

IRR☉METER[®]

SOIL SOLUTION ACCESS TUBES model SSAT

Soil Water Sampling Tools for Fertigation Management

*Helps you determine when and
how much fertilizer to inject*

Soil Solution Access Tubes, or Suction Lysimeters, are most typically used to extract soil water samples from varying depths in the root zone of crops under drip irrigation that undergo frequent fertigation. When used in conjunction with tissue analysis for calibration, management practices can be developed which allow the grower to adjust the rate and timing of fertilizer applications. The user benefits from increased production and higher quality, while minimizing fertilizer expense and mitigating the leaching of nutrients.

For measuring nitrate levels, salinity, EC, or other chemical elements commonly associated with soil water management in irrigation (fertigation) regimes. Allows you to take full advantage of residual and mineralized nitrogen by delaying or minimizing fertilizer applications. Monitoring below the root zone can verify the presence or absence of nitrate leaching.

The extracted soil water samples are commonly tested with electronic meters or portable test kits. This useful in-field sampling technique is quick and easy to perform which makes it well suited to the frequent fertigation schedules found with certain growing conditions.

From the makers of:
IRR☉METER *finest tensiometer*
WATERMARK *soil moisture sensors*



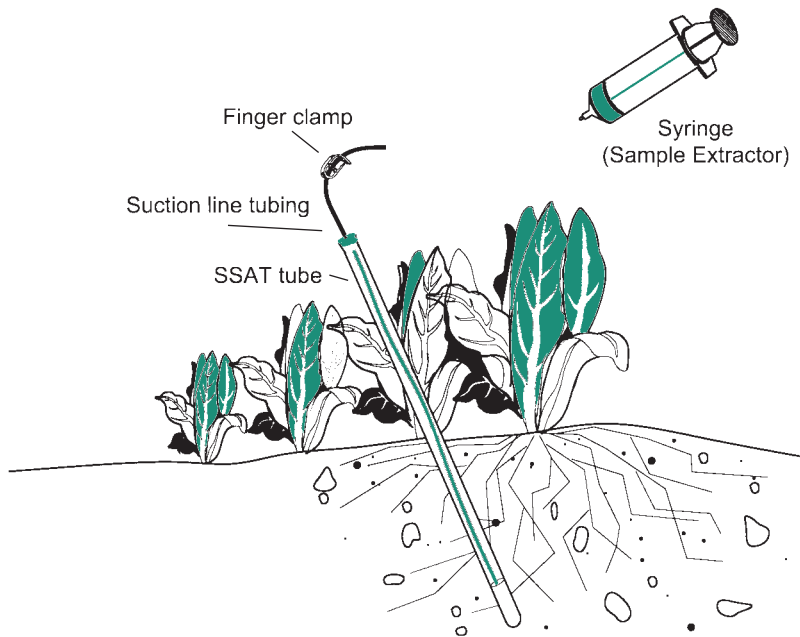
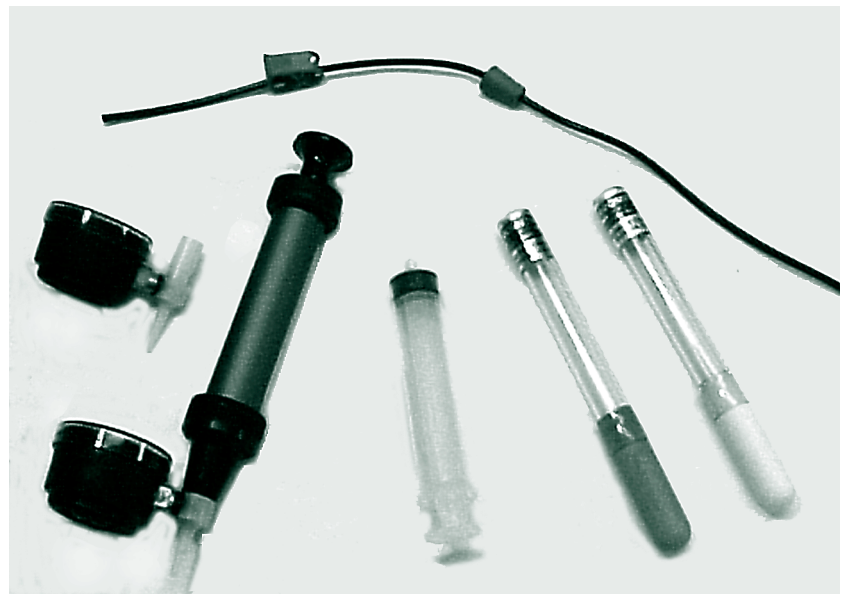
NOTES:

SSAT's are available in standard lengths from 6" to 72" and include a single suction line, stopper and finger clamp.

Hand vacuum pump with gauge and tubing adapter is used for putting the tube under vacuum for sample collection.

Syringe is used for extraction of the collected soil solution.

Tubes are available with either our standard 1 bar ceramic tip for use with medium to heavy soils or our "LT" (Low Tension) 1/2 bar ceramic tip for use with lighter soils and potting media.



Tubes longer than the necessary sampling depth are commonly used to allow for sufficient vacuum capacity and/or larger sample size. For example, using an 18" SSAT for sampling at a 6" depth allows the tube to remain under a sufficient vacuum for a longer period of time.

For use anywhere soluble solutions need to be extracted from the soil.



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