



METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL  
EVAPOTRANSPIRATION OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 15 JUNE 1977

Between the issue of the previous bulletin (25 May 1977) and 3 June the weather over Great Britain was mainly dry, apart from scattered thundery showers over Wales and the southern half of England on 25 May and rain in Northern Scotland on 3 June. From 4th onwards the weather became generally unsettled, with widespread rain and showers on most days, although it was mainly dry over Scotland on 14th. Some of the rain over England and Wales between 9th and 14th was heavy and thundery. The wettest days over England and Wales were 10th, 12th and 13 June, with 13th also being the wettest day over Scotland. The largest rainfalls (those of 15 mm and above) occurred at Kirkwall (Orkneys) 18 mm on 4th, Edinburgh 31 mm on 6th, Filton 24 mm on 9th, Rhoose 33 mm on 10th, Boscombe Down 41 mm on 12th, Finningley 29 mm on 13th and Cardington 16 mm on 14 June.

During the period 25 May to 8 June deficits over Britain were generally increasing, more especially during the first week. However from 9th onwards an overall decrease in deficits occurred, with parts of upland areas of Wales, the Pennines and the Cotswolds returning to field capacity. Over parts of East Anglia and Lincolnshire composite land use deficits are near or a little below average for this time of year; whilst the rest of England and Wales now has deficits well below average. The largest deficits are at Lowestoft (106 and 89 mm respectively for short rooted and composite land uses).

RATES OF SUBSCRIPTION: £10.00 per season (post free)

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ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.)  
AT 09 GMT ON 15 JUNE 1977

River Area	Estimated Areal	Change during the week ending 09 GMT on		
	S.M.D. mm	15 Jun 77 mm	8 Jun 77 mm	1 Jun 77 mm
Northumbrian	34.0	- 20.8	+ 2.5	+ 20.9
Yorkshire	31.1	- 36.1	+ 8.2	+ 23.7
Trent	37.0	- 35.5	+ 11.5	+ 22.8
Lincolnshire	66.0	- 13.7	+ 11.9	+ 26.5
Welland and Nene	54.1	- 27.9	+ 13.7	+ 24.4
Great Ouse	48.8	- 29.6	+ 13.0	+ 23.9
Norfolk and Suffolk	76.8	- 2.2	+ 10.7	+ 25.1
Essex	66.4	- 17.2	+ 9.2	+ 23.9
Lee Division	58.1	- 24.3	+ 12.2	+ 23.9
Thames Conservancy	31.9	- 41.9	+ 15.3	+ 20.2
London Area	42.1	- 27.4	+ 12.0	+ 18.9
Kent	48.4	- 20.8	+ 12.7	+ 22.4
Sussex	41.8	- 25.9	+ 12.0	+ 18.9
Hampshire	24.5	- 43.1	+ 14.4	+ 18.0
Isle of Wight	62.7	- 20.1	+ 12.2	+ 18.1
Avon and Dorset	16.8	- 50.8	+ 16.9	+ 18.6
Devon	31.9	- 34.2	+ 16.3	+ 16.3
Cornwall	30.1	- 25.9	+ 15.2	+ 15.5
Somerset	27.3	- 43.4	+ 16.2	+ 17.8
Bristol Avon	22.0	- 49.5	+ 16.6	+ 19.4
Severn	21.9	- 49.5	+ 14.1	+ 22.3
Wye	13.5	- 50.6	+ 12.9	+ 18.9
Usk	12.0	- 45.7	+ 10.2	+ 14.3
Glamorgan	23.3	- 31.7	+ 8.4	+ 11.7
South West Wales	23.5	- 23.9	+ 5.5	+ 11.1
Gwynedd	28.7	- 24.6	+ 3.5	+ 18.2
Dee and Clwyd	25.7	- 33.1	+ 4.4	+ 20.3
Mersey and Weaver	19.4	- 46.4	+ 5.8	+ 24.3
Lancashire	21.2	- 43.9	+ 2.2	+ 27.5
Cumbria	31.2	- 19.6	+ 0.7	+ 23.2

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







