

WeatherMation LIVE Historical Data Reports

Version 2.0
30/04/2020



Envirodata Australia Pty Ltd
42-44 Percy Street Warwick
Queensland 4370 Australia
Phone: (07) 4661 4699
Fax: (07) 4661 2485
International Phone: +61 7 4661 4699
International Fax: +61 7 4661 2485
Email: sales@envirodata.com.au

<http://www.envirodata.com.au>

Material in this handbook is Copyright.
All rights reserved by the publishers.
No reproduction without the prior permission of the publishers.



Table of Contents

Introduction	2
1. Reports - Specific Menu Options	3
2. Reports	4
a. Running a Graph Report	7
b. Running a Grid Report	8
c. Running a Graph and Grid Report	9
d. Running a 'Summary to Date' Report	10
e. Running a 'Summary By Month' Report	11
f. Running a 'Summary By Quarter' Report	12
g. Saving a Report	13
h. Edit a Report	14
i. Delete a Report	14
j. Running a SAVED Report	15

Introduction

Envirodata's WeatherMation software has been developed to download, display and respond to the weather data from your weather stations, automatically.

WeatherMation's Reports Module provides your users with extra tools to analyse all of your weather data from each of your connected weather stations. This data is on a Webpage to be accessed via the internet on any browser from a computer.

Using the System

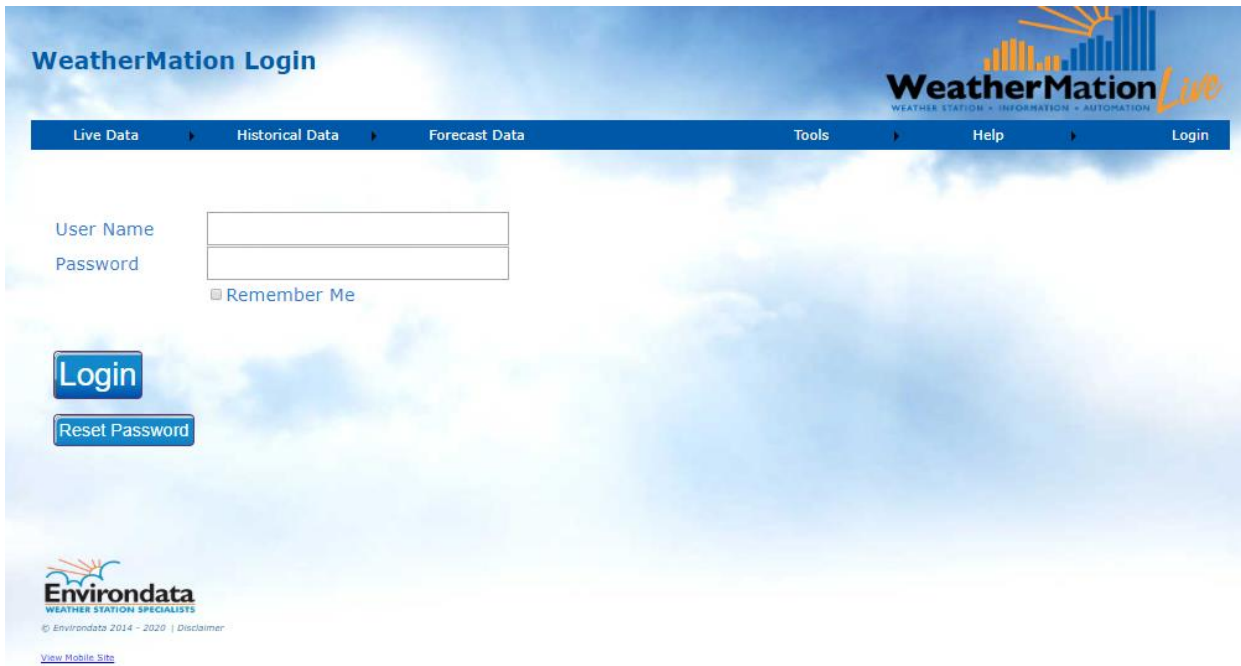
Go to www.weathermation.net.au

You will see the Login Page – please enter your User Name and Password that were provided to you.

You can click the "Remember Me" checkbox to remember your login details – this will mean in future; you are automatically logged into the system. Please note you will need to have cookies enabled in your browser for this to work.

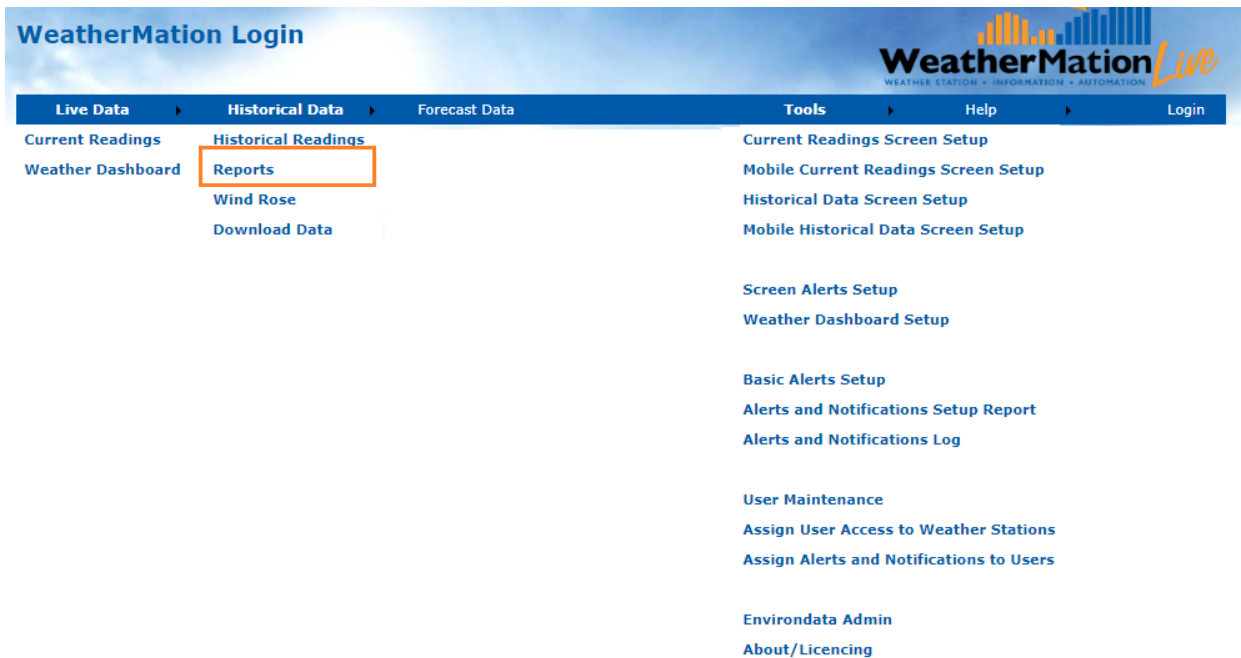
Click on the Login button to access the system

(If you need to change your password, click on the Reset Password button)



1. Reports - Specific Menu Options

- **Historical Data**
 - **Reports** – This allows you to setup, save and run reports based on your historical data. This is ONLY available if you have bought the Reports Module and if you have Reporting access.



2. Reports

The Reports option gives you multiple ways to view and analyse your weather station's historical data.

As a user with Reporting access, you will be able to view and run Reports, but not be able to save any new or change any existing reports.

As a user with Configuration & Reporting access, you will be able to view, run, save, edit and delete reports.

Viewing the Reports Page the First Time (without Configuration permissions)

Viewing the Reports Page for the 1st time or while you do not have any SAVED Reports, you will get the Select Report Criteria section.

Here you can select what should be displayed on the Report & RUN the report

The screenshot shows the 'Reports' page in the WeatherMation LIVE interface. The top navigation bar includes 'Live Data', 'Historical Data', 'Tools', 'Help', and 'Logout'. A dropdown menu for 'Report:' is present. The main content area is titled 'Select Report Criteria' and contains several input fields and buttons. The 'Period' is set to 'Specific Start and End Dates'. The 'Report Type' is 'Graph'. The 'Graph Type' is 'Line'. The 'Lower Guide' and 'Upper Guide' sections have 'Value' and 'Text' input fields and a 'Colour' dropdown set to 'White'. The 'Start Date and Time' and 'End Date and Time' are both set to '00:00'. There are 'Run Report' and 'Save Report' buttons at the bottom.

Viewing the Reports Page the First Time (with Configuration permissions)

Viewing the Reports Page for the 1st time or while you do not have any SAVED Reports, you will get the Select Report Criteria section.

Here you can select what should be displayed on the Report, RUN the report and SAVE the Report for future use.

This screenshot is similar to the previous one but includes additional buttons at the bottom. Below the 'Run Report' button, there is a 'Save Report' button and a 'Delete Report' button. A 'Report Name' input field is also visible at the bottom left.

What options do I have for viewing a report?

- Period:

This is the 'timeframe' for the data you want to report on

- Specific Start and End Dates
- Yesterday

- Last 4 Hours
- Last 8 Hours
- Last 12 Hours
- Last 24 Hours

- Last 7 Days
- Last 30 Days
- Last 90 Days
- Last 180 Days

- Last Year
- Last Full Week
- Last Full Month
- Last Full 3 Months
- Last Full 6 Months
- Last Full 12 Months

- Summary To Date
- Summary By Month
- Summary By Quarter

- Weather Station(s):
 - You can select one or more of your weather stations
- Memory:
 - You can only select ONE Memory per report.
 - Your selection here is important e.g. selecting 'Last X Hours' in your Period, does not make sense if you select Daily Summary. See the *Note* below.
- Sensor(s):
 - You can select one or more Sensors for the report.
- Report Type:
 - Graph – this will only display a graph with your data
 - Grid Report – this will display only a table with your data
 - Graph and Grid – this will display a graph and a table report with your data
- Graph Type:
 - Line Graph
 - Bar Graph
- Summarize:
 - None
 - Daily
 - Monthly
- Lower and Upper Guides:
 - Value – the value of where the guide will be on the graph
 - Text – A label that will be displayed on the graph
 - Colour – Select a colour for the guide
- Auto Y-Axis Scale:
 - Checked allows you to set a specific Min and Max Value for the Vertical Y-Axis Scale

Note: Consider the Memory and Period you selected carefully – e.g. If you select 'Daily Summary' (which normally only has records for 9am every day), then selecting last 4 Hours as the Period will only have 1 data record (if you are running the report before 1pm (4 hours after 9am)) or it might have no data if you run it after 1pm.

Once you have entered all the Report Parameters, click the Run Report button to display your report.

a. Running a Graph Report

The screenshot displays the WeatherMation Live Reports interface. At the top, there are navigation tabs for 'Live Data', 'Historical Data', 'Tools', 'Help', and 'Logout'. The 'Historical Data' tab is selected. Below the navigation, a report title 'Last 30 days Min & Max Temp' is shown, along with the user name 'User: Jolinda Murray'. The main content area features a line graph titled 'Last 30 days Min & Max Temp Daily Summary 26/02/2017 to 28/03/2017'. The graph plots two data series: 'Percy Street Warwick MAXIMUM Air Temperature DegC' (blue line) and 'Percy Street Warwick MINIMUM Air Temperature DegC' (orange line). The Y-axis ranges from 10 to 35 degrees Celsius. Two horizontal guide lines are present: a red line at 30°C labeled 'High Temp' and a green line at 20°C labeled 'Low Temp'. Below the graph are buttons for 'Previous', 'Next', and 'Save Graph'. Below the graph is a 'Select Report Criteria' form with the following fields: Period (Last 30 Days), Weather Station(s) (Percy Street Warwick), Report Type (Graph), Memory (Daily Summary), Sensor(s) (MAXIMUM Air Temperature, MINIMUM Air Temperature), Graph Type (Line), Lower Guide (Value: 20, Text: Low Temp, Colour: Green), Upper Guide (Value: 30, Text: High Temp, Colour: Red), and Auto Y-Axis Scale (unchecked). At the bottom of the form are buttons for 'Run Report', 'Save Report', and 'Delete Report'.

Select your Report Criteria – make sure Report Type is **Graph**. Then click the Run Report button to display your Graph.

In this example we are displaying a Graph for one Weather Station (Percy Street Warwick) for its Max and Min Air Temperature. Data is based on Daily Summary data over the last 30 Days.

It also uses the Guide Lines with labels and the Y-Axis is from 10-35 Degrees C

Specific Options on a Graph:

- Previous – this will display the Data for the Previous Period e.g. previous 30 days in this case.
- Next - this will display the Data for the Next Period.
- Save Graph – this will save a .png file of the Graph to your PC or device.

b. Running a Grid Report

Select Report Criteria

Period: Last 24 Hours

Weather Station(s): Percy Street Warwick

Report Type: Grid Report

Memory: Hourly Data

Sensor(s): MAXIMUM Wind Speed 10m, MAXIMUM Wind Speed 2m

Graph Type: Line

Lower Guide: Value, Text

Upper Guide: Value, Text, Auto Y-Axis Scale, Min Value, Max Value

Colour: White

Run Report

Save Report

Report Name: Last 24 hours Wind Speed 10m and 2m

Save Report Delete Report

Last 24 hours Wind Speed 10m and 2m [Download Report Data](#)

Site Name	Date	MAXIMUM Wind Speed 10m - km/h	MAXIMUM Wind Speed 2m - km/h
Percy Street Warwick	27/03/2017 11:00:00 AM	19.4	14.99
Percy Street Warwick	27/03/2017 12:00:00 PM	17.69	12.45
Percy Street Warwick	27/03/2017 1:00:00 PM	15.91	11.62
Percy Street Warwick	27/03/2017 2:00:00 PM	15.03	9.68
Percy Street Warwick	27/03/2017 3:00:00 PM	13.9	10.09
Percy Street Warwick	27/03/2017 4:00:00 PM	14.67	11.74
Percy Street Warwick	27/03/2017 5:00:00 PM	16.21	13.1
Percy Street Warwick	27/03/2017 6:00:00 PM	12.48	7.67
Percy Street Warwick	27/03/2017 7:00:00 PM	6.45	3.66
Percy Street Warwick	27/03/2017 8:00:00 PM	5.97	2.77
Percy Street Warwick	27/03/2017 9:00:00 PM	5.44	2.01
Percy Street Warwick	27/03/2017 10:00:00 PM	5.32	3.01

Select your Report Criteria – make sure Report Type is **Grid Report**. Then click the Run Report button to display your data in a Grid/Table format.

In this example we are displaying a Table for One Weather Station (Percy Street Warwick) for its Maximum Wind Speed at 2M and at 10M. Data is based on Hourly data over the last 24 Hours.

Specific Options on a Grid Report:

- Download Report Data – this will save a Comma Separated File (csv) of all the data in this Report to your PC or device. You can then open this file either in Excel or in any other text editor like Word or Notepad.

c. Running a Graph and Grid Report

The screenshot displays the WeatherMation LIVE Reports interface. At the top, there are navigation tabs for 'Live Data', 'Historical Data', 'Tools', 'Help', and 'Logout'. A dropdown menu shows the selected report: 'Last 24 hours Wind Speed 10m and 2m'. The user is identified as 'User: Jolinda Murray'.

The main graph area is titled 'Last 24 hours Wind Speed 10m and 2m Hourly Data 27/03/2017 10:7 to 28/03/2017 10:7'. It features a line graph with two series: 'Percy Street Warwick MAXIMUM Wind Speed 10m km/h' (blue line) and 'Percy Street Warwick MAXIMUM Wind Speed 2m km/h' (orange line). The Y-axis ranges from 0 to 20 km/h. The X-axis shows hourly data from 11:00 on 27/03 to 08:00 on 28/03.

Below the graph is a 'Select Report Criteria' form with the following settings:

- Period: Last 24 Hours
- Weather Station(s): Percy Street Warwick
- Report Type: Graph and Grid
- Memory: Hourly Data
- Sensor(s): MAXIMUM Wind Speed 10m, MAXIMUM Wind Speed 2m
- Graph Type: Line
- Lower Guide: Value [], Text [], Colour: White
- Upper Guide: Value [], Text [], Colour: White, Auto Y-Axis Scale: checked, Min Value [], Max Value []

Buttons for 'Run Report', 'Save Report', and 'Delete Report' are visible. Below the form is a table titled 'Last 24 hours Wind Speed 10m and 2m' with a 'Download Report Data' button.

Site Name	Date	MAXIMUM Wind Speed 10m - km/h	MAXIMUM Wind Speed 2m - km/h
Percy Street Warwick	27/03/2017 11:00:00 AM	19.4	14.99
Percy Street Warwick	27/03/2017 12:00:00 PM	17.69	12.45
Percy Street Warwick	27/03/2017 1:00:00 PM	15.91	11.62
Percy Street Warwick	27/03/2017 2:00:00 PM	15.03	9.68
Percy Street Warwick	27/03/2017 3:00:00 PM	13.9	10.09
Percy Street Warwick	27/03/2017 4:00:00 PM	14.67	11.74
Percy Street Warwick	27/03/2017 5:00:00 PM	16.21	13.1
Percy Street Warwick	27/03/2017 6:00:00 PM	12.48	7.67
Percy Street Warwick	27/03/2017 7:00:00 PM	6.45	3.66
Percy Street Warwick	27/03/2017 8:00:00 PM	5.97	2.77
Percy Street Warwick	27/03/2017 9:00:00 PM	5.44	2.01

Select your Report Criteria – make sure Report Type is **Graph and Grid**. Then click the Run Report button to display your data in a Graph at the top and a Grid/Table format at the bottom.

In this example we are displaying a Graph and a Table for one Weather Station (Percy Street Warwick) for its Max Wind Speed at 2M and at 10M. Data is based on hourly data over the last 24 Hours.

d. Running a 'Summary to Date' Report

The screenshot displays the 'Reports' section of the WeatherMation Live interface. At the top, there are navigation tabs for 'Live Data', 'Historical Data', 'Tools', 'Help', and 'Logout'. A dropdown menu shows 'Report: A Weather Summary to Date' and the user is identified as 'User: Jolinda Murray'.

The main content is a table titled 'A Weather Summary to Date' with the following data:

Weather Station	Sensor	Last 7 Days	Month To Date	Year To Date
Percy Street Warwick	MAXIMUM Wind Speed 10m - km/h	28.69	31.3	31.3
Percy Street Warwick	AVERAGE Wind Speed 10m - km/h	7.32	7.93	7.93
Percy Street Warwick	MAXIMUM Peak Wind Gust - km/h	40.23	47.33	47.33
Percy Street Warwick	MAXIMUM Relative Humidity - %	94	94	94
Percy Street Warwick	MINIMUM Relative Humidity - %	51.49	21	21
Percy Street Warwick	AVERAGE Relative Humidity - %	79.13	74	74
Percy Street Warwick	MAXIMUM Air Temperature - DegC	31.17	32.23	32.23
Percy Street Warwick	MINIMUM Air Temperature - DegC	15.67	11	11
Percy Street Warwick	AVERAGE Air Temperature - DegC	22.36	22.19	22.19
Percy Street Warwick	TOTAL Rain Gauge - mm	1.2	82.6	82.6
Percy Street Warwick	MAXIMUM Wind Speed 2m - km/h	18.82	23.01	23.01
Percy Street Warwick	AVERAGE Wind Speed 2m - km/h	4.11	4.46	4.46

Below the table is a 'Select Report Criteria' section with the following settings:

- Period: Summary To Date
- Weather Station(s): Percy Street Warwick
- Report Type: Grid Report
- Lower Guide: Value [], Text [], Colour: White
- Upper Guide: Value [], Text [], Colour: White, Auto Y-Axis Scale: checked, Min Value [], Max Value []
- Memory: Daily Summary
- Sensor(s): MAXIMUM Wind Speed 10m, AVERAGE Wind Speed 10m, MAXIMUM Peak Wind Gust, MAXIMUM Relative

Buttons include 'Run Report', 'Save Report', 'Download Report Data', 'Save Report', and 'Delete Report'.



Select your Report Criteria – make sure **Period** is 'Summary To Date'. Then click the Run Report button to display your data.

In this example we are displaying a Summary to Date for one Weather Station (Percy Street Warwick) for 7 various selected sensors. Data is retrieved from the Daily Summary data.

e. Running a 'Summary By Month' Report

The screenshot displays the WeatherMation LIVE Reports interface. At the top, there are navigation tabs for 'Live Data', 'Historical Data', 'Tools', 'Help', and 'Logout'. The 'Historical Data' tab is active, and a dropdown menu shows 'A Rainfall Summary by Month'. The user is identified as 'Jolinda Murray'.

The main content area features a bar chart titled 'A Rainfall Summary by Month Daily Summary 2017'. The chart shows data for three dates: 01/01 00:00, 01/02 00:00, and 01/03 00:00. The Y-axis ranges from 0 to 132. The legend indicates four data series: Percy Street Warwick MAXIMUM Air Temperature DegC (blue), Percy Street Warwick MINIMUM Air Temperature DegC (orange), Percy Street Warwick TOTAL Rain Gauge mm (red), and Percy Street Warwick TOTAL Evaporation Total mm (green).

Below the chart is a 'Select Report Criteria' section with various options:

- Period: Summary By Month
- Weather Station(s): Percy Street Warwick
- Report Type: Graph and Grid
- Memory: Daily Summary
- Sensor(s): MAXIMUM Air Temperature, MINIMUM Air Temperature, TOTAL Rain Gauge, TOTAL Evaporation Total
- Graph Type: Bar
- Lower Guide: Value, Text, Colour (White)
- Upper Guide: Value, Text, Colour (White), Auto Y-Axis Scale, Min Value, Max Value

Buttons for 'Run Report', 'Save Report', 'Save Report', and 'Delete Report' are visible. Below the criteria section is a table titled 'A Rainfall Summary by Month' with a 'Download Report Data' button.

Site Name	Date	MAXIMUM Air Temperature - DegC	MINIMUM Air Temperature - DegC	TOTAL Rain Gauge - mm	TOTAL Evaporation Total - mm
Percy Street Warwick	2017-01	38.67	13.37	92.8	130.74
Percy Street Warwick	2017-02	43	14.7	40.4	120.95
Percy Street Warwick	2017-03	32.23	11	82.6	76.27



Select your Report Criteria – make sure **Period** is 'Summary by Month'. Then click the Run Report button to display your data. Summary by Month will return summary weather data reported per Year. You have an option to display a Graph or a Grid or both.

In this example we are displaying a Summary by Month for one Weather Station (Percy Street) for 4 various selected sensors. Data is retrieved from the Daily Summary data.

f. Running a 'Summary By Quarter' Report

Reports

Live Data | Historical Data | Tools | Help | Logout

Report: A Weather Summary by Quarter | User: Jolinda Murray

A Weather Summary by Quarter					
Weather Station	Sensor	Last Full Month	Last 3 Full Months	Last 6 Full Months	Last 12 Full Months
Percy Street Warwick	MAXIMUM Wind Speed 10m - km/h	40.05	42.18	47.45	47.45
Percy Street Warwick	AVERAGE Wind Speed 10m - km/h	8.41	9.7	9.23	8.75
Percy Street Warwick	MAXIMUM Peak Wind Gust - km/h	54.43	61.53	67.45	67.45
Percy Street Warwick	AVERAGE Relative Humidity - %	72.17	70.86	70.15	68.85
Percy Street Warwick	MAXIMUM Air Temperature - DegC	33	37.47	37.47	37.47
Percy Street Warwick	MINIMUM Air Temperature - DegC	9.03	9.03	9.03	-3
Percy Street Warwick	TOTAL Rain Gauge - mm	27.6	114.2	463	535.8
Percy Street Warwick	MINIMUM Grass Temperature - DegC	-20	-20	-20	-20
Percy Street Warwick	MAXIMUM Wind Speed 2m - km/h	24.13	26.49	30.38	30.56
Percy Street Warwick	AVERAGE Wind Speed 2m - km/h	4.39	5.08	5.02	4.85

Download Report Data

Select Report Criteria

Period: Summary By Quarter

Weather Station(s): Percy Street Warwick

Memory: Daily Summary

Sensor(s): MAXIMUM Wind Speed 10m, AVERAGE Wind Speed 10m, MAXIMUM Peak Wind Gust, AVERAGE Relative Humidity, MAXIMUM Air

Report Type: Grid Report

Run Report

Save Report

Report Name: A Weather Summary by Quarter | Save Report | Delete Report



Select your Report Criteria – make sure **Period** is ‘**Summary by Quarter**’. Then click the Run Report button to display your data. Summary by Quarter will return summary weather data reported from full calendar months only, last single full month, last 3 months, 6 months and 12 months.

In this example we are displaying a Summary by Quarter for one Weather Station (Percy Street Warwick) for 7 various selected sensors. Data is retrieved from the Daily Summary data.

Notes on the Summary Reports

Values are based on the Sensor Selected e.g.

- MAXIMUM Wind Speed – will give the MAXIMUM value over the period
- MINIMUM Air Temperature – will give the LOWEST of the MINIMUM Air Temperature values over the period
- MAXIMUM Air Temperature – will give the HIGHEST of the MAXIMUM Air Temperatures value over the period
- AVERAGE Air Temperature – will give the AVERAGE value over the period
- TOTAL Rain Gauge – will give the TOTAL rainfall over the period

Periods on the Summary To Date:

- Week to Date – From midnight on the same day last week till NOW
- Month to Date – From midnight on 1st of the Current Month till NOW
- Year to Date – From midnight on 1st January till NOW

Periods on the Summary by Quarter:

- Last Full Month
 - From midnight on the 1st till midnight on the last day of the previous month.
- Last 3 Full Months
 - From midnight on the 1st till midnight on the last day of the previous 3 months.
- Last 6 Full Months
 - From midnight on the 1st till midnight on the last day of the previous 6 months.
- Last 12 Full Months
 - From midnight on the 1st till midnight on the last day of the previous 12 months.

g. Saving a Report

Note: Only available if you have Configuration Permissions – if you don't see the button to Save a Report, please contact your Administrator User to save the Report for you.

To save a report, click the Save Report button.

The screenshot displays a weather report interface. At the top, there is a graph area with a light blue background. The x-axis shows dates: 21-04-2015, 22-04-2015, 22-04-2015, and 22-04-2015. The y-axis represents wind speed. Two data series are plotted: 'Percy Street Warwick MAXIMUM Wind Speed 10m' (blue line) and 'Percy Street Warwick MAXIMUM Wind Speed 2m' (orange line). Below the graph are three buttons: 'Previous', 'Next', and 'Save Graph'.

Below the graph is a 'Select Report Criteria' section with a grey background. It contains several input fields and dropdown menus:

- Period:** A dropdown menu set to 'Last 24 Hours'.
- Weather Station(s):** A text input field containing 'Percy Street Warwick'.
- Memory:** A dropdown menu set to 'Hourly Data'.
- Sensor(s):** A text input field containing 'MAXIMUM Wind Speed . . 10m, MAXIMUM Wind Speed . . 2m'.
- Report Type:** A dropdown menu set to 'Graph'.
- Graph Type:** A dropdown menu set to 'Line'.

At the bottom of the 'Select Report Criteria' section, there are three buttons: 'Run Report', 'Save Report', and 'Delete Report'. Below these buttons, the 'Report Name' is displayed as 'Last 24 hours Wind Speed 10m and 2m'.

h. Edit a Report

Note: Only available if you have Configuration Permissions, otherwise please contact your Administrator User to edit and save the Report for you.

To edit a report, select the Report from the Report list. You can make any changes to the Report Selection Criteria and Run the Report.

- Save Current Report – Click the Save Report button – edits the current report
- Save NEW Report – Change the Report Name in the Report Name field and click the Save Report button. Both old and new reports are available.

The screenshot displays a report configuration interface. At the top, there is a navigation bar with dates: 21-04-2015, 22-04-2015, 22-04-2015, and 22-04-2015. Below this is a graph area showing two data series: 'Percy Street Warwick MAXIMUM Wind Speed 10m' (blue line) and 'Percy Street Warwick MAXIMUM Wind Speed 2m' (orange line). Below the graph are three buttons: 'Previous', 'Next', and 'Save Graph'. The main section is titled 'Select Report Criteria' and contains several fields: 'Period' (Last 24 Hours), 'Weather Station(s)' (Percy Street Warwick), 'Memory' (Hourly Data), 'Sensor(s)' (MAXIMUM Wind Speed. . 10m, MAXIMUM Wind Speed. . 2m), 'Report Type' (Graph), and 'Graph Type' (Line). At the bottom, there are buttons for 'Run Report', 'Save Report', and 'Delete Report'. The 'Report Name' field contains the text 'Last 24 hours Wind Speed 10m and 2m'.

i. Delete a Report

Note: Only available if you have Configuration Permissions – if you don't see the section to Delete a Report, please contact your Administrator User to delete the Report for you.

To delete a report, select the Report from the Report list and click the Delete Report button.

This screenshot is identical to the one above, showing the report configuration interface for 'Percy Street Warwick MAXIMUM Wind Speed 10m and 2m'. It includes the same navigation bar, graph, and 'Select Report Criteria' section with buttons for 'Run Report', 'Save Report', and 'Delete Report'.

j. Running a SAVED Report

All your Company's Saved Reports will be displayed for selection in the Report list. You can select any report in order to run it.

You can make changes to the Report Criteria and Run the report again – this will NOT save the report with the new criteria.

The screenshot displays the 'Reports' section of the WeatherMation Live interface. The top navigation bar includes 'Live Data', 'Historical Data', 'Tools', 'Help', and 'Logout'. The user is identified as 'Administrator'. A dropdown menu is open for the report 'A Weather Summary by Month', showing options like 'A Weather Summary to Date', 'Last 24 hours Wind Speed 10m and 2m', 'Last 30 days Min & Max Temp', 'Last 7 days rain by hour', 'Last 90 days rainfall and evaporation', and 'Total rainfall by month'. Below the menu is a table with the following data:

	Last Full Month	Last 3 Full Months	Last 6 Full Months	Last 12 Full Months
	28.6	34.35	49.25	49.25