



using your

Weatherquest Portal

water

Weatherquest Home Page

Our website can be accessed at www.weatherquest.co.uk with the home page displayed below.

The screenshot shows the Weatherquest website interface. At the top right, there is a login section (1) with fields for username and password, and a 'Login' button. Below the navigation bar, there are three main sections: 'Forecasting' (2) with a UK weather map, 'Data' (3) with a 'LATEST NEWS' section, and 'Consultancy' (4) with a 'TWEETED' section. On the left, there is a 'SHOW CAM LIVE' section (5) with a video player and a 'LATEST TEMPERATURES' table (6). At the bottom, there is a 'MEET THE TEAM' section with a photo of Jim Bacon and a 'SOME OF OUR CLIENTS' section with logos for British Sugar, BBR, AF, Easton College, KWS, and Fast.

Portal Login

1

The Severn Trent Water network automatically has access to their portal. However, if you are logging in from outside the network then simply type your **username** and **password** into the boxes indicated, and click '**Login**'. You will then be directed to the Severn Trent Water portal home page.

48-hour Cloud and Precipitation Forecast

2

This animation displays the forecast **cloud cover** and **precipitation** across the United Kingdom for the next 48 hours, at 3-hourly intervals. It is updated four times a day using the very latest high-resolution model data, which also drives your portal.

News

3

We frequently update our news section with **articles** and information about our latest products and services.

Tweeted

4

Keep up-to-date with the latest forecast for East Anglia or the British Isles through our Twitter feed. You can also follow us on **Facebook** or **Twitter**.

Latest Temperature Observations

6

The **observations** table, updated hourly, displays the latest temperatures for a selection of sites across East Anglia, the United Kingdom, Europe and elsewhere in the World.

Podcasts

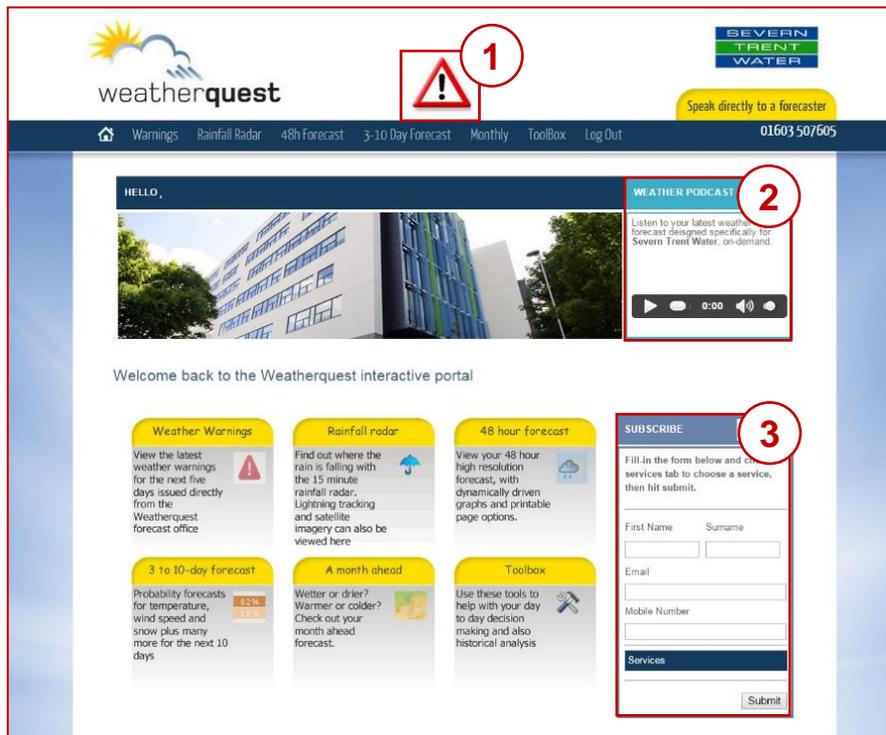
5

We provide **audio forecasts** for the counties of Norfolk, Suffolk, Essex and Cambridgeshire, updated twice a day at 7.30am and 3pm.

Accessing your portal

To access your portal, you need to visit: www.weatherquest.co.uk/portals/STW

You will then be greeted with your portal home page.



Weather Warnings

1

If this symbol is visible, then it means that a **weather warning** is currently in place. Clicking on the symbol will take you to the **'Warnings'** page, which will provide further details about the warning.

Podcast

2

This provides an audio weather forecast covering all regions that Severn Trent operate in, and is available to listen to on-demand.

The podcast covers:

- the general synoptic situation
- a short-range forecast (the next 24 hours)
- a medium range forecast (Day 2 to Day 5)
- a weather warning summary
- a climatology report

This forecast is updated by the duty forecaster each morning by 7am. We would appreciate any feedback or comments you have about the podcast, which can be submitted by clicking on **'Give Podcast Feedback'**.

Subscribe

3

If you would like your 10-day Comcell forecast to be delivered straight to your email inbox, simply enter your **first name, surname, email address** and **mobile number** into the boxes. Then click the **'Services'** box.

If you would like to be able access to the portal outside of the Severn Trent Water network, then tick the **'Portal – Access'** box. After clicking **'Submit'**, you will then be sent an email containing a username and password that will enable you to log-in to the Severn Trent Water weather portal, through the Weatherquest home page. You can also select where you would like to receive a Comcell forecast for via email by ticking the boxes of the different regions.

You can also select if and how you would like to receive **Weather Warnings** either via **email** or **text (SMS)**, or both. Then click **'Submit'**.

The image on the next page is an example of the format of the forecast for each site you subscribe to.



Forecast Summary for Network Control | Issued 19th February 2015

District East

RAG STATUS		

Weather Warnings in Force

Warning	Valid From	Valid Until

EA Flood Warnings in Force

0 Severe Flood Warning	0 Flood Warning	1 Flood Alert
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Probability Forecasts (%)

Temperature C		Fri-20		Sat-21				Sun-22				Mon-23				Tue-24				Wed-25				Thu-26				Fri-27						
Date	Time	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	
> 35C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30C to 35C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25C to 30C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20C to 25C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-5C to 0C		0	14	30	0	10	64	58	0	70	96	94	0	0	0	0	0	2	4	4	0	8	36	34	0	6	6	2	0	6	16	16	0	
-10C to -5C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-15C to -10C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-15C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rainfall mm																																		
> 20mm		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15mm to 20mm		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10mm to 15mm		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5mm to 10mm		0	0	0	0	0	0	0	0	0	0	0	0	12	2	0	0	0	0	0	0	0	0	0	0	4	4	4	0	0	0	0	0	
0.5mm to 5mm		20	28	34	4	0	0	0	0	22	0	2	12	78	94	36	8	12	2	6	8	12	10	8	34	40	44	42	42	38	10	8	16	28
0mm		80	72	66	96	100	100	100	78	100	98	88	10	4	64	92	88	98	94	92	88	90	92	66	56	52	54	58	62	90	92	84	72	
Maximum Gust Speed mph																																		
> 80mph		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60mph to 80mph		0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
50mph to 60mph		0	0	0	0	0	0	0	0	0	0	0	0	4	0	16	32	0	4	8	12	0	0	2	2	4	6	6	12	2	2	14	14	
45mph to 50mph		0	0	0	0	0	0	0	0	0	0	0	0	10	18	8	32	34	12	6	22	26	0	2	2	6	6	4	14	16	4	2	10	8
40mph to 45mph		0	0	0	0	0	0	0	0	0	0	0	0	32	50	24	32	22	16	12	38	30	6	2	4	14	14	10	26	14	12	10	8	
35mph to 40mph		0	0	0	0	0	8	14	0	0	4	46	26	32	10	40	30	28	18	18	34	8	10	20	18	18	24	10	16	20	18	18		

For the latest information visit weatherquest.co.uk/stw

If you need any further assistance with your Portal, please feel free to call us on **01603 507 605** or you can email info@weatherquest.co.uk

Warnings

This page can be accessed by clicking on 'Warnings', either on the menu bar or via the top-left icon on your Portal home page.

The screenshot shows the Weatherquest website interface. At the top left is the 'weatherquest' logo. To its right is a warning icon (a triangle with an exclamation mark). Further right is the 'SEVERN TRENT WATER' logo. Below these is a navigation bar with links: Home, Warnings, Rainfall Radar, 48h Forecast, 3-10 Day Forecast, Monthly, ToolBox, Log Out, and a phone number 01603 507605. A yellow button says 'Speak directly to a forecaster'. Below the navigation bar is a 'WEATHER WARNINGS' section with a 'HELP TOOL' button. A date selector shows 'Friday 27th Feb', 'Saturday 28th Feb', 'Sunday 1st Mar' (highlighted), 'Monday 2nd Mar', and 'Tuesday 3rd Mar'. A 'STRONG WIND WARNING' box is open, showing details for a warning issued on Friday, 27th February, 2015, valid from Saturday, 18:00 GMT to Sunday, 23:45 GMT. The warning details state: 'Details: West to southwesterly winds are expected to freshen from Saturday evening, becoming strong at times, with the risk of gusts reaching speeds of 50-60mph.' A map of the Midlands region of the UK is shown, with the warning area highlighted in yellow. Red circles 1, 2, and 3 are overlaid on the screenshot to highlight the date selector, the warning details box, and the 'HELP TOOL' button respectively.

i Information

The 'Warnings' page displays any weather warnings which have been issued covering the **next five days**. The page automatically scrolls through each warning, until a warnings icon is clicked on. The **weather warnings matrix** has been designed in conjunction with Severn Trent Water and is based on a traffic light system.

Time and type of warning 1

This section displays if any **weather warnings** are in place over the **next five days**. Each **weather type** has its own icon, as well as being displayed in either yellow, amber or red, depending on the **severity of the warning**. The key for each icon is displayed on the right, and can also be viewed online by clicking on the **'Help Tool'** Box.

It is important to note that you should check the **'Warnings'** section regularly, as warnings may be either added or removed, as well as the severity of the warning also changing. This is especially true towards the end of the 5-day period, where there is greater uncertainty, the further ahead the forecast.

Further details 2

By clicking on the weather warning icon, this will highlight the **regions** on the map that will be affected by the warning. A text box will also appear in the top left corner of the map that will provide more detailed information on:

- the type of warning issued
- the time the warning was issued
- the time period for which the warnings is valid
- further commentary written by the duty forecaster

The colour of the icon is determined by the **Weather Warning Matrix**, which illustrates the **% chance** and **impact** of the forthcoming weather.

WEATHER TYPES			
Rain			
Snow			
Lightning			
Strong Winds			
Fog/Visibility			
Ice			
Cold Temperatures			
Sunburn Risk			
HeatStroke			

WEATHER WARNING MATRIX				
	IMPACTS			
	LOW	MOD	HIGH	SVR
%Chance	>75	>75	>75	>75
	25-75	25-75	25-75	25-75
	<25	<25	<25	<25
	0	0	0	0

Help Tool 3

By clicking on the **'Help Tool'** box, this will display the **Weather Warning Matrix**, and also the **key** for each weather type.

Rainfall Radar

This page can be accessed by clicking on 'Rainfall Radar', either on the menu bar or via the top-middle icon on your Portal home page.

i Information

The **15 minute rainfall radar** is on a continuous 3-hour loop, and allows you to see where precipitation (rain or snow) is falling across the region that Severn Trent operates in. It is also possible to view live data for a range of weather variables.

1 Map Controls

You can choose which weather data you would like to display by selecting the different **weather variables**. Simply select these controls to change the variable. A description of each variable, and how it is calculated is provided on the page below. Should you wish to refer to the definition of each variable whilst you are using the Portal, just click the **'Help Tool'** box.

Description of each weather variable and how it is calculated

1

The data provided is recorded at **official meteorological stations** around the UK. When you hover over the weather data icon, this displays four numbers, which is the code of the meteorological station. This is then followed by the data of that weather variable, which is then followed by the date and time that the observation was recorded.

The time that each image is valid for is displayed in a box in the top-right corner of the map.

*The data provided is cumulative either over the course of the hour or day

**The data provided is an instantaneous, on the hour, value

RAINFALL RADAR

The 15 minute rainfall radar is on a continuous 3-hour loop, and allows you to see where precipitation (rain or snow) is falling across the United Kingdom.

LIGHTNING TRACKER

The Lightning Tracker displays lightning strikes over the United Kingdom which have been picked up on the ATD (Arrived Time Difference) network. The display updates every 5 minutes and displays the last 60 minutes of strike data. By hovering over each lightning strike, this tells you the exact time that the strike occurred.

***HOURLY RAIN TOTALS (mm)**

This is the amount of rainfall or snowmelt, in millimetres, which has occurred over the last hour.

***DAILY RAIN TOTALS (mm)**

This is the amount of rainfall or snowmelt, in millimetres, which has occurred since midnight.

****WIND SPEED + DIR (mph)**

This is the mean wind speed at 10 metres, in miles per hour (mph) and the wind direction during the last hour.

****GUST SPEED + DIR (mph)**

This is the maximum wind gust at 10 metres, in miles per hour (mph) and the wind direction during the last hour. Gust speed values will only be displayed once gust speeds exceed 29mph. In order for a gust to be reported, the mean wind speed has to be at least 15 knots (17mph), and the gust speed has to be 10 knots (12mph) higher than that, hence the lowest gust that can be recorded is 25 knots (29mph).

****TEMPERATURE (°C)**

This is the temperature in degrees Celsius (°C) recorded at a height of 2 metres.

***DAILY SUNSHINE DURATION (hrs)**

This is the total amount of sunshine hours recorded since midnight.

Controls

2

Clicking the arrows allows you to manually scroll through the loop. You can also control the speed the animation plays at, and whether the animation plays forwards or backwards.

Key

3

A key is also provided to give a better insight into the **rainfall intensity**:

- Light: 0.1 - 2.0 mm/hr
- Moderate: 2.0 - 4.0 mm/hr
- Heavy: 4.0+ mm/hr

The age of any **lightning strikes** within the last hour is also illustrated using a colour-coding system.

Zoom using Google Maps

4

When you first navigate to the '**Rainfall Radar**' page, the map is automatically focussed on the regions that Severn Trent Water operate in. Since we are using **Google maps**, you have the ability to zoom into the map to any desired location using the zoom facilities located in the top-left corner of the map. Thereafter, simply drag the map with your mouse in any direction (north, south, east or west) to move the map. As with any Google map, you can also change the background map from the initial white land/blue sea map (the 'Map' setting) to a more realistic green land/blue sea background, by clicking on the 'Satellite' button in the top-right corner of the map.

48-hour Forecast

This page can be accessed by clicking on '48h Forecast', either on the menu bar or via the top-right icon on your Portal home page.

weatherquest **SEVERN TRENT WATER** Speak directly to a forecaster

Home Warnings Rainfall Radar **48h Forecast** 3-10 Day Forecast Monthly Toolbox Log Out 01603 507605

48 HOUR FORECAST FOR: CV1 2LZ Search

Site Information - CV1 2LZ HELP TOOL ?

06:59 17:37 Last updated: Friday, February 27th 2015 - 02:07

Friday Today: Staying mainly dry with some long spells of sunshine after a chilly start, but cloud will increase through the afternoon with a few spots of light rain possible late in the day, and a mainly light southwesterly wind. Overnight: Cloud thickening through the evening with the chance of patchy rain developing overnight, with a light to moderate southerly wind.

Saturday During the day: Rather cloudy, with a few showery spots of rain, but some brighter spells as well. Some more persistent rain will move in from the west later in the afternoon, with a light to moderate southerly wind. Overnight: A cloudy and windy start to the night, with some heavy bursts of rain, clearing by midnight to leave some blustery showers, and a fresh southerly wind. Feeling cold.

7°C 4°C DAY NIGHT 0.1mm 1mm 1mm 2mm 9°C 4°C DAY NIGHT 1mm 2mm

	06:00	09:00	12:00	15:00	18:00	21:00	00:00	03:00	06:00	09:00	12:00	15:00	18:00	21:00
Air Temperature	1°C	3°C	6°C	7°C	6°C	4°C	4°C	5°C	6°C	7°C	8°C	8°C	7°C	10°C
Ground Temperature	-1°C	-1°C	4°C	7°C	6°C	4°C	4°C	5°C	6°C	6°C	8°C	8°C	8°C	10°C
Wind Chill	-1°C	1°C	0°C	0°C	0°C	1°C	1°C	0°C						
Relative Humidity	84%	86%	61%	57%	65%	72%	83%	88%	95%	98%	89%	82%	89%	92%
Visibility	18km	19km	40km	48km	33km	33km	44km	19km	9km	8km	26km	32km	5km	6km
Wind Speed	4mph	4mph	7mph	9mph	7mph	7mph	11mph	11mph	11mph	11mph	11mph	13mph	16mph	20mph
Gust Speed	8mph	8mph	14mph	18mph	14mph	14mph	22mph	22mph	22mph	22mph	22mph	26mph	32mph	40mph
Wind Direction	►	►	►	►	►	►	►	►	►	►	►	►	►	►
% Chance of Precipitation	0%	0%	0%	0%	20%	30%	30%	0%	80%	80%	10%	0%	80%	80%
Rainfall - Past 3 hours	0mm	0mm	0mm	0mm	0.1mm	0mm	0.2mm	0mm	0.1mm	0.3mm	0.1mm	0mm	0.6mm	0.7mm
Snowfall - Past 3 hours	0cm													
Weather														

Total 3 hourly Rainfall (mm)

Select a different graph to view

- Total Rainfall
- Total Snow Depth
- Wind Speed/Gust
- Temperature
- Visibility km
- Total 3 hourly rainfall totals (mm)
- Total 3 hourly snow depth totals (cm)
- Gust (mph)
- Air temperature (C)
- Visibility in km, max 7km shown on graph
- Mean speed (mph)
- =200 metres
- = 1km

i Information

Here, we try to bring all the latest relevant information for your location over the next 48 hours onto one page. The **forecast table** is automatically updated twice a day with the latest model data. Therefore, during the course of the first forecast day, the 06:00, 09:00, 12:00 and 15:00 columns will become blank since a forecast is no longer required for that time.

Search a location

1

The data on this page automatically displays a forecast for CV1 2LZ, but you can change the location by typing in any place name or postcode.

Site Information

2

This displays your selected location, and sunrise and sunset times. You can **print** the information on this page by selecting the print icon.

Forecast Text

3

The **forecast text** provides an insight into the main weather story for each day and night for the current day and the next day, including predominant weather type, wind strength and wind direction.

Forecast Summary

4

Beneath the Forecast Text is the **Forecast Summary** for each day.



The 06:00 – 18:00 maximum temperature is displayed in red.

The 18:00 – 06:00 forthcoming night minimum temperature is shown in blue.

12-hour rainfall accumulations are also provided, divided into day (covering 06:00 – 18:00) and night (covering 18:00 – 06:00). The rainfall totals in the left column (adjacent to the two rainfall drops) highlight the **expected** rainfall total (in millimetres). The rainfall totals in the right column (adjacent to the three rainfall drops) show the **potential maximum** rainfall accumulation. This gives a good indication into the range of rainfall accumulation that can be expected during each period, due to the highly variable nature of rainfall even over short distances.

Forecast Table

5

The **forecast table** provides a wealth of information, derived from high-resolution model data. Let's explore each element contained within the table, which is displayed at 3-hourly intervals:

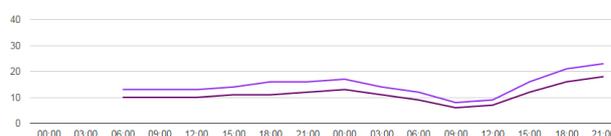
AIR TEMP	The dry-bulb air temperature (1.5 metres above ground level) in degrees Celsius.
GROUND TEMP	The ground temperature in degrees Celsius. This can differ greatly from the air temperature under calm conditions, giving an insight into when frost or ice is possible.
WIND CHILL	This is a “feels-like” temperature, and takes into account wind speeds and humidity, to produce a temperature value that will be representative of what the human body will feel.
RELATIVE HUMIDITY	Relative humidity, measured as a percentage.
VISIBILITY	The greatest distance at which an object or light can be seen in kilometres (km)
WIND SPEED @ 10m	Average wind speed over a 10-minute period for the displayed time interval, measured at a height of 10 metres, in miles per hour (mph)
GUST SPEED @ 10m	Gust speed, measured at a height of 10 metres, in miles per hour (mph), is the instantaneous maximum gust possible.
WIND DIRECTION	Wind direction, measured on a 16-point compass (or alternatively at 22.5° intervals), to show the predominant direction that the wind is blowing from.
% CHANCE OF PRECIPITATION	The percentage chance that rain may occur at the specified time period.
RAINFALL (PAST 3 HOURS)	The total amount of rainfall that is forecast to fall during the previous 3-hour period, in millimetres.
SNOWFALL (PAST 3 HOURS)	The total amount of snowfall that is forecast to fall during the previous 3-hour period, in centimetres.
WEATHER	We use a variety of different variables to determine the predominant weather type, displayed here as an icon.

Forecast Graphs

6

The **forecast graphs** are located underneath the main forecast table, and can be used to highlight trends in the changing weather over the next 48 hour period. Simply click on one of the buttons next to either:

- Total Rainfall (mm)
- Total Snow Depth (cm)
- Wind Speed and Gust (mph)
- Temperature (°C)
- Visibility (km)



to display the graph of one of these variables.

3-10 Day Forecast

The 3-10 day probability forecasts can be accessed by clicking on '3-10 Day Forecast', either on the menu bar or via the bottom-left icon on your Portal home page.

1 Site Information - CV1 2LZ

2 CV1 2LZ

RAINFALL (mm) PROBABILITY %

Date	Wed-25	Thu-26	Fri-27	Sat-28	Sun-01	Mon-02	Tue-03	Wed-04
>10mm	0	2	2	2	2	2	2	2
5-10mm	0	16	5	0	0	0	0	0
3-5mm	0	84	93	98	98	98	98	98
1-3mm	14	48	74	74	64	90	38	42
0-1mm	80	28	18	24	34	4	42	98
0mm	80	28	18	24	34	4	42	98

TEMPERATURE (C) PROBABILITY %

Date	Wed-25	Thu-26	Fri-27	Sat-28	Sun-01	Mon-02	Tue-03	Wed-04
>35C	0	0	0	0	0	0	0	0
30 to 35C	0	0	0	0	0	0	0	0
25 to 30C	0	0	0	0	0	0	0	0
20 to 25C	0	0	0	0	0	0	0	0
5 to 20C	0	0	0	0	0	0	0	0
-10 to -5C	0	0	0	0	0	0	0	0
-15 to -10C	0	0	0	0	0	0	0	0
<-15C	0	0	0	0	0	0	0	0

MAXIMUM WIND GUST (mph) PROBABILITY %

Date	Wed-25	Thu-26	Fri-27	Sat-28	Sun-01	Mon-02	Tue-03	Wed-04
>80mph	0	0	0	0	0	0	0	0
60 to 80mph	0	0	0	0	0	0	0	0
50 to 60mph	0	0	0	0	0	0	0	0
40 to 50mph	0	0	0	0	0	0	0	0
30 to 40mph	10	2	18	13	6	48	62	5
20 to 30mph	90	62	50	52	38	90	52	38
15 to 20mph	34	34	28	54	4	32	24	2
10 to 15mph	2	6	8	8	2	2	2	2
5 to 10mph	2	6	8	8	2	2	2	2
0 to 5mph	2	6	8	8	2	2	2	2

i Information

Probability forecasting is a developing area of operational meteorology, which allows the degree of confidence to be expressed in terms of a percentage chance of an event occurring.

- Here, the probability of:
- rainfall
 - temperature
 - maximum wind gust

within certain threshold bands on a given day is displayed in tabular format.

In the table cells the higher the percentage chance, and the brighter the cell colour, then the more likely it is for that event to occur within the set threshold bands (e.g - if rainfall for the first day has 80% in the '0mm' threshold, then it is very likely to occur within this band. Days where several cells are shaded, albeit in less-bright colours, highlights greater uncertainty in the forecast. Naturally, the further ahead the forecast is, the more spread there tends to be in the possible outcomes.

Site Information 1

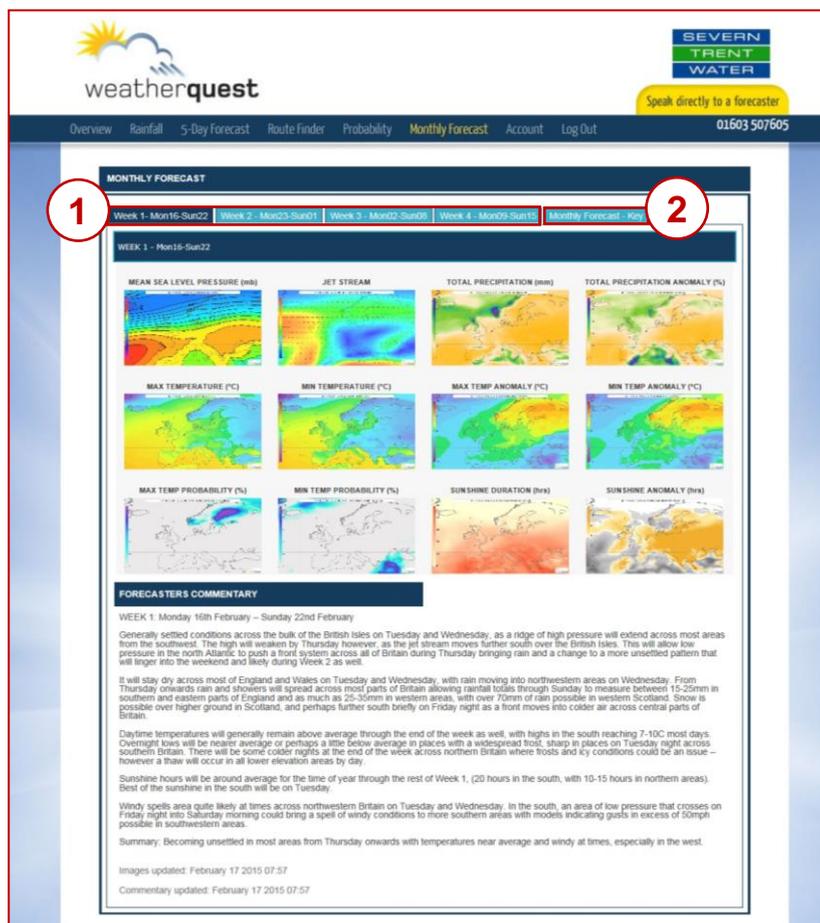
This displays your selected location, and sunrise and sunset times. You can also **print** the information on this page by selecting the print icon.

Choose your location 2

The 10-Day Probability Forecasts are automatically set to display data for the postcode: CV1 2LZ. You can change the location by typing in a postcode or place name, and clicking '**Search**'.

Monthly

The monthly (4-week) forecast can be accessed by clicking on 'Monthly', either on the menu bar or via the bottom-middle icon on your Portal home page.



i Information

The **Monthly Forecast** is updated every Tuesday and Friday afternoon, and runs out to **4 weeks** in advance covering the **European domain**. It contains a large selection of charts based on probability, including:

- Mean Sea Level Pressure
- Maximum Temperature Anomaly
- Minimum Temperature Anomaly
- Total Precipitation Anomaly
- And several others

The charts are accompanied by a detailed Forecaster Commentary. The commentary highlights any unusual weather patterns or anomalies, and/or severe weather, across Britain.

Week 1 – Week 4

1

Each week is broken down, such that you can view the forecasts for each week by using the associated tabs. Always check when the images and Forecast Commentary were last updated (at the bottom of the commentary) as update times vary each week.

Monthly Forecast - Key

2

You can view a key, which describes and explains what each variable means.

Both the Monthly Forecast and 10-Day Probability Forecasts use data from the **ECMWF** (European Centre for Medium-Range Weather Forecasts) ensemble prediction system (EPS), which are well-regarded in the meteorology sector for their accuracy and ability to spot changing trends in medium-range weather forecasting. They can, on occasion, provide crucial information on **any major forthcoming wet periods**, cold spells or heatwaves, which will be adequately highlighted in the **Forecaster Commentary**.

Toolbox

The Toolbox page can be accessed by clicking on **'Toolbox'**, either on the menu bar or via the bottom-right icon on your Portal home page.

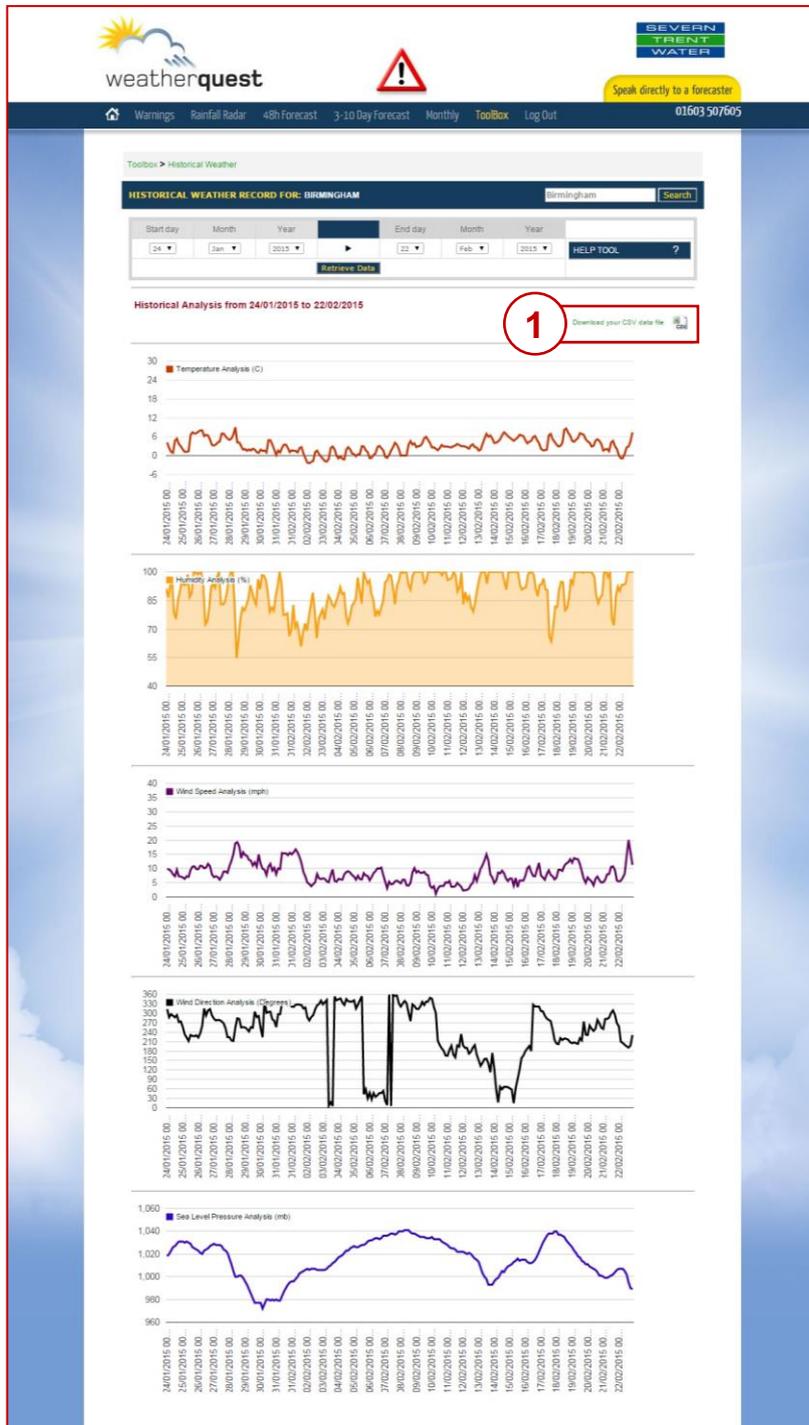
From here you can access three additional features:

- Recent Weather
- Route Finder
- Renewable Energy (coming soon)

The screenshot shows the Weatherquest Toolbox page. At the top left is the Weatherquest logo. To the right is the Severn Trent Water logo and a yellow button that says "Speak directly to a forecaster". Below the logo is a navigation bar with links: Home, Warnings, Rainfall Radar, 48h Forecast, 3-10 Day Forecast, Monthly, **ToolBox**, and Log Out. The phone number 01603 507605 is displayed on the right. The main content area has a header "YOUR TOOLBOX" with a wrench icon. Below this is a large image of industrial machinery. To the right of the image is an "ABOUT" section with a search icon and text: "The Toolbox section holds a collection of additional forecast and analysis tools to help your day to day activities." Below the image is the text "Welcome to your Toolbox". There are three feature cards: "Recent Weather" (with a bar chart icon), "Route Finder" (with a car icon), and "Renewable Energy" (with a lightbulb icon and a red "Coming soon!" watermark). To the right of these cards is a "FEEDBACK" section with a question mark icon and text: "Receiving feedback is important to us as it helps us improve our services to you. You can contact the Weatherquest team directly using feedback@weatherquest.co.uk".

Toolbox: Recent Weather

The recent weather analysis page can be accessed by clicking on 'Recent Weather', on the left icon on the Toolbox page.



i Information

Here, 3-hourly model analysis of the weather conditions at a selected location can be displayed for a time period from 1st January 2011 to present day.

Simply use the drop-down menus to select the appropriate date, and then click on 'Retrieve Data' to generate analysis graphs of:

- temperature
- humidity
- wind speed
- wind direction
- sea level pressure

This tool is incredibly useful for analysing past weather conditions at your location. The graphs are also interactive, enabling you to hover over individual data points to display the exact values of each variable. The data is based on model-analysis, as opposed to data from observational sites, as this provides much higher resolution data (at 4km).

Download your CSV file 1

You can **download** the data for your chosen location and time period in a spreadsheet format that will open with **Microsoft Excel**.

Toolbox: Route Finder

The route finder analysis page can be accessed by clicking on '**Route Finder**', on the middle icon on the Toolbox page.

The screenshot shows the Weatherquest Route Planner interface. At the top, there's a navigation bar with 'Warnings', 'Rainfall Radar', '48h Forecast', '3-10 Day Forecast', 'Monthly', 'ToolBox', and 'Log Out'. The 'ToolBox' is highlighted. Below the navigation bar, there's a 'Route Planner' section with an 'INTERACTIVE ROUTE PLANNER' form. The form has fields for 'From' (CV1 2LZ), 'To' (B37 7YG), 'Date' (Monday), and 'Time' (16:00). There are buttons for 'Calculate route', 'Show Weather', and 'Clear route'. Below the form is a map showing a route from CV1 2LZ to B37 7YG. The route is highlighted in blue. Below the map is a list of directions with distances and estimated times for each step.

Step	Instruction	Distance
1	Head north on St John's St toward Little Park St/B4344	0.1 mi
2	Turn left onto Little Park St/B4344	231 ft
3	Turn left onto New Union St	217 ft
4	At the roundabout, take the 4th exit onto the Ringway St Patrick's/A4033 ramp to Ring Road/Birmingham/A45	0.2 mi
5	Merge onto Ringway St Patrick's/A4033	0.6 mi
6	Take the A4114 ramp to A45/Birmingham/Coundon/Alleyley	0.1 mi
7	At the roundabout, take the 1st exit onto Holyhead Rd/A4114	0.4 mi
8	At the roundabout, take the 2nd exit onto Holyhead Rd/A4114	1.3 mi
9	At the roundabout, take the 2nd exit onto Pickford Way/A4114	0.7 mi
10	At the roundabout, take the 3rd exit	0.1 mi
11	Take the ramp on the right to Meriden/Birmingham Airport/N.E.C.	0.2 mi
12	Merge onto Dunthorpe Way/A45	4.8 mi
13	Take the A452 ramp to Brownhills/Warwick/A4177	0.3 mi
14	At the roundabout, take the 3rd exit onto Chester Rd/A432	1.7 mi
15	At the roundabout, take the 2nd exit onto Solihull Pkwy	0.3 mi
16	At the roundabout, take the 1st exit and stay on Solihull Pkwy	0.3 mi
17	At the roundabout, take the 1st exit	331 ft
18	Turn right	335 ft

i Information

Here, you can plan your route from A to B with **directions** and expected **journey time** provided. You can also enter the date and time of your journey, with a **weather forecast** provided, displaying how the weather will vary throughout your journey, and allow you to adjust your journey departure time in order to correspond with more ideal weather conditions.

1 Zoom into a location

We are using **Google maps**, therefore you have the ability to zoom in or out of the map using the zoom facilities located in the top-left corner of the map. Thereafter, simply drag the map with your mouse in any direction (north, south, east or west) to move the map.

2 Entering a route

To enter a route, you need to know the **two postcodes** of the places you are travelling between (these must be in postcode format, entering a place name will not work).

3 Time of travel and forecast weather

The date and time for your route is automatically set to depart from CV1 2LZ for the current day and time. Should you wish to change your day of travel, click the drop down menu and select another day. To change the time of your journey, enter the hour (in a 24-hour format, e.g – 07 or 22). Then click '**Calculate Route**', followed by '**Show Weather**'. We provide a **weather forecast** extending out to five days. If you would like to enter a new postcode, or change the day or time, then you need to select '**Clear Route**' first.