

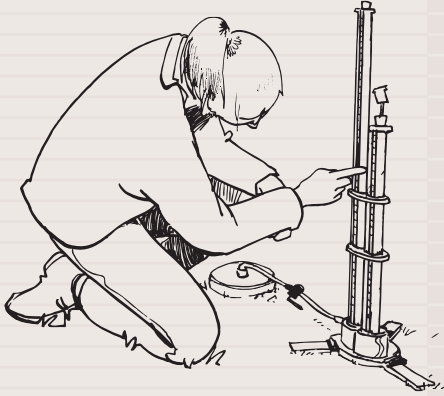


You will return to the contents of P1 SOIL by clicking the pictogram

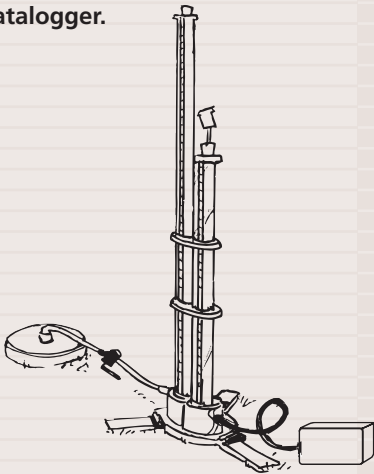
WATER INFILTRATION MEASUREMENTS

P1.61

The flow rate is read directly from the water column.



The tension infiltrometer with pressure transducer is connected to a datalogger.



BENEFITS

09.09 Tension infiltrometer

- Measures unsaturated infiltration capacity
- Ideal for sprinkler irrigation advice
- Insensitive for root tunnels, insect borings
- Comes to an equilibrium quickly
- Intermediate sand for optimal soil contact
- Very limited soil surface alteration

09.09 Tension infiltrometer

The tension infiltrometer measures the hydraulic properties of unsaturated soil. Water held under tension infiltrates into a dry soil through a highly permeable nylon membrane.

The time dependent infiltration rate is used to calculate unsaturated hydraulic conductivities and related hydraulic properties. Infiltration rates are recorded manually.

With the pressure transducers, which can be connected to a datalogger, the rates can also be read electronically. The pressure transducers can be attached to the top and the bottom of the water reservoir.

The standard set contains:

A tension infiltrometer with separate base plate, a small hand-operated vacuum pump for use during calibration, a metal ring and spare nylon mesh screens. Pressure transducers and a datalogger are optional items (see P4.30).

Advantages

- Separate infiltration disc for greater stability.
- On site determination of hydraulic properties.
- Low volume of water.
- Three adjustable tension settings.
- Flow rates read directly from water column or with an optional tensimeter.
- Optional transducers and datalogger or tensi-recorder allow electronic data collection.
- Polycarbonate and plexi-glass materials.
- Replaceable nylon mesh screen membrane.



Tension infiltrometer, complete set