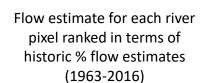


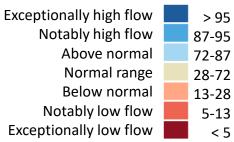
February's mean river flows simulated by the Grid-to-Grid hydrological model

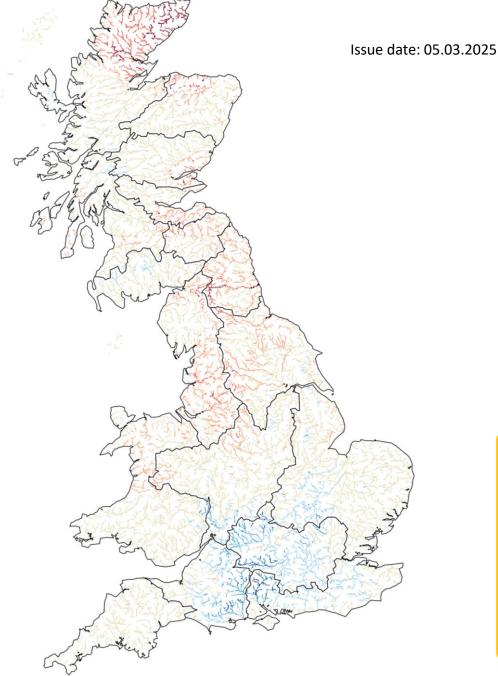
This map shows the simulated monthly mean flow across Great Britain for last month, ranked in terms of 54 years of historical flow estimates (1963 – 2016).

These flows are produced by the 1km resolution Grid-to-Grid (G2G) hydrological model, which is run up to the end of each calendar month using observed rainfall and MORECS potential evaporation as input.

Note that the G2G model provides estimates of natural flows.







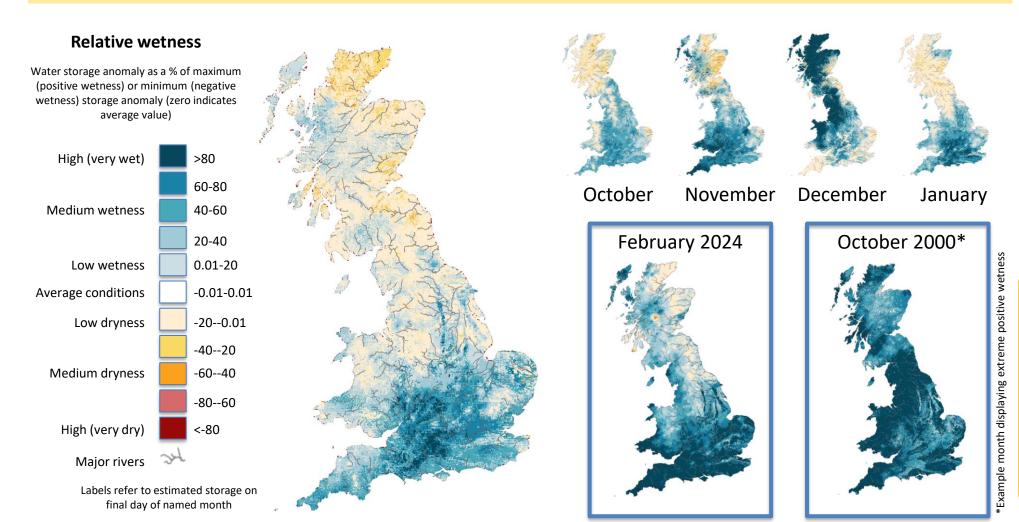


Current Daily Simulated Subsurface Water Storage Conditions

Based on subsurface water storage estimated for 28 February 2025

These maps are based on Grid-to-Grid (G2G) hydrological model simulated subsurface water storage (water in the soil and groundwater), expressed as an anomaly from the historical monthly mean. To highlight areas that are particularly wet or dry, the storage anomaly is presented relative to historical extremes. Rainfall in WET areas with high positive relative wetness could result in flooding in the coming days/weeks. Areas of negative relative wetness indicate locations which are particularly DRY, and little or no rain in these areas could potentially lead to (or prolong) a drought. Maps of soil moisture only are available on the next page.

SUMMARY: Subsurface water stores are still higher (wetter) than normal in Southern England and Wales and the Midlands but are mostly typical for the time of year in northern England and Scotland.



The Hydrological Outlook UK provides an outlook for the water situation for the UK over the next three months and beyond. For guidance on how to interpret the outlook, a wider range of information, and a full description of underpinning methods, please visit the website: www.hydoutuk.net

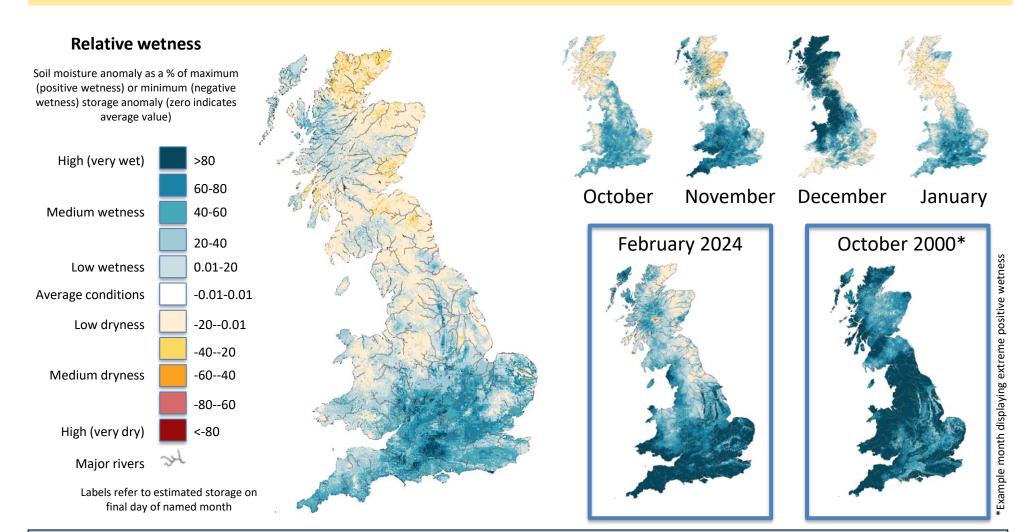


Current Daily Simulated Soil Moisture Conditions

Based on soil moisture estimated for 28 February 2025

These maps are based on Grid-to-Grid (G2G) hydrological model simulated soil moisture, expressed as an anomaly from the historical monthly mean. To highlight areas that are particularly wet or dry, the soil moisture anomaly is presented relative to historical extremes. These maps are not a forecast; rather an indication of current conditions. Soil moisture will often look similar to total storage (shown on the previous slide), since total storage comprises both soil moisture and storage in the saturated zone.

SUMMARY: Soil moisture levels are still higher (wetter) than normal in Southern England and Wales and the Midlands but are mostly typical for the time of year in northern England and Scotland.



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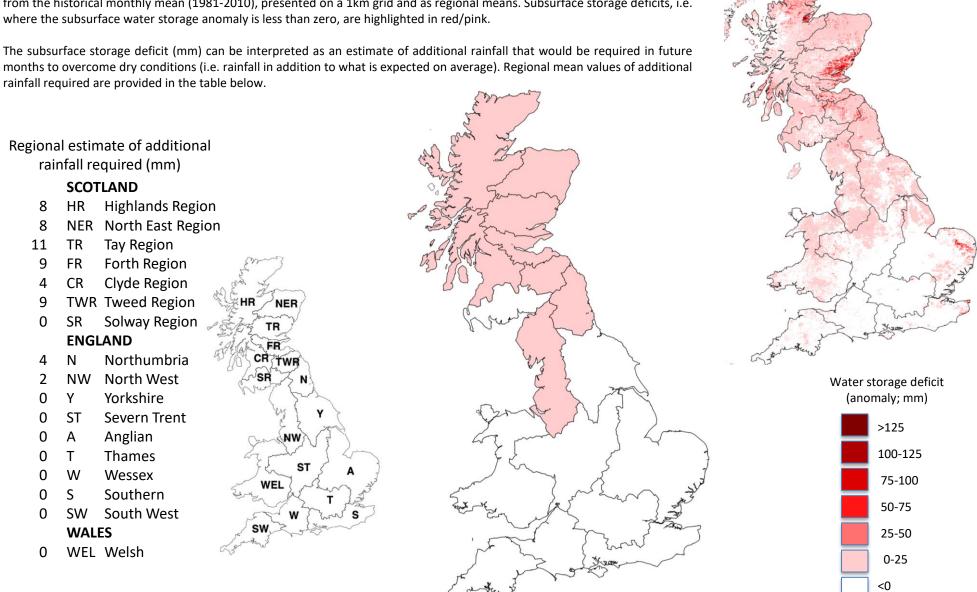


Estimate of Additional Rainfall Required to Overcome Dry Conditions

Based on subsurface water storage estimated for 28 February 2025

These maps show the Grid-to-Grid (G2G) hydrological model simulated subsurface water storage, expressed as an anomaly from the historical monthly mean (1981-2010), presented on a 1km grid and as regional means. Subsurface storage deficits, i.e.

The subsurface storage deficit (mm) can be interpreted as an estimate of additional rainfall that would be required in future months to overcome dry conditions (i.e. rainfall in addition to what is expected on average). Regional mean values of additional



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SCOTLAND

HR Highlands Region

NER North East Region

Forth Region

Clyde Region

Tay Region



Return Period of Rainfall Required to Overcome Dry Conditions

Period: March 2025 - August 2025

These maps show the return period of the rainfall required to overcome dry conditions simulated using the Grid-to-Grid (G2G) hydrological model. The maps are coloured according to the return period of accumulated rainfall required to overcome the estimated current subsurface water storage deficit over the next one to six months (areas with no storage deficit will always be white). These maps do not provide a drought forecast; instead they indicate whether particularly heavy rainfall would be required to return to normal conditions for the time of year.

SUMMARY:

Subsurface water storage deficits exist in Scotland and parts of northern England.

However, only northern and eastern Scotland requires unusual (>5 year return period) amounts of rainfall to replenish.

Rainfall amount (Probability)

Low (Likely) >20%

High (Less likely) < 2%

Extreme (Unlikely) < 0.5%

<20%

<10%

< 4%

< 1%

<5

5-10

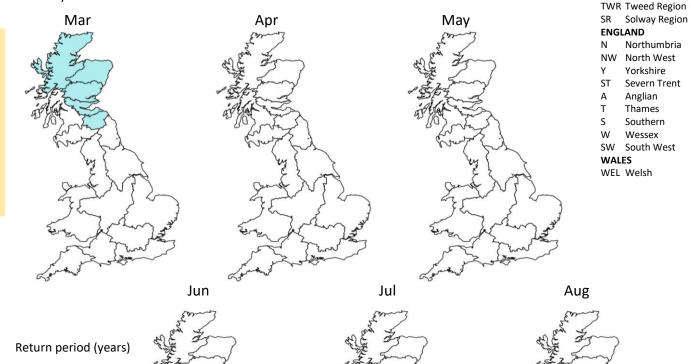
10-25

25-50

50-100

100-200

>200



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