

Monthly water situation report: Wessex Area

1 Summary - December 2025

December was a second consecutive wet month with an average of 141mm of rain in Wessex, 139% of the long term average (LTA). Most rain in December fell towards the beginning and the middle of the month with little to none after 21 December. Soil moisture deficit (SMD), decreased through most of December but rose slightly at the end of the month due to the dry weather. Monthly mean flows recorded across Wessex in December were largely notably to exceptionally high except for in the Hampshire Avon catchment where flows were normal. Daily mean flows for most sites peaked earlier in the month and fell towards the end of December in response to the drier weather. Most groundwater sites on the Chalk aquifer reported normal levels at the end of the month. Groundwater levels in the rest of Wessex were largely normal or above normal. The two outliers were Kingston Russell Road (monitoring the Chalk) and Didmarton (monitoring the Inferior Oolite) which both recorded notably high levels. Overall reservoir levels for Wessex Water were close to 100% capacity at the end of December while for Bristol Water, levels were approximately 90% capacity.

1.1 Rainfall

An average of 141mm rain fell across Wessex in December (139% of the LTA). Most rain fell during two periods in the month, with 47% of the month's rain between 1 and 8 December and another 48% of the month's rain fell between 14 and 21 December. The highest relative rainfall was recorded in the Dorset Frome and West Dorset Streams which both received 169% of the LTA. The lowest relative rainfall was recorded in the West Somerset Streams which received 113% of the LTA. In December most hydrological areas in Wessex received above normal rainfall except for four hydrological areas to the south and west which received notably high rainfall and the West Somerset Streams and Mendips and Chew areas which received normal rainfall.

Over the past 3 months, most hydrological areas received above normal rainfall except for 4 which were notably high and 2 which were normal. Over the last 6 months, most areas of Wessex received normal rainfall except for a few areas to the north and south which received above normal rainfall. In the last 12 months all areas received normal rainfall.

1.2 Soil moisture

Soil moisture deficit (SMD) decreased through most of December but started to rise during the dry last week of the month. At the end of December SMD for Wessex was under 10mm for almost all of Wessex except the Bourne and Lower Hampshire Avon which were between 10-20mm. SMD at the end of December was within 5mm of the LTA for most hydrological areas

in Wessex except for the Lower Hampshire Avon and Wlye and Nadder areas where SMD is between 6-25mm greater than the LTA.

1.3 River flows

In December, most flow sites in Wessex recorded either notably or exceptionally high mean flows. Both the Dorset Frome at East Stoke Combined and Dorset Stour at Hammoon recorded the highest monthly mean flows for December on record. The main exceptions were flow sites in the Hampshire Avon catchment and the Bristol Avon at Bathford which recorded normal flows. The Hampshire Avon at Amesbury and the Wlye at South Newton were the only sites to record monthly mean flows below 100% of the LTA due to lower groundwater levels in the Salisbury Plain area. Daily mean flows for most sites peaked earlier in the month and fell towards the end of December in response to the drier weather.

1.4 Groundwater levels

At the end of December, the majority of groundwater monitoring sites on the Chalk aquifer recorded normal levels. The exception was Kingston Russell Road to the south west of the aquifer which recorded notably high levels. While within the normal banding, Tilshead remains notably lower than other sites monitoring the Chalk and was close to returning to below normal at the end of December. Sites monitoring other geologies reported between normal and above normal levels at the end of the month except for Didmarton (monitoring the Inferior Oolite) which recorded notably high levels. Groundwater levels across most sites were rising for most of December but levelled off or started to fall at the end of the month in response to the drier weather.

1.5 Reservoir stocks

Both Wessex Water and Bristol Water reservoir levels increased during December. The combined levels at the end of the month for Wessex Water were close to 100% capacity while for Bristol Water, combined levels were approximately 90% capacity. For Wessex Water levels are similar to this time last year while for Bristol Water they are slightly lower.

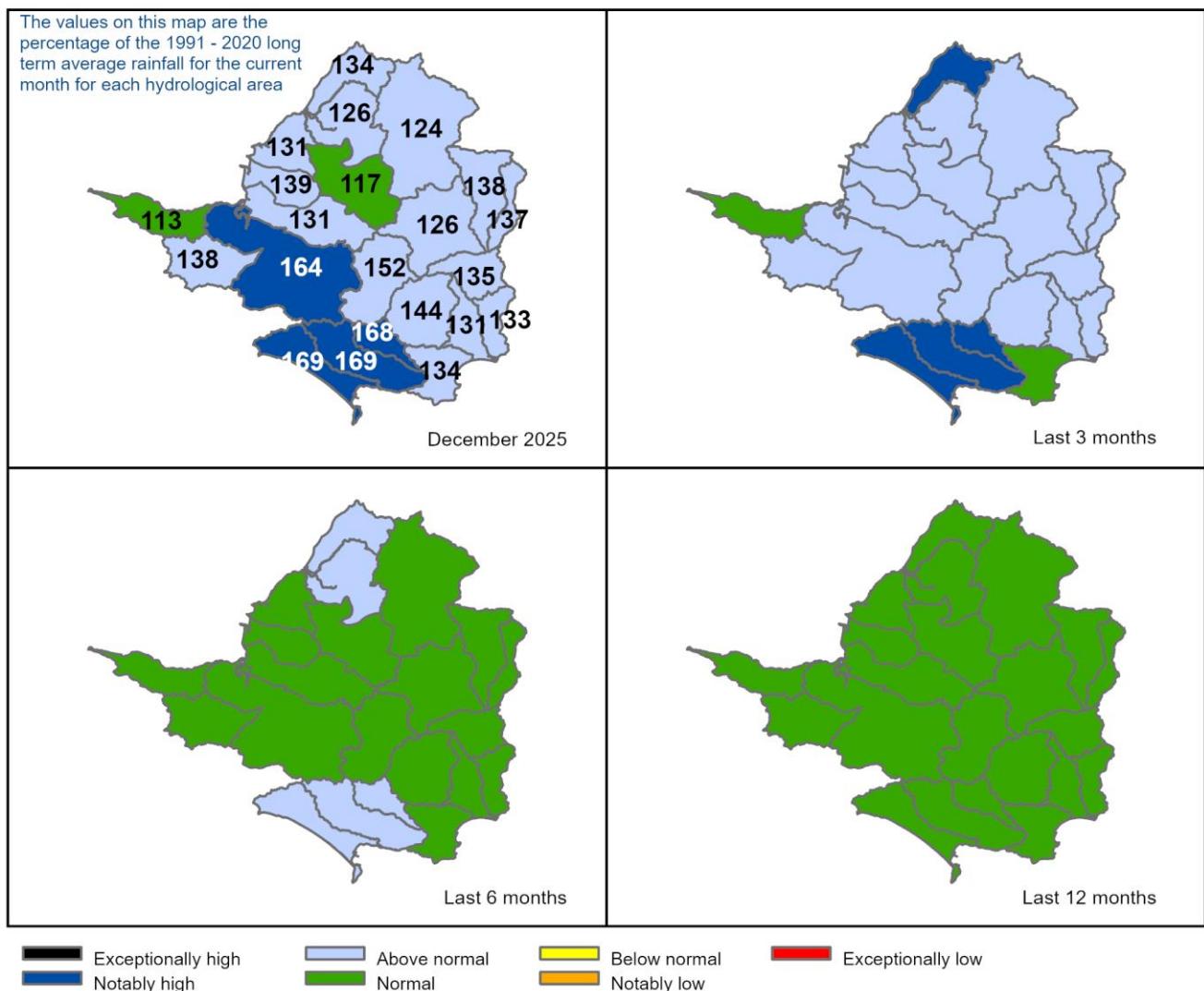
Author: Wessex Hydrology, hydrology.wessex@environment-agency.gov.uk

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2 Rainfall

2.1 Rainfall map

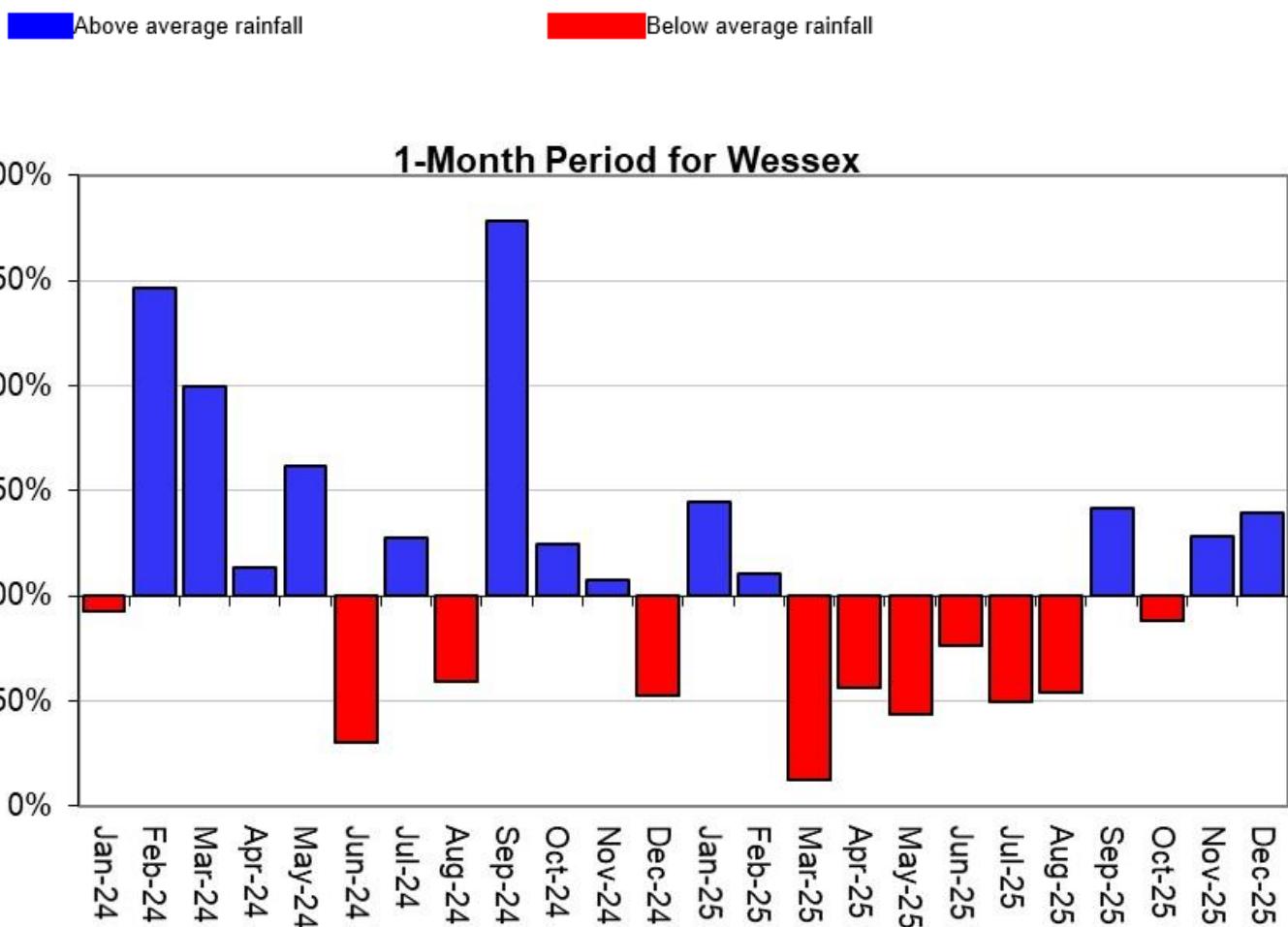
Figure 2.1: Total rainfall for hydrological areas for the current month (up to 31 December 2025), the last 3 months, the last 6 months, and the last 12 months, classed relative to an analysis of respective historic totals between 1991 and 2020. Table available in the appendices with detailed information.



Rainfall data for January 2025 onwards, extracted from Environment Agency 1km gridded rainfall dataset derived from Environment Agency intensity rain gauges. (Source: Environment Agency. Crown Copyright, AC0000807064, 2026). Rainfall data prior to January 2025, extracted from Met Office HadUK 1km gridded rainfall dataset derived from registered rain gauges (Source: Met Office. Crown copyright, 2026).

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.

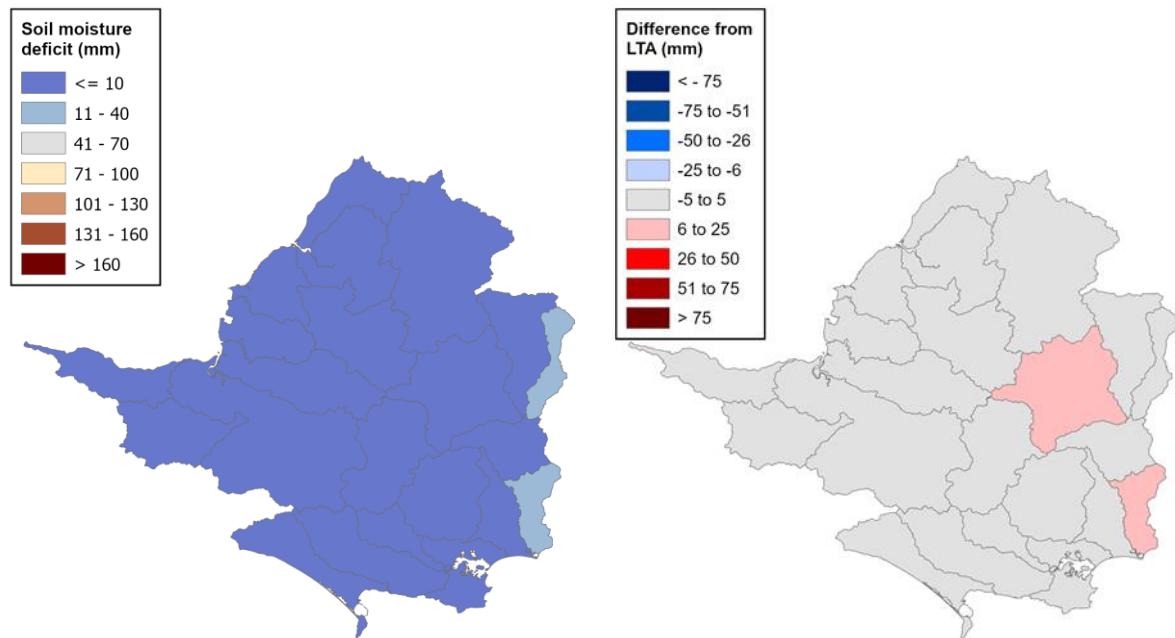


Rainfall data for January 2025 onwards, extracted from Environment Agency 1km gridded rainfall dataset derived from Environment Agency intensity rain gauges. (Source: Environment Agency. Crown Copyright, 100024198, 2026). Rainfall data prior to January 2025, extracted from Met Office HadUK 1km gridded rainfall dataset derived from registered rain gauges (Source: Met Office. Crown copyright, 2026).

3 Soil moisture deficit

3.1 Soil moisture deficit map

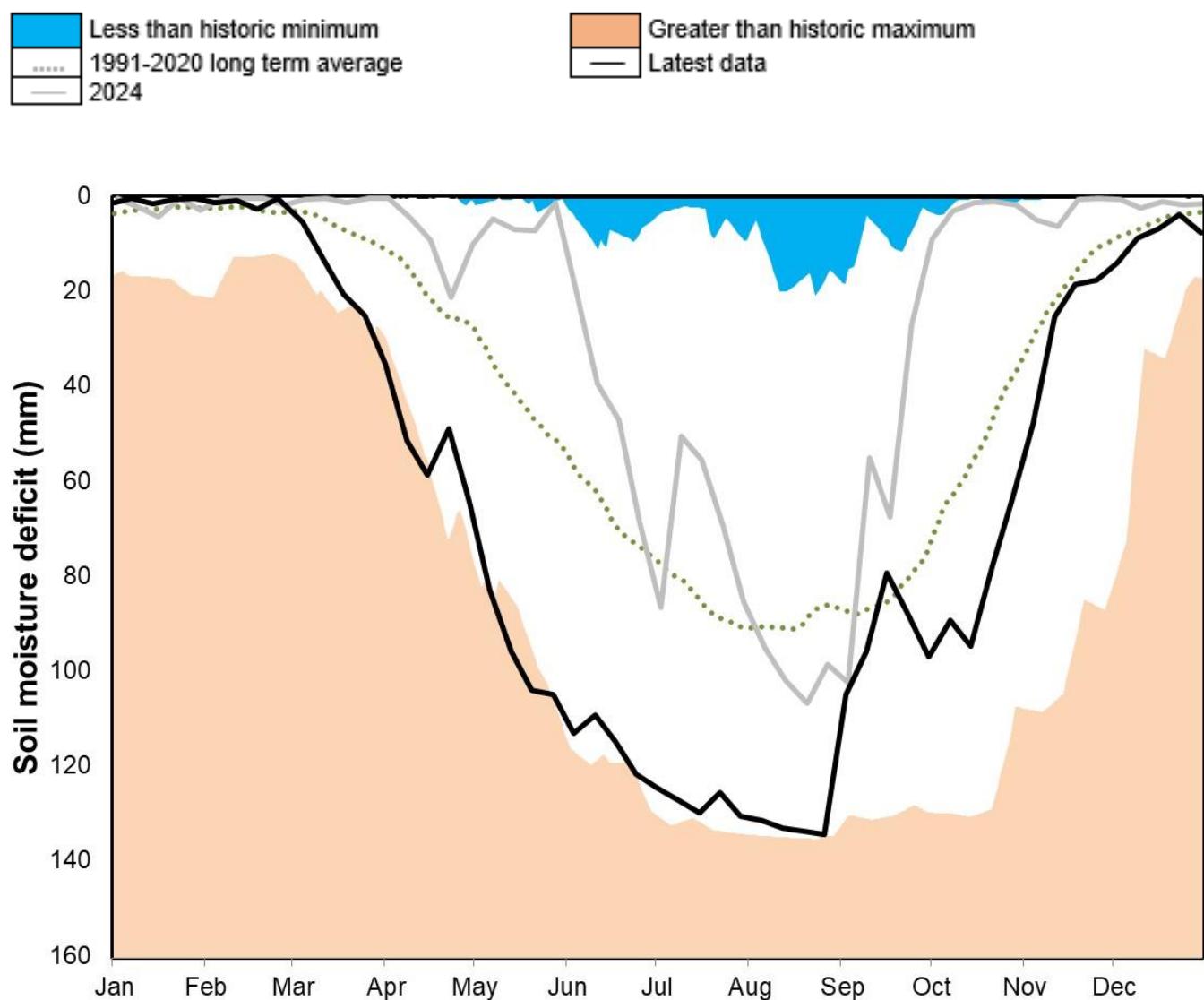
Figure 3.1: Soil moisture deficits for weeks ending 31 December 2025. Shows the difference (mm) of the actual soil moisture deficit from the 1991 to 2020 long term average soil moisture deficits. MORECS data for real land use.



(Source: Met Office. Crown copyright, 2026). All rights reserved. Environment Agency, AC0000807064, 2026.

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.

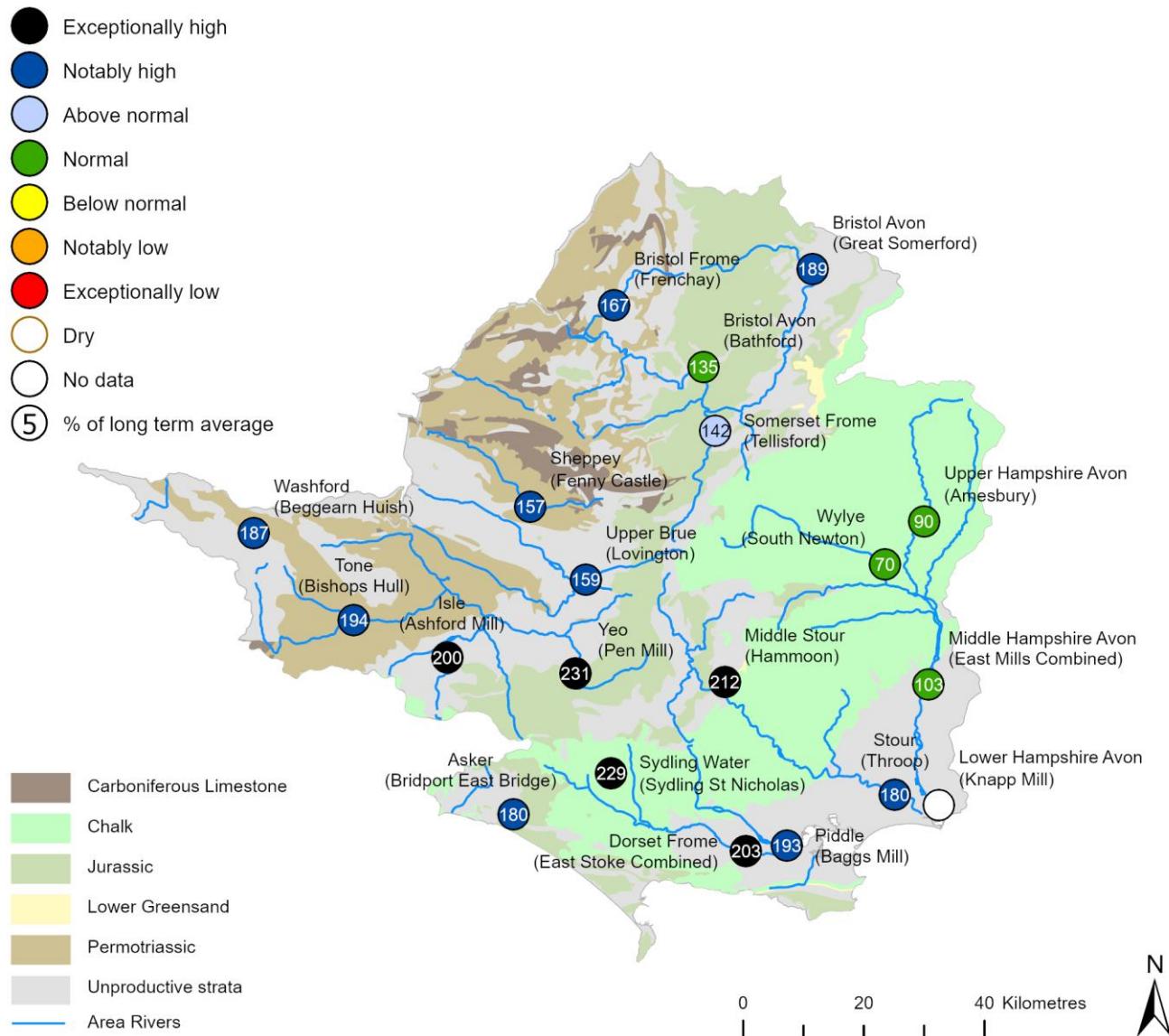


(Source: Met Office. Crown copyright, 2026). All rights reserved. Environment Agency, 100024198, 2026

4 River flows

4.1 River flows map

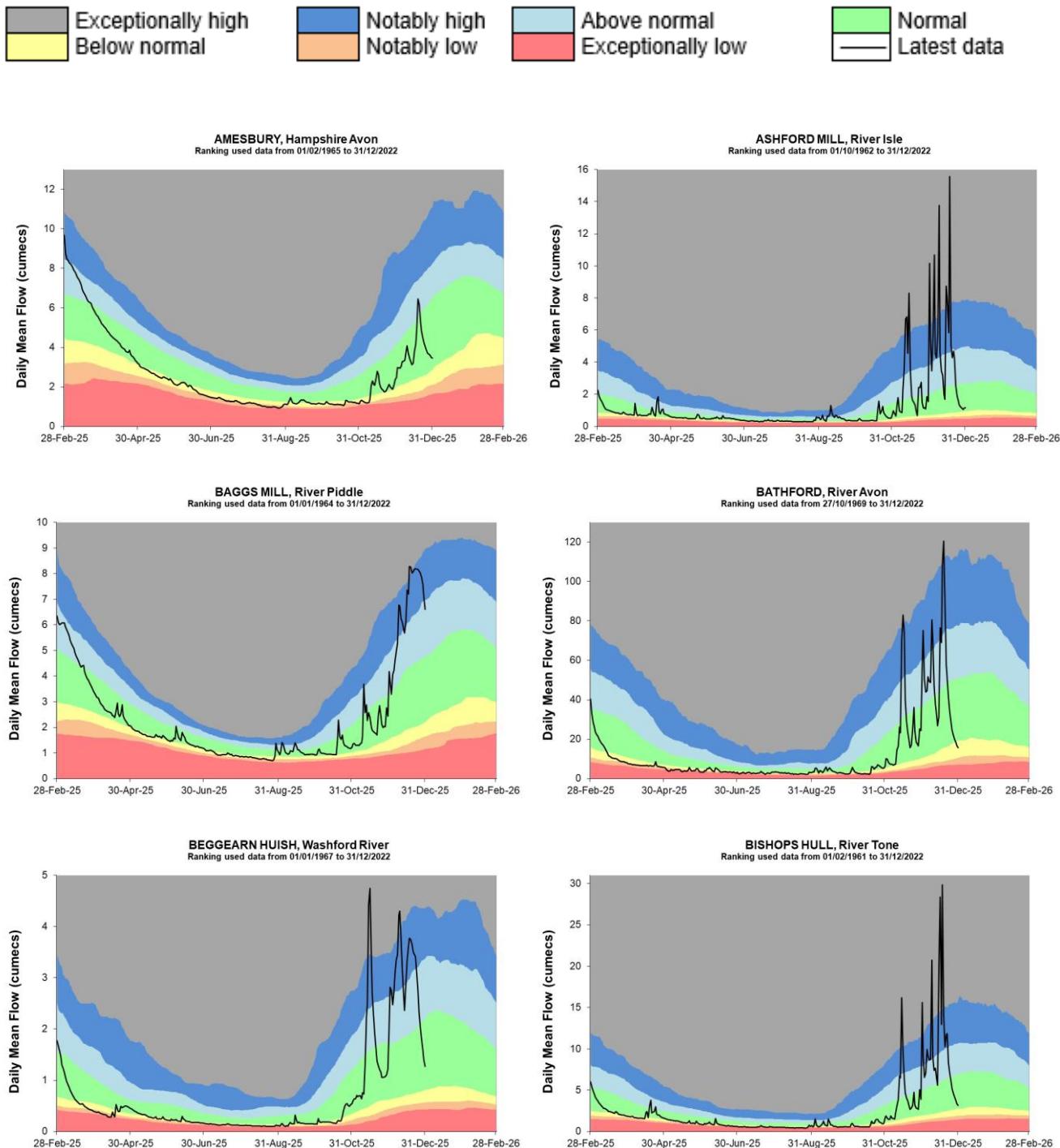
Figure 4.1: Monthly mean river flow for indicator sites for December 2025, expressed as a percentage of the respective long term average and classed relative to an analysis of historic December monthly means Table available in the appendices with detailed information.



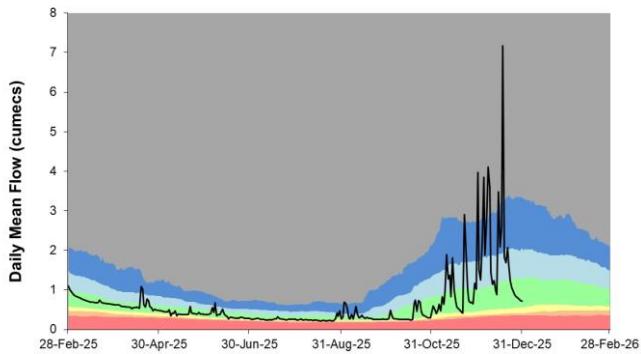
(Source: Environment Agency). Crown copyright. All rights reserved. Environment Agency, AC0000807064, 2026. Knapp Mill has been omitted due to data issues

4.2 River flow charts

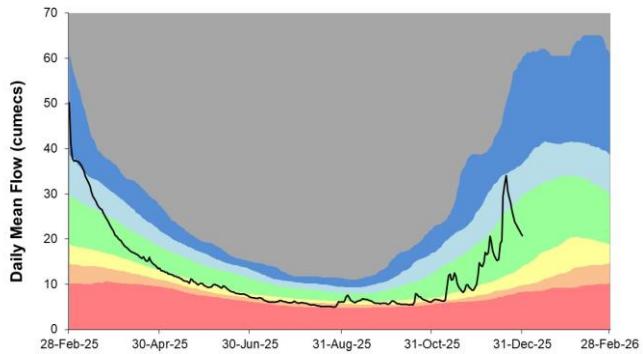
Figure 4.2: Daily mean river flow for index sites over the past year, compared to an analysis of historic daily mean flows.



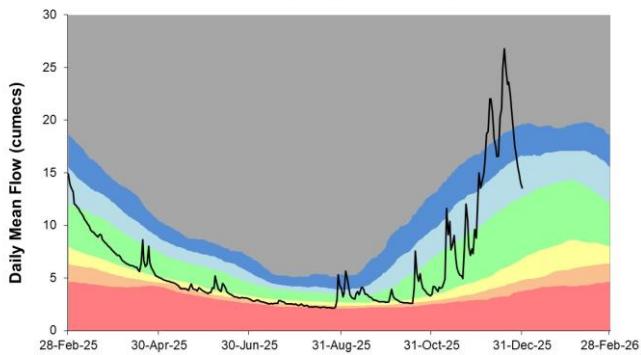
BRIDPORT EAST BRIDGE, River Asker
Ranking used data from 01/03/1996 to 31/12/2022



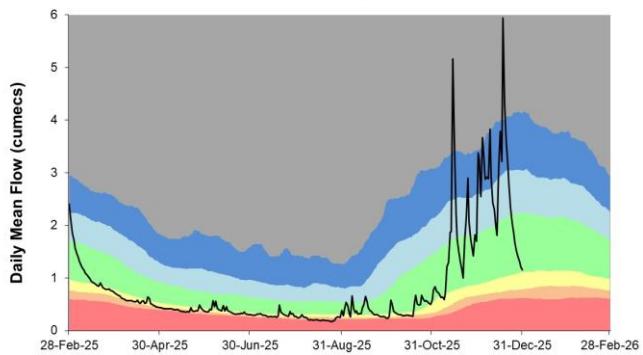
EAST MILLS COMBINED, Hampshire Avon
Ranking used data from 01/11/1965 to 31/12/2022



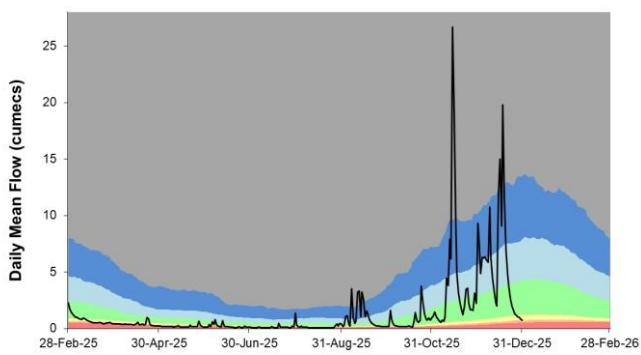
EAST STOKE COMBINED, Dorset Frome
Ranking used data from 01/10/1965 to 31/12/2022



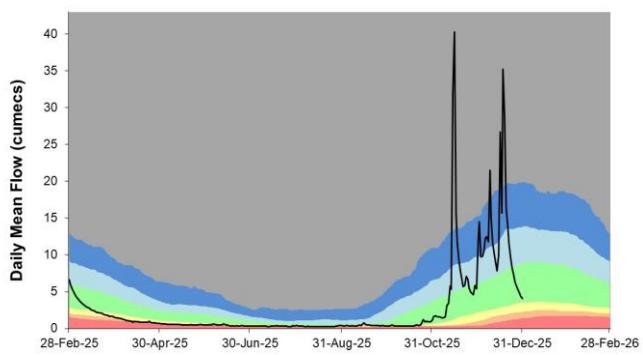
FENNY CASTLE, River Sheppey
Ranking used data from 01/01/1964 to 31/12/2022



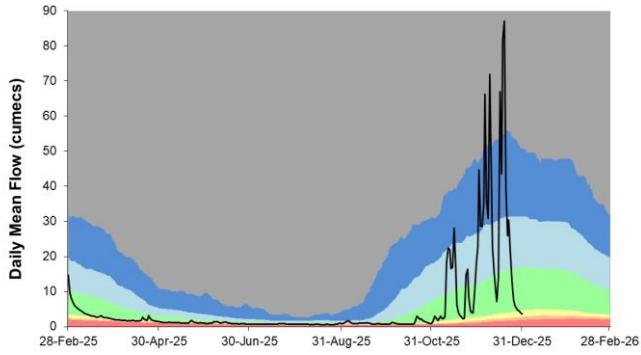
FRENCHAY, Bristol Frome
Ranking used data from 01/09/1961 to 31/12/2022



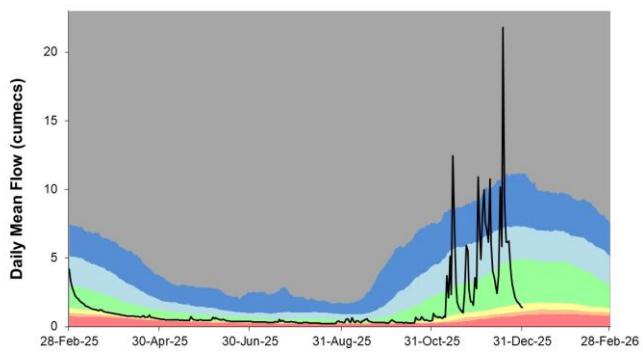
GREAT SOMERFORD, River Avon
Ranking used data from 16/12/1963 to 31/12/2022

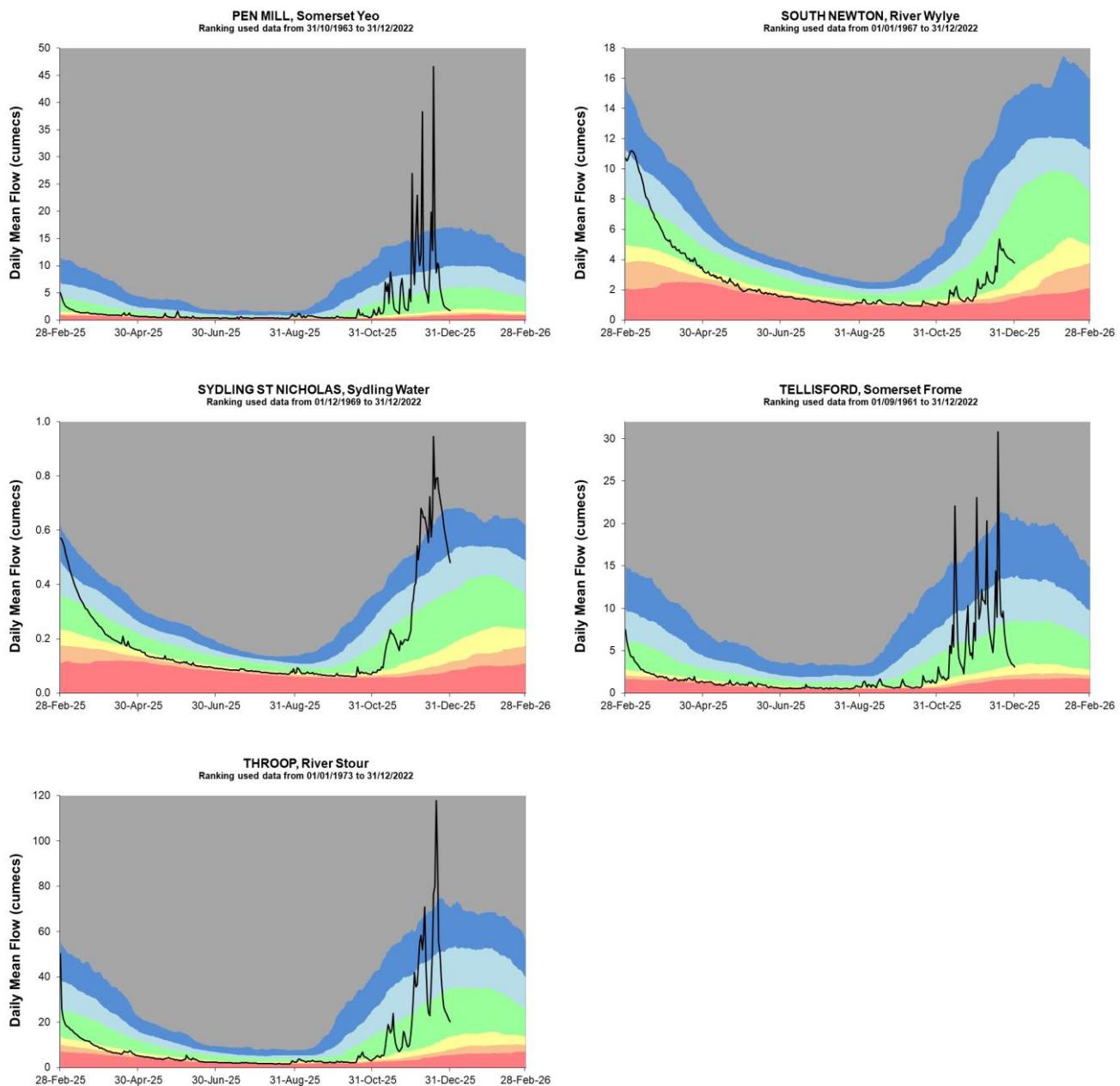


HAMMOON, River Stour
Ranking used data from 01/03/1968 to 31/12/2022



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





Source: Environment Agency, 2026. Knapp Mill has been omitted due to data issues.

5 Groundwater levels

5.1 Groundwater levels map

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

● Exceptionally high

● Notably high

● Above normal

● Normal

● Below normal

● Notably low

● Exceptionally low

○ No data

Carboniferous Limestone

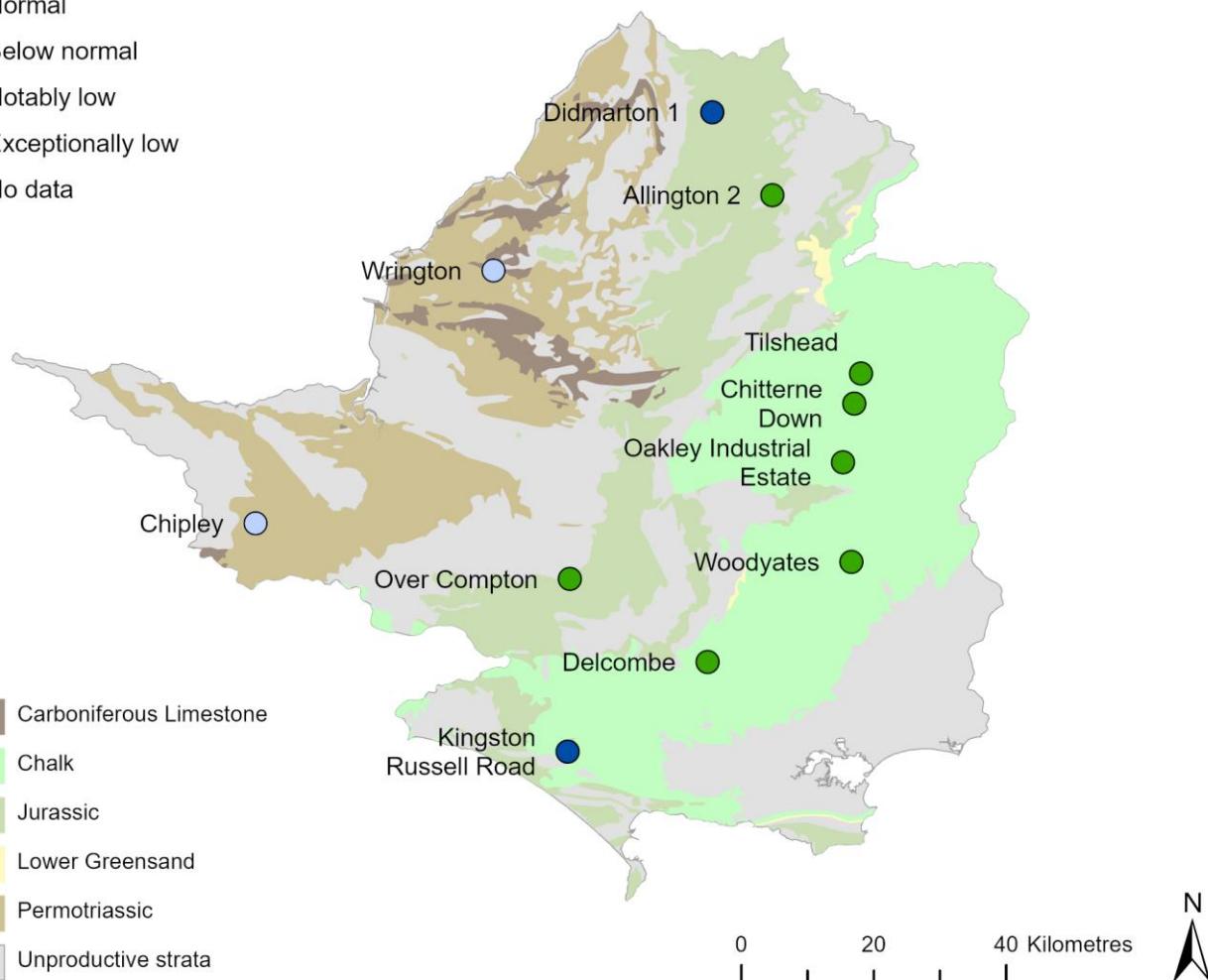
Chalk

Jurassic

Lower Greensand

Permottiassic

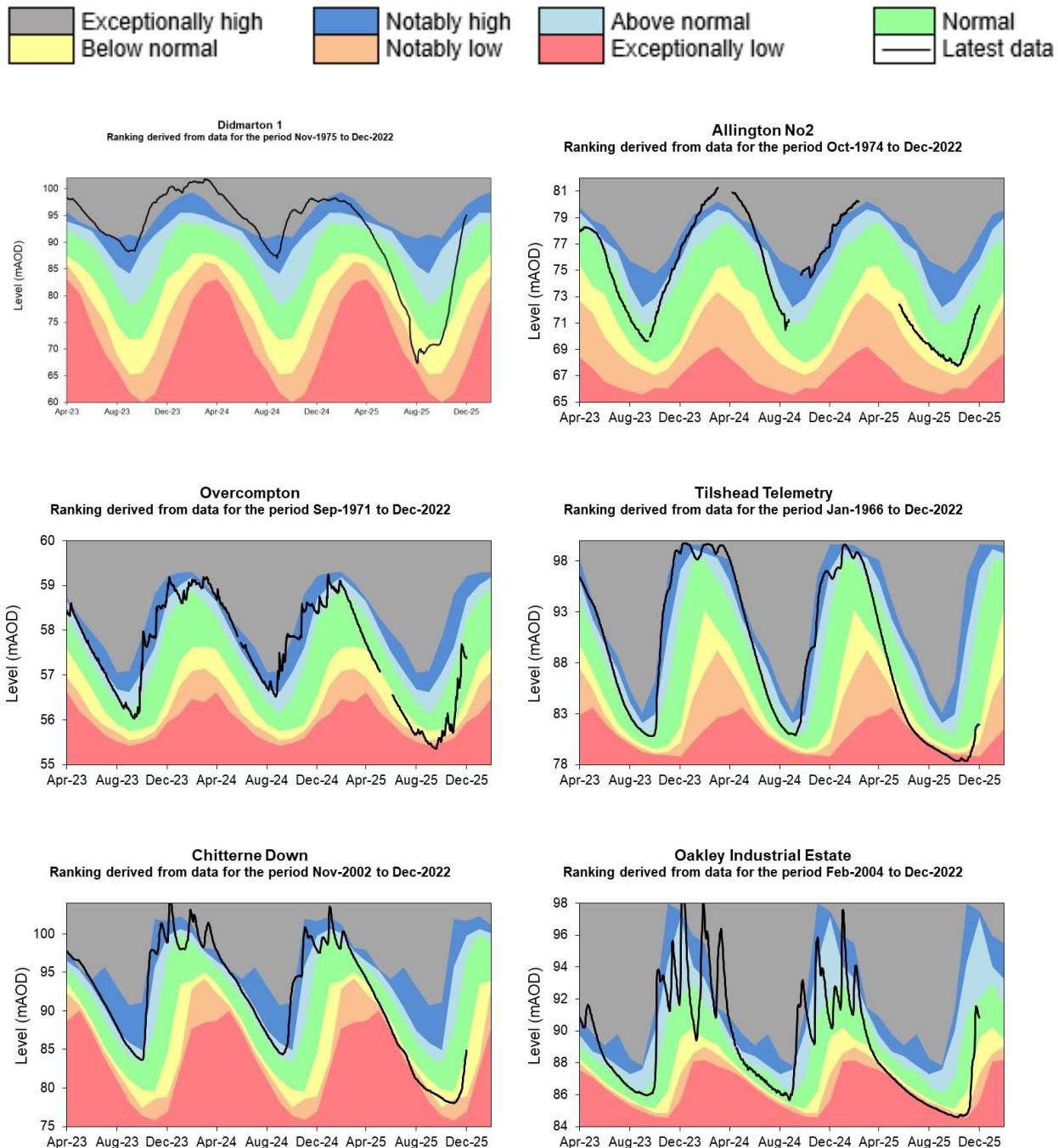
Unproductive strata

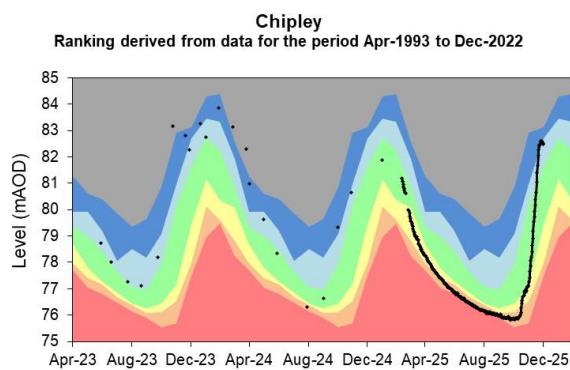
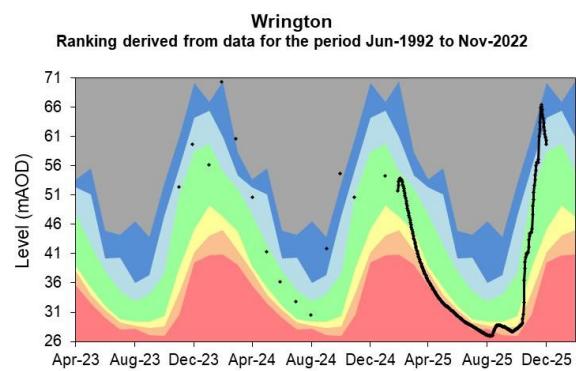
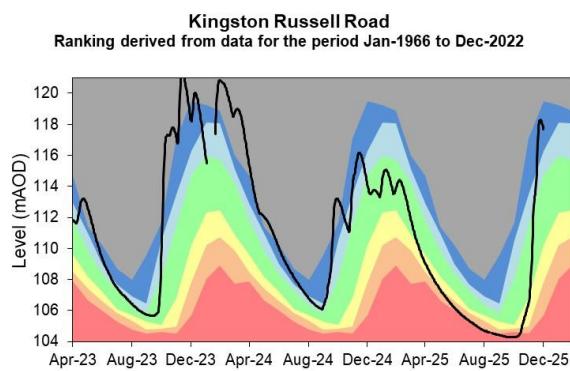
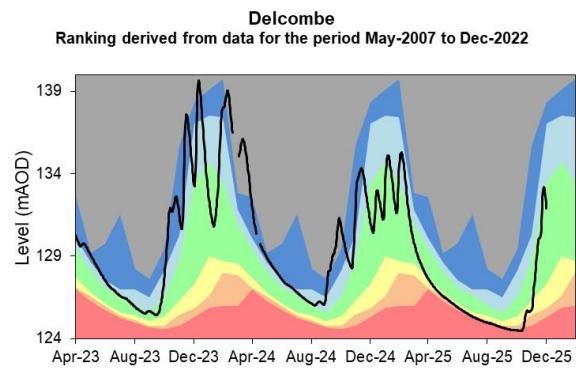
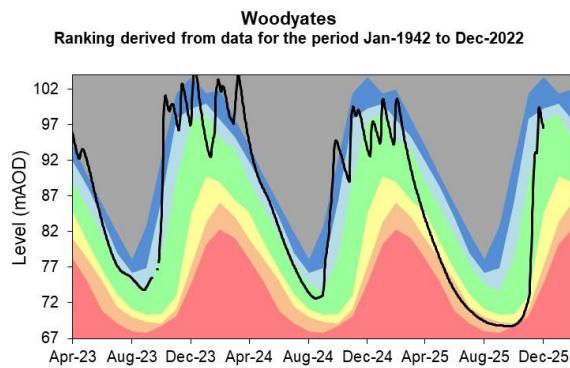


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5.2 Groundwater level charts

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.

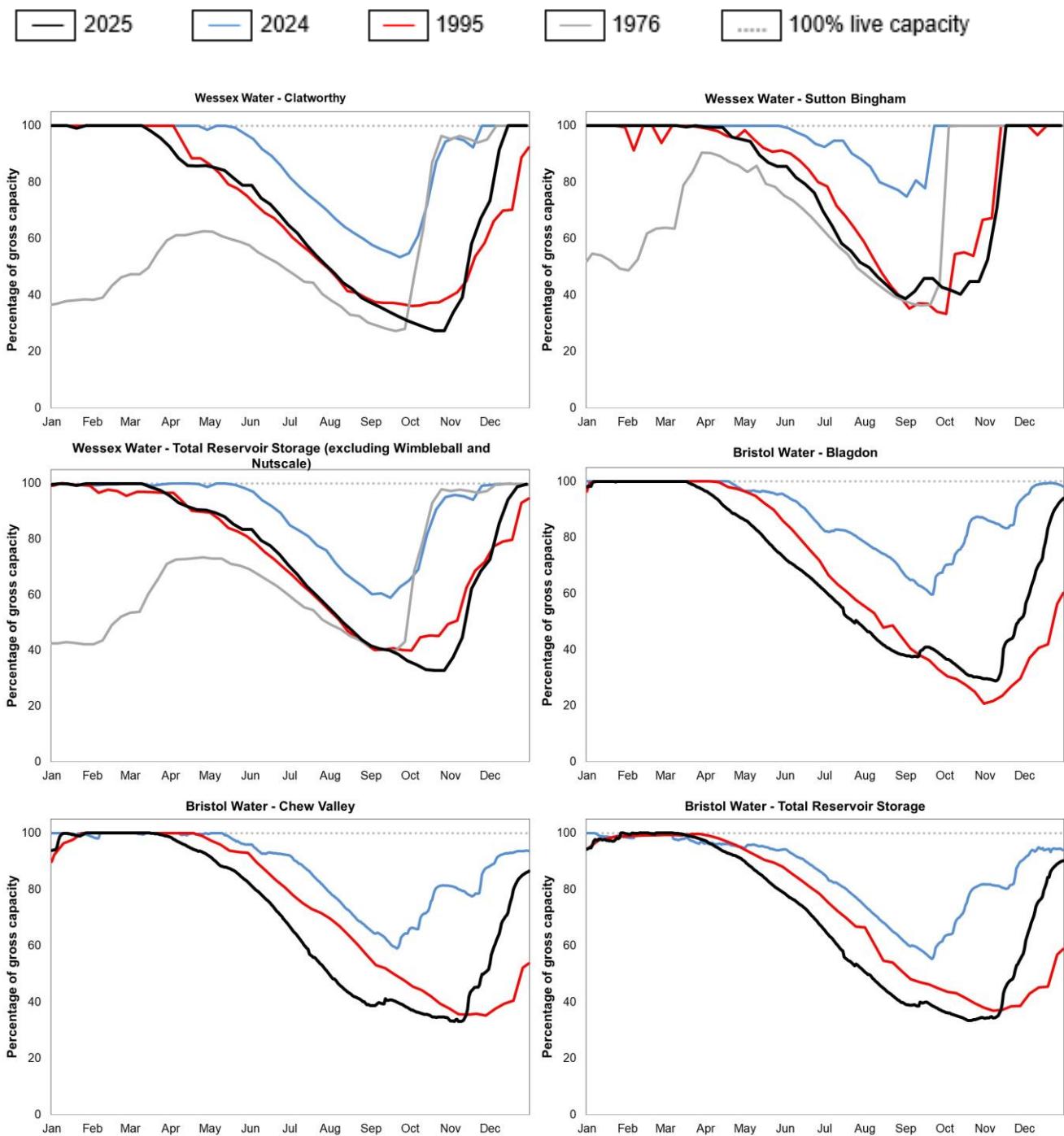




Source: Environment Agency, 2026.

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 December

| Area | Number of fluvial flood alerts in December | Number of coastal flood alerts in December | Number of groundwater flood alerts in December |
|--------------|--|--|--|
| North Wessex | 33 | 7 | 0 |
| South Wessex | 31 | 16 | 2 |

7.2 Flood warnings

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

| Area | Number of fluvial flood warnings in December | Number of coastal flood warnings in December | Number of groundwater flood warnings in December |
|--------------|--|--|--|
| North Wessex | 26 | 0 | 0 |
| South Wessex | 24 | 2 | 4 |

7.3 Severe flood warnings

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

| Area | Number of fluvial severe flood warnings in December | Number of coastal severe flood warnings in December | Number of groundwater severe flood warnings in December |
|--------------|---|---|---|
| North Wessex | 0 | 0 | 0 |
| South Wessex | 0 | 0 | 0 |

8 Stream support

8.1 Sites providing stream support

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

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

| Catchment | River | Stream support site | Gauging station | End of December status |
|----------------|-------------------|---------------------|-------------------------------|------------------------|
| Dorset Frome | Watergates Stream | Watergates | No Gauge | Off |
| Piddle | Devil's Brook | Dewlish | Dewlish Woodsdown Cross | Off |
| Piddle | Piddle | Alton Mill | South House & Little Puddle | Off |
| Piddle | Piddle | Morningwell | South House & Little Puddle | Off |
| Piddle | Piddle | Briantspuddle | Briantspuddle | Off |
| Dorset Stour | Crichel Stream | Long Crichel | No Gauge | Off |
| Dorset Stour | Gussage Stream | Gussage All Saints | Bowerswain | Off |
| Dorset Stour | Allen | Wyke Down | All Hallows | Off |
| 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 | Wylye | Brixton Deverill | Brixton Deverill & Heytesbury | Off |

| Catchment | River | Stream support site | Gauging station | End of December status |
|------------------|--------------|----------------------------|-------------------------------|-------------------------------|
| Hampshire Avon | Wlye | Kingston Deverill | Brixton Deverill & Heytesbury | Off |

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 December.

| Catchment | Number of licences at restrict at the end of December | Number of licences at cease at the end of December |
|----------------|---|--|
| Bristol Avon | 0 | 0 |
| Dorset | 0 | 0 |
| Hampshire Avon | 0 | 0 |
| Somerset | 0 | 0 |

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.

Cumeecs

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

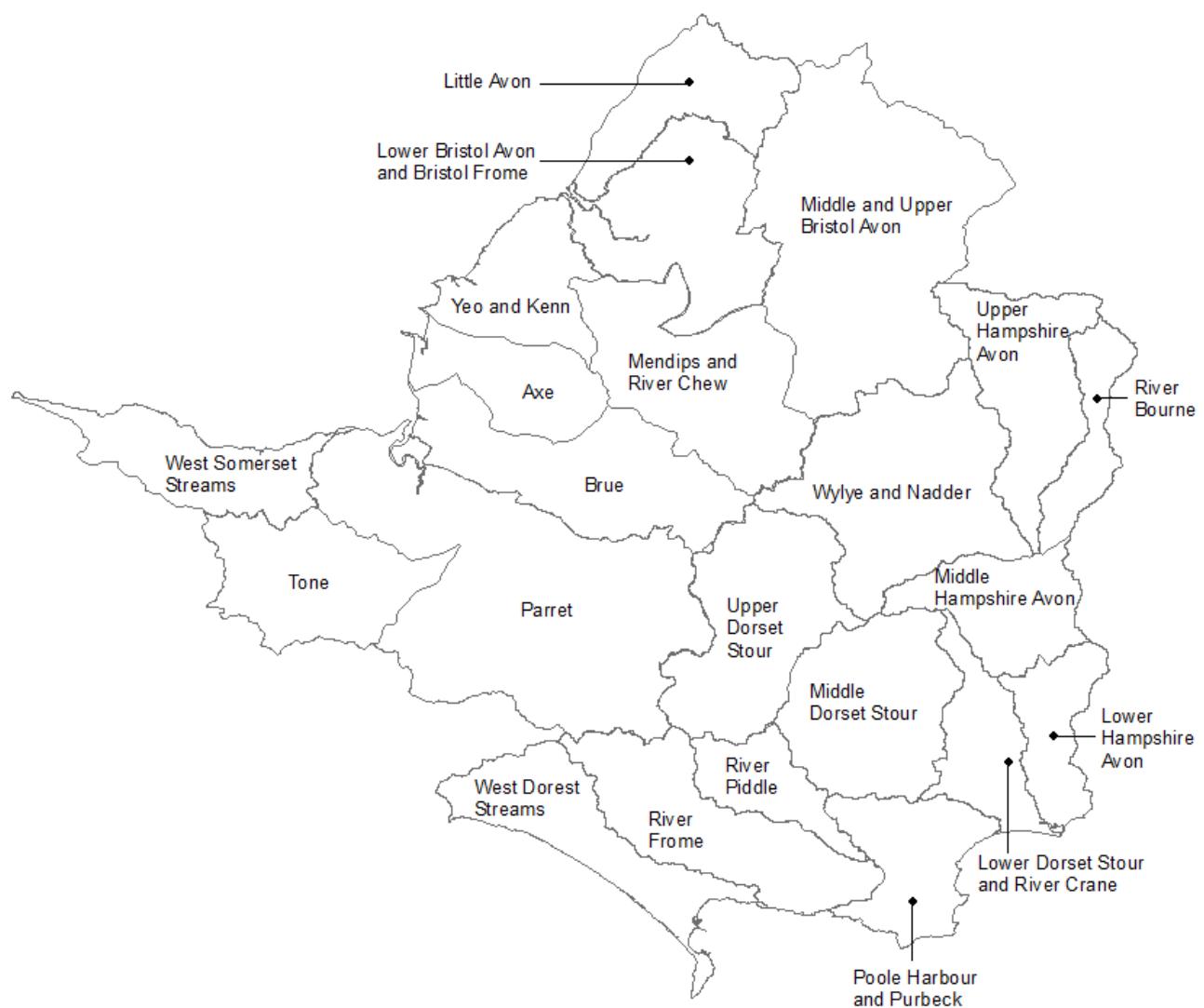
Value likely to fall within this band 8% of the time.

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.



11 Appendices

11.1 Rainfall table

| Hydrological area | Dec 2025 rainfall % of long term average 1991 to 2020 | Dec 2025 band | Oct 2025 to December cumulative band | Jul 2025 to December cumulative band | Jan 2025 to December cumulative band |
|--------------------------------------|---|---------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Axe | 139 | Above Normal | Above normal | Normal | Normal |
| Brue | 131 | Above Normal | Above normal | Normal | Normal |
| Little Avon | 134 | Above Normal | Notably high | Above normal | Normal |
| Lower Bristol Avon And Bristol Frome | 126 | Above Normal | Above normal | Above normal | Normal |
| Lower Dorset Stour And River Crane | 131 | Above Normal | Above normal | Normal | Normal |
| Lower Hampshire Avon | 133 | Above Normal | Above normal | Normal | Normal |
| Mendips And River Chew | 117 | Normal | Above normal | Normal | Normal |
| Middle And Upper Bristol Avon | 124 | Above Normal | Above normal | Normal | Normal |

| Hydrological area | Dec 2025 rainfall % of long term average 1991 to 2020 | Dec 2025 band | Oct 2025 to December cumulative band | Jul 2025 to December cumulative band | Jan 2025 to December cumulative band |
|---------------------------|---|---------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Middle Dorset Stour | 144 | Above Normal | Above normal | Normal | Normal |
| Middle Hampshire Avon | 135 | Above Normal | Above normal | Normal | Normal |
| Parrett | 164 | Notably High | Above normal | Normal | Normal |
| Poole Harbour And Purbeck | 134 | Above Normal | Normal | Normal | Normal |
| River Bourne | 137 | Above Normal | Above normal | Normal | Normal |
| River Frome | 169 | Notably High | Notably high | Above normal | Normal |
| River Piddle | 168 | Notably High | Notably high | Above normal | Normal |
| Tone | 138 | Above Normal | Above normal | Normal | Normal |
| Upper Dorset Stour | 152 | Above Normal | Above normal | Normal | Normal |
| Upper Hampshire Avon | 138 | Above Normal | Above normal | Normal | Normal |
| West Dorset Streams | 169 | Notably High | Notably high | Above normal | Normal |

| Hydrological area | Dec 2025 rainfall % of long term average 1991 to 2020 | Dec 2025 band | Oct 2025 to December cumulative band | Jul 2025 to December cumulative band | Jan 2025 to December cumulative band |
|-----------------------|---|---------------|--------------------------------------|--------------------------------------|--------------------------------------|
| West Somerset Streams | 113 | Normal | Normal | Normal | Normal |
| Wylde And Nadder | 126 | Above Normal | Above normal | Normal | Normal |
| Yeo And Kenn | 132 | Above Normal | Above normal | Normal | Normal |

11.2 River flows table

| Site name | River | Catchment | Dec 2025 band | Nov 2025 band |
|----------------------|-----------------------|----------------|--------------------|------------------|
| Amesbury | Upper Hampshire Avon | Hampshire Avon | Normal | Normal |
| Ashford Mill | Isle | Parrett | Exceptionally high | Above normal |
| Baggs Mill | Piddle | Piddle | Notably high | Normal |
| Bathford | Bristol Avon | Bristol Avon | Normal | Normal |
| Beggearn Huish | Washford | Washford River | Notably high | Normal |
| Bishops Hull | Tone | Tone | Notably high | Normal |
| Bridport East Bridge | Asker | Asker | Notably high | Normal |
| Fenny Castle | Sheppey | Brue | Notably high | Normal |
| East Mills Combined | Middle Hampshire Avon | Hampshire Avon | Normal | Below normal |
| East Stoke Combined | Dorset Frome | Dorset Frome | Exceptionally high | Normal |
| Frenchay | Bristol Frome | Bristol Frome | Notably high | Above normal |
| Great Somerford | Bristol Avon | Bristol Avon | Notably high | Above normal |

| Site name | River | Catchment | Dec 2025 band | Nov 2025 band |
|---------------------|----------------------|----------------|--------------------|------------------|
| Hammoon | Middle Stour | Dorset Stour | Exceptionally high | Normal |
| Knapp Mill | Lower Hampshire Avon | Hampshire Avon | Data unavailable | Data unavailable |
| Lovington | Upper Brue | Brue | Notably high | Normal |
| Pen Mill | Yeo | Parrett | Exceptionally high | Normal |
| South Newton | River Wylde | Hampshire Avon | Normal | Below normal |
| Sydling St Nicholas | Sydling Water | Dorset Frome | Exceptionally high | Normal |
| Tellisford | Somerset Frome | Bristol Avon | Above normal | Normal |
| Throop | Lower Stour | Dorset Stour | Notably high | Normal |

11.3 Groundwater table

| Site name | Aquifer | End of Dec 2025 band | End of Nov 2025 band |
|--------------------------|---|----------------------|----------------------|
| Allington No2 | Upper Bristol Avon Great Oolite | Normal | Normal |
| Chitterne Down | Upper Hampshire Avon Chalk | Normal | Notably low |
| Delcombe | Dorset Frome And Piddle Chalk/upper Greensand | Normal | Below normal |
| Didmarton 1 | Upper Bristol Avon Inferior Oolite | Notably high | Normal |
| Kingston Russell Road | Dorset Frome Chalk | Notably high | Below normal |
| Overcompton | Somerset Yeo Bridport Sand | Normal | Below normal |
| Tilshead | Upper Hampshire Avon Chalk | Normal | Exceptionally low |
| Woodyates | Dorset Stour Chalk | Normal | Below normal |
| Oakley Industrial Estate | Upper Hampshire Avon Chalk | Normal | Notably low |
| Chipley | Somerset Tone Otter Sandstone | Above normal | Below normal |

| Site name | Aquifer | End of Dec 2025 band | End of Nov 2025 band |
|------------------|--|-----------------------------|-----------------------------|
| Wrington | North Somerset Carboniferous Limestone | Above normal | Normal |