

METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL

EVAPOTRANSPIRATION OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 9 JUNE 1982



The weather of the last fortnight over Great Britain has been characterised by long dry periods, mostly sunny and warm but with some mist or fog in places, interspersed with showers. Many of the showers were accompanied by heavy rain and thunder and sometimes the storms were more organised giving longer periods of rain. On the other hand some places, parts of South Wales and southwest England for example, have had no rain at all during the last fortnight.

The wettest day generally over England and Wales was 26th May with a general rainfall value of 8.6 mm for the 0900 to 0900 rainfall day, most of this rain however fell in the evening and only affected an area southeast of a line from the Humber to Dorset.

The wettest day generally over Scotland was the 6th June with a general value of 3.2 mm, when storms, some with thunder, affected an area stretching from north western Scotland to south eastern England. The 6th was also the second wettest day of the period over England and Wales which had a general value of 4.5 mm for the rainfall day.

The following are among the heaviest 24 hour rainfall day totals we have so far received during the period.

26th May : 30 mm over Marham in East Anglia
 26th May : 33 mm over Wattisham in East Anglia
 1st June : 30 mm over Linton-on-Ouse in Yorkshire
 1st June : 31 mm over Emley Moor in Yorkshire
 3rd June : 39 mm over Lynham in Wiltshire
 6th June : 41 mm over Carlisle in Cumbria
 6th June : 50 mm over Wilsden in Yorkshire

We have also received a few more detailed reports of severe storms which occurred during the last fortnight, we are very grateful to the people who sent these to us. Among those received are the following:

27th May : 41.1 mm fell between 0750 and 1050 GMT at Wattisham of which 24 mm fell in the 30 minute period beginning 0835 GMT.
 1st June : 43.8 mm fell in 50 mins starting at 1228 GMT at Cavendish in East Anglia.
 2nd June : 90.2 mm between 1800 and 2000 GMT at Wootton Bassett when hailstones caused damage and extensive flooding occurred.
 2nd June : 32 mm fell in 70 minutes from 1530 GMT at Kew Gardens.
 3rd June : 38.9 mm fell in 2 hours over Lynham in Wiltshire.
 6th June : 24 mm fell in 1 hour from 1532 at Cavendish in East Anglia.

In spite of the recent thunderstorms deficits in most areas are higher than they were a fortnight ago, although there are some places which had frequent or severe storms where deficits have decreased.

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ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.) AT 09 GMT ON 9 JUNE 1982

RIVER AREA	AREAL LAND USE ESTIMATED S.M.D. MM	CHANGE DURING THE WEEK ENDING 09 GMT ON	
		9 JUNE 82 MM	2 JUNE 82 MM
NORTHUMBRIAN	79.6	+ 1.1	+ 15.8
YORKSHIRE	90.6	- 2.1	+ 12.6
TRENT	83.2	- 1.6	+ 12.0
LINCOLNSHIRE	103.5	- 0.3	+ 7.2
WELLAND AND NENE	89.2	+ 1.0	+ 3.0
GREAT OUSE	81.3	+ 2.0	+ 0.9
NORFOLK AND SUFFOLK	91.1	+ 4.4	- 1.6
ESSEX	95.0	+ 10.6	+ 1.2
LEE DIVISION	74.3	+ 8.6	+ 2.4
THAMES CONSERVANCY	73.5	+ 5.5	+ 6.7
LONDON AREA	72.0	+ 7.6	+ 2.6
KENT	97.4	+ 10.0	+ 7.6
SUSSEX	81.2	+ 9.3	+ 7.3
HAMPSHIRE	76.5	+ 11.2	+ 8.4
ISLE OF WIGHT	85.6	+ 16.0	+ 14.3
UPPER THAMES	85.4	+ 0.4	+ 11.0
AVON AND DORSET	84.9	+ 6.0	+ 14.7
DEVON	86.1	+ 10.5	+ 18.9
CORNWALL	78.4	+ 14.4	+ 21.3
SOMERSET	87.1	+ 6.2	+ 15.7
BRISTOL AVON	84.3	- 2.1	+ 12.1
SEVERN	81.5	+ 1.6	+ 12.7
WYE	89.1	+ 4.7	+ 15.8
USK	87.7	+ 6.0	+ 16.7
GLAMORGAN	86.6	+ 8.4	+ 18.0
SOUTH WEST WALES	88.1	+ 10.9	+ 18.4
GWYNEDD	75.9	+ 10.1	+ 16.2
DEE AND CLWYD	74.3	+ 6.9	+ 16.2
MERSEY AND WEAVER	75.7	- 1.1	+ 17.2
LANCASHIRE	71.3	+ 0.2	+ 19.4
CUMBRIA	64.2	+ 1.1	+ 16.5

NB APART FROM NORMAL CHANGES THESE DIFFERENCES ALSO REFLECT RETROSPECTIVE ADJUSTMENTS AFTER RECEIPT OF ADDITIONAL DATA.



