Weekly bulletin: Wednesday 19 July to Tuesday 25 July 2023

Summary: It has been another wet week across most of England compared to the previous week. River flows have increased at two-thirds of the sites we report on and are all normal or higher for the time of year.

Rainfall
It has been another wet week across much of England, with central, the north-west and the north-east seeing particularly high totals. Rainfall totals ranged from 19mm in south-east England to 58mm in north-west England (Table 1, Figure 1). Rainfall totals for the month to date range from 134% of the long term average (LTA) in south-east England to 190% of the LTA in central England (Table 1).

River flow
River flows have increased at two-thirds of the sites we report on compared to the previous week. River flows at all the sites we report on were normal or higher for the time of year. 28% of sites were normal, the majority of these sites are in the south-west, south-east and east of England. 33% of sites were above normal for the time of year and 28% of sites are notably high. Six sites (11% of the total), all in the north-west and north-east were exceptionally high for the time of year. (Figure 2).

Outlook
Overnight rainfall should clear eastward through Thursday. It will be generally cloudy with patchy rain with the chance of some sunny spells possible later. Friday will bring rain in the north east, with low cloud and outbreaks of rain clearing quickly elsewhere. The weekend is likely to bring heavy showers with the chance of thunder, although sunshine will bring warm conditions. Monday and Tuesday will see further unsettled weather moving in from the west.

<table>
<thead>
<tr>
<th>Geographic regions</th>
<th>Latest Week: 19 to 25 Jul 2023</th>
<th>Latest month to date: Jul 2023</th>
<th>Last month: Jun 2023</th>
<th>Last 3 months: Apr to Jun 2023</th>
<th>Last 6 months: Jan to Jun 2023</th>
<th>Last 12 months: Jul 2022 to Jun 2023</th>
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<tbody>
<tr>
<td></td>
<td>Total (mm)</td>
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</tbody>
</table>

Table 1 Latest rainfall summary information (Source: Met Office © Crown Copyright, 2023)

Notes: LTA = long term average rainfall for 1961 – 1990. Data for the current month are calculated using MORECS (Met Office Rainfall and Evaporation Calculation System); data for past months are provisional values from the National Climate Information Centre (NCIC). The data are rounded to the nearest millimetre or percent (except when values are less than 1). Recorded amounts of rainfall are likely to be underestimated during snow events.

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Rainfall

10 to 16 May

17 to 23 May

24 to 30 May

31 May to 6 June

7 to 13 June

14 to 20 June

21 to 27 June

28 June to 4 July

5 to 11 July

12 to 18 July

19 to 25 July

**Figure 1** Weekly precipitation across England and Wales for the past 11 weeks. UKPP radar data (Source: Met Office © Crown Copyright, 2023). Note: Images may sometimes include straight lines originating from the centre of the radar, resulting from tall trees and buildings located near the radar installation affecting its performance. This does not reflect actual conditions on the ground. Crown copyright. All rights reserved. Environment Agency, 100024198, 2023.
*‘Naturalised’ flows are provided for the River Thames at Kingston and the River Lee at Feildes Weir.

*Flows may be currently overestimated at these sites so the data should be treated with caution

#Flows may be impacted at these sites by water releases from upstream reservoirs.

Figure 2 Latest daily mean river flow, relative to an analysis of historic daily mean flows, classed by flow percentile for the same time of year\(^2\) (Source: Environment Agency). Crown copyright. All rights reserved. Environment Agency, 100024198, 2023\(^3\).

\(^1\)‘Naturalised’ flows are provided for the River Thames at Kingston and the River Lee at Feildes Weir.

\(^2\)Flows may be currently overestimated at these sites so the data should be treated with caution

\(^3\)Flows may be impacted at these sites by water releases from upstream reservoirs.
River flow 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

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