

Soil Moisture Stations for effective irrigation management

To help you improve the precision of your irrigation decisions we provide a unique and innovative soil moisture monitoring service with an e-mail alert of drying conditions and confirmation of water applied.

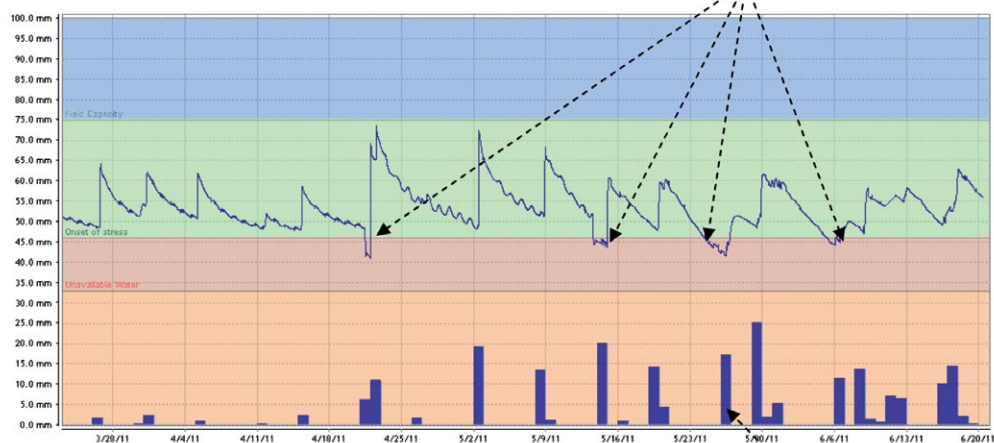
Plantsystems offer professional 'go anywhere' solar powered GSM/GRPS monitoring units with rain gauge, multi-level soil moisture and soil temperature sensors. A range of depths can be monitored from 10cm to 90cm. Air temperature and humidity sensors can also be added for frost or disease monitoring purposes.



These can be deployed in reference crops in almost any location. A continuous record of data is available 24/7 to the grower via web browser, smart phone and tablet. Services offered include email alerts that are triggered when soil water content drops below a planned threshold and when significant irrigation or rainfall is captured.

Example Information

Warning messages of low soil moisture content



Full installation, training and advice are provided from our team of expert agronomists.

Key Benefits

- Irrigate to meet crop water requirements and improve yield
- Avoid over-irrigation and wash out of nutrients
- Improve crop quality
- Optimise water, fertiliser and energy input
- Optimise use of available irrigation equipment
- Rent more than three units and receive our active irrigation scheduling service at no additional cost



ACTIVE Irrigation Scheduling Service for Vegetables and Potatoes

Plantsystems active irrigation scheduling service provides a weekly manager's report of current and forecast irrigation requirements of reference crops. This is delivered by email.

Plantsystems take current soil moisture readings from soil moisture stations installed in your reference crops and combine these with local weather forecast data to predict future irrigation requirements. The inclusion of soil moisture readings from soil moisture sensors dramatically improves the accuracy of irrigation scheduling as current soil conditions are continuously measured.



Plantsystems

ACTIVE Irrigation Probe Report for *Landbase Limited*

09 March 2012							
Reference	Soil Type	Rooting depth estimate mm	Current deficit estimate mm	Irrigation required	3 days ahead	5 days ahead	7 days ahead
Ref 1	Fine sandy loam	350	36	NO	NO	NO	NO
Ref 2	Medium sand	350	20	NO	NO	NO	NO
Ref 3	Fine sandy loam	300	36	YES	YES	NO	YES
Ref 4	Silty clay loam	250	45	YES	YES	YES	YES
Ref 5	Silty clay loam	300	45	YES	YES	YES	YES
Forecast					3 days	5 days	7 days
ETOmm					15	18	24
Precipitation mm					13	24	26

Key Benefits

- Irrigate to meet crop water requirements and improve yield
- Avoid over-irrigation and wash out of nutrients
- Improve crop quality
- Optimise water, fertiliser and energy input
- Optimise use of available irrigation equipment
- Rent more than three units and receive our active irrigation scheduling service at no additional cost