

METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL
EVAPOTRANSPIRATION OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 27 AUGUST 1975

Since the issue of the last bulletin (14 August 1975), some parts of Great Britain have experienced rainfall on most days. Rain fell throughout Britain on 14th, 15th and 19th, and thunderstorms were reported on 14th, 20th and 21st (mainly in South, South-east and eastern England, and in eastern Scotland on 14th). On 14th, an exceptional fall of 170.8 mm was recorded at Hampstead in about 2½ hours. During the 16th to 18th, rainfall was widespread over South and South-east England and Wales, and over Scotland on 16th. From 20th to 24th, small amounts of scattered rainfall occurred in England and Wales and thereafter the weather has been dry. Over Scotland, from 20th onwards, rainfall has been more widespread. Apart from the storm at Hampstead, the largest reported falls of rain were at Kinloss (23 mm) on 14th, Lerwick (36 mm) on 15th, Culdrose (32 mm) on 16th, Thorney Island (14 mm) on 18th, Rhoose (10 mm) on 19th, Wick (16 mm) on 21st, Lerwick (10 mm) on 23rd and Kinloss (11 mm) on 24th.

In England and Wales, since the last issue, deficits have been slightly reduced except in East Anglia and South-east England where they have increased. This was due to the widespread rainfall of the first week. During the last week, however, evaporation has been dominant over rainfall and deficits are increasing once more. Rainfall, over Scotland, has brought back to field capacity western parts of the Highlands. The largest computed composite deficits amount to 136 mm in Central London and much of England has SMD greater than 130 mm. The deficits over England and most of Wales are well above the 1941-70 end of month average values. This is most apparent in central, southern and eastern England

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

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Issued on 28 August 1975

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

AT 09 GMT ON 27 AUG 1975

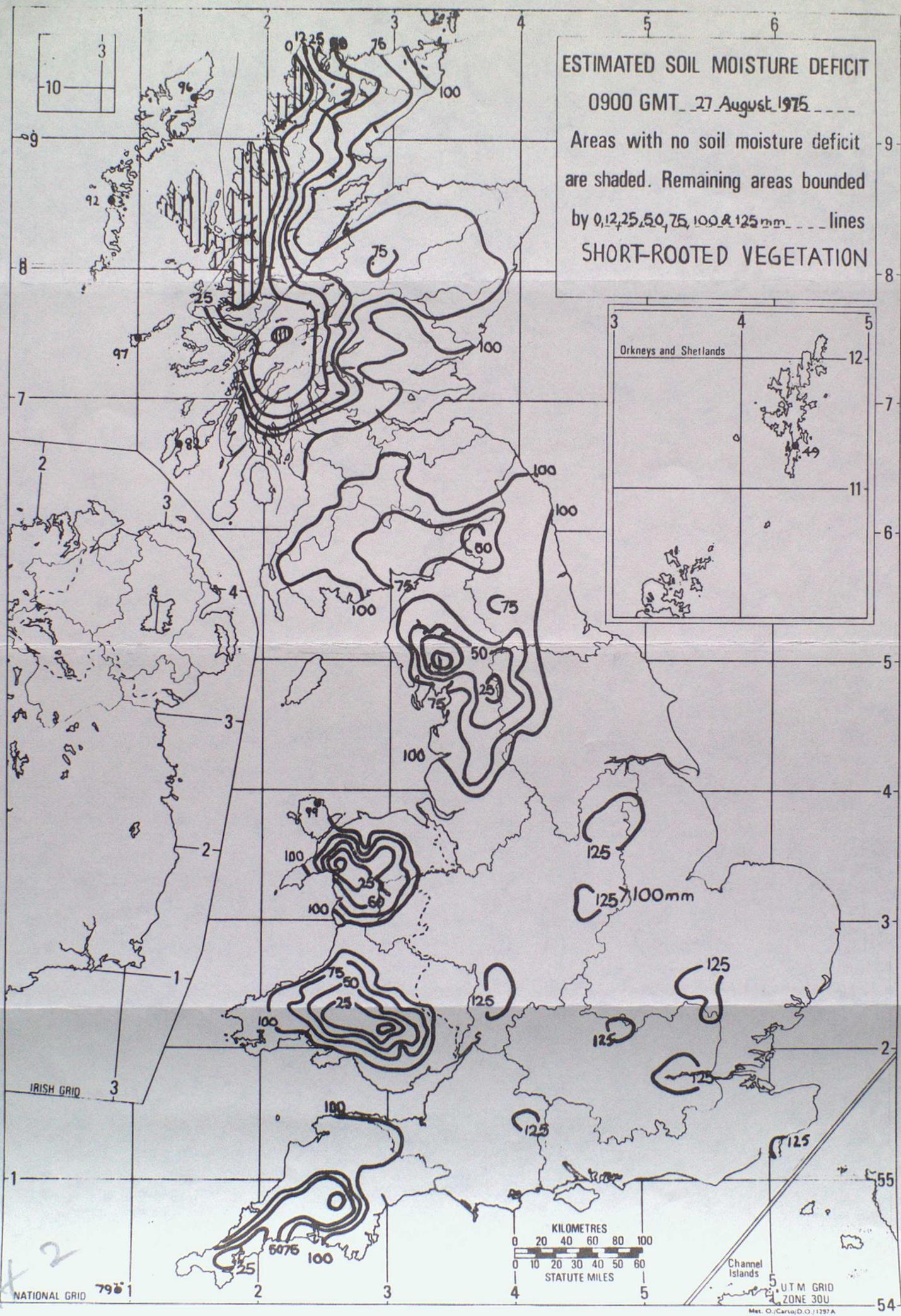
River Area	Estimated Areal	Change during the week ending 09 GMT on	
	S.M.D. mm	27 Aug 75 mm	20 Aug 75 mm
Northumbrian	86.2	+ 10.0	- 18.7
Yorkshire	108.2	+ 7.9	- 12.9
Trent	126.3	+ 4.0	- 4.2
Lincolnshire	132.9	+ 2.3	- 0.3
Welland and Nene	131.7	+ 1.8	- 0.5
Great Ouse	132.2	+ 1.3	+ 0.5
Norfolk and Suffolk	131.1	- 0.5	+ 2.6
Essex	133.9	+ 1.1	+ 2.7
Lee Conservancy	134.8	+ 0.9	+ 3.1
Thames Conservancy	133.2	+ 3.6	- 2.1
London Area	135.0	+ 1.1	+ 2.0
Kent	133.4	+ 1.0	+ 1.2
Sussex	128.9	+ 5.5	- 8.1
Hampshire	127.7	+ 8.3	- 13.5
Isle of Wight	127.4	+ 6.6	- 14.5
Avon and Dorset	129.3	+ 10.0	- 13.7
Devon	108.9	+ 11.0	- 26.1
Cornwall	63.6	+ 10.8	- 42.6
Somerset	124.9	+ 11.9	- 18.0
Bristol Avon	131.3	+ 11.8	- 13.1
Severn	124.2	+ 5.4	- 4.5
Wye	115.3	+ 9.1	- 11.3
Usk	90.2	+ 11.1	- 29.6
Glamorgan	76.5	+ 10.3	- 39.9
South West Wales	81.6	+ 1.1	- 24.8
Gwynedd	83.6	+ 7.9	- 12.3
Dee and Clwyd	90.3	+ 31.8	- 31.7
Mersey and Weaver	114.8	+ 9.2	- 14.0
Lancashire	69.3	+ 11.0	- 34.9
Cumberland	67.2	+ 7.3	- 8.0

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

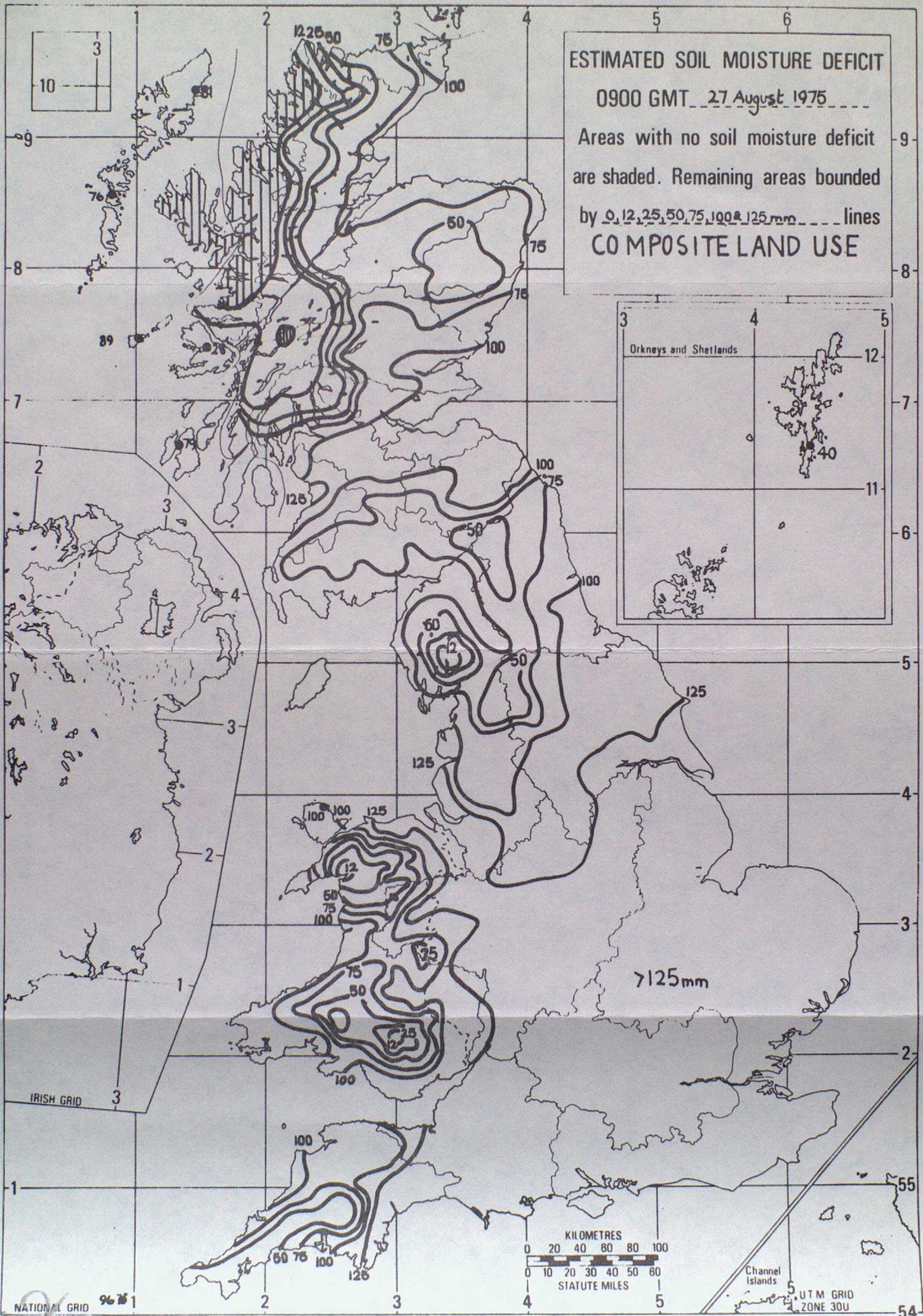
ESTIMATED SOIL MOISTURE DEFICIT

0900 GMT 27 August 1975

Areas with no soil moisture deficit are shaded. Remaining areas bounded by 0, 12, 25, 50, 75, 100 & 125 mm lines
SHORT-ROOTED VEGETATION



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