

METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT OVER GREAT BRITAIN

AT 0900 GMT ON 13 AUGUST 1975



Since the issue of the last bulletin (24 July 1975), when rainfall was widespread, Great Britain has been mainly dry with the exception of the last week of July in Scotland and of two thundery days (4th and 8th August) when thunderstorms were reported nationwide. Scattered thunderstorms also occurred in the south and south-east of England on 31 July, in parts of England and Scotland on 5 August, in East Anglia on 10th, in South-east England on 11th, and in parts of the north of England and southern Scotland on 12th. The largest reported falls of rain were at Mull of Galloway (11mm) on 25 July, at Cape Wrath (13mm) on 26th, at Tiree (13mm) on 28th, at Valley in Anglesey (12mm) on 4 August, at St Mawgan (50mm) on 8th, at St Mawgan and Cudrose (22mm) on 9th and at Carlisle (15mm) on 12th.

Over the whole of Great Britain, deficits have increased somewhat since the last issue. The rainfall of the past week, however, has considerably retarded development in Cornwall and has checked development in West and South-west Wales and in Cumberland. Much of England now has composite deficits of about 130mm and short-rooted deficits of 125mm are to be found in coastal areas of the south of England. Records show that the May-June-July period of 1975, over England and Wales, has been the driest since 1921. The largest composite deficits, amounting to 135mm, exist in the Isle of Wight and in the coastal areas of South-east Devon, Dorset and Hampshire. In contrast, small deficits of 15mm exist in Strathclyde.

RATES OF SUBSCRIPTION: £7.50 per season (post free)

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Issued on 14 August 1975

Fig 2

ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.)

AT 09 GMT ON 13 AUGUST 1975

RIVER AREA	ESTIMATED AREAL	CHANGE DURING THE WEEK ENDING 09 GMT			
	S.M.D. MM	13 AUGUST 75 MM	6 AUGUST 75 MM	30 JUL 75 MM	
Northumbrian	94.9	+ 7.2	+ 15.0	+ 8.6	
Yorkshire	113.2	+ 7.8	+ 12.1	+ 9.3	
Trent	126.5	+ 5.6	+ 7.6	+ 8.2	
Lincolnshire	130.9	+ 5.9	+ 8.7	+ 6.2	
Welland and Nene	130.4	+ 6.3	+ 8.4	+ 7.5	
Great Ouse	130.4	+ 5.5	+ 8.8	+ 7.1	
Norfolk and Suffolk	129.0	+ 5.8	+ 10.5	+ 9.0	
Essex	130.1	+ 5.3	+ 8.5	+ 7.0	
Lee Conservancy	130.8	+ 5.0	+ 7.4	+ 7.2	
Thames Conservancy	131.7	+ 3.2	+ 5.9	+ 7.7	
London Area	131.9	+ 2.8	+ 6.2	+ 8.1	
Kent	131.2	+ 3.5	+ 7.8	+ 7.2	
Sussex	131.5	+ 3.4	+ 6.6	+ 8.3	
Hampshire	132.9	+ 2.3	+ 3.4	+ 6.8	
Isle of Wight	135.3	+ 1.5	+ 1.5	+ 3.2	
Avon and Dorset	133.0	+ 2.4	+ 2.8	+ 6.4	
Devon	124.0	+ 0.7	+ 7.7	+ 13.9	
Cornwall	95.4	- 21.9	+ 11.7	+ 20.8	
Somerset	131.0	+ 2.0	+ 5.0	+ 9.2	
Bristol Avon	132.6	+ 2.4	+ 3.0	+ 7.3	
Severn	123.3	+ 4.8	+ 5.3	+ 8.3	
Wye	117.5	+ 5.4	+ 7.1	+ 10.0	
Urk	108.7	+ 4.7	+ 8.1	+ 12.4	
Glamorgan	106.1	+ 3.0	+ 8.4	+ 15.6	
South West Wales	105.3	- 0.9	+ 10.0	+ 14.2	
Gwynedd	88.0	- 0.1	+ 5.5	+ 9.6	
Dee and Clwyd	90.2	+ 4.3	+ 6.6	+ 8.5	
Mersey and Weaver	119.6	+ 10.4	+ 11.1	+ 7.8	
Lancashire	93.2	+ 8.0	+ 11.6	+ 7.8	
Cumberland	67.9	- 0.8	+ 14.5	+ 5.9	

N.B. Apart from normal changes these differences also reflect retrospective adjustments after receipt of additional data.



ESTIMATED SOIL MOISTURE DEFICIT

0900 GMT... 13 August 1975

Areas with no soil moisture deficit are shaded. Remaining areas bounded by 25, 50, 75, 100 & 125 mm lines

COMPOSITE LAND USE

