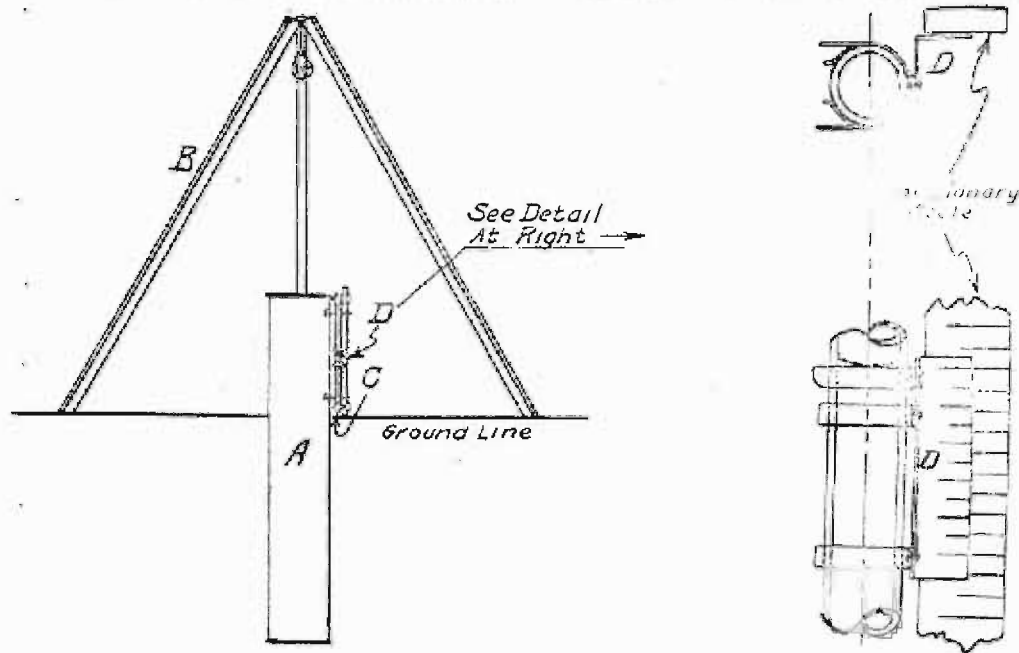


VOLUMETRIC MEASUREMENTS OF PULPWOOD

In making pulpwood measurements and yield determinations, it is often desired to ascertain the solid contents of a piled cord. The apparatus used for that purpose at the Forest Products Laboratory consists of (A) a galvanized tank set in the ground, with a volume of about 1.75 cubic feet per foot of length; (B) a tripod placed over the tank for raising and lowering the heavier sticks; (C) a glass gauge on the side of the tank, calibrated to read in cubic feet and decimals thereof; and (D) a simple vernier scale attached to the glass gauge to permit closer reading to five thousandths of a cubic foot. Ten divisions on the vernier equal nine divisions on the stationary scale. Graduations on the stationary scale are in tenths and five hundredths of a cubic foot.



Before immersing each stick, the water level in the gauge should be at or slightly above the zero mark. The stick is immersed and held just below the surface of the water by a pointed rod stiff enough to overcome the buoyancy of the largest and driest pieces without bending. One gauge reading is made before and one during the immersion of the stick, the difference giving its volume.