

503DR Hydroprobe

FEATURES

- Sets the standards for soil moisture measurement
- New and used Neutron Probes available
- World wide repair service
- Complete package available with all the necessary equipment to begin irrigation scheduling with a Neutron Probe
- PRWIN irrigation scheduling and crop management software

CPN 503DR-1.5 Neutron Probe sets the standards for soil moisture measurement for both scientific research and irrigation scheduling.

Readings of soil water content recorded in the Neutron Probe are automatically uploaded to computer for review and analysis.



New and used Hydroprobes for sale

ICT conducts an active business with both sales of new CPN 503DR Hydroprobes; and sales of second hand CPN 503 and CPN 503DR Hydroprobes. The used Neutron Probes are carefully checked and any necessary repairs effected. The warranty offered is the same as for a new Hydroprobe, which is 12 months parts and labour.

Service and repair

ICT International has 20 years experience in repairing of Neutron Probes and has been providing a worldwide repair service to any CPN 503 or CPN 503DR Neutron Probe.

The repair service includes all aspects of repair of the display and probe electronics as well as replacement of cables and battery chargers. Display and probe electronics are posted to ICT International, repaired and returned.

Cables of any length can be made up to customer specification, upon request.

Display electronics are available, both new and second hand, to enable upgrade of CPN 503 to CPN 503DR.

PRWIN software

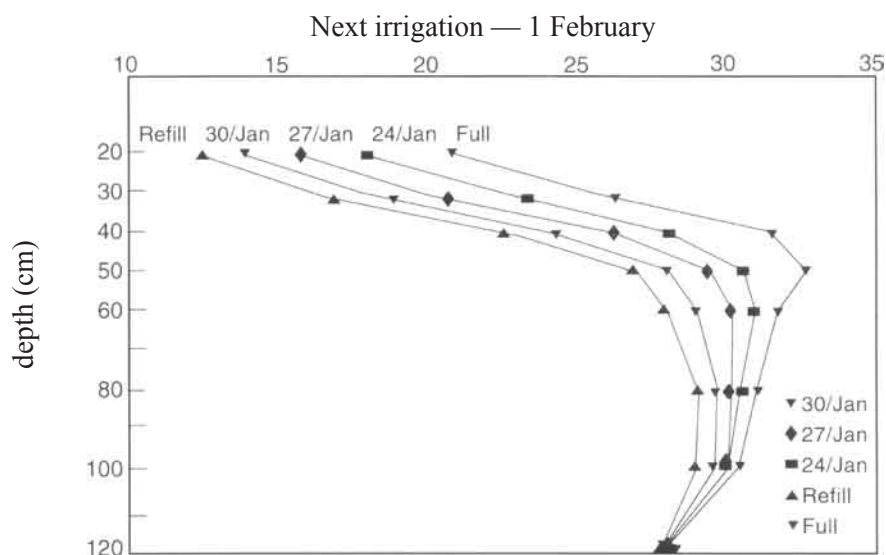
The PRWIN Irrigation Scheduling and Crop Management Software is available for use with the 503DR Hydroprobe.

Readings of soil water content recorded in the Hydroprobe are automatically uploaded to a computer. The software predicts the next irrigation date for each site, based on the crop's actual daily water use and the current soil water content. It also allows identification of through-drainage, over-irrigation and soil compaction problems.

The soil water content, root extraction pattern and crop growth of many sites, for any year, can be easily and thoroughly examined. Sites can be compared year to year for changes in soil and crop behaviour.

Data from weather stations and agronomic information, such as fruit size and quality, can be incorporated into the software. The effects of soil water content, weather and other related management practices on crop growth and yield can then be quantitatively assessed.

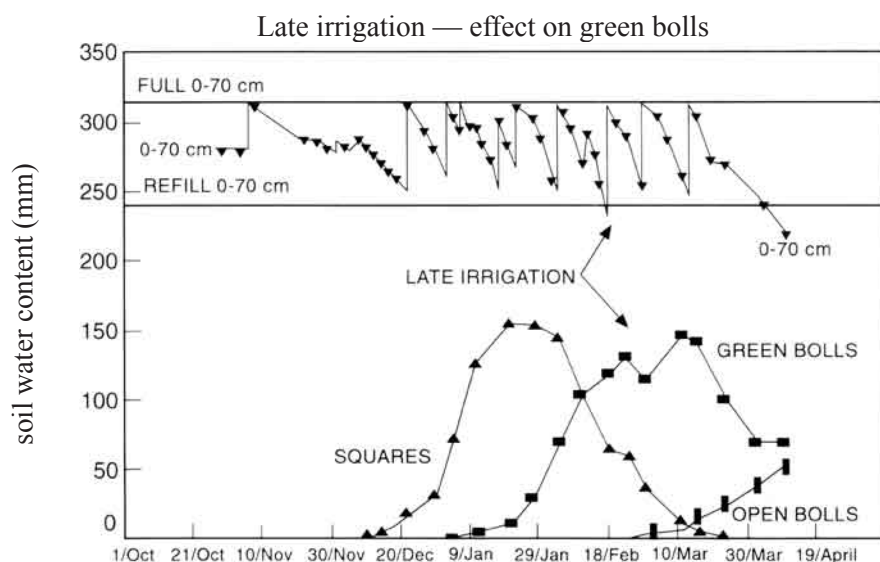
The software can produce reports ranking sites in order from driest to wettest, and tabulate the farm water requirements on a day-by-day basis for a two week period. Also generated are time graphs showing soil and crop behaviour over the whole season and depth graphs showing soil water extraction profiles by the crop's root system.



depth	full	refill	previous	current	days	PWU	date	EWU	date	amount
0-120	190	140	160	148	3.0	4.0	1 Feb	2.7	2 Feb	50 mm

PWU: Probe daily Water Use (mm)

EWU: Estimated daily Water Use (mm)



SPECIFICATIONS

Hydroprobe 503DR-1.5 Direct Reading Neutron Moisture Probe

38.1 mm (1.5") probe shell diameter

Shipping and storage case, lock & keys, 2.44 m cable, 10 cable stops, sign kit, wipe test kit, certificate, tool kit, access tube adapter, and operating instructions.

Performance

Range: 0.0-0.50 gcc

Precision at 1 minute: ±0.002 gcc

Counting Time: From 1 to 256 seconds, 1 second increments.

Display: Large, 8 character LCD. Easily readable in direct sunlight.

Units: Operator selectable: counts, count ratio, gcc, % moisture and counts per 16 seconds.

Memory storage: 24 K bytes in user selectable format.

Serial interface: RS232C upload to a PC.

Calibration: 16 operator selectable linear calibrations.

Power

Battery: Pack of 6 C-size alkaline cells. Field replaceable without memory loss.

Consumption: 10 mA average. Allows up to 15,000 30-second tests.

Radiological

Neutron source: 1.85 GBq Americium-241/Be

Encapsulation: Double-seated capsule, CPN-131

Dose rate at handle: Less than 5 µSv/hr



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