

AquaCheckWEB

End User Guide

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END USER GUIDE

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Introduction:

AquaCheckWeb is a user-friendly on-line based software tool designed to cater for both the dealer as well as end user needs. The on-line software provides access to client and probe data (<http://www.aquacheckweb.com>) by means of a unique user name and password. The Aquacheck mobile App (downloadable from Google/ Apple store) is available for viewing data only.

This user guide is intended for end users and focuses on basic aspects such as how and where to log into the programme, general layout of the programme, different means of viewing the data and understanding what the different graphs, maps and tables are saying about the current profile water content status.

A ***Dealer User Guide*** is also available that explains how to do an initial setup (adding new clients, farms, fields etc.), creating new profiles, configuring profiles (root zones, setting management lines, cultivar lines, precipitation data) and adding a new account.

Assessing AquaCheckWEB:

To gain access to the AquaCheckWEB program, navigate to the URL by making use of Microsoft Internet Browser or Google Chrome:

www.aquacheckweb.com

Once the link is clicked, you will be navigated to a login page where you will need to enter your unique User name and Password.

Login:

Contact your local AquaCheck dealer to obtain a unique User name and Password.



User name

Password

[Forgot Your Password?](#)

Below the User name and Password windows, there is a **“Forgot Your Password?”** link in case you have forgotten the password (or would like to reset your password to something else). You will have to enter your email address, confirm the reset operation and create a new password by following the instructions given.

My Account:

The “My Account” page tab is located on the Page tab of the Home page and allows the user to view and edit his account details which includes a number of default graphing options.

My Account ×

First name

Surname

Email Address

Mobile Number

Language

Expiry Date

Time Zone

Show Google Maps Full

Graphing

Default Graph Period

Show Sensors

—

Include Temperature Average

Show Root Zones (Mobile)

Smooth Graphs

Show Full Graph Set

The “Change Password” option located here can also be used to amend the initial password that was provided by the dealer or representative.

Home Page:

After entering the User Name and Password, the user will be navigated to the Home page from where various routes can be followed to view the data. An overview of all the Home page functionalities are provided in Table 1.






The screenshot shows the AquaCheck home page interface. At the top, a blue navigation bar (1) contains links for 'My Account', 'Agronomy Analysis', 'Setup New Profile', 'Portal Administration', 'Invoicing', 'Health', and 'Active Rebuilds'. The user is logged in as 'Adam' (9). A search bar (2) is located below the navigation bar. On the left, a 'Recent Profiles' list (3) shows recent irrigation events. Below this, a form (4) allows selection of 'Dealership', 'Client', 'Farm', and 'Profile'. The main content area features a weather forecast (7) for 'Weiding (101987)' and a summary table (8) of irrigation status for various profiles. A graph icon (5) and a map icon (6) are also present. A 'Logout' button (9) is in the top right corner.



Table 1: Overview of the Home Page functionalities.

Reference number	Function	Description
1	Page tabs	Navigate between different administration pages.
2	Search bar	Search for specific Dealerships, Clients, Farms and Profiles.
3	Recent history	List of recent profiles viewed for quick reference.
4	Navigation bars	Options to select different Dealerships, Clients, Farms and Profiles.
5	Graph icon	Displays the soil water content data of a selected profile in graphic format.
6	Map icon	Displays the location of selected profiles as colour coded dots on a Google map of the area.
7	Weather forecast	Weather data provided by Dark Sky for any default location.
8	Summary table	Displays a summary of the irrigation status of all the profiles. Entries can be sorted in ascending or descending order.
9	Logout	Log out of your account.

Graphs, Maps and Tables:

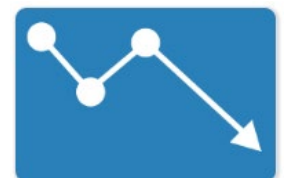
On the Home page make a selection under the Client, Farm and Profile navigation bars, before any data can be viewed.

Distribution Area	South Africa	▼	
Dealership	Dealer 123	▼	
Client	Client 2	▼	
Farm	Farm 1	▼	
Profile	Mac blok 14 (157812)	▼	

The information can be viewed by either making use of the “**Graph**” icon  or the “**Map**” icon. 

Graph icon:

Selecting the “Graph” icon will open up a new Graph page which will display the data in different graphical formats. On the left hand side of the Graph page, there is an “Information panel” which summarises the current profile water status and shows which graphs are active/ hidden (see Table 2 for all the Graph page functionalities).



Default graphs include:

- Summary graph – Displays either the sum or average (depending on the setup choices made) value of whole profile over time.

- Sensors graph – Displays all of the individual sensor values over time. Data can either be represented in: 1) stacked format (sensor 1 always at the top and the last sensor always at the bottom) or 2) relative format (wettest sensor at the top and driest at the bottom).
- Root zones graph – Displays the sum or average value of all the individual sensors grouped together in the specific root zone. Up to six different root zones can be created.
- Additional graphs - The **Temperature** and **Technical graphs** are not usually displayed unless selected in the information panel on the Graph page. These graphs show individual sensor as well as profile average soil temperature data and provides technical data on cell phone signal strength, solar panel activity and battery voltage.

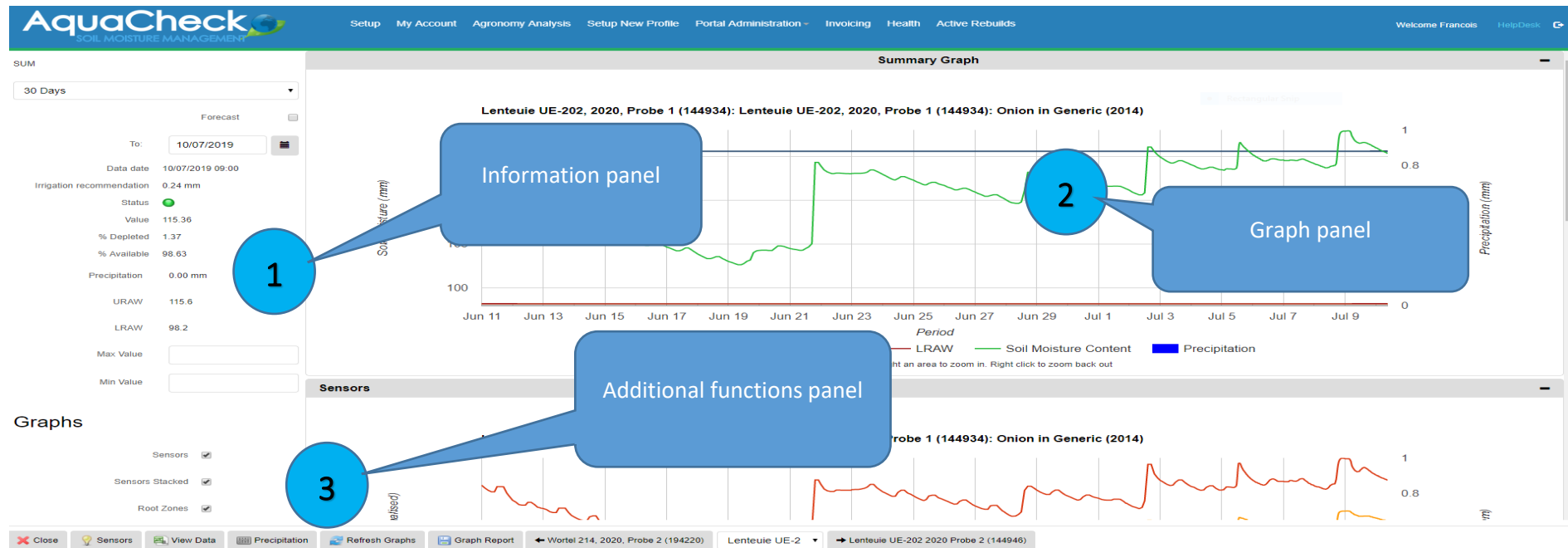
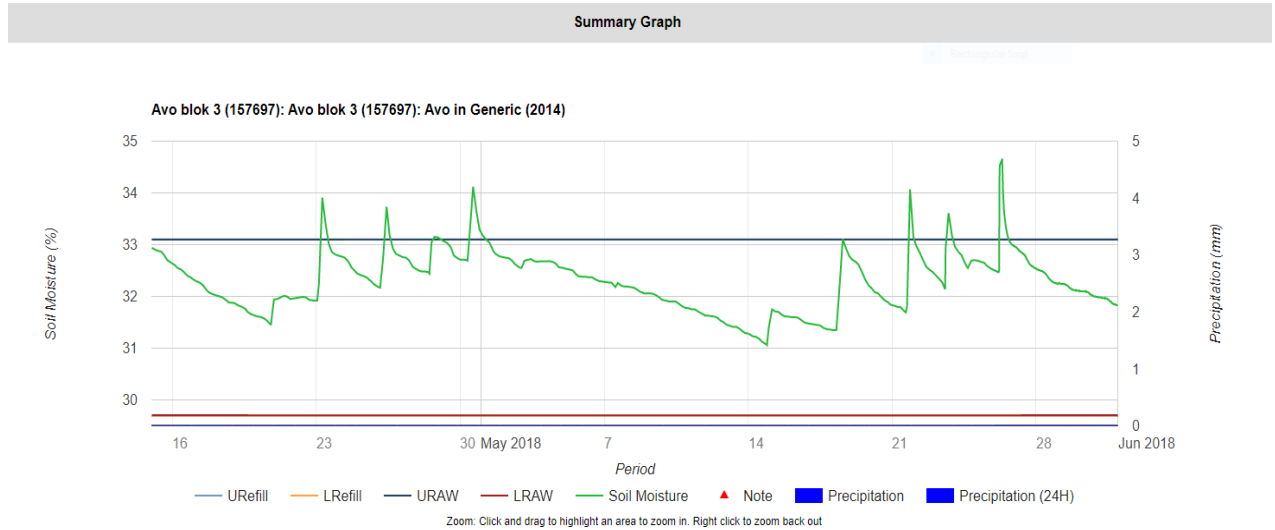


Table 2: Overview of the Graph page functionalities.

Reference number	Function	Description
1	Information panel	Displays additional information on the soil water status (Last data date, Irrigation recommendation, Profile soil water status (SWS) colour, Current SWS value, % depleted, % available, Precipitation and Upper and Lower readily available (URAW, LRAW) values. Additional graphs – View additional graph (Root Zones Combined, Temperatures or Technical) or hide existing graphs.
2	Graph panel	Displays the soil water content change over time in a Summary, Individual sensor and Root zone graph as you scroll down from top to bottom on the Graph page.
3	Additional functions panel	<i>Sensors</i> - Choose to view only specific sensor values (Sensors Graph); <i>View data</i> – View and export data; <i>Precipitation</i> – manually add rainfall and irrigation data; <i>Graph report</i> – export graphs to a PDF document.

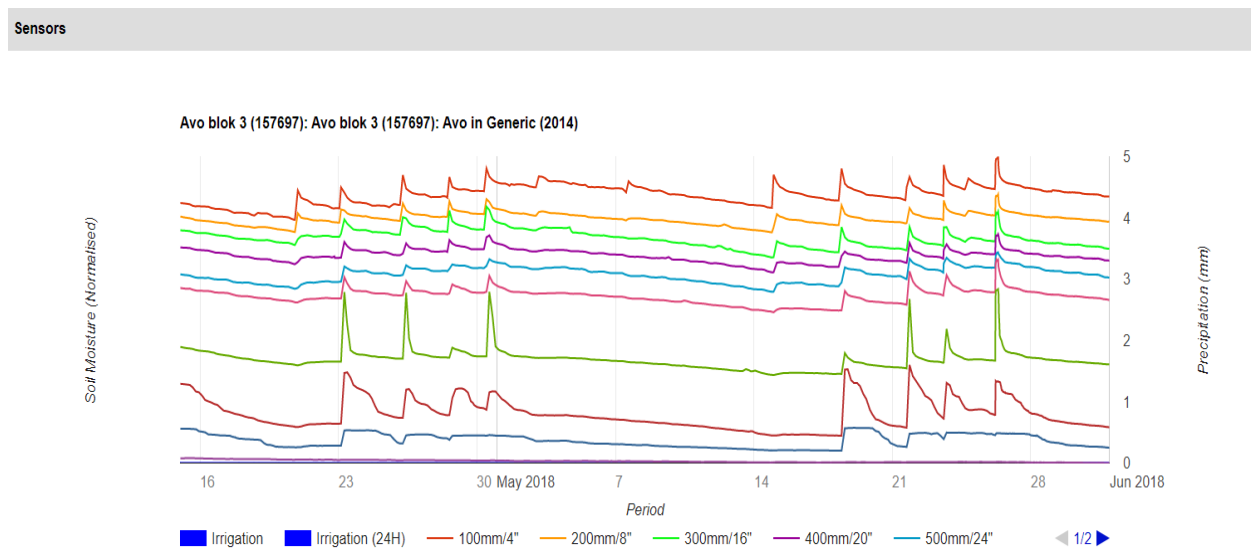
Summary graph:

Displays either the sum or average (depending on the setup choices made on the Profile setup page) value of all the profile individual sensors over time. If no root zones are specified (i.e. only one root zone), the Summary graph will look exactly the same as the Root Zone graph.



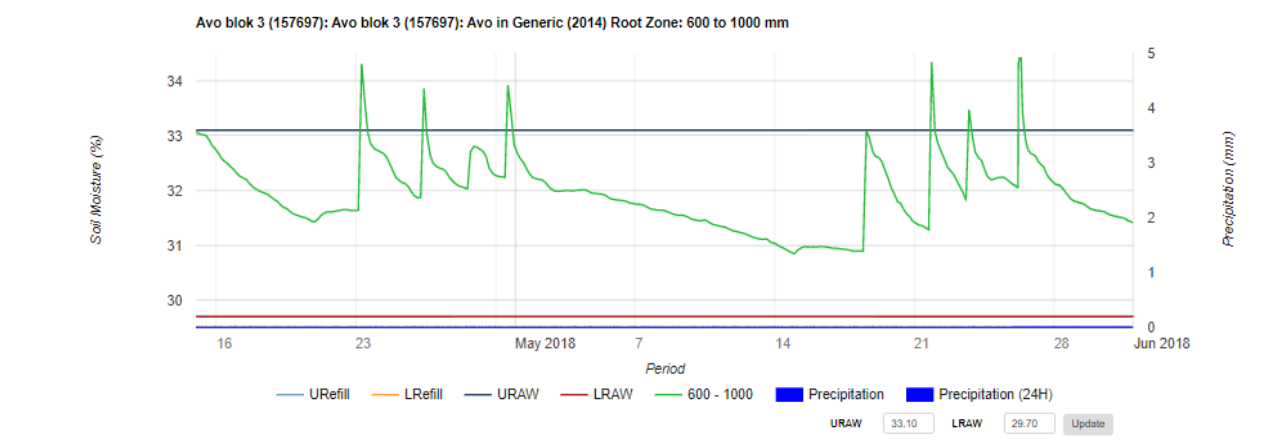
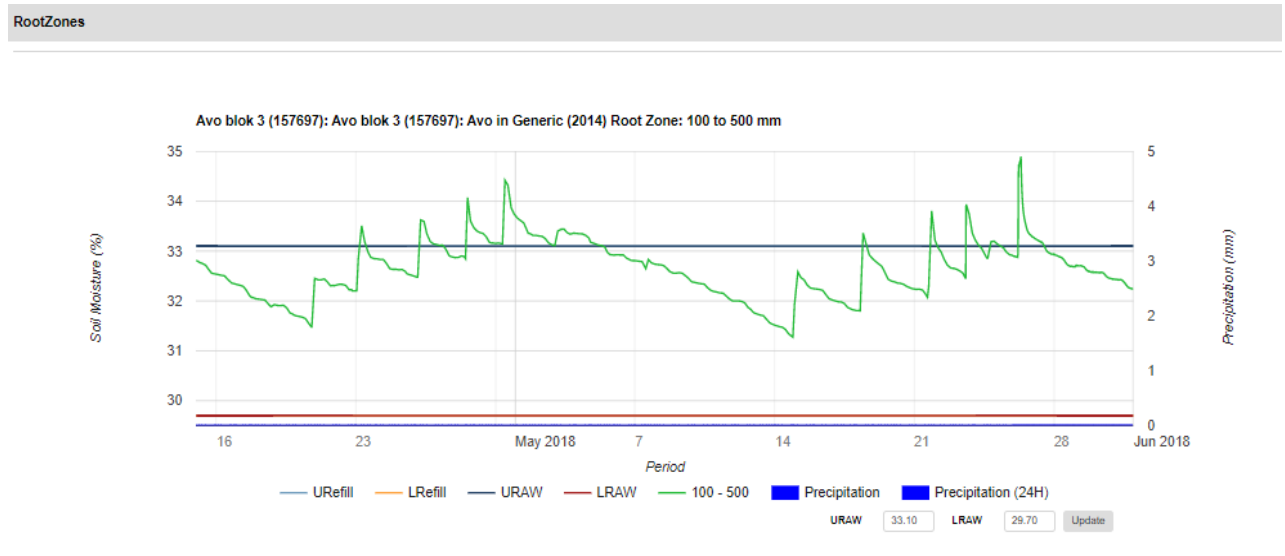
Sensor graph:

Displays the individual sensor values over time either in a: 1) stacked format (top to bottom example shown below) or 2) relative format (wettest to driest).



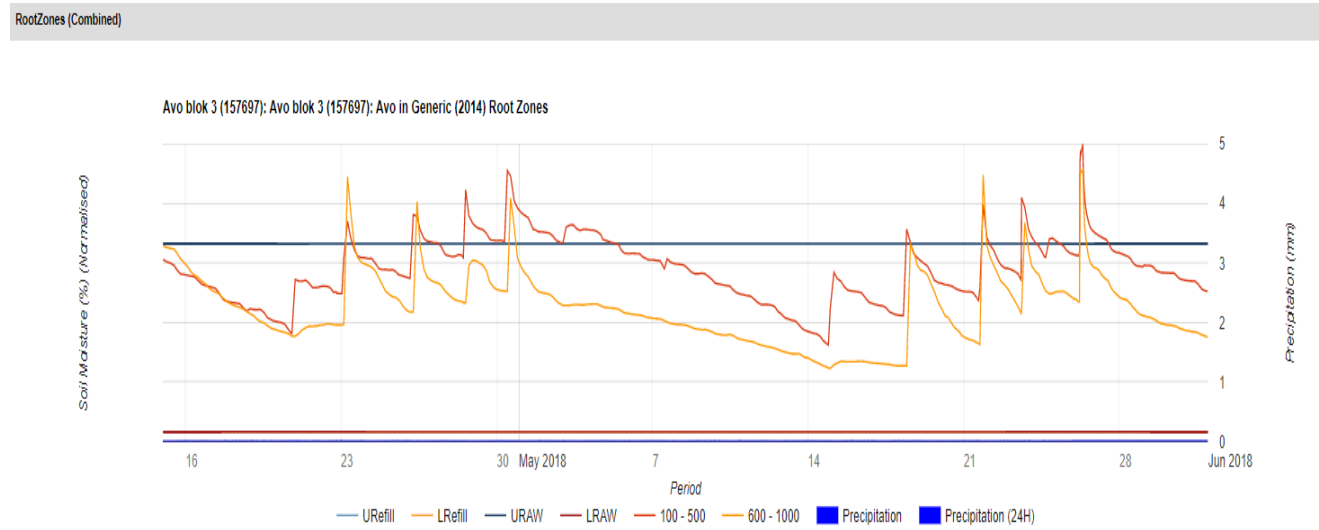
Root zone graph:

Displays the sum or average value of all the individual sensors grouped together in the specific root zone. Up to six different root zones can be created (two-root-zone example is shown below).



Note the URAW and LRAW buttons below each of the root zone graphs where the position of the two management lines can quickly be adjusted. For more details on exactly how to set these lines, please refer to the “How to set up management lines” in the Dealer User Guide.

Root zones can be displayed as individual graphs (as shown above) or as one **combined graph**. The root zone split, or root zone combined toggle button can be found in the panel to the left-hand side of the Root Zones graph.



Additional graphs:

Two additional graphs, that are not normally displayed, include a Temperature graph as well as a Technical graph. The **temperature graph** displays the temperatures measured at individual depths as well as a profile average temperature. For initial technical fault finding, the **technical graph** is useful as it displays battery voltage, cell phone signal strength and solar panel output, amongst others.

Map icon:

Selecting the “Map” icon will open up a Google Earth map showing colour coded dots which represents the GPS position of the specific probe (Green = acceptable soil water content, Blue = too wet and Red = drying out). Depending on the selection



made on the Home Page, either all the Dealership, Client, Farm or only one specific probe will be displayed on the map. Moving the cursor of the mouse over a specific probe dot, will reveal additional irrigation management information. Double click on a specific coloured dot to open the Graph page and view the data.

The screenshot displays the AquaCheck web application interface. The top navigation bar includes 'Setup', 'My Account', 'Agronomy Analysis', 'Setup New Profile', 'Portal Administration', 'Invoicing', 'Health', and 'Active Rebuilds'. The main content area shows a search bar, a list of recent profiles, and a weather forecast for 'Proef 2 (184911)'. A modal window is open, displaying a satellite map of a farm area with a green dot indicating a probe location. The modal window also shows the name 'Jan v d Westhuizen' and a person icon.

Tables:

A third way of viewing the probe data (apart from Graphs or Maps), is in a **Summary Table**. This table is shown on the Home Page as you log in. To view more detail, click once anywhere inside the summary table. Each column can be sorted in an ascending or descending order by clicking on the heading.

Select a specific profile to either 1) view the graphs (“View Graph” tab at the top of the Summary table); 2) open the Profile page (“Open Profile” tab) or 3) Export the profile data to a spreadsheet (“Export to Excel” tab).



The screenshot shows the AquaCheck web interface. The header includes the AquaCheck logo and navigation links: My Account, Portal Administration, and Health. Below the header is a navigation bar with buttons for Search, View Graph, Open Profile, and Export to Excel. The View Graph, Open Profile, and Export to Excel buttons are circled in red. Below the navigation bar is a table with the following columns: Profile, Data Date, Irrigation recommendation, % Depleted, % Available, Precipitation_24H, Total, Status, RootZone 1, and RootZone 2. The table contains five rows of data, with the row for Land 1 (25041) highlighted in blue.

Profile	Data Date	Irrigation recommendation	% Depleted	% Available	Precipitation_24H	Total	Status	RootZone 1	RootZone 2
Land 2 (25039)	10/07/2019 07:15	12.29 mm	55.87	44.13	0.00 mm	6.00 mm	●	●	●
Land 4 (25042)	10/07/2019 07:00	11.36 mm	53.85	46.15	0.00 mm	8.50 mm	●	●	●
Land 3 (25040)	10/07/2019 07:15	5.82 mm	52.48	47.52	0.00 mm	3.50 mm	●	●	●
Land 1 (25041)	10/07/2019 07:15	7.45 mm	46.00	54.00	0.00 mm	5.00 mm	●	●	●
Land 1 (190149)	08/07/2019 18:30	4.81 mm	20.93	79.07	0.00 mm	3.00 mm	●	●	●