalog 23 (2000)
1-800-321-1037
www.terratech.com

1-800-647-5368
www.forestry-suppliers.com
TOOLS USED FOR TIMBER CRUISING and/or LOG SCALING

(*Logger’s Tape shown on page 6.4)
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

Pulaski

Cruiser’s Axe
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