Monthly water situation report: England

1 Summary - April 2023

April was another wet month, with almost all catchments across England receiving above average rainfall. Soil moisture deficits remain low across England, with soils in many places wetter than would be expected for the time of year. River flows were normal or higher at almost all sites, although flows in many places decreased as they recovered from a wet March. Groundwater levels continued to increase at many sites, and almost all sites were classed as normal or higher for the time of year. Reservoir stocks at the end of April increased at almost half of the reservoirs and reservoir groups we report on, and three quarters of sites were classed as normal or higher for the time of year.

1.1 Rainfall

The April rainfall total for England was 63.9mm which represents 115% of the 1961 to 1990 long term average (LTA) for the time of year (114% of the 1991 to 2020 LTA). Except for fourteen catchments in the north west and north east, all catchments across England received above average rainfall during April. The wettest hydrological area was North Kent Chalk in south east England which received 186% of LTA rainfall during April. The driest hydrological area (relative to its LTA) was the Tweed catchment in north east England with 72% of LTA rainfall for the time of year. (Figure 2.1)

April rainfall totals were classed as above normal or higher for the time of year in two thirds of catchments across England, including Dover Chalk in the south east which received exceptionally high rainfall during April. The remaining third of catchments were normal for the time of year. At the regional scale, south east, south west and east England all received above normal rainfall during April. Central, north east and north west England were normal for the time of year. April rainfall across England as a whole was normal for the time of year. The 2 month cumulative rainfall totals for March and April for England was the wettest since 1998. (Figure 2.2).

The 3 month cumulative rainfall totals show that all catchments in England were classed as normal or higher, with a fifth notably high, mostly in the south east and east. The 6 month cumulative rainfall totals highlight how wet it has been with more than half of catchments being notably high or exceptionally high for the period. Twelve month cumulative rainfall totals were normal for more than half of catchments in England, although catchments in the south were generally above normal or higher, and in the far north some catchments were below normal. (Figure 2.3)

1.2 Soil moisture deficit

Soil moisture deficits (SMD) remain low across England at the end of April following another month of above average rainfall across most of the country. Soils remain fully wetted across

much of southern and western England. In east and north east England soil moisture deficits have grown slightly in those areas which saw lower rainfall totals during April. (Figure 3.1)

April SMD values across the country remain lower than average for the time of year, meaning soils are wetter than would be expected. At a regional scale, the end of April SMDs are smaller than average for the time of year. (Figure 3.2)

1.3 River flows

April monthly mean river flows increased at a third of indicator sites we report on, while the majority saw a decrease in monthly mean flows as rivers recovered from the very wet conditions during March. Despite these decreases, more than half of sites were above normal or higher for the time of year as flows remained higher than would be expected. A third of sites were normal for the time of year, while the River Burn at Burnham remained below normal. (Figure 4.1)

Monthly mean river flows declined at all regional index sites during April, except the Great Stour at Horton in south east England which saw an increase in flows and ended April with notably high monthly mean river flows. Thorverton on the River Exe in the south west also saw notably high monthly mean river flows, while the Bedford Ouse in the east and naturalised flows on the River Thames in the south east were both above normal for the time of year. The River Dove in central England, South Tyne in the north east and River Lune in the north west were all normal for the time of year. (Figure 4.2)

1.4 Groundwater levels

At the end of April, groundwater levels increased at three quarters of reported indicator sites as fully wetted soils and above average rainfall in much of the country allowed late spring recharge to continue in many aquifers. Almost all end of month groundwater levels were classed as normal or higher for the time of year. Three sites were below normal for the time of year. (Figure 5.1)

The major aquifer index sites reflected a varied picture at the end of April, ranging from below normal to exceptionally high levels. Normal groundwater levels for the time of year were reported at Dalton Estate Well in the Hull and East Riding Chalk, at Redlands Hall in the Cam and Ely Ouse Chalk, at Skirwith in the Carlisle Basin and Eden Valley Sandstone, and at Jackaments Bottom in the Burford Jurassic Limestone. Despite groundwater levels increasing steadily, Stonor Park in the South West Chilterns Chalk remained at below normal levels for the time of year at the end of April. Little Bucket in the East Kent Stour Chalk and Weir Farm in the Bridgnorth Sandstone were both above normal for the time of year. Chilgrove in the Chichester Chalk was exceptionally high at the end of April after groundwater levels increased rapidly from normal levels the previous month. (Figure 5.2)

1.5 Reservoir storage

Reservoir stocks at the end of April had increased at almost half of the reservoirs and reservoir groups we report on. A fifth had seen no change in stocks since March (as these

were already full), and the remaining reservoirs and reservoir groups had seen a decrease in stocks. The largest stock increase was at Abberton Reservoir in east England which saw a 9% change. In contrast, Haweswater and Thirlmere in north west England saw a decrease of 8% in reservoir stocks. A quarter of reservoirs or reservoir groups were classed as below normal or notably low at the end of April. All other reservoirs or reservoir groups were classed as normal or higher for the time of year. (Figure 6.1)

At a regional scale, total reservoir stocks ranged from 84% in south west England to 97% in south east England. Total reservoir stocks for England were 93% of total capacity at the end of April with little change since the end of March. (Figure 6.2)

1.6 Forward look

May continued as April had ended with unsettled, wet conditions in many places, interspersed with sunny and warm periods. Moving towards the middle of the month more settled conditions are expected across much of the country, although showers are still expected. Wetter, unsettled conditions are expected in the north, while the south is likely to see brighter, dry weather with a risk of showers. Towards the end of May confidence in forecasts is low but unsettled, changeable conditions are expected to interrupt periods of dry and bright weather.

For the 3 month period for the UK from May to July there is an increased chance of warmer than normal and wetter than normal conditions. However, near average temperatures and rainfall remain the most likely outcomes. There is a higher than normal chance of heatwaves occurring, and there are likely to be notable differences in rainfall distribution due to the showery nature of summer rainfall.

1.7 Projections for river flows at key sites

By the end of September 2023, river flows have a greater likelihood of being above normal or high in south east, south west and central England, while other regions are most likely to see river flows in their expected normal range. By the end of March 2024 river flows in the south east, south west and east of England have a greater likelihood of being above normal or higher. In north west and central England there is a slightly higher chance of river flows being below normal or lower.

For scenario based projections of cumulative river flows at key sites by September 2023 see Figure 7.1.

For scenario based projections of cumulative river flows at key sites by March 2024 see Figure 7.2.

For probabilistic ensemble projections of cumulative river flows at key sites by September 2023 see Figure 7.3.

For probabilistic ensemble projections of cumulative river flows at key sites by March 2024 see Figure 7.4

1.8 Projections for groundwater levels in key aquifers

By the end of September 2023 groundwater levels in south west, east and central England have a greater likelihood of being above normal of higher. Groundwater levels in the north east have a slightly higher chance of being below normal or lower. By the end of March 2024 groundwater levels have a greater likelihood of being above normal or higher in south east, east and central England. In south west and north west England groundwater levels are most likely to be in their expected range. In north east England there is a slightly higher chance of groundwater levels being below normal or lower.

For scenario based projections of groundwater levels in key aquifers in September 2023 see Figure 7.5.

For scenario based projections of groundwater levels in key aquifers in March 2024 see Figure 7.6.

For probabilistic ensemble projections of groundwater levels in key aquifers in September 2023 see Figure 7.7.

For probabilistic ensemble projections of groundwater levels in key aquifers in March 2024 see Figure 7.8.

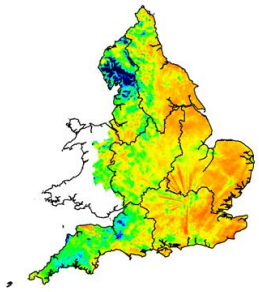
Author: National Water Resources Hydrology Team, Nationalhydrology@environment-agency.gov.uk

2 Rainfall

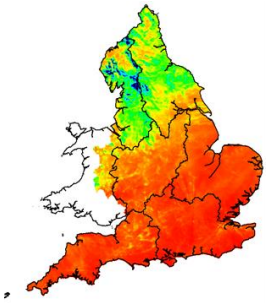
2.1 Rainfall map

Figure 2.1: Monthly rainfall across England and Wales for the past 11 months. UKPP radar data Note: Radar beam blockages in some regions may give anomalous totals in some areas.

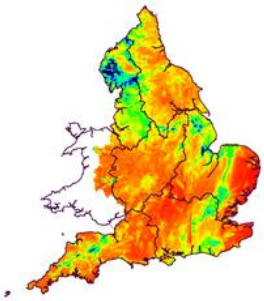
June 2022



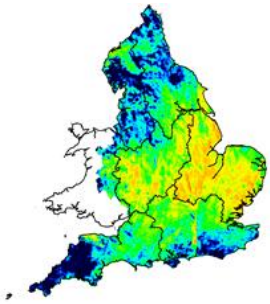
July 2022



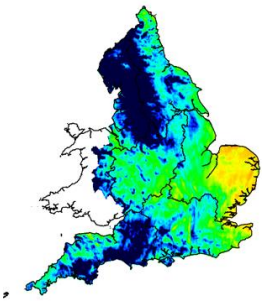
August 2022



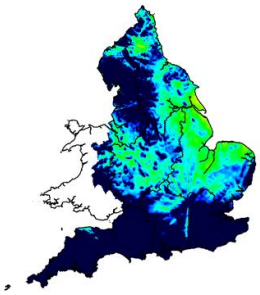
September 2022



October 2022



November 2022



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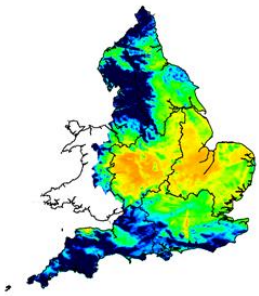
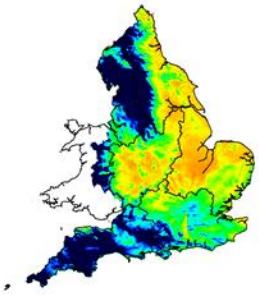
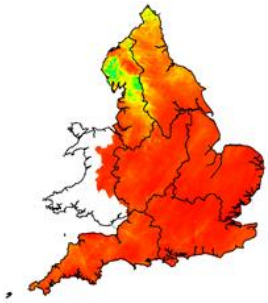


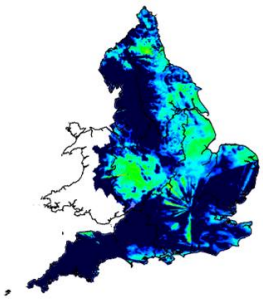
January 2023



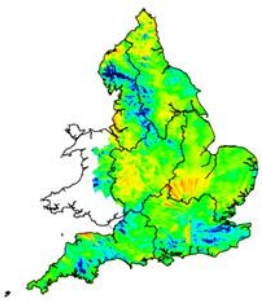
February 2023



March 2023



April 2023



Map Legend

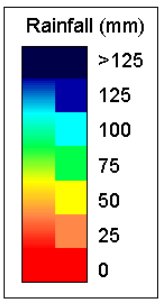
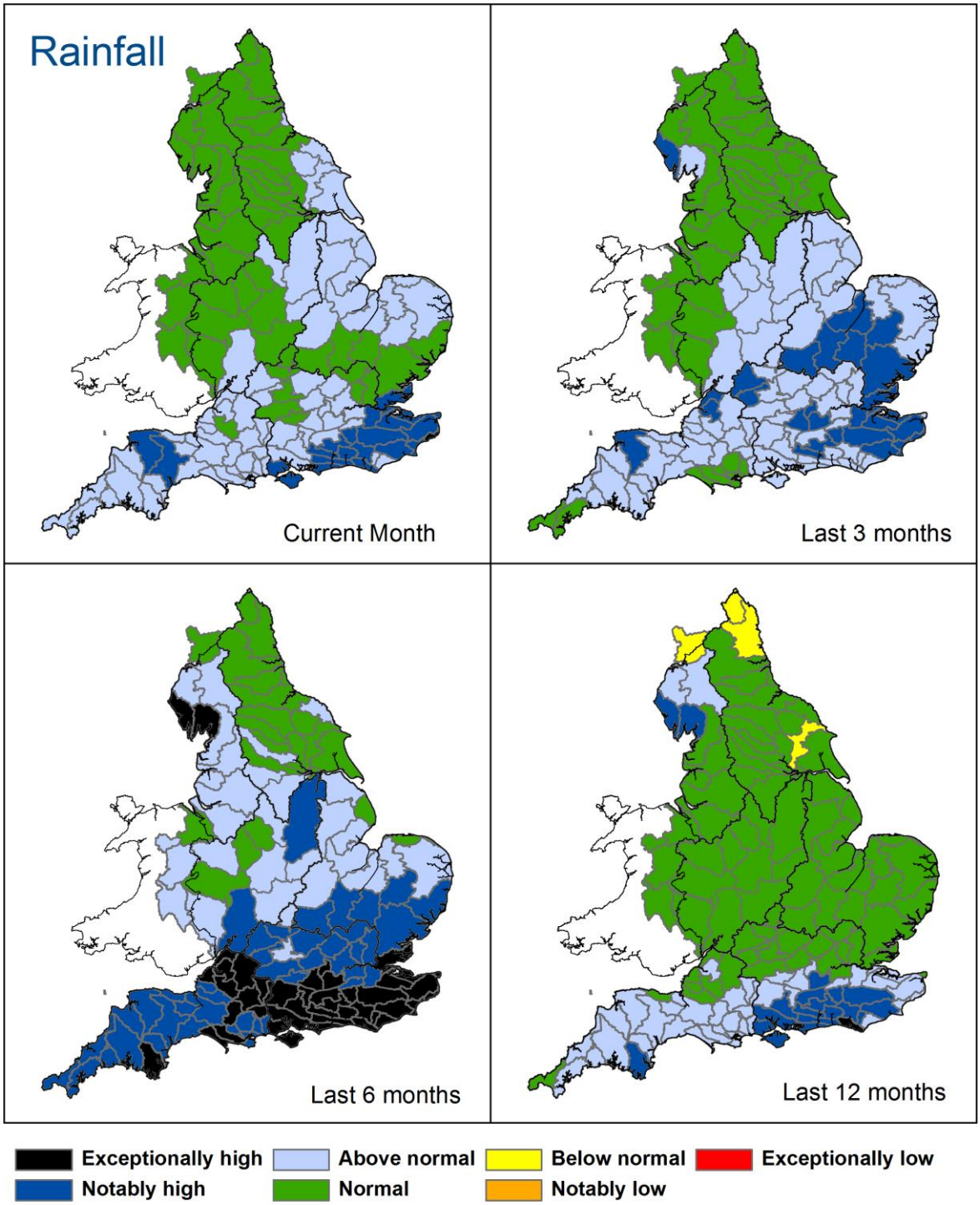


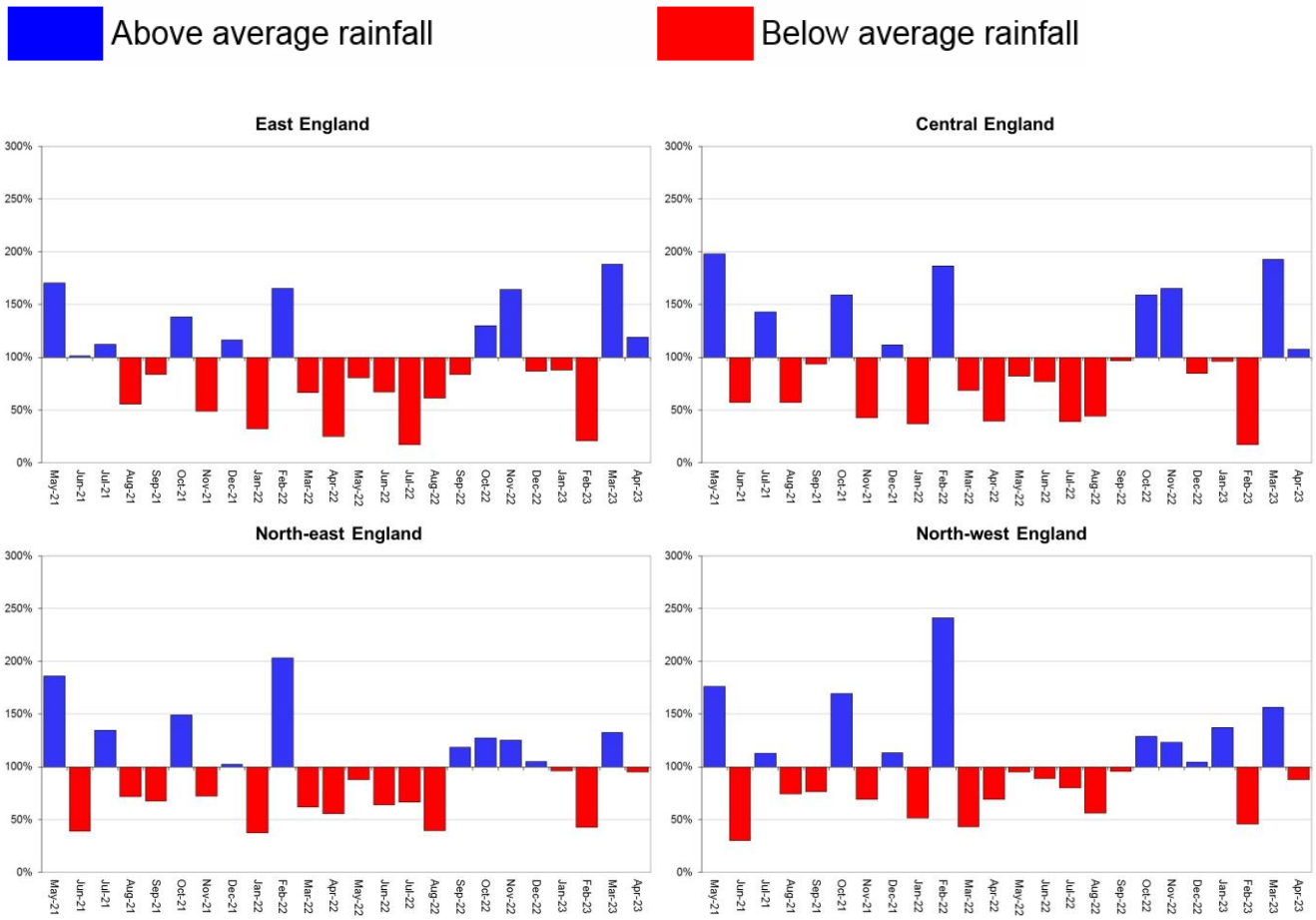
Figure 2.2: Total rainfall for hydrological areas across England for the current month (up to 30 April 2023), the last 3 months, the last 6 months, and the last 12 months, classed relative to an analysis of respective historic totals.

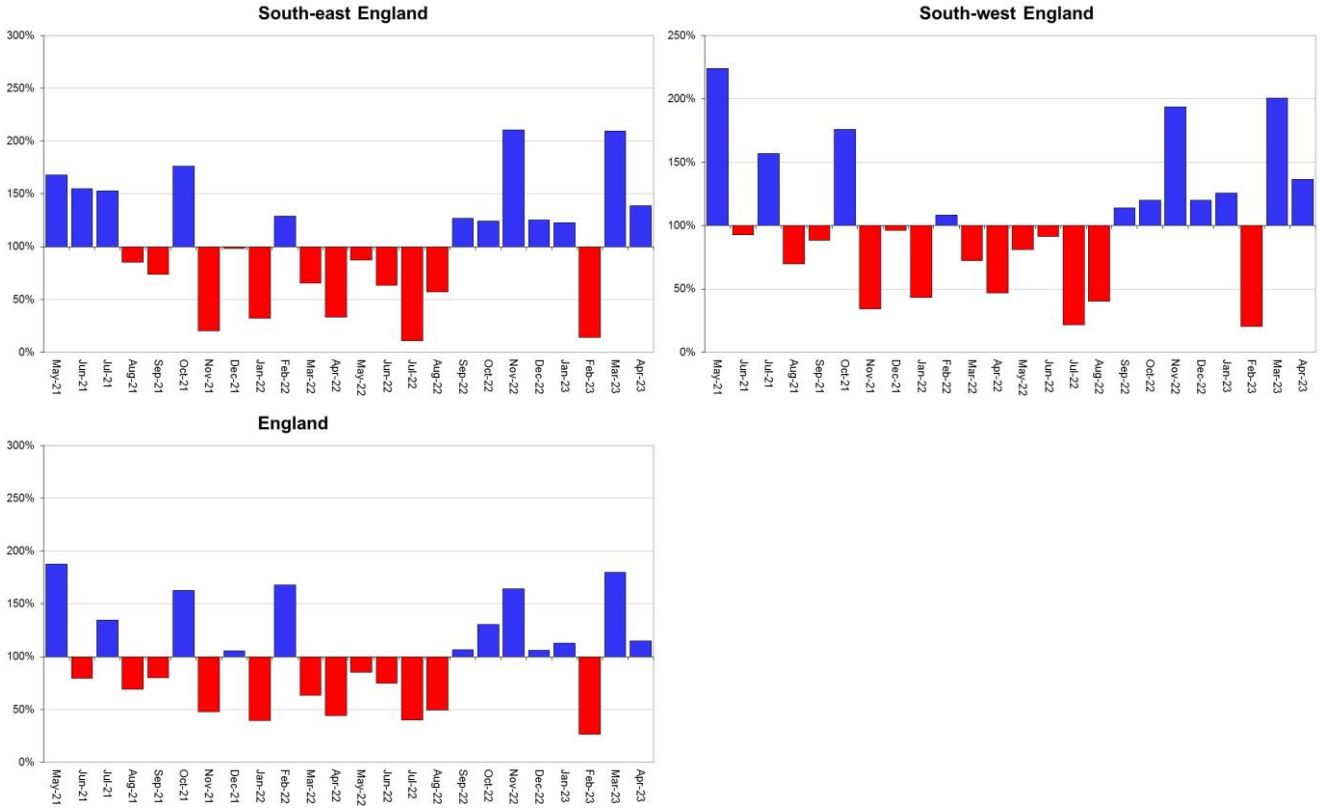


HadUK data based on the Met Office 1km gridded rainfall dataset derived from rain gauges (Source: Met Office. Crown copyright, 2023). Provisional data based on Environment Agency 1km gridded rainfall dataset derived from Environment Agency intensity rain gauges. Crown copyright. All rights reserved. Environment Agency, 100024198, 2023.

2.2 Rainfall charts

Figure 2.3: Monthly rainfall totals for the past 24 months as a percentage of the 1961 to 1990 long term average for each region and for England.





HadUK rainfall data. (Source: Met Office. Crown copyright, 2023).

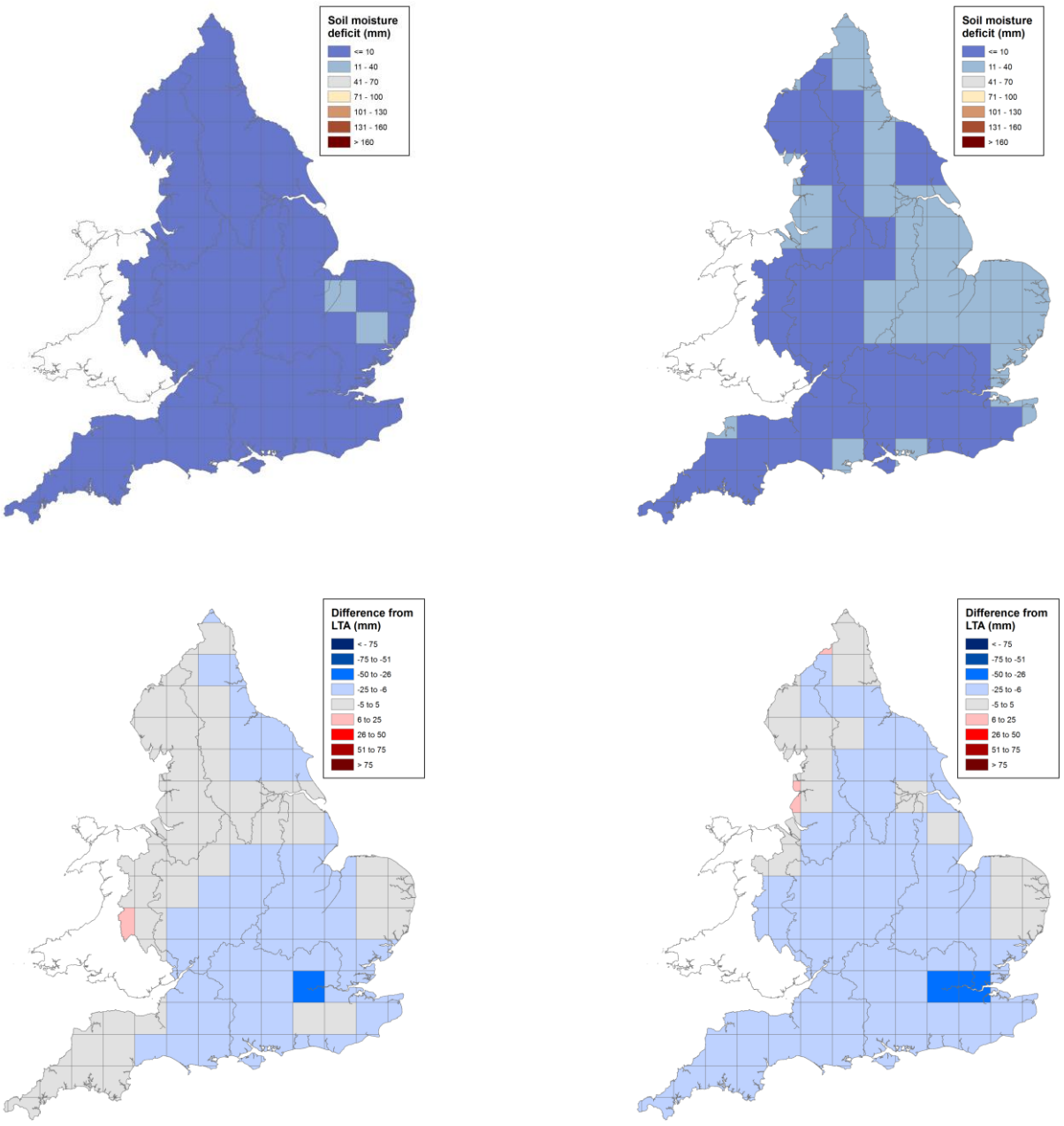
3 Soil moisture deficit

3.1 Soil moisture deficit map

Figure 3.1: Soil moisture deficits for weeks ending, 29 March 2023 (left panel) and 03 May 2023 (right panel). Top row shows actual soil moisture deficits (mm) and bottom row shows the difference (mm) of the actual from the 1961 to 1990 long term average soil moisture deficits. MORECS data for real land use.

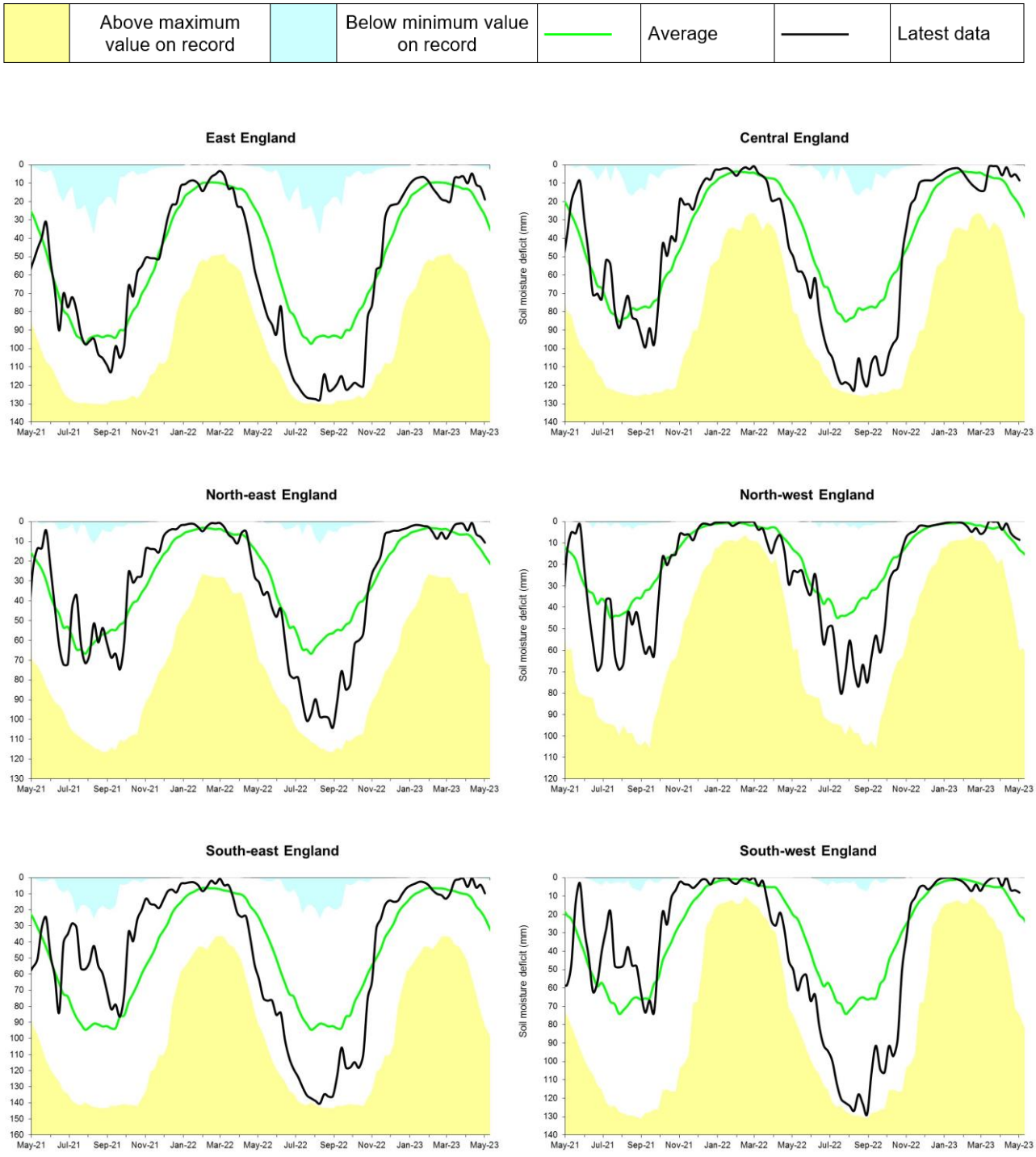
End of March 2023

End of April 2023



3.2 Soil moisture deficit charts

Figure 3.2: Latest soil moisture deficits for all geographic regions compared to maximum, minimum and 1961 to 1990 long term average. Weekly MORECS data for real land use.



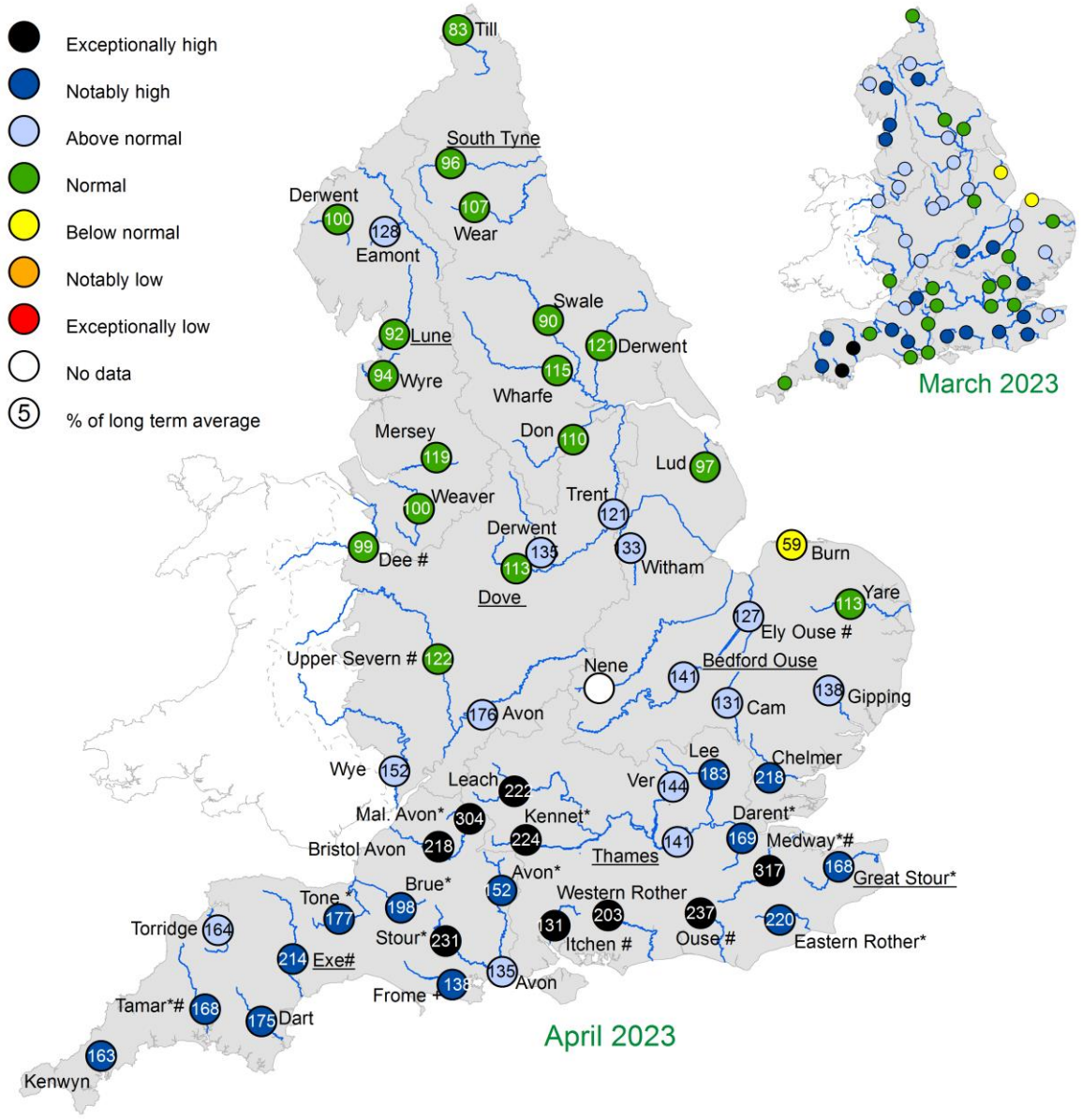
(Source: Met Office. Crown copyright, 2023).

4 River flows

4.1 River flow map

Figure 4.1: Monthly mean river flow for indicator sites for March 2023 and April 2023, expressed as a percentage of the respective long term average and classed relative to an analysis of historic March and April monthly means. Table available in the appendices with detailed information. Regional index sites are underlined and shown in the hydrographs in Figure 4.2.

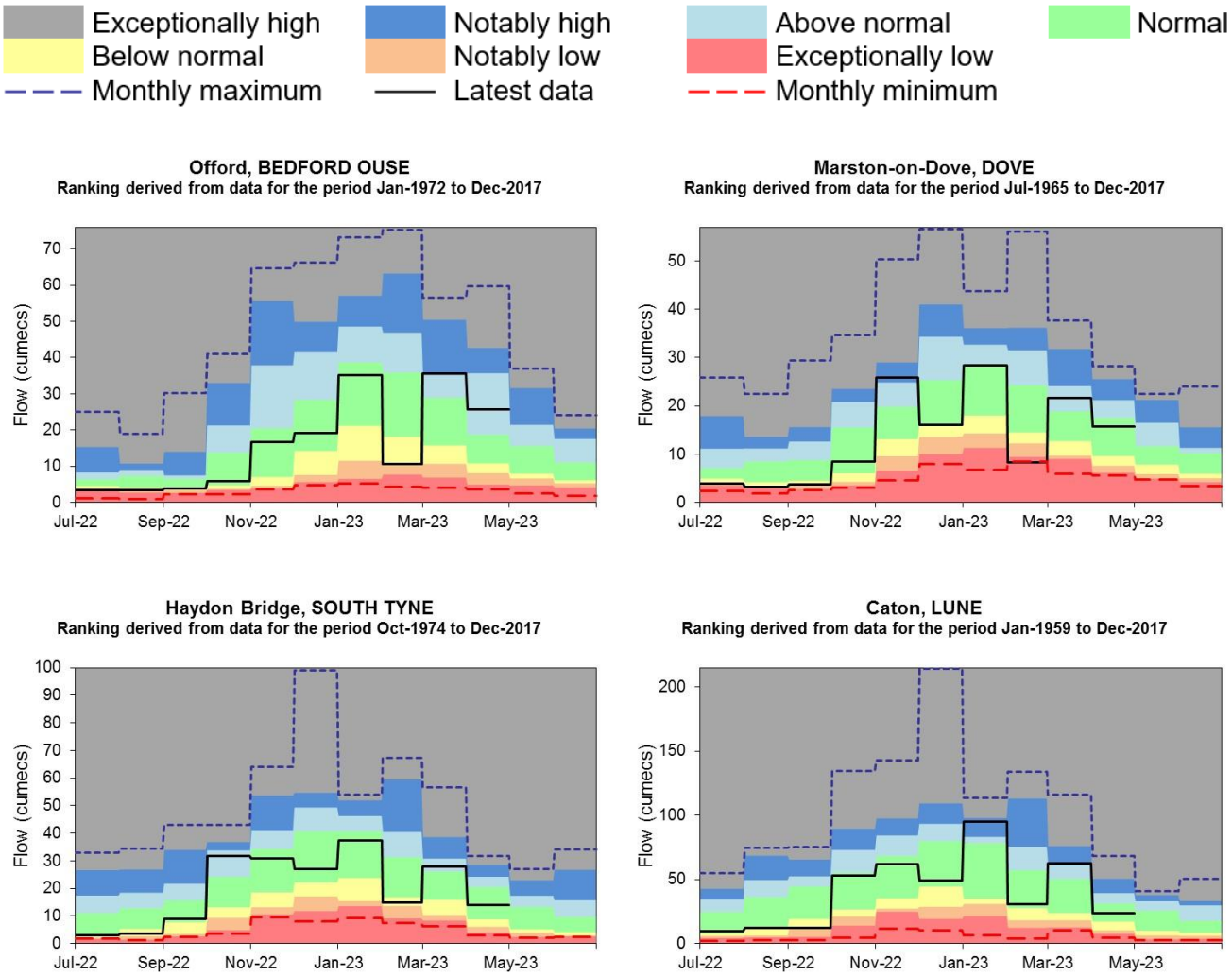
Naturalised flows are provided for the River Thames and the River Lee. +/- Monthly mean flow is the highest/lowest on record for the current month (note that record length varies between sites). * Flows may be overestimated at these sites – data should be treated with caution. # Flows may be impacted at these sites by water releases from upstream reservoirs.

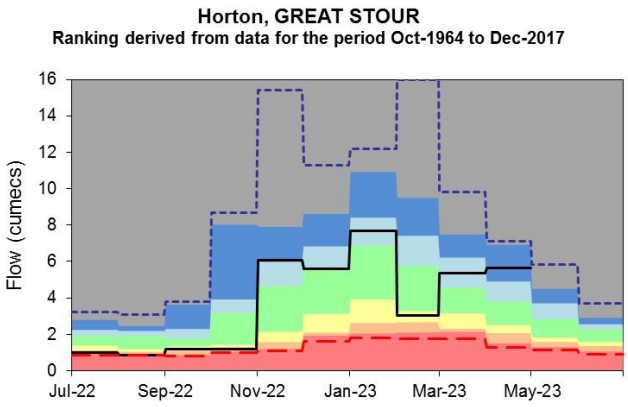


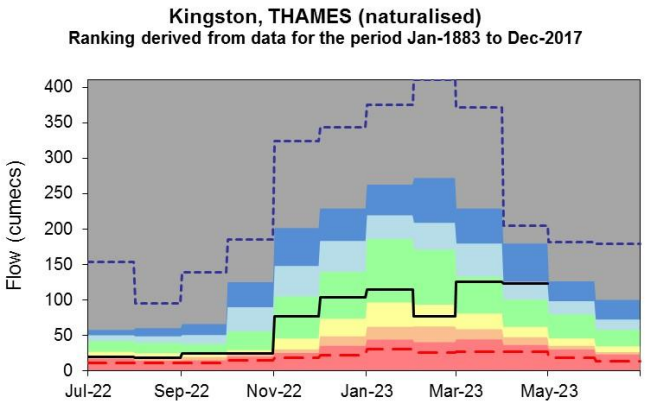
(Source: Environment Agency). Crown copyright. All rights reserved. Environment Agency, 100024198, 2023.

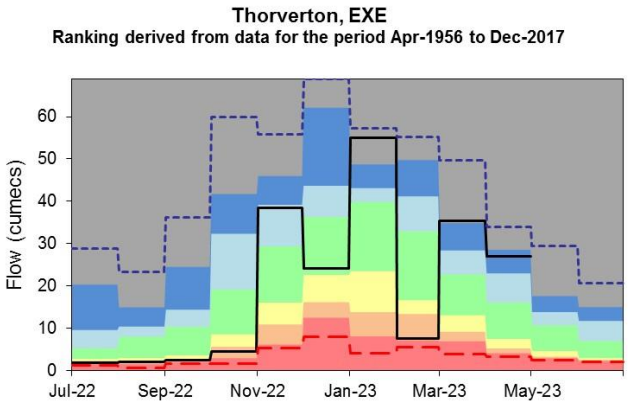
4.2 River flow charts

Figure 4.2: Monthly mean river flow for index sites over the past year for each geographic region, compared to an analysis of historic monthly mean flows, and long term maximum and minimum flows.









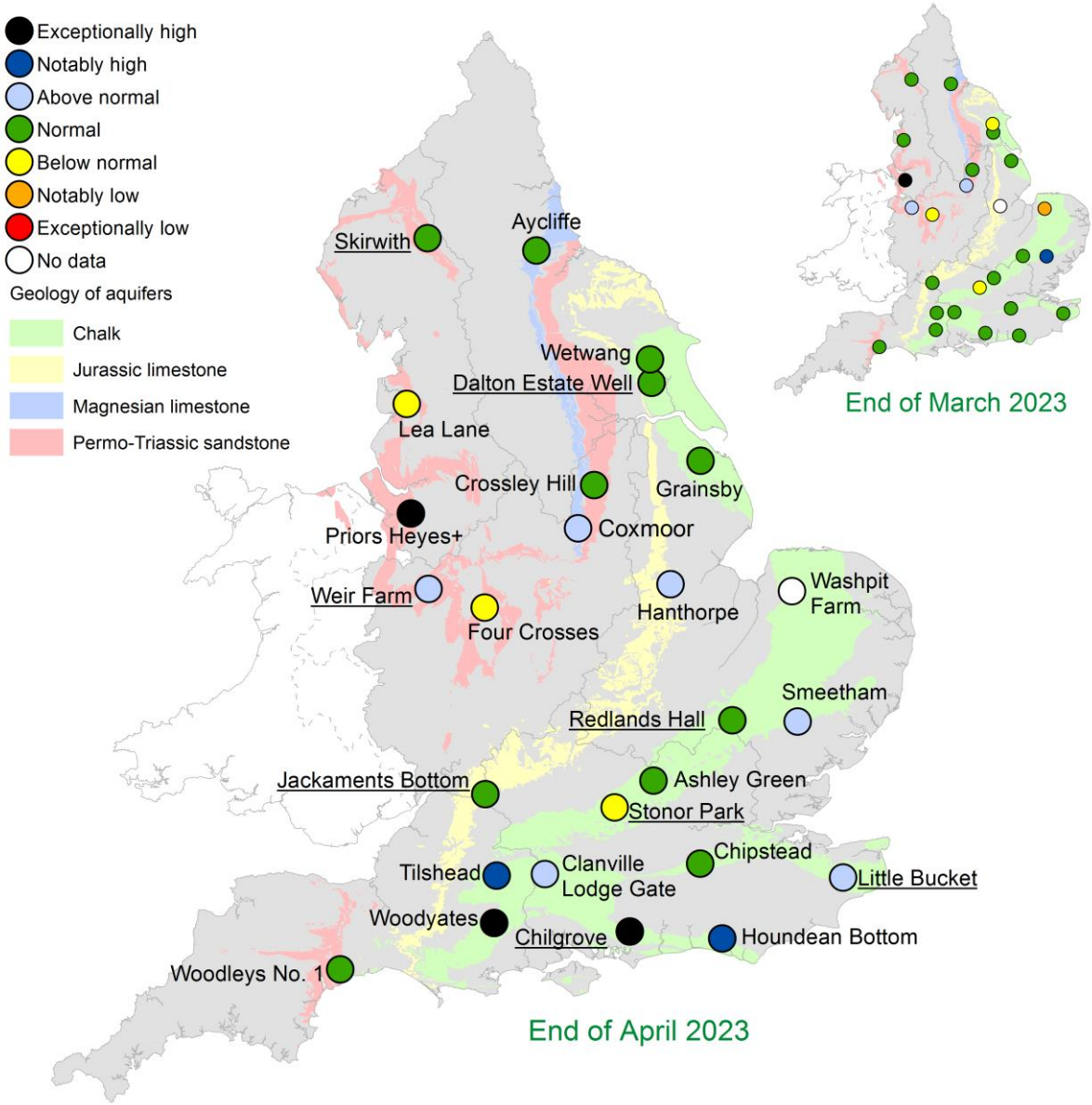
(Source: Environment Agency).

5 Groundwater levels

5.1 Groundwater levels map

Figure 5.1: Groundwater levels for indicator sites at the end of March 2023 and April 2023, classed relative to an analysis of respective historic March and April levels. Major aquifer index sites are underlined and shown in groundwater level charts in Figure 5.2.

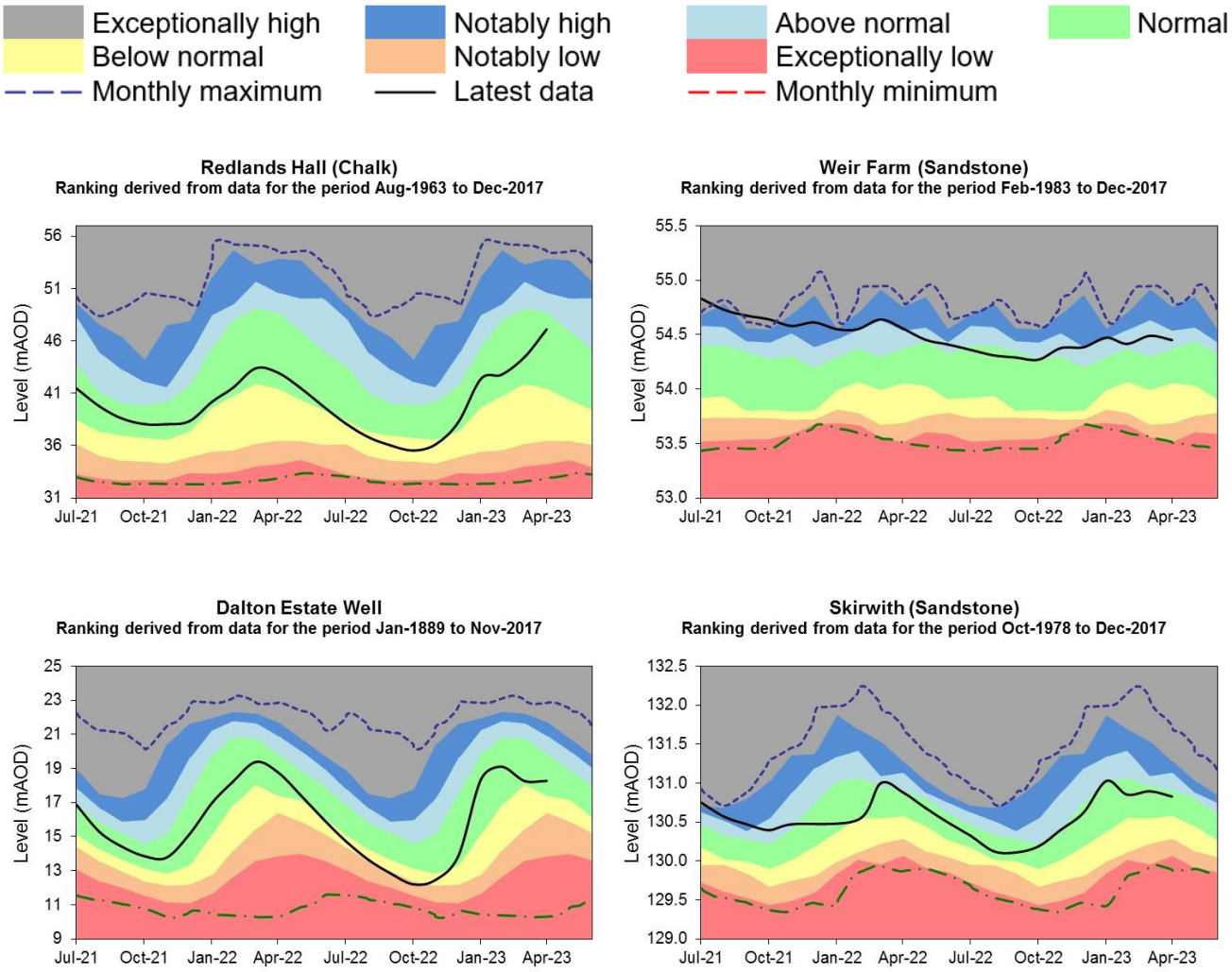
Redlands Hall and Aycliffe are manually dipped at different times during the month and so may not be fully representative of month end levels. Levels at Priors Heyes remain high compared to historic levels because the aquifer is recovering from the effects of historic abstraction. +/- End of month groundwater level is the highest/lowest on record for the current month (note that record length varies between sites).

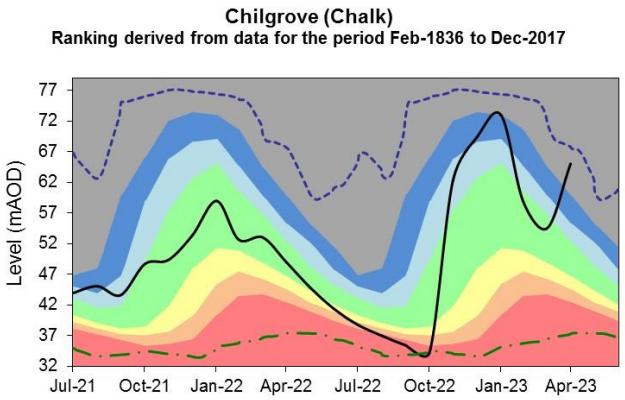


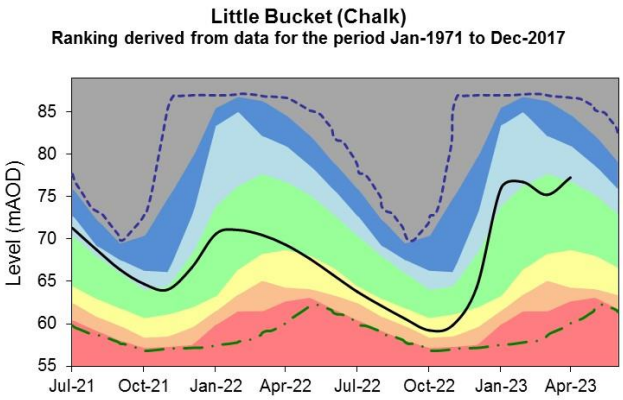
(Source: Environment Agency). Geological map reproduced with kind permission from UK Groundwater Forum, BGS copyright NERC. Crown copyright. All rights reserved. Environment Agency, 100024198, 2023.

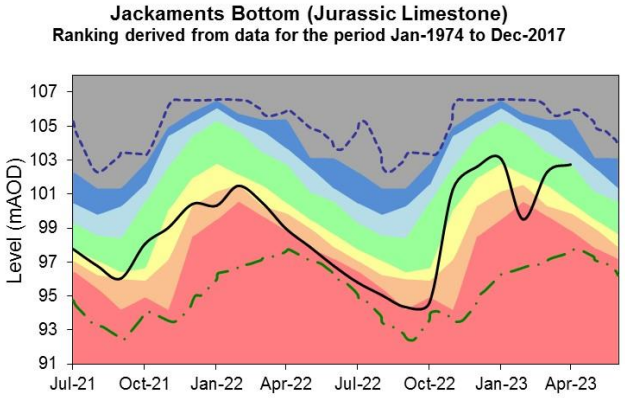
5.2 Groundwater level charts

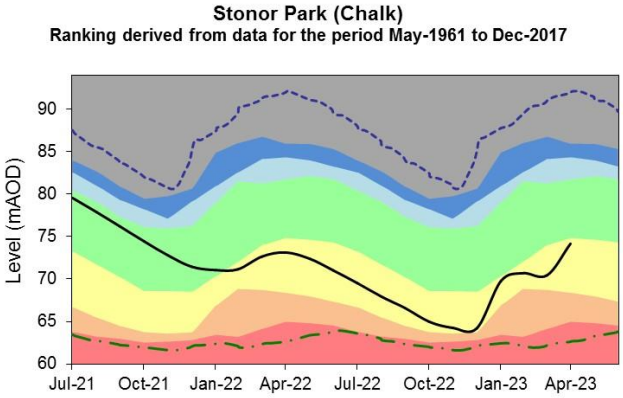
Figure 5.2: End of month groundwater levels at index groundwater level sites for major aquifers. Past 22 months compared to an analysis of historic end of month levels and long term maximum and minimum levels.









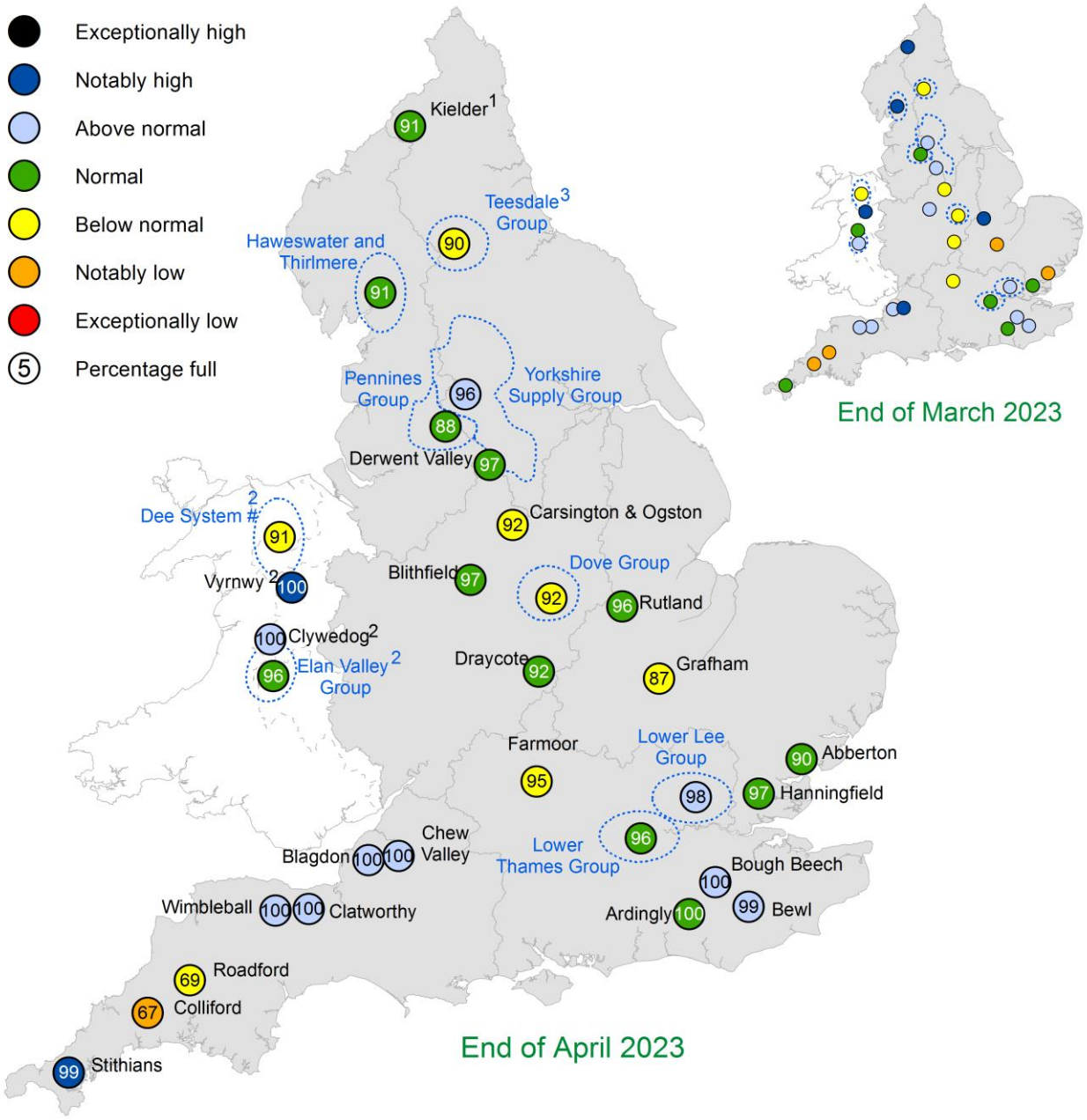


(Source: Environment Agency, 2023)

6 Reservoir storage

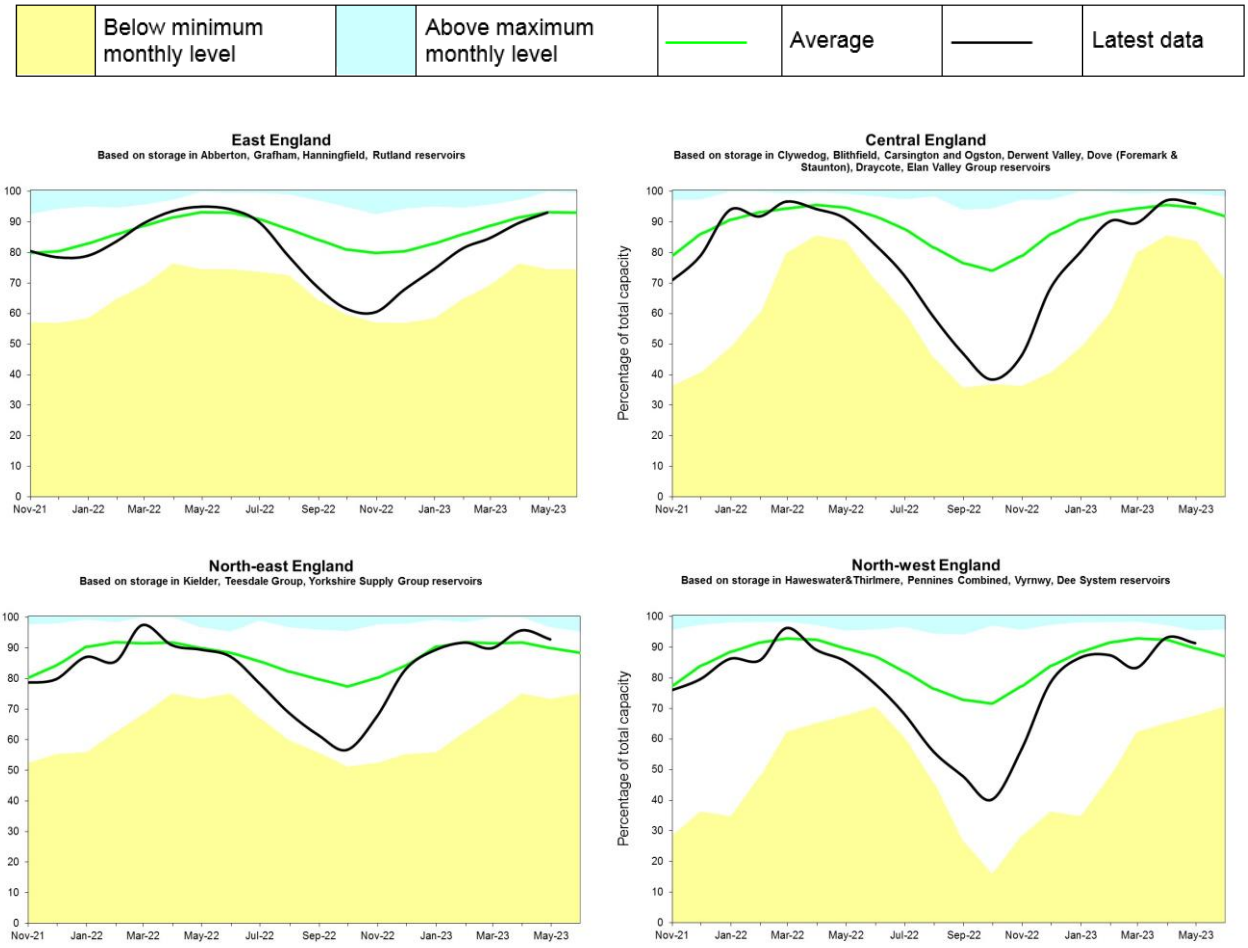
6.1 Reservoir storage map

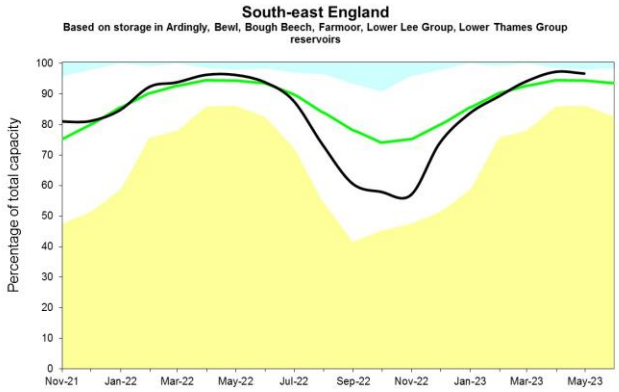
Figure 6.1: Reservoir stocks at key individual and groups of reservoirs at the end of March 2023 and April 2023 as a percentage of total capacity and classed relative to an analysis of historic March and April values respectively. Note: Classes shown may not necessarily relate to control curves or triggers for drought actions. As well as for public water supply, some reservoirs are drawn down to provide flood storage, river compensation flows or for reservoir safety inspections. In some cases current reservoir operating rules may differ from historic ones.

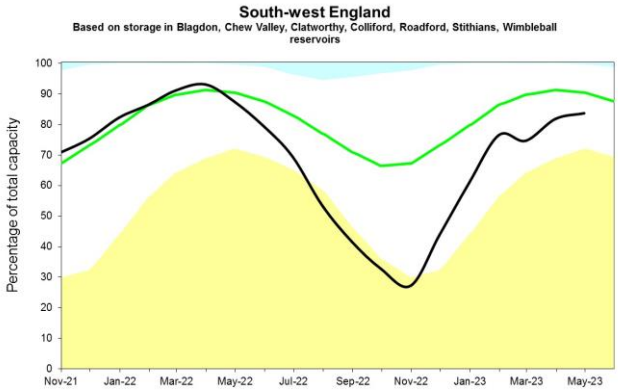


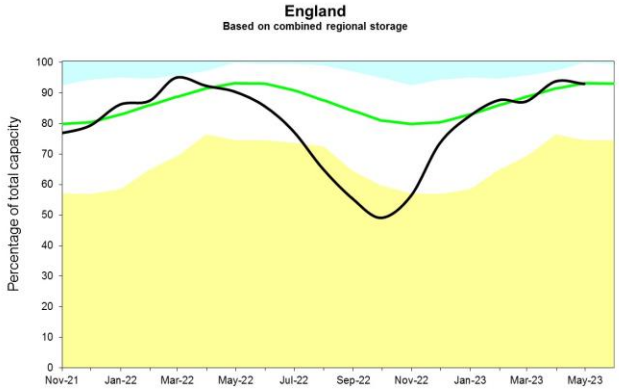
6.2 Reservoir storage charts

Figure 6.2: Regional reservoir stocks. End of month reservoir stocks compared to long term maximum, minimum and average stocks. Note: Historic records of individual reservoirs/reservoir groups making up the regional values vary in length.







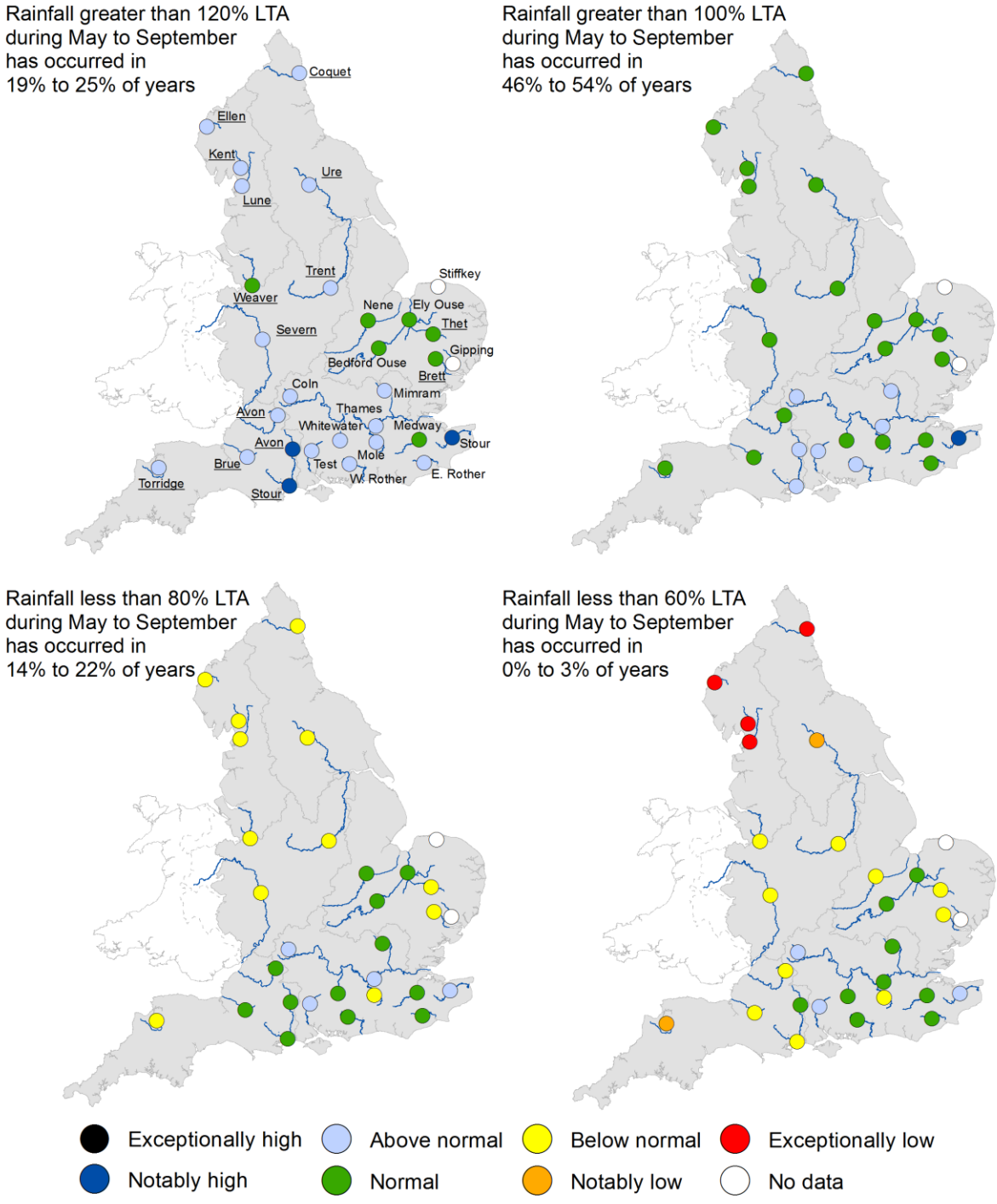


(Source: Water Companies).

7 Forward look

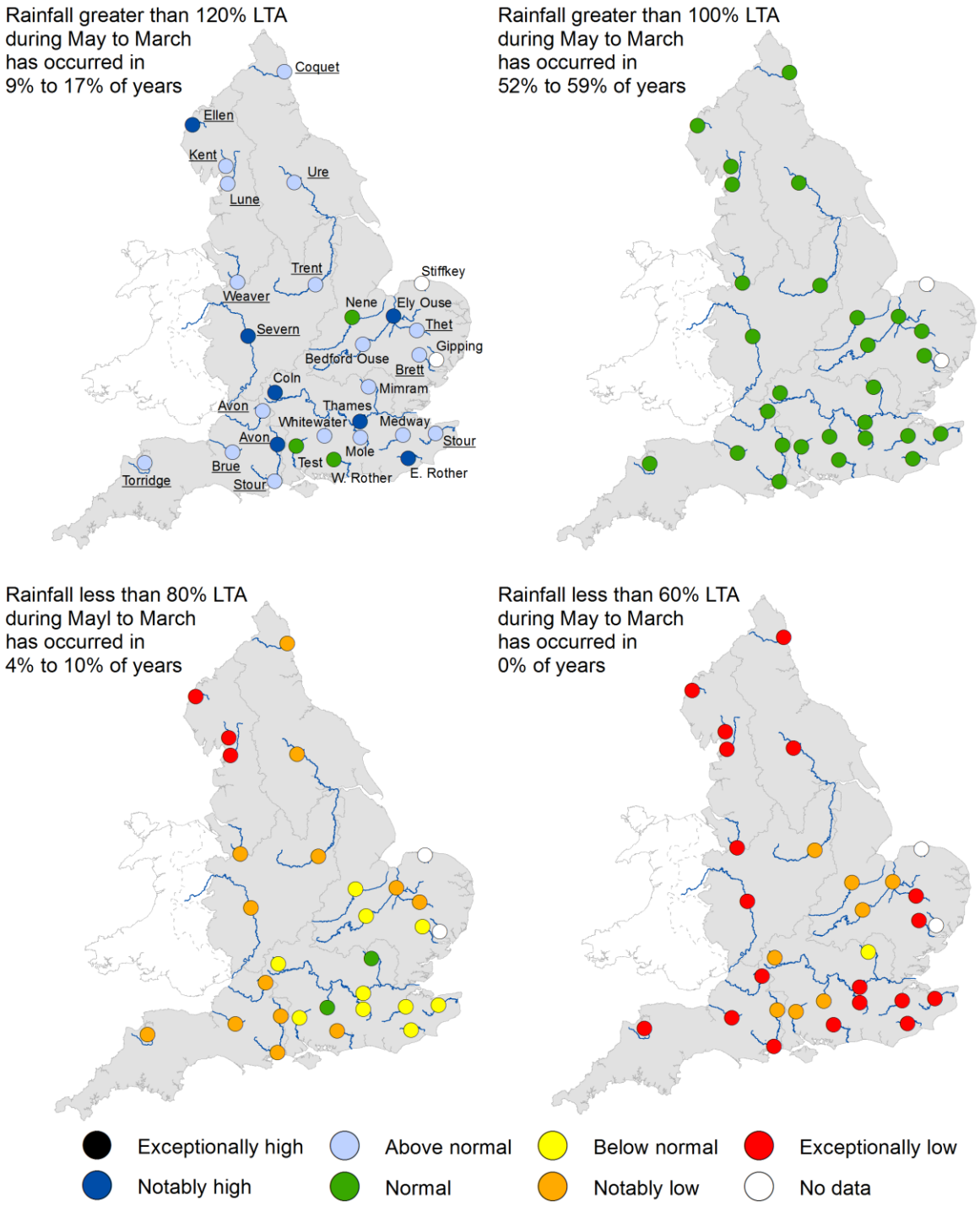
7.1 River flow

Figure 7.1: Projected river flows at key indicator sites up until the end of September 2023. Projections based on four scenarios: 120%, 100%, 80% and 60% of long term average rainfall between May 2023 and September 2023. Rainfall statistics based on occurrence in the historic record since 1891. Projections for underlined sites produced by CEH.



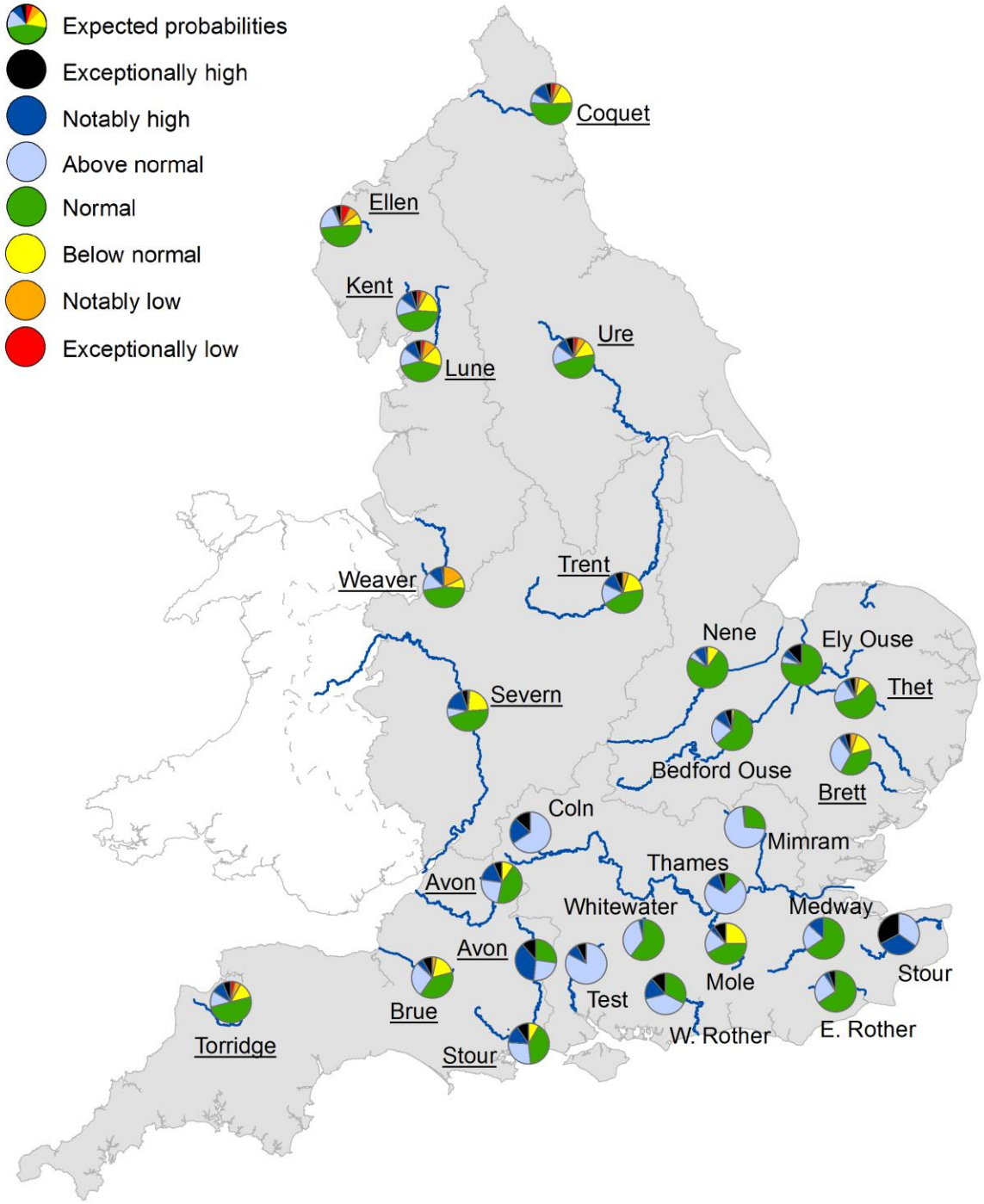
(Source: UK Centre for Ecology and Hydrology, Environment Agency).

Figure 7.2: Projected river flows at key indicator sites up until the end of March 2024. Projections based on four scenarios: 120%, 100%, 80% and 60% of long term average rainfall between May 2023 and March 2024. Rainfall statistics based on occurrence in the historic record since 1891. Projections for underlined sites produced by CEH.



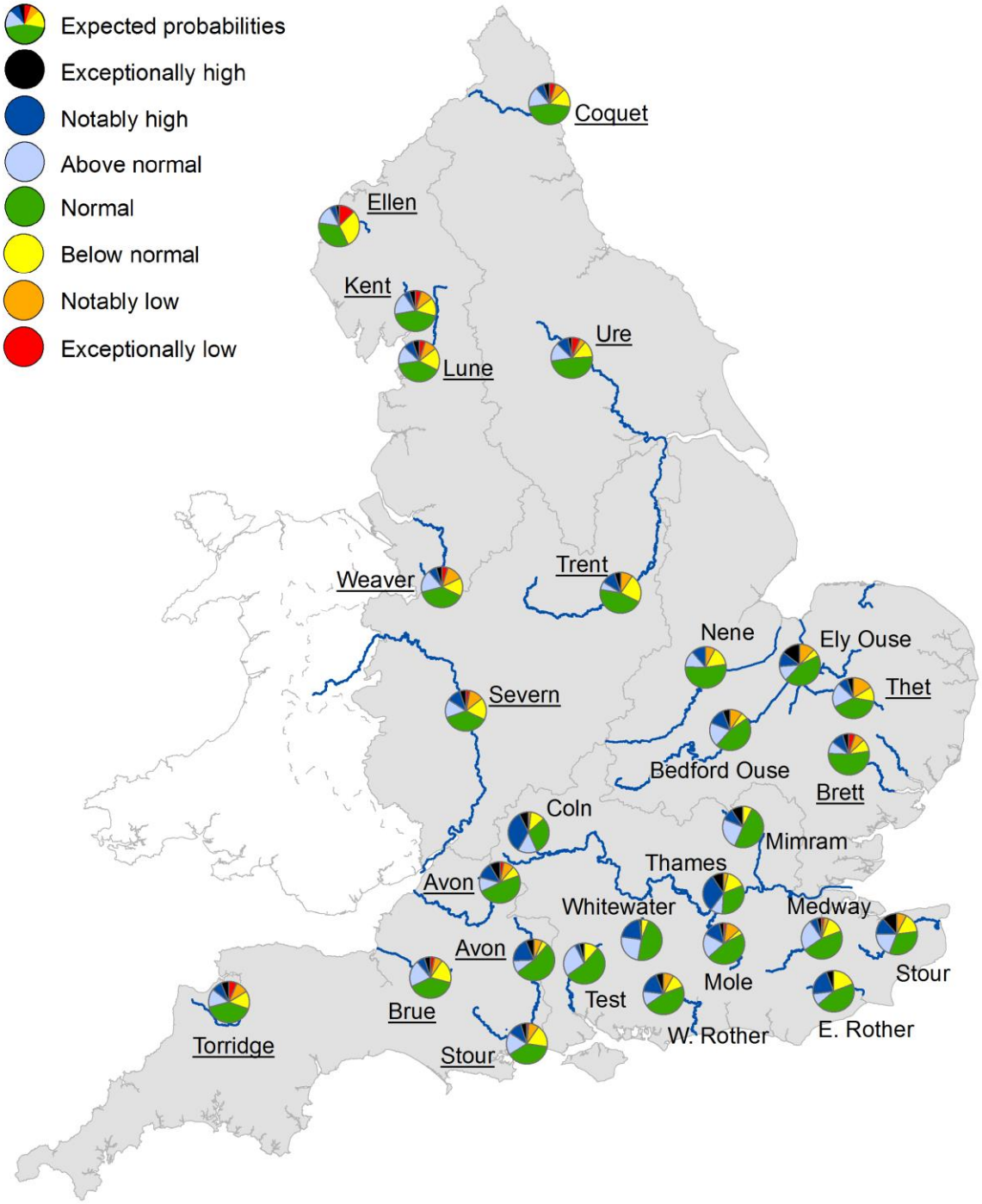
(Source: UK Centre for Ecology and Hydrology, Environment Agency)

Figure 7.3: Probabilistic ensemble projections of river flows at key indicator sites up until the end of September 2023. Pie charts indicate probability, based on climatology, of the surface water flow at each site being e.g. exceptionally low for the time of year. Projections for underlined sites produced by CEH.



(Source: UK Centre for Ecology and Hydrology, Environment Agency).

Figure 7.4: Probabilistic ensemble projections of river flows at key indicator sites up until the end of March 2024. Pie charts indicate probability, based on climatology, of the surface water flow at each site being e.g. exceptionally low for the time of year. Projections for underlined sites produced by CEH.



(Source: UK Centre for Ecology and Hydrology, Environment Agency).

7.2 Groundwater

Figure 7.5: Projected groundwater levels at key indicator sites at the end of September 2023. Projections based on four scenarios: 120%, 100%, 80% and 60% of long term average between May 2023 and September 2023. Rainfall statistics based on occurrence in the historic record since 1891. Projections for underlined sites produced by BGS.

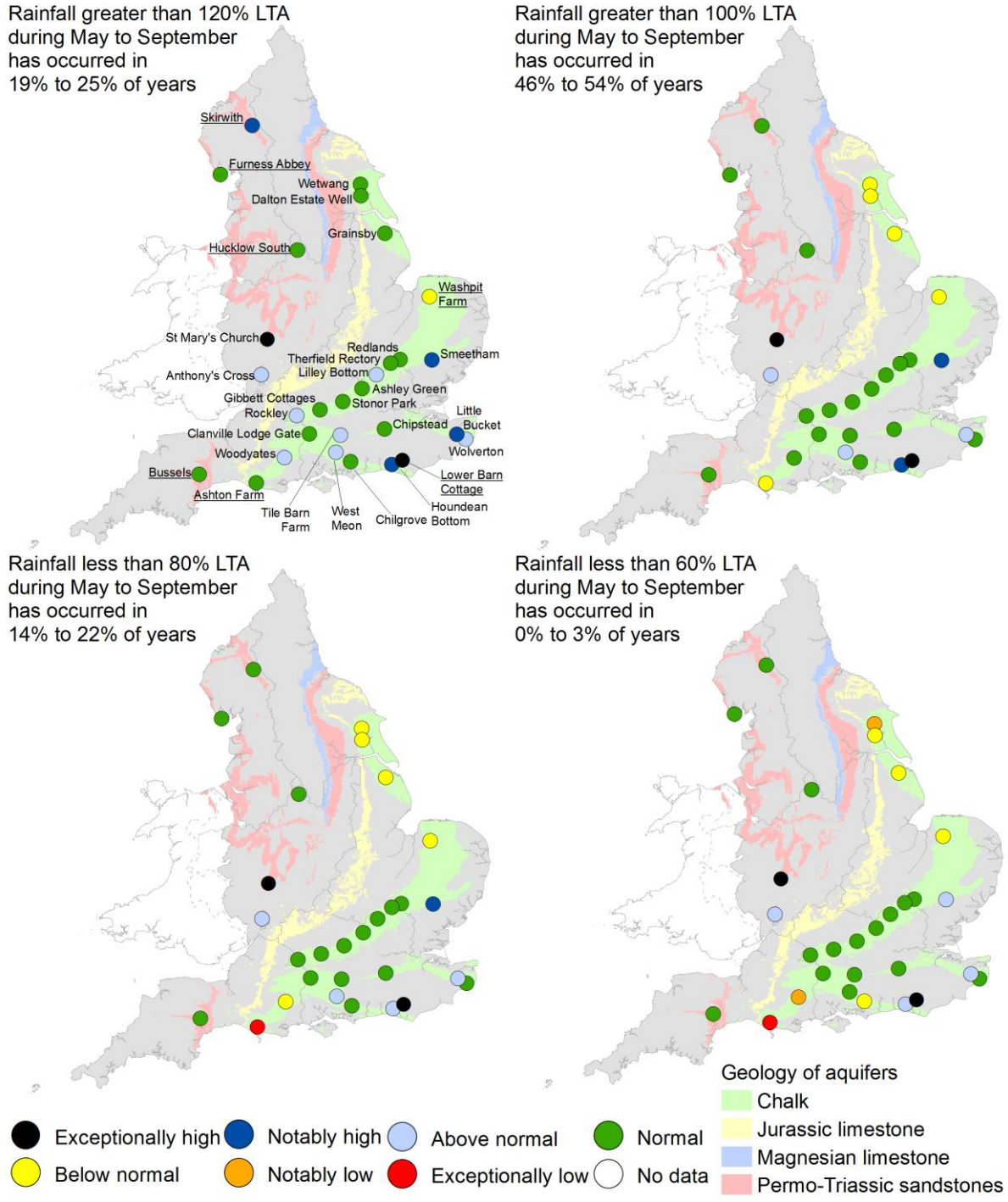


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Figure 7.6: Projected groundwater levels at key indicator sites at the end of March 2024. Projections based on four scenarios: 120%, 100%, 80% and 60% of long term average rainfall between May 2023 and March 2024. Rainfall statistics based on occurrence in the historic record since 1891. Projections for underlined sites produced by BGS.

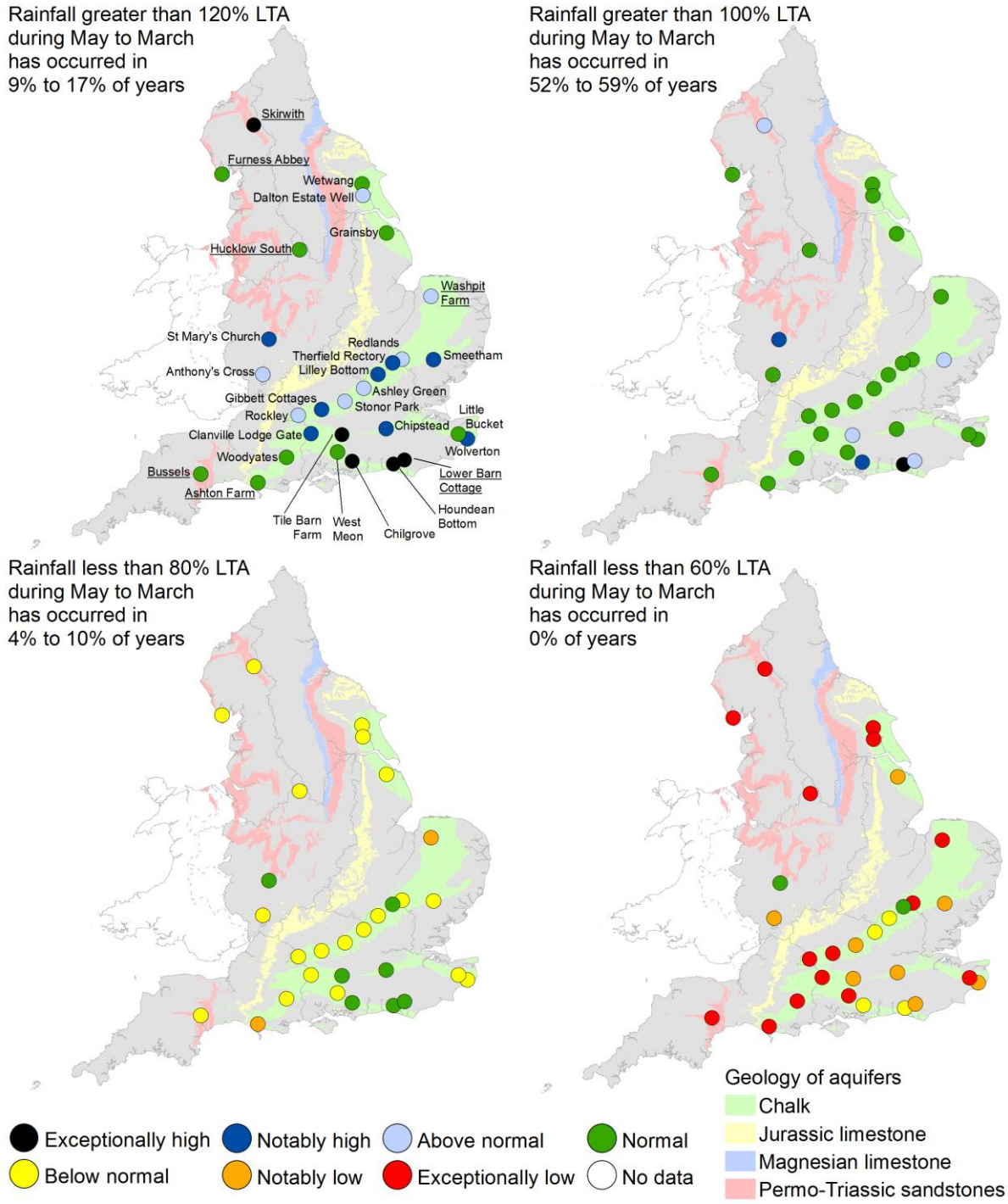

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Figure 7.7: Probabilistic ensemble projections of groundwater levels at key indicator sites at the end of September 2023. Pie charts indicate probability, based on climatology, of the groundwater level at each site being e.g. exceptionally low for the time of year. Projections for underlined sites produced by BGS.

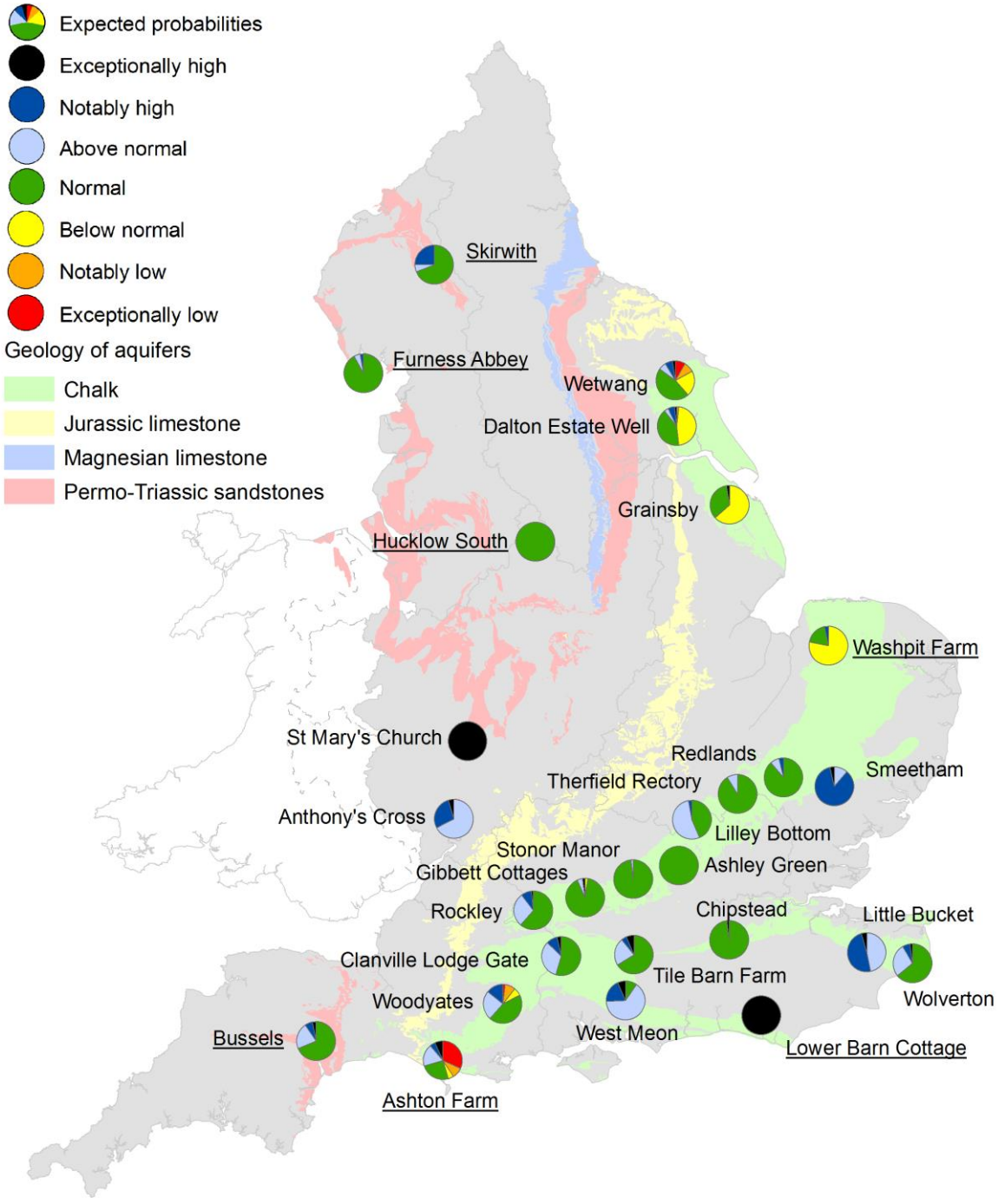

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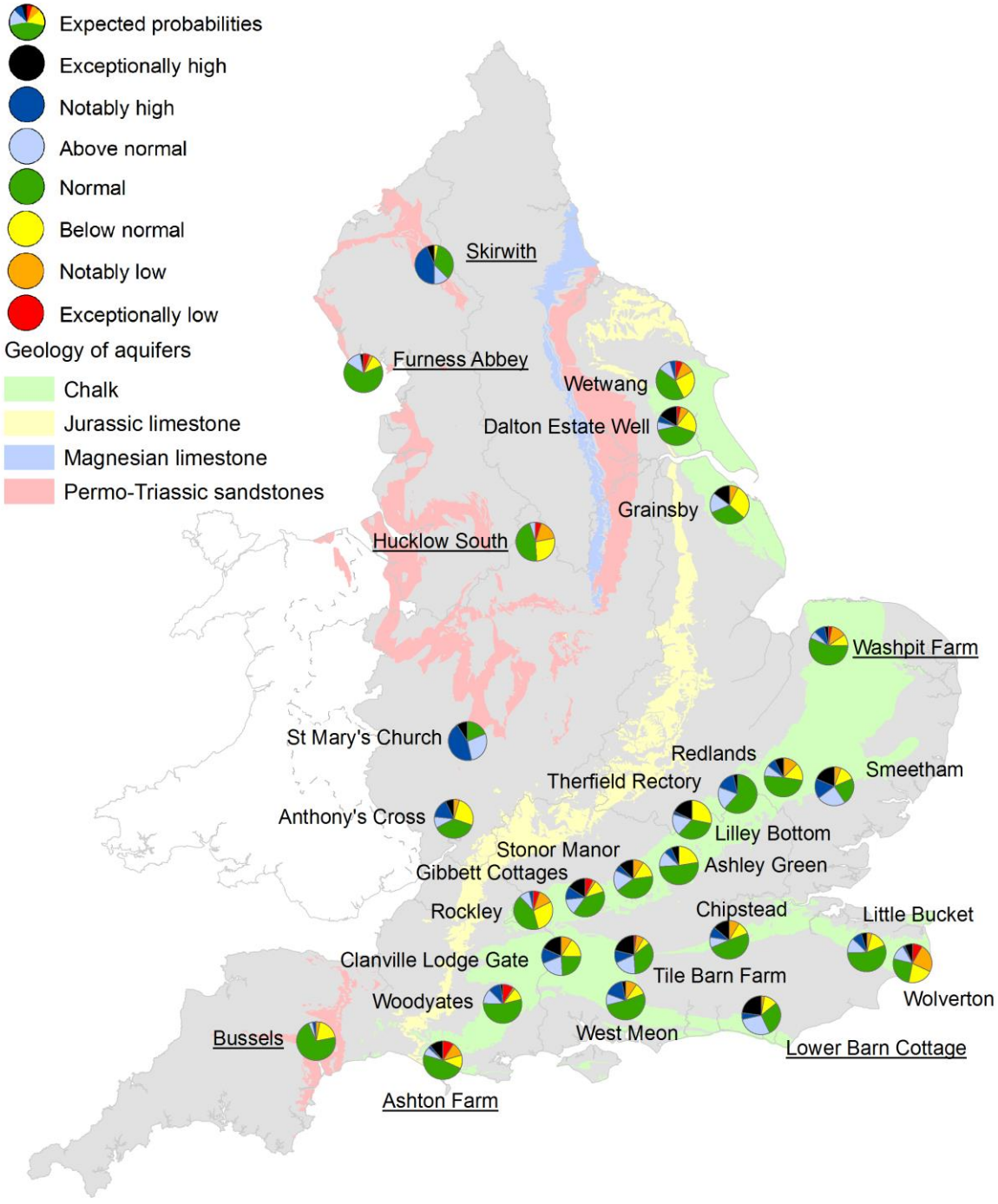
Figure 7.8: Probabilistic ensemble projections of groundwater levels at key indicator sites at the end of March 2024. Pie charts indicate probability, based on climatology, of the groundwater level at each site being e.g. exceptionally low for the time of year. Projections for underlined sites produced by BGS.



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8 Glossary

8.1 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} or m^3/s).

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 1961-1990. 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 x 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 (e.g. 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).

8.2 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.

8.3 Geographic regions

Throughout this report regions of England are used to group Environment Agency areas together. Below the areas in each region are listed, and Figure 8.1 shows the geographical extent of these regions.

East includes: Cambridgeshire and Bedfordshire, Lincolnshire and Northamptonshire, and Essex, Norfolk and Suffolk areas.

South east includes: Solent and South Downs, Hertfordshire and North London, Thames, and Kent and South London areas.

South west includes: Devon and Cornwall and the Isles of Scilly, and Wessex areas.

Central includes: Shropshire, Herefordshire, Worcestershire and Gloucestershire, Staffordshire, Warwickshire and West Midlands, and Derbyshire, Nottinghamshire and Leicestershire areas.

North west includes: Cumbria and Lancashire, and Greater Manchester, Merseyside and Cheshire areas.

North east includes: Yorkshire, and Northumberland Durham and Tees areas.

Figure 8.1: Geographic regions

9 Appendices

9.1 Rainfall table

Region	Apr 2023 rainfall % of long term average 1961 to 1990	Apr 2023 band	Feb 2023 to April 2023 cumulative band	Nov 2022 to April 2023 cumulative band	May 2022 to April 2023 cumulative band
East England	119	Above Normal	Above normal	Above normal	Normal
Central England	108	Normal	Above normal	Above normal	Normal
North-east England	95	Normal	Normal	Normal	Below normal
North-west England	88	Normal	Normal	Above normal	Normal
South-east England	139	Above Normal	Above normal	Notably high	Above normal
South-west England	136	Above Normal	Above normal	Notably high	Above normal
England	115	Normal	Above normal	Above normal	Normal

9.2 River flows table

Geographic area	Site name	River	Apr 2023 band	Mar 2023 band
East	Burnham	Burn	Below normal	Below normal
East	Claypole	Upper Witham	Above normal	Normal
East	Colney	Yare	Normal	Normal
East	Denver	Ely Ouse	Above normal	Above normal
East	Dernford	Cam	Above normal	Normal
East	Louth Weir	Lud	Normal	Below normal
East	Offord	Bedford Ouse	Above normal	Notably high
East	Springfield	Chelmer	Notably high	Notably high
East	Stowmarket	Gipping	Above normal	Above normal
East	Upton Mill	Nene	No data	Notably high
Central	Bewdley	Severn	Normal	Above normal
Central	Derby St Marys	Derwent	Above normal	Above normal
Central	Evesham	Avon	Above normal	Above normal
Central	Marston-on-Dove	Dove	Normal	Above normal
Central	North Muskham	Trent	Above normal	Above normal
North East	Buttercrambe	Derwent	Normal	Normal

North East	Crakehill Topcliffe	Swale	Normal	Normal
North East	Heaton Mill	Till	Normal	Normal
North East	Doncaster	Don	Normal	Above normal
North East	Haydon Bridge	South Tyne	Normal	Above normal
North East	Tadcaster	Wharfe	Normal	Above normal
North East	Stanhope	Wear	Normal	Notably high
North West	Ashton Weir	Mersey	Normal	Above normal
North West	Caton	Lune	Normal	Notably high
North West	Ouse Bridge	Derwent	Normal	Above normal
North West	Pooley Bridge	Eamont	Above normal	Notably high
North West	St Michaels	Wyre	Normal	Notably high
North West	Ashbrook	Weaver	Normal	Above normal
South East	Allbrook + Highbridge	Itchen	Exceptionally high	Notably high
South East	Feildes Weir	Lee	Notably high	Normal
South East	Hansteads	Ver	Above normal	Normal
South East	Hawley	Darent	Notably high	Normal
South East	Horton	Great Stour	Notably high	Above normal
South East	Kingston	Thames	Above normal	Normal
South East	Lechlade	Leach	Exceptionally high	Normal

South East	Teston + Farleigh	Medway	Exceptionally high	Notably high
South East	Marlborough	Kennet	Exceptionally high	Normal
South East	Udiam	Rother	Notably high	Notably high
South East	Ardingley Gs	Ouse	Exceptionally high	Notably high
South East	Princes Marsh Gs	Rother	Exceptionally high	Notably high
South West	Amesbury	Upper Avon	Notably high	Normal
South West	Bathford	Avon	Exceptionally high	Above normal
South West	Bishops Tull	Tone	Notably high	Normal
South West	East Stoke	Frome	Notably high	Normal
South West	Great Somerford	Avon	Exceptionally high	Notably high
South West	Gunnislake	Tamar	Notably high	Notably high
South West	Hammoon	Middle Stour	Exceptionally high	Notably high
South West	Knapp Mill	Avon	Above normal	Normal
South West	Lovington	Upper Brue	Notably high	Notably high
South West	Thorverton	Exe	Notably high	Exceptionally high
South West	Torrington	Torridge	Above normal	Notably high
South West	Truro	Kenwyn	Notably high	Normal

South West	Austins Bridge	River Dart	Notably high	Exceptionally high
EA Wales	Manley Hall	Dee	Normal	Above normal
EA Wales	Redbrook	Wye	Above normal	Normal

9.3 Groundwater table

Geographic area	Site name	Aquifer	End of Apr 2023 band	End of Mar 2023 band
East	Grainsby	Grimsby Ancholme Louth Chalk	Normal	Normal
East	Redlands Hall	Cam Chalk	Normal	Normal
East	Hanthorpe	Cornbrash (South)	Above normal	No data
East	Smeetham Hall Cott.	North Essex Chalk	Above normal	Notably high
East	Washpit Farm Rougham	North West Norfolk Chalk	No data	Notably low
Central	Four Crosses	Grimsby Ancholme Louth Limestone	Below normal	Below normal
Central	Weir Farm	Bridgnorth Sandstone Formation	Above normal	Above normal
Central	Coxmoor	Permo Triassic Sandstone	Above normal	Above normal
Central	Crossley Hill	Permo Triassic Sandstone	Normal	Normal
North East	Dalton Estate Well	Hull & East Riding Chalk	Normal	Normal
North East	Aycliffe Nra2	Skerne Magnesian Limestone	Normal	Normal
North East	Wetwang	Hull & East Riding Chalk	Normal	Below normal

North West	Priors Heyes	West Cheshire Permo-Triassic Sandstone	Exceptionally high	Exceptionally high
North West	Skirwith	Carlisle Basin Permo-Triassic sandstone	Normal	Normal
North West	Lea Lane	Fylde Permo-Triassic Sandstone	Below normal	Normal
South East	Chilgrove	Chichester-Worthing-Portsdown Chalk	Exceptionally high	Normal
South East	Clanville Gate Gwl	River Test Chalk	Above normal	Normal
South East	Houndean Bottom Gwl	Brighton Chalk Block	Notably high	Normal
South East	Little Bucket	East Kent Chalk - Stour	Above normal	Normal
South East	Jackaments Bottom	Burford Oolitic Limestone (Inferior)	Normal	Normal
South East	Ashley Green Stw Obh	Mid-Chilterns Chalk	Normal	Normal
South East	Stonor Park	South-West Chilterns Chalk	Below normal	Below normal
South East	Chipstead Gwl	Epsom North Downs Chalk	Normal	Normal
South West	Tilshead	Upper Hampshire Avon Chalk	Notably high	Normal
South West	Woodleys No1	Otterton Sandstone Formation	Normal	Normal
South West	Woodyates	Dorset Stour Chalk	Exceptionally high	Normal

9.4 Reservoir table

Geographic region	% Full	Average comparison
East England	93	Average
Central England	96	Above average
North-east England	93	Above average
North-west England	91	Above average
South-east England	97	Above average
South-west England	84	Below average
England	93	Average