



CONWAY-CLEVELAND CORPORATION

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USING THE CONWAY-CLEVELAND #55S CRUISER STICK

The cruiser stick is used to estimate the board footage in standing trees. Determining this requires figuring the number of 16-foot logs in the tree and their diameters.

I. MEASURING TREE DIAMETER – 25-INCH REACH BILTMORE STICK

Hold the rule horizontally against the tree at 4-1/2 feet above ground level and 25 inches away from your eye. Using the "25 INCH REACH BILTMORE STICK" scale, with your head held motionless, line up the left end of the rule with the edge of the tree, and with the same eye, sight the other edge of the tree. This sight line crosses the figure on the scale indicating the tree's diameter in inches. Note this diameter.

II. MEASURING TREE HEIGHT IN NUMBER OF 16-FOOT LOGS -- MERRITT HYPSONETER

Position yourself one chain (66 feet or approximately 22 paces) from the tree. If the tree is extremely tall, walk away an additional 1/2 chain (or 11 paces). Looking at the MERRITT HYPSONETER side of the rule, place the rule in a vertical position with the low numbers down and the high numbers at the top. With the rule held vertically, 25" from the eye, align the base of the tree at stump height with the bottom of the rule. Without shifting your eye position, sight a line to the useful top of the tree. This line of sight crosses the rule at a number on the Hypsoneter scale indicating the quantity of 16' logs that likely can be cut from the tree. Be sure to use the figures for 1 chain or 1-1/2 chains distance from the tree, whichever you are using. Note this number of logs.

III. FIGURING THE BOARD FEET CONTENT OF THE TREE -- SCRIBNER DECIMAL C

Using the diameter determined above, estimate the diameter (small end of log inside the bark) of each of the 16' logs extending to the useful top of the tree. Placing your thumb on the slanted, Inches edge of the rule at the first diameter, rotate the rule to the Scribner Decimal C scale, and read opposite your thumb the number of tens of board feet in the first log. Repeat for each log estimated in the tree. Adding estimates of all the 16' logs gives an estimate of the total board feet likely to be sawn from the tree.



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