

Monthly water situation report: Wessex Area

1 Summary - August 2025

August was the sixth consecutive dry month in Wessex. An average of 39mm of rain, 54% of the long term average (LTA) fell across Wessex. Most rain fell between 27 and 31 August at the end of the month. This has now been the second driest 6 month period (March to August) since records began in 1871. The north of Wessex received notably less rain in August than in the south. For several hydrological areas in the north, this has been the driest 6 month period (March to August) on record. Soil moisture deficit (SMD) increased gradually throughout most of August but fell sharply in the last week of the month following the rain. Monthly mean flows recorded across Wessex in August were largely below normal or notably low. Daily mean flows in August peaked towards the end of the month, in response to rain between 27 and 31 August. Most groundwater sites, including all sites monitoring the Chalk aquifer, reported notably or exceptionally low levels at the end of August. The only exception was Allington in the north which reported below normal levels. Overall reservoir levels for Wessex Water were approximately 42% capacity at the end of August while for Bristol Water, levels were approximately 39% capacity.

1.1 Rainfall

An average of 39mm of rain fell across Wessex in August (54% of the LTA). This is the sixth consecutive dry month, resulting in the second driest 6 month period (March to August) since records began in 1871 and the driest since 1976. However, for several catchments in the north of Wessex such as the Bristol Avon and the Mendips, this is the driest 6 month period (March to August) on record. In total, 84% of the month's rain fell between 27 and 31 August. Overall, rainfall was notably low in most hydrological areas in the north and either normal or below normal in most areas to the south. The highest relative rainfall fell in the Poole Harbour and Purbeck area with 80% of the LTA. The Little Avon in the north of Wessex received the least relative rainfall with 34% of the LTA.

Over the past 3 months, the majority of hydrological areas in the north and west of Wessex received notably low rainfall while the majority of sites in the south received below normal rainfall. Over the past 6 months, all hydrological areas have received exceptionally low rainfall. Over the past 12 months however, all areas have received normal rainfall.

1.2 Soil moisture

SMD in Wessex continued to increase for most of August, spending the majority of August close to the historic maximum SMD. However, due to the rain in the last week of August, SMD decreased rapidly at the end of the month. At the end of August, SMD was notably lower than the historic maximum and only slightly higher than this time last year. Across most

hydrological areas, SMD ended August between 101mm to 130mm. The other areas all ended August with an average SMD between 71mm to 100mm. For all but two hydrological areas, SMD at the end of August was between 6mm to 25mm greater than the LTA.

1.3 River flows

In August, most flow sites in Wessex recorded below normal or notably low monthly mean flows. The only exceptions were Frenchay on the Bristol Frome to the north and South Newton on the Wylfe to the south which both recorded exceptionally low mean flows during August. Most sites monitoring flows on or downstream of the Chalk aquifer recorded slightly higher relative monthly mean flows because of supporting baseflow from the aquifer. Daily mean flows across Wessex peaked toward the end of the month around 29 August following the rain on the previous 2 days with most flows starting to recede at the end of the month.

1.4 Groundwater levels

Following 6 consecutive dry months, the majority of groundwater sites in Wessex, including all sites monitoring the Chalk aquifer, ended August reporting notably or exceptionally low levels. Allington (monitoring the Great Oolite) was the only site to record below normal groundwater levels at the end of August. For most monitoring sites, groundwater levels decreased throughout August.

1.5 Reservoir stocks

Both Wessex Water and Bristol Water reservoir levels continued to decrease throughout August. The combined levels at the end of the month for Wessex Water were approximately 42% capacity while for Bristol Water, combined levels were approximately 39% capacity. For both water companies, this is notably lower than reservoir levels recorded this time last year.

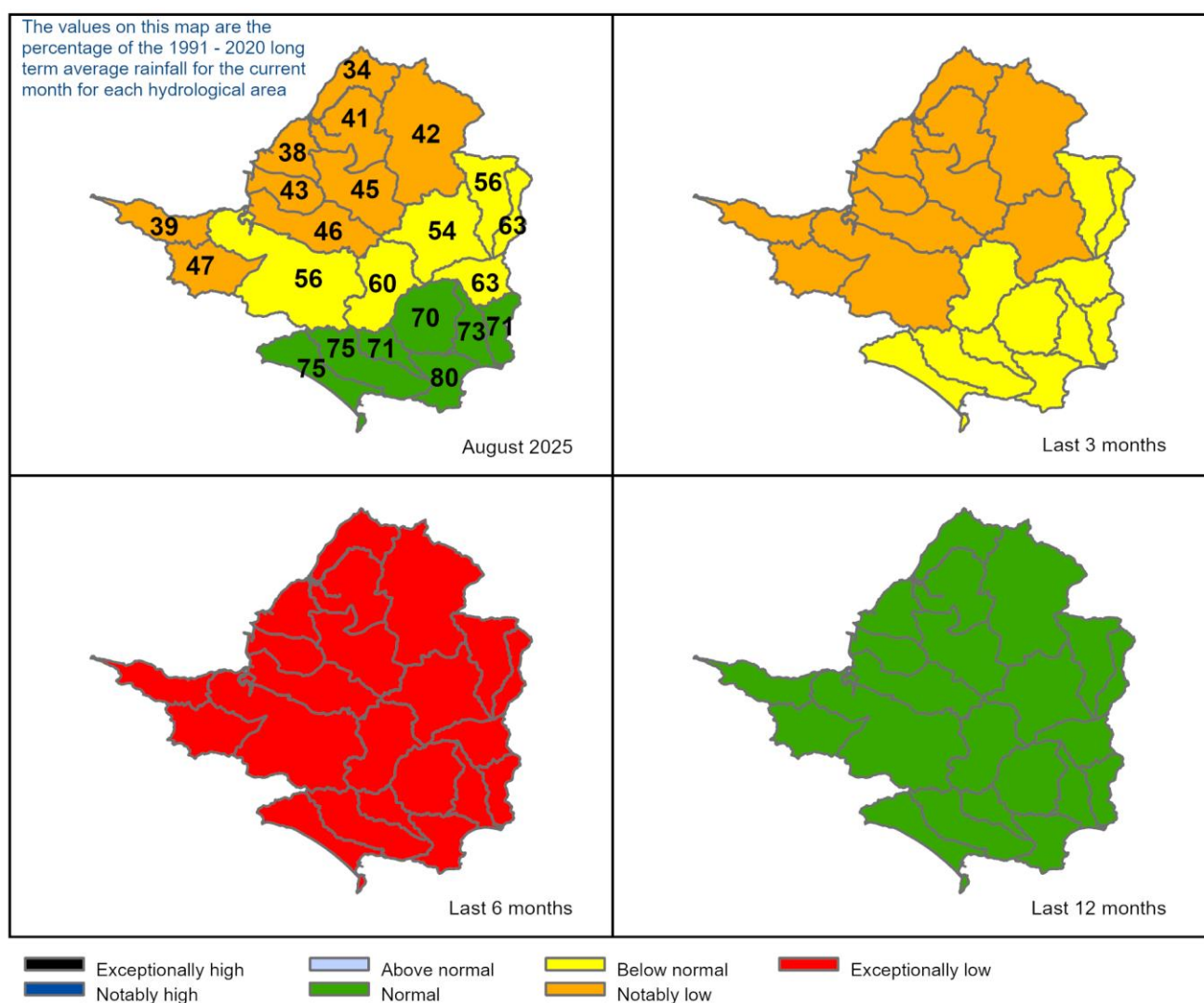
Author: Wessex Hydrology, hydrology.wessex@environment-agency.gov.uk

All data are provisional and may be subject to revision. The views expressed in this document are not necessarily those of the Environment Agency. Its officers, servants or agents accept no liability for any loss or damage arising from the interpretation or use of the information, or reliance upon views contained in this report.

2 Rainfall

2.1 Rainfall map

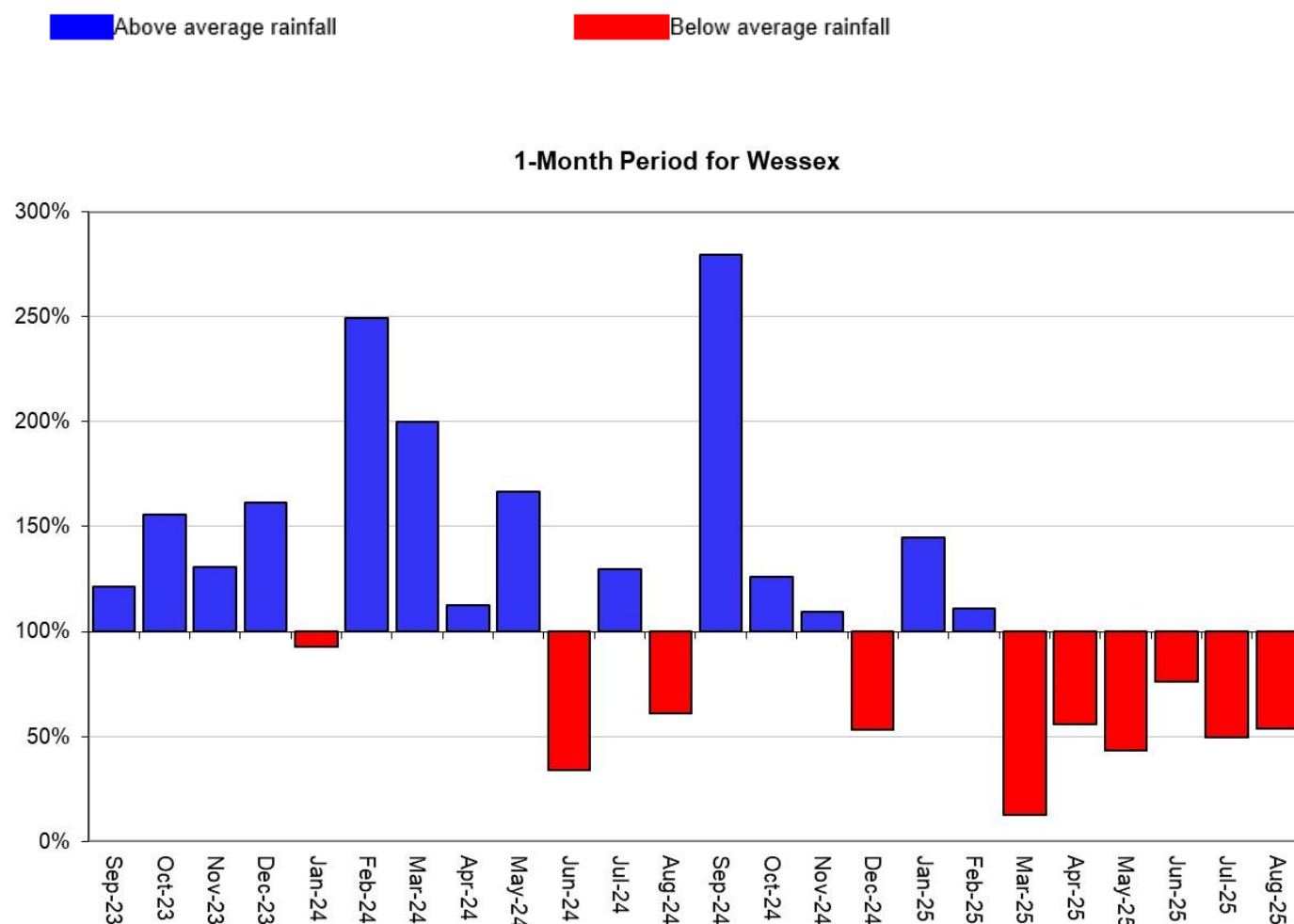
Figure 2.1: Total rainfall for hydrological areas for the current month (up to 31 August 2025), the last 3 months, the last 6 months, and the last 12 months, classed relative to an analysis of respective historic totals between 1991 and 2020. Table available in the appendices with detailed information.



Rainfall data for October 2023 onwards, extracted from Environment Agency 1km gridded rainfall dataset derived from Environment Agency intensity rain gauges. (Source: Environment Agency. Crown Copyright, 100024198, 2025). Rainfall data prior to October 2023, extracted from Met Office HadUK 1km gridded rainfall dataset derived from registered rain gauges (Source: Met Office. Crown copyright, 2025).

2.2 Rainfall charts

Figure 2.2: Monthly rainfall totals for the past 24 months as a percentage of the 1991 to 2020 long term average for each region and for England.

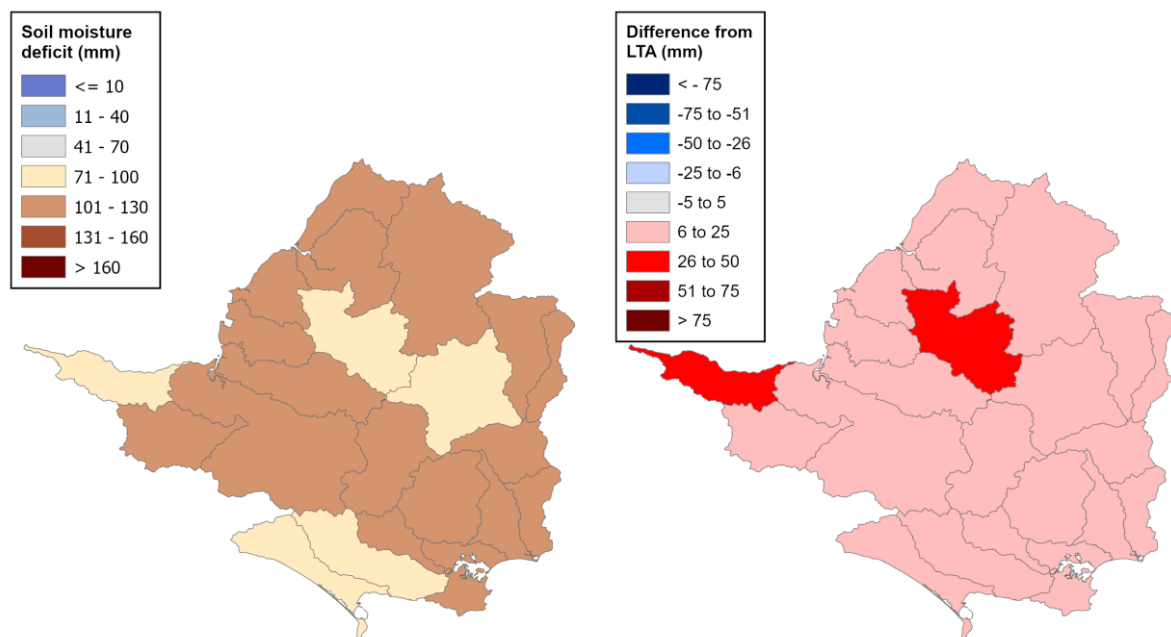


Rainfall data for October 2023 onwards, extracted from Environment Agency 1km gridded rainfall dataset derived from Environment Agency intensity rain gauges. (Source: Environment Agency. Crown Copyright, 100024198, 2025). Rainfall data prior to October 2023, extracted from Met Office HadUK 1km gridded rainfall dataset derived from registered rain gauges (Source: Met Office. Crown copyright, 2025).

3 Soil moisture deficit

3.1 Soil moisture deficit map

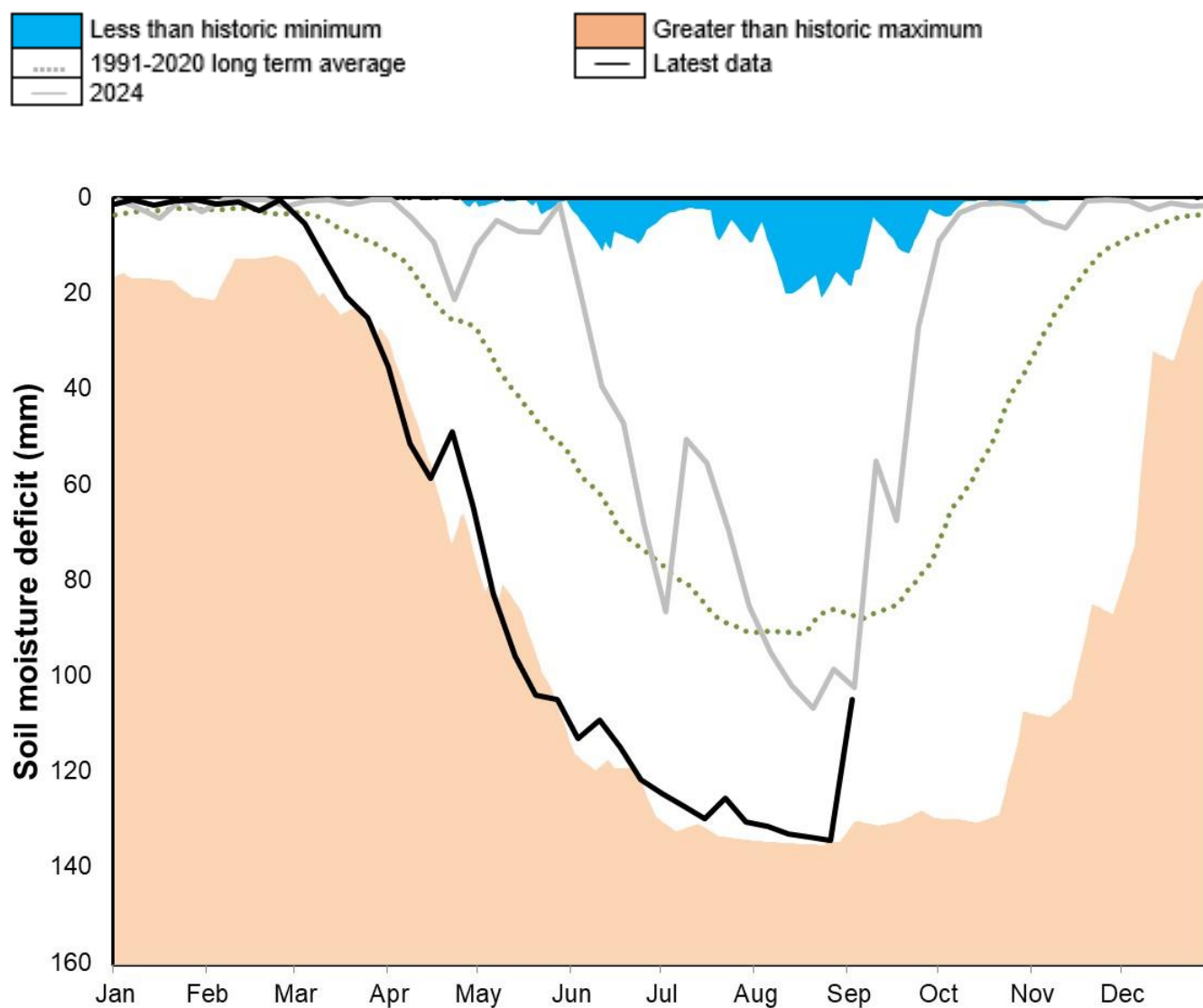
Figure 3.1: Soil moisture deficits for weeks ending 31 August 2025. Shows the difference (mm) of the actual soil moisture deficit from the 1991 to 2020 long term average soil moisture deficits. MORECS data for real land use.



(Source: Met Office. Crown copyright, 2025). All rights reserved. Environment Agency, 100024198, 2025.

3.2 Soil moisture deficit charts

Figure 3.2: Latest soil moisture deficit compared to previous year, maximum, minimum, and 1991 to 2020 long term average. Weekly MORECS data for real land use.

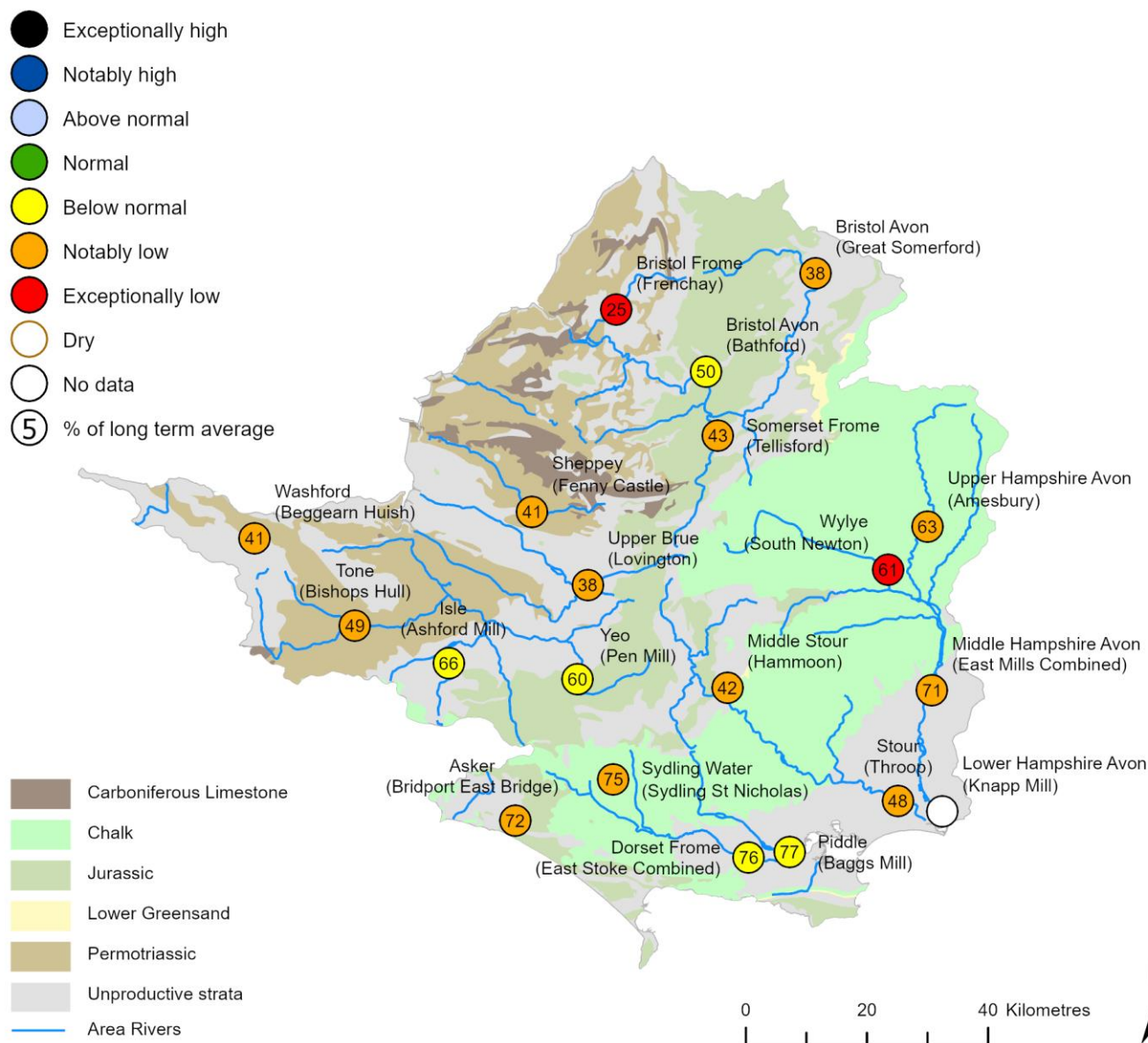


(Source: Met Office. Crown copyright, 2025). All rights reserved. Environment Agency, 100024198, 2025

4 River flows

4.1 River flows map

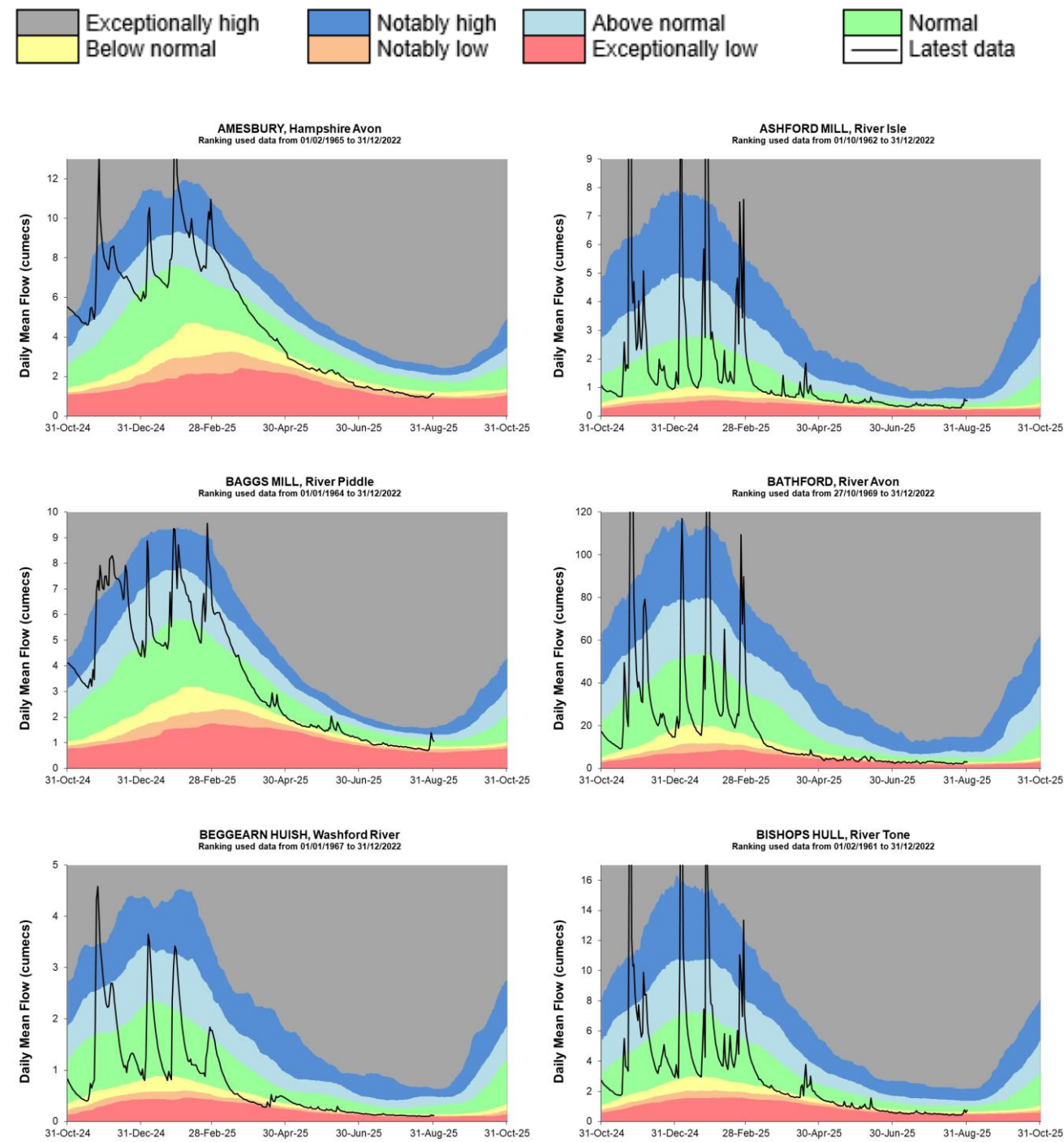
Figure 4.1: Monthly mean river flow for indicator sites for August 2025, expressed as a percentage of the respective long term average and classed relative to an analysis of historic August monthly means Table available in the appendices with detailed information.



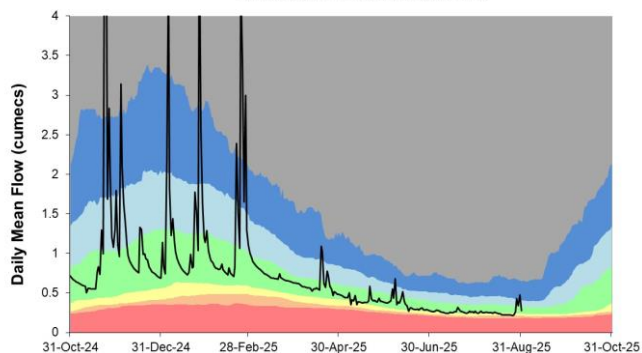
(Source: Environment Agency). Crown copyright. All rights reserved. Environment Agency, 100024198, 2025. Knapp Mill omitted due to ongoing data issues.

4.2 River flow charts

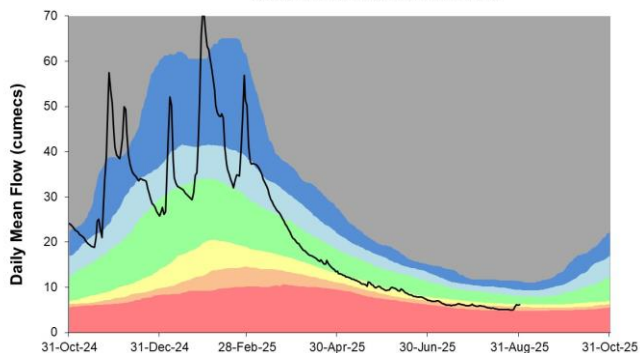
Figure 4.2: Daily mean river flow for index sites over the past year, compared to an analysis of historic daily mean flows.



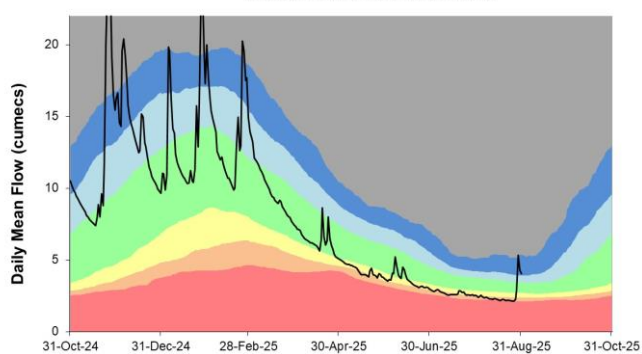
BRIDPORTEAST BRIDGE, River Asker
Ranking used data from 01/03/1996 to 31/12/2022



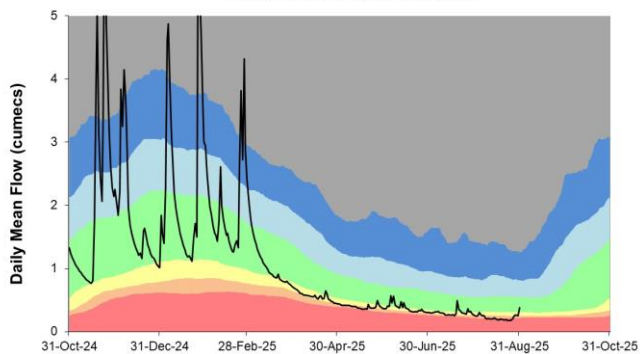
EAST MILLS COMBINED, Hampshire Avon
Ranking used data from 01/11/1965 to 31/12/2022



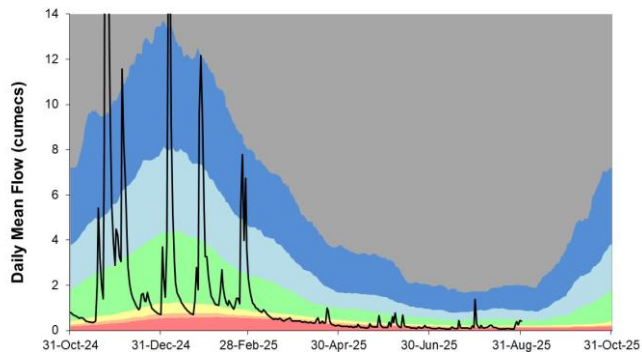
EAST STOKE COMBINED, Dorset Frome
Ranking used data from 01/10/1965 to 31/12/2022



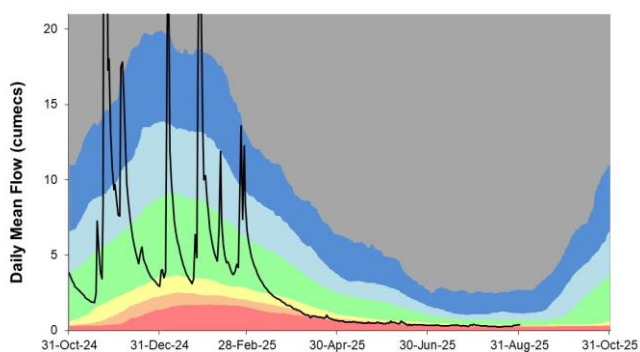
FENNY CASTLE, River Sheppey
Ranking used data from 01/01/1964 to 31/12/2022



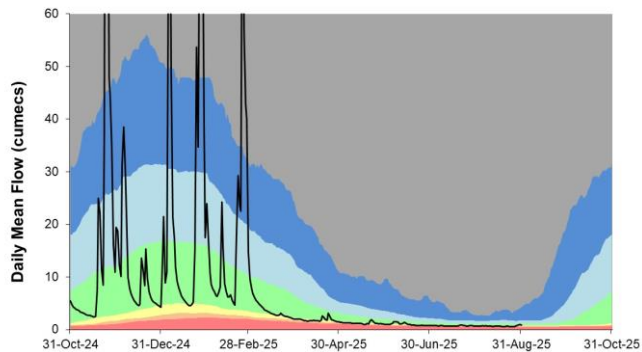
FRENCHAY, Bristol Frome
Ranking used data from 01/09/1961 to 31/12/2022



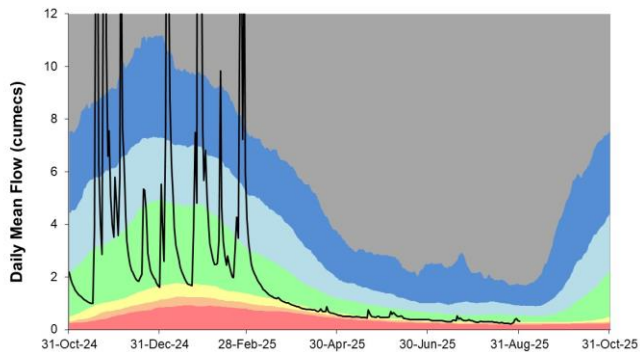
GREAT SOMERFORD, River Avon
Ranking used data from 16/12/1963 to 31/12/2022

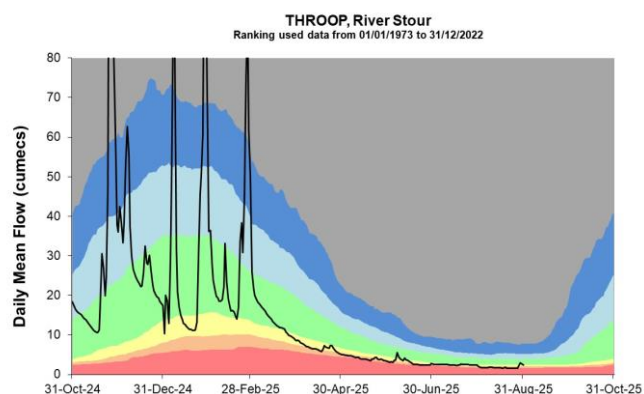
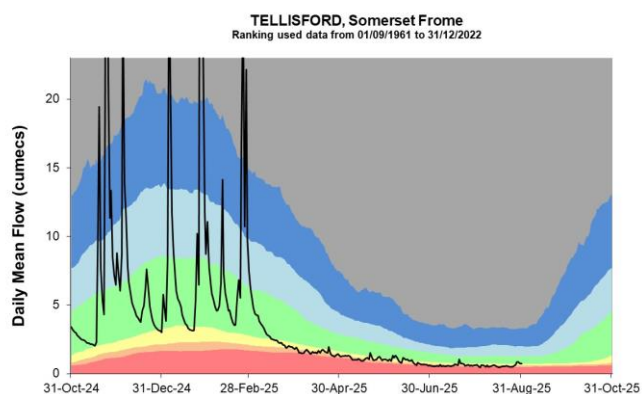
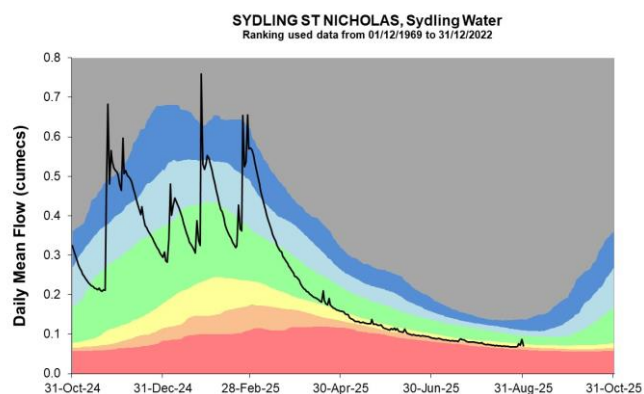
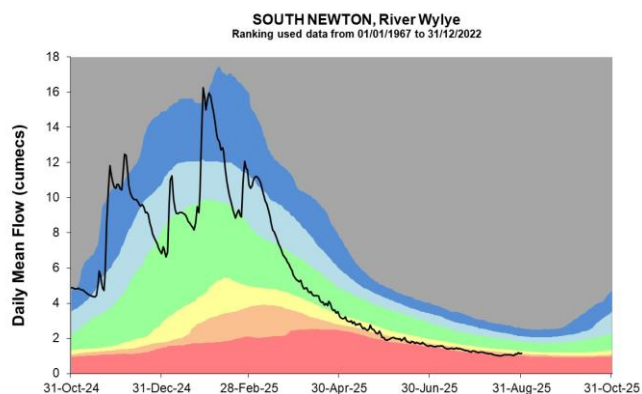
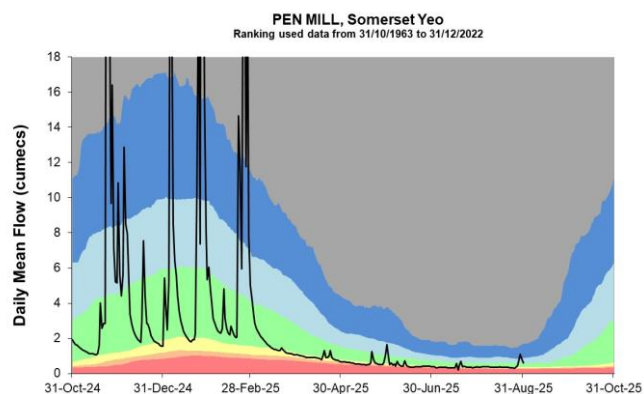


HAMMOON, River Stour
Ranking used data from 01/03/1968 to 31/12/2022



LOVINGTON, River Brue
Ranking used data from 01/10/1964 to 31/12/2022



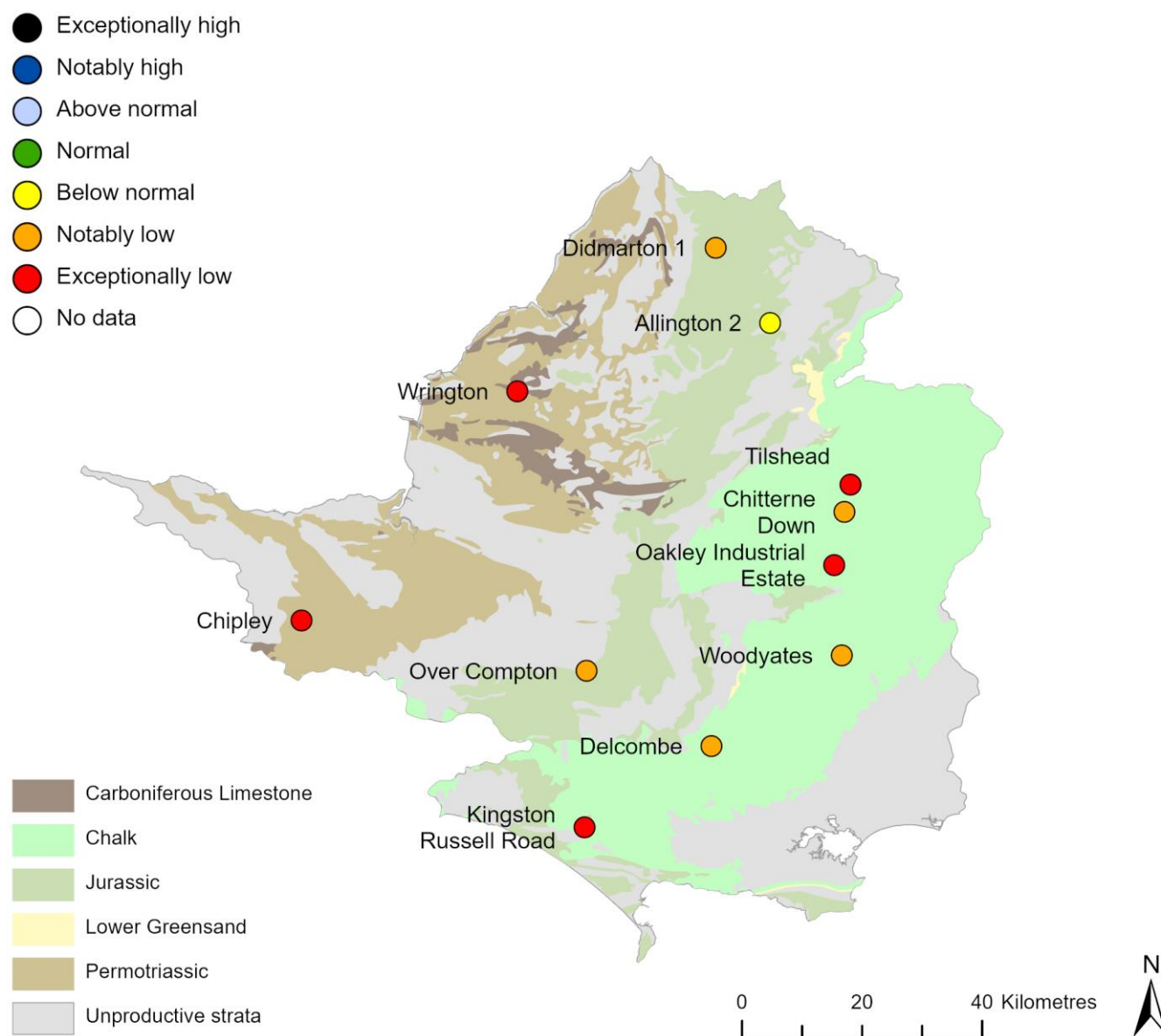


Source: Environment Agency, 2025.

5 Groundwater levels

5.1 Groundwater levels map

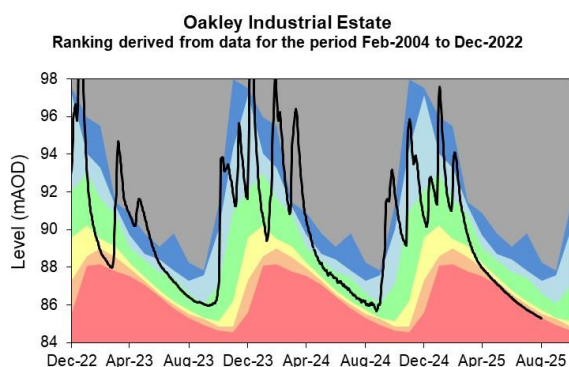
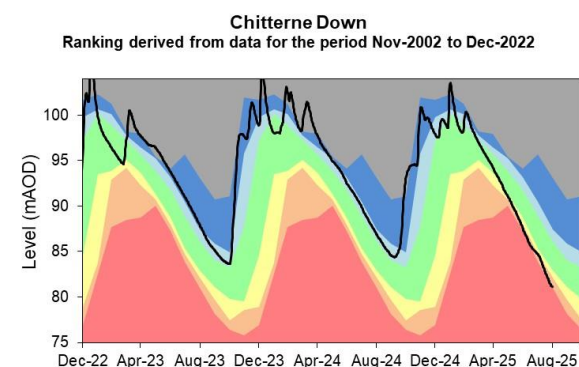
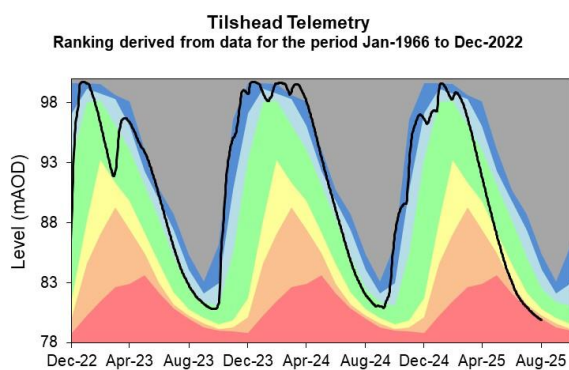
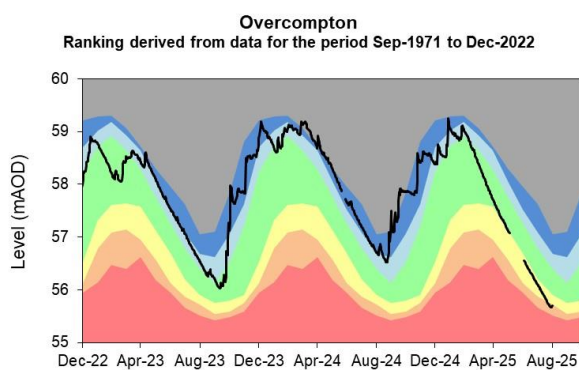
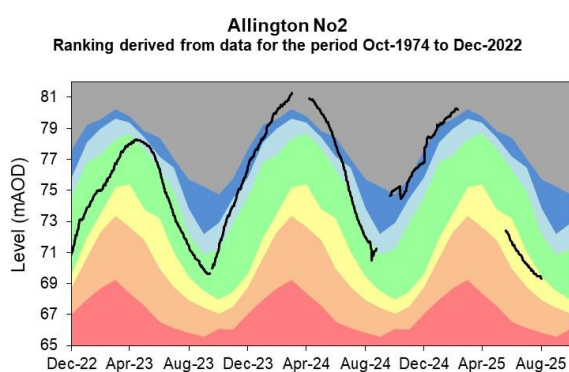
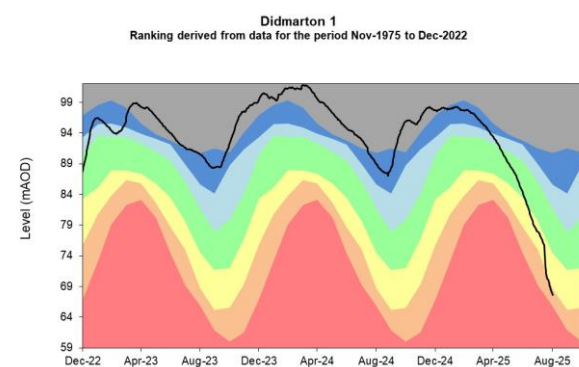
Figure 5.1: Groundwater levels for indicator sites at the end of August 2025, classed relative to an analysis of respective historic August levels. Table available in the appendices with detailed information.

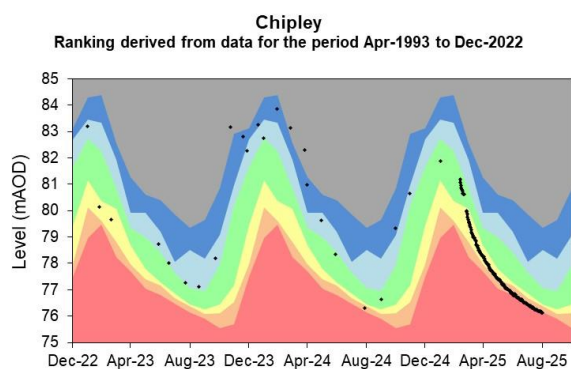
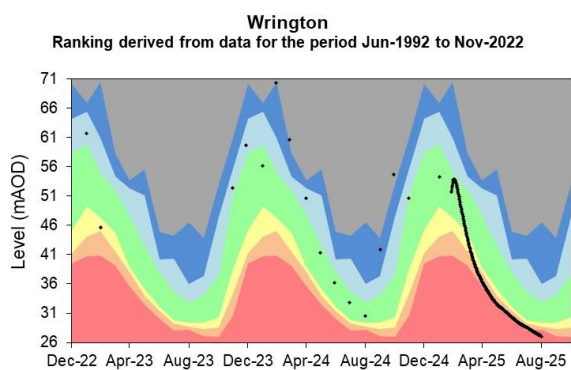
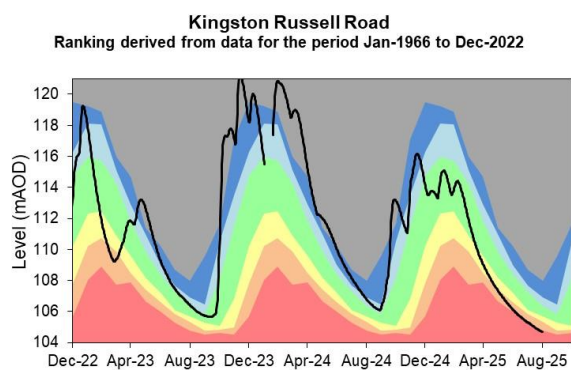
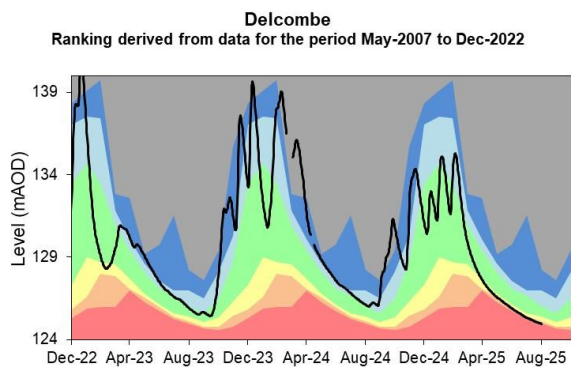
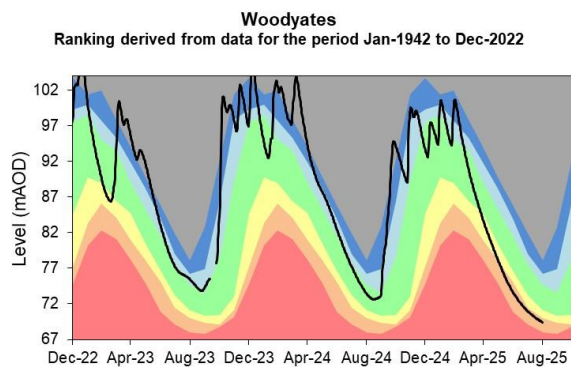


(Source: Environment Agency). Geological map reproduced with kind permission from UK Groundwater Forum, BGS copyright NERC. Crown copyright. All rights reserved. Environment Agency, 100024198, 2025.

5.2 Groundwater level charts

Figure 5.2: End of month groundwater levels at index groundwater level sites for major aquifers. 34 months compared to an analysis of historic end of month levels.

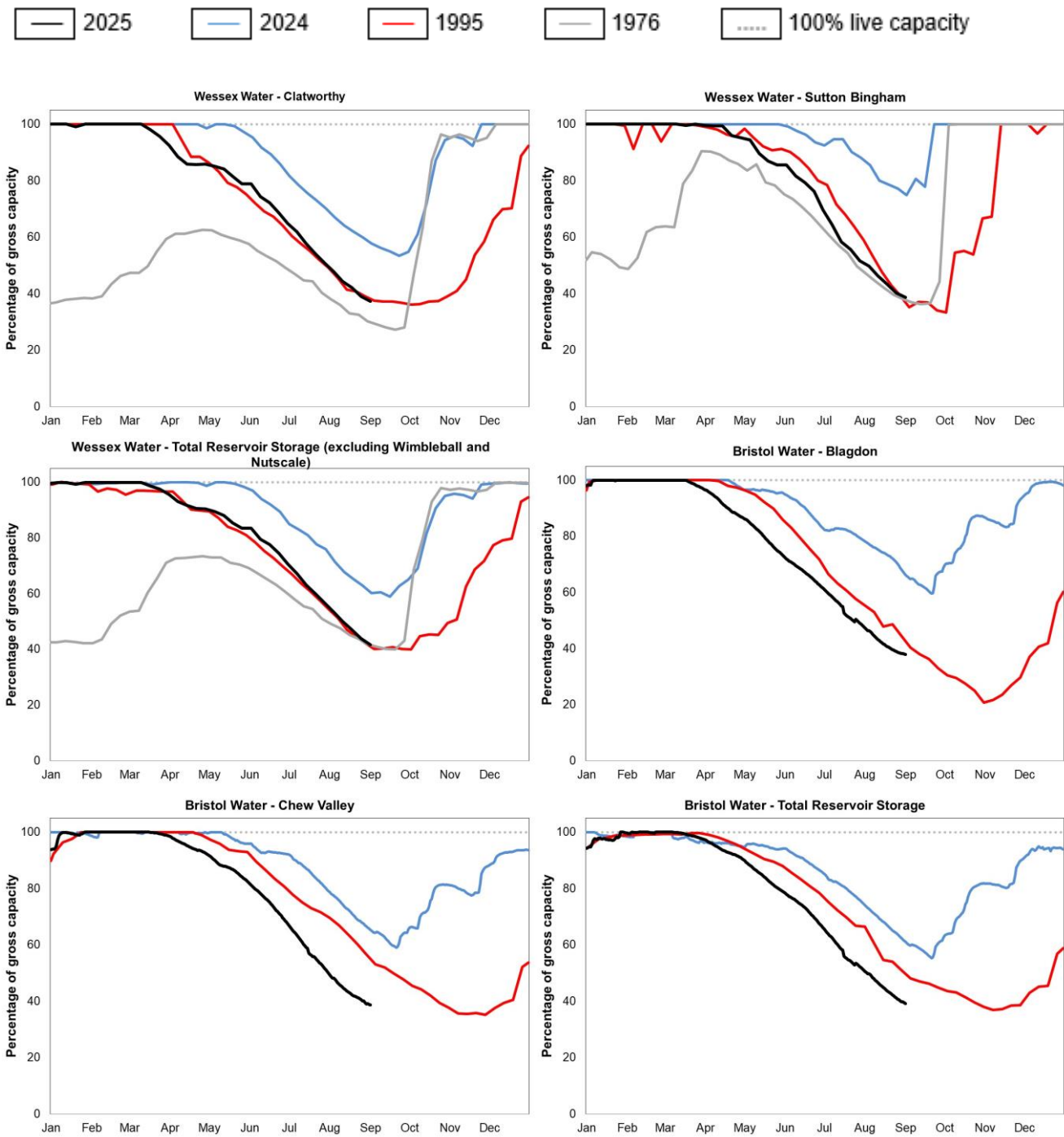




Source: Environment Agency, 2025.

6 Reservoir stocks

Figure 6.1: End of month regional reservoir stocks compared to the previous year, and if available, also a comparison to reservoir stocks in 1995 and 1976.



(Source: Wessex Water and Bristol Water).

7 Flood alerts and warnings

7.1 Flood alerts

Table 1: Fluvial, coastal and groundwater flood alerts issued during August

Area	Number of fluvial flood alerts in August	Number of coastal flood alerts in August	Number of groundwater flood alerts in August
North Wessex	0	0	0
South Wessex	0	0	0

7.2 Flood warnings

Table 2: Fluvial, coastal and groundwater flood warnings issued during August

Area	Number of fluvial flood warnings in August	Number of coastal flood warnings in August	Number of groundwater flood warnings in August
North Wessex	0	0	0
South Wessex	0	0	0

7.3 Severe flood warnings

Table 3: Fluvial, coastal and groundwater severe flood warnings issued during August

Area	Number of fluvial severe flood warnings in August	Number of coastal severe flood warnings in August	Number of groundwater severe flood warnings in August
North Wessex	0	0	0
South Wessex	0	0	0

8 Stream support

8.1 Sites providing stream support

Table 4: End of August status for stream support sites.

Catchment	River	Stream support site	Gauging station	End of August status
Bristol Avon	Chalfield Brook	South Wraxall	Great Chalfield (Wessex Water)	On
Bristol Avon	Chalfield Brook	Little Chalfield	Great Chalfield (Wessex Water)	On
Bristol Avon	Charlton Stream	Charlton	Crabb Mill	On
Bristol Avon	Gauze Brooke	Hullavington	Rodbourne	On
Bristol Avon	Horscombe Stream	Tucking Mill	No Gauge	Off
Bristol Avon	Luckington Brook	Luckington	Fossway	On
Bristol Avon	Rodbourne Brook	Lower Stanton St. Quinton	Startley	On
Bristol Avon	Semington Brook	Easterton	No Gauge	Off
Bristol Avon	Sherston Avon	Stanbridge	Fossway	On
Bristol Avon	Tetbury Avon	Tetbury	Brokenborough	On
Dorset Frome	South Winterbourne	Winterbourne Abbas	Winterbourne Steepleton	Off

Dorset Frome	Watergates Stream	Watergates	No Gauge	On
Piddle	Devil's Brook	Dewlish	Dewlish Woodsdown Cross	On
Piddle	Piddle	Alton Mill	South House & Little Puddle	On
Piddle	Piddle	Morningwell	South House & Little Puddle	On
Piddle	Piddle	Briantspuddle	Briantspuddle	On
Dorset Stour	Crichel Stream	Long Crichel	No Gauge	On
Dorset Stour	Gussage Stream	Gussage All Saints	Bowerswain	On
Dorset Stour	Allen	Wyke Down	All Hallows	On
Dorset Stour	Pimperne Stream	Pimperne	No Gauge	Off
Hampshire Avon	Bourne	Porton	Salisbury Bourne	On
Hampshire Avon	Chitterne Brook	Codford Road	Codford	On
Hampshire Avon	Wylfe	Brixton Deverill	Brixton Deverill & Heytesbury	On
Hampshire Avon	Wylfe	Kingston Deverill	Brixton Deverill & Heytesbury	On

9 Abstraction licences subject to restrict or cease

9.1 Abstraction licences subject to restrict or cease

Table 5: Number of licences at restrict or cease at the end of August.

Catchment	Number of licences at restrict at the end of August	Number of licences at cease at the end of August
Bristol Avon	0	2
Dorset	3	4
Hampshire Avon	4	6
Somerset	3	12

10 Glossary

10.1 Terminology

Aquifer

A geological formation able to store and transmit water.

Areal average rainfall

The estimated average depth of rainfall over a defined area. Expressed in depth of water (mm).

Artesian

The condition where the groundwater level is above ground surface but is prevented from rising to this level by an overlying continuous low permeability layer, such as clay.

Artesian borehole

Borehole where the level of groundwater is above the top of the borehole and groundwater flows out of the borehole when unsealed.

Cumecs

Cubic metres per second (m^3s^{-1}).

Effective rainfall

The rainfall available to percolate into the soil or produce river flow. Expressed in depth of water (mm).

Flood alert and flood warning

Three levels of warnings may be issued by the Environment Agency. Flood alerts indicate flooding is possible. Flood warnings indicate flooding is expected. Severe flood warnings indicate severe flooding.

Groundwater

The water found in an aquifer.

Long term average (LTA)

The arithmetic mean calculated from the historic record, usually based on the period 1991 to 2020. However, the period used may vary by parameter being reported on (see figure captions for details).

mAOD

Metres above ordnance datum (mean sea level at Newlyn Cornwall).

MORECS

Met Office Rainfall and Evaporation Calculation System. Met Office service providing real time calculation of evapotranspiration, soil moisture deficit and effective rainfall on a 40 by 40 km grid.

Naturalised flow

River flow with the impacts of artificial influences removed. Artificial influences may include abstractions, discharges, transfers, augmentation and impoundments.

NCIC

National Climate Information Centre. NCIC area monthly rainfall totals are derived using the Met Office 5 km gridded dataset, which uses rain gauge observations.

Recharge

The process of increasing the water stored in the saturated zone of an aquifer. Expressed in depth of water (mm).

Reservoir gross capacity

The total capacity of a reservoir.

Reservoir live capacity

The capacity of the reservoir that is normally usable for storage to meet established reservoir operating requirements. This excludes any capacity not available for use (for example, storage held back for emergency services, operating agreements or physical restrictions). May also be referred to as 'net' or 'deployable' capacity.

Soil moisture deficit (SMD)

The difference between the amount of water actually in the soil and the amount of water the soil can hold. Expressed in depth of water (mm).

10.2 Categories

Exceptionally high

Value likely to fall within this band 5% of the time.

Notably high

Value likely to fall within this band 8% of the time.

Above normal

Value likely to fall within this band 15% of the time.

Normal

Value likely to fall within this band 44% of the time.

Below normal

Value likely to fall within this band 15% of the time.

Notably low

Value likely to fall within this band 8% of the time.

Exceptionally low

Value likely to fall within this band 5% of the time.

10.3 Rainfall Areas Map

Figure 6.2 Rainfall catchments in Wessex.



Crown copyright. All rights reserved. Environment Agency, 100024198, 2024.

11 Appendices

11.1 Rainfall table

Hydrological area	Aug 2025 rainfall % of long term average 1991 to 2020	Aug 2025 band	Jun 2025 to August cumulative band	Mar 2025 to August cumulative band	Sep 2024 to August cumulative band
Axe	43	Notably Low	Notably low	Exceptionally low	Normal
Brue	46	Notably Low	Notably low	Exceptionally low	Normal
Little Avon	34	Notably Low	Notably low	Exceptionally low	Normal
Lower Bristol Avon And Bristol Frome	41	Notably Low	Notably low	Exceptionally low	Normal
Lower Dorset Stour And River Crane	73	Normal	Below normal	Exceptionally low	Normal
Lower Hampshire Avon	71	Normal	Below normal	Exceptionally low	Normal
Mendips And River Chew	45	Notably Low	Notably low	Exceptionally low	Normal
Middle And Upper Bristol Avon	42	Notably Low	Notably low	Exceptionally low	Normal

Middle Dorset Stour	70	Normal	Below normal	Exceptionally low	Normal
Middle Hampshire Avon	63	Below Normal	Below normal	Exceptionally low	Normal
Parrett	56	Below Normal	Notably low	Exceptionally low	Normal
Poole Harbour And Purbeck	80	Normal	Below normal	Exceptionally low	Normal
River Bourne	63	Below Normal	Below normal	Exceptionally low	Normal
River Frome	75	Normal	Below normal	Exceptionally low	Normal
River Piddle	71	Normal	Below normal	Exceptionally low	Normal
Tone	47	Notably Low	Notably low	Exceptionally low	Normal
Upper Dorset Stour	60	Below Normal	Below normal	Exceptionally low	Normal
Upper Hampshire Avon	56	Below Normal	Below normal	Exceptionally low	Normal
West Dorset Streams	75	Normal	Below normal	Exceptionally low	Normal

West Somerset Streams	39	Notably Low	Notably low	Exceptionally low	Normal
Wylfe And Nadder	54	Below Normal	Notably low	Exceptionally low	Normal
Yeo And Kenn	38	Notably Low	Notably low	Exceptionally low	Normal

11.2 River flows table

Site name	River	Catchment	Aug 2025 band	Jul 2025 band
Amesbury	Upper Hampshire Avon	Hampshire Avon	Notably low	Notably low
Ashford Mill	Isle	Parrett	Below normal	Below normal
Baggs Mill	Piddle	Piddle	Below normal	Below normal
Bathford	Bristol Avon	Bristol Avon	Below normal	Notably low
Beggearn Huish	Washford	Washford River	Notably low	Below normal
Bishops Hull	Tone	Tone	Notably low	Exceptionally low
Bridport East Bridge	Asker	Asker	Notably low	Below normal
Fenny Castle	Sheppey	Brue	Notably low	Notably low
East Mills Combined	Middle Hampshire Avon	Hampshire Avon	Notably low	Notably low
East Stoke Combined	Dorset Frome	Dorset Frome	Below normal	Notably low
Frenchay	Bristol Frome	Bristol Frome	Exceptionally low	Exceptionally low

Great Somerford	Bristol Avon	Bristol Avon	Notably low	Notably low
Hammoon	Middle Stour	Dorset Stour	Notably low	Notably low
Knapp Mill	Lower Hampshire Avon	Hampshire Avon	No data	No data
Lovington	Upper Brue	Brue	Notably low	Below normal
Pen Mill	Yeo	Parrett	Below normal	Notably low
South Newton	River Wylfe	Hampshire Avon	Exceptionally low	Notably low
Sydling St Nicholas	Sydling Water	Dorset Frome	Notably low	Below normal
Tellisford	Somerset Frome	Bristol Avon	Notably low	Exceptionally low
Throop	Lower Stour	Dorset Stour	Notably low	Exceptionally low

11.3 Groundwater table

Site name	Aquifer	End of Aug 2025 band	End of Jul 2025 band
Allington No2	Upper Bristol Avon Great Oolite	Below normal	Below normal
Chitterne Down	Upper Hampshire Avon Chalk	Notably low	Notably low
Delcombe	Dorset Frome And Piddle Chalk/upper Greensand	Notably low	Notably low
Didmarton 1	Upper Bristol Avon Inferior Oolite	Notably low	Below normal
Kingston Russell Road	Dorset Frome Chalk	Exceptionally low	Notably low
Overcompton	Somerset Yeo Bridport Sand	Notably low	Below normal
Tilshead	Upper Hampshire Avon Chalk	Exceptionally low	Notably low
Woodyates	Dorset Stour Chalk	Notably low	Notably low
Oakley Industrial Estate	Upper Hampshire Avon Chalk	Exceptionally low	Exceptionally low

Chipleigh	Somerset Tone Otter Sandstone	Exceptionally low	Exceptionally low
Wrington	North Somerset Carboniferous Limestone	Exceptionally low	Notably low