



Spherical Densimeters

Estimate forest canopy coverage.

Accurate, one-person measurement of tree canopies. Measure forest overstory density from unobstructed sighting positions. Instruments use a spherical-shaped reflector mirror engraved with a cross-shaped grid of 24 quarter-inch squares.

To take readings, hold the instrument level, 12" to 18" in front of body and at elbow height. Assume four equi-spaced dots in each square of the grid and systematically count the dots equivalent to quarter-square openings. Multiply the total count by 1.04 to obtain percent of overhead area not occupied by canopy. The difference between this and 100 is an estimation of overstory density in percent. Units are housed in a 3"H x 3"W x 1"D walnut case with operating instructions permanently affixed to the lid. A leveling bubble is also included for accurate positioning.

The readings from the *Convex Densimeter* represent a larger sample size area than those of the *Concave Densimeter*.

| No. | Description | Weight | Each |
|------------|--------------------|--------|------|
| 7JB-102165 | Convex Densimeter | 1 lb. | |
| 7JB-102167 | Concave Densimeter | 1 lb. | |

EXTECH INSTRUMENTS

Foot Candle/Lux Meter

Accurately measure the light density in tree canopies. Measures light levels in terms of Foot Candles (Fc) or Lux over a wide range. Measures from 0 to 5,000 Fc in three ranges: 0-199.9 (0.1 Fc resolution), 200-1999 (1.0 Fc resolution), 2000-5000 (10 Fc resolution). Also measures 0-50,000 Lux in three ranges: 0-1999 (1 Lux resolution), 2000-19,999 (10 Lux resolution), 20,000-50,000 (100 Lux resolution).

Sampling time is 0.4 seconds with an accuracy of 5% (± 2 digits). Large 0.5" LCD displays readings to 1999 counts and indicates overrange.

Meter comes equipped with a 1mV per count analog output for downloading to a recorder. Includes one 9V battery. Measures 6.4"H x 2.89"W x 1.2"L.



| No. | Description | Weight | Each |
|------------|-----------------------|---------|------|
| 7JB-102188 | Foot Candle/Lux Meter | 1.0 lb. | |
| 7JB-81315 | Vinyl Carrying Pouch | 0.5 lb. | |

GRS Densitometer

For easy canopy coverage estimations.

The *GRS Densitometer* offers a simple solution for your canopy coverage estimation needs. The 45° mirror provides a quick view of your immediate canopy coverage. Internal levels ensure perfect 90° views with every reading.

Estimating your canopy coverage is simple. For example, if you take 100 equidistant readings along a transverse and 48 of those readings show canopy coverage, then your canopy coverage is 48%. The durable construction proves its strength in the roughest conditions. Can even be used for approximating ground coverage conditions.



•The 45° mirror and internal levels ensures a perfect 90° view every time.

| No. | Description | Wt. | Each |
|------------|------------------|---------|------|
| 7JB-102170 | GRS Densitometer | 0.8 lb. | |

•See page 271 for Plant Stress Detection Glasses.

Metric Portable Leaf Area Meter

Used to run comparison studies on plant growth.

Evaluates environmental effects on plants by monitoring the growth cycle of their leaves. Determines the effects of many parameters on plant growth such as water stress, weed competition, temperature, light, etc. With this nondestructive form of sampling, numerous measurements can be taken throughout the life of a plant without damaging its leaves.

Uses a white back plate, with guide rails for operation, and a clear film sheet to cover leaves while measuring. As the fiber-optic scanning system travels over the leaf it instantly displays LCD measurements on the hand-held meter. Unit measures six parameters: area, length, width, perimeter, shape-factor and ratio and at the same time compiling them into data sets. Built-in datalogger stores 4000 data sets that can be transferred to your PC or printer.

Includes hand-held scanner, scan board, computer interface, battery charger, communications software and manual. Measures 15" x 10" x 1". Measuring width: 4.3" (110mm).



| No. | Description | Weight | Each |
|--------------|---------------------------------|--------|------|
| 7JB-301020 ■ | Metric Portable Leaf Area Meter | 5 lb. | |

■ Metric