



METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL
EVAPOTRANSPIRATION OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 25 SEPTEMBER 1974

Since the issue of the last bulletin (0900 GMT 11 September 1974) the weather has continued to be generally very wet and many areas have received more than 50 mm of rain. North-East England and the eastern coast of Scotland have been the areas least affected. Thunderstorms were reported in many places south of the Scottish Lowlands on the 12th and over eastern England especially East Anglia on the 23rd.

Deficits have decreased considerably in most areas especially southern England, coastal Lancashire and North Wales, and the Central Lowlands of Scotland. Owing to the patchy nature of the past fortnight's rain the deficits over some eastern districts of England have increased slightly whilst those around the Moray Firth and over the north-east Grampians have remained about the same. Soils have recently returned to field capacity with regards to short rooted vegetation over Dorset, the Isle of Wight and much of Hampshire and Wiltshire. A great deal of the rest of Southern England is also close to field capacity. The largest deficits in the short-rooted zone are around 100 mm and exist over south Lincolnshire and the coastal area around the Moray Firth.

RATES OF SUBSCRIPTION: £4.00 per session (post free)

Apply to: Director-General
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Issued on 26 September 1974

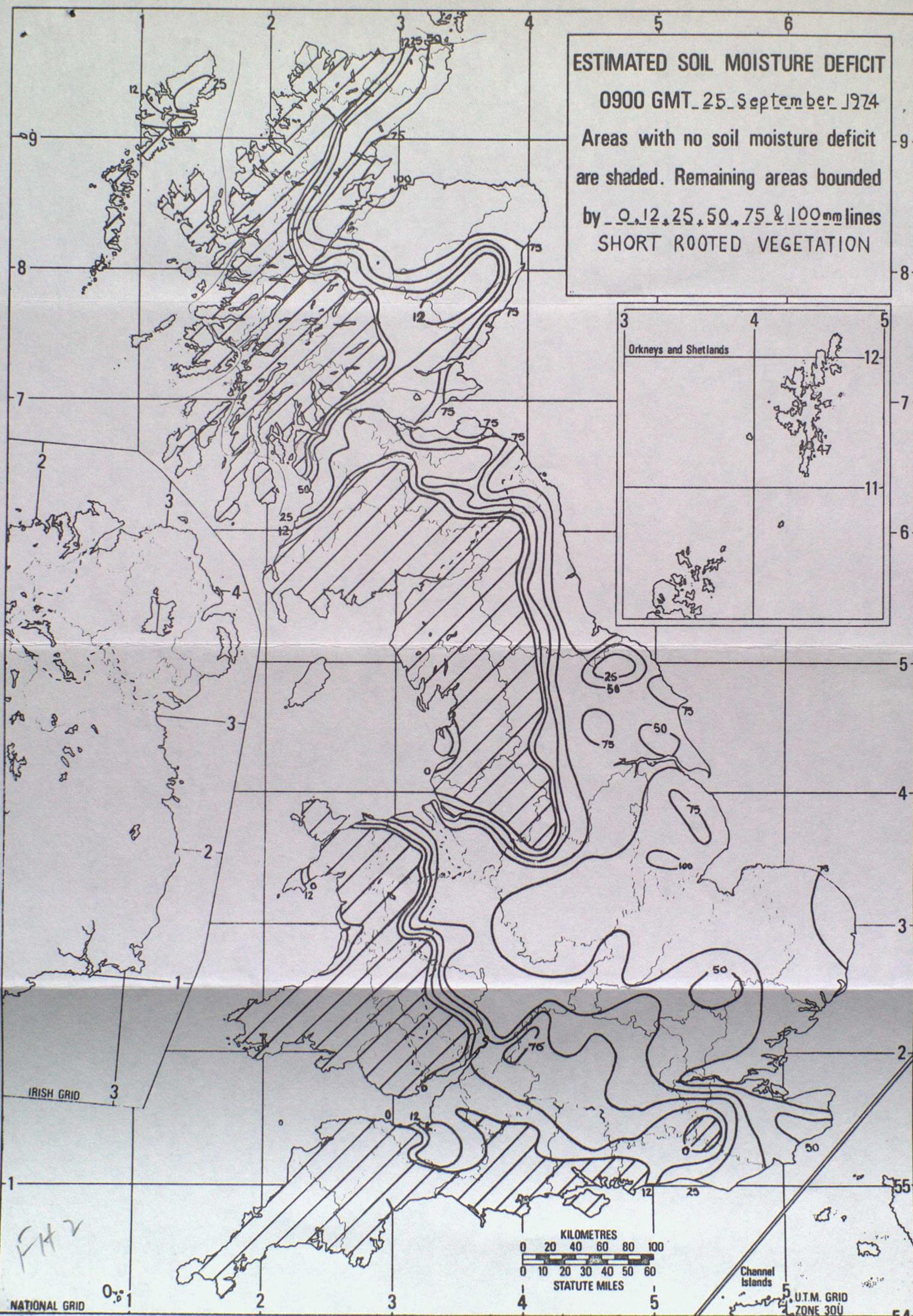
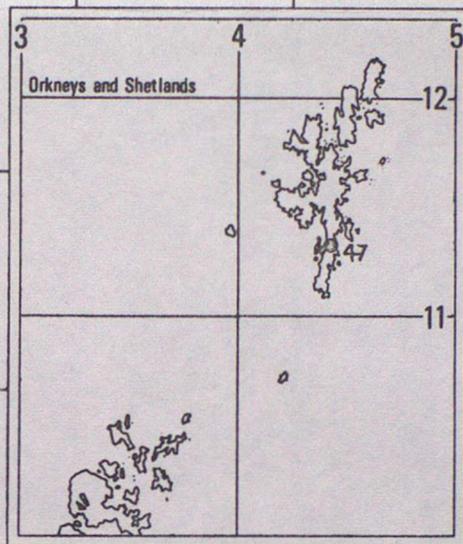
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ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.)
AT 09 GMT ON 25 SEP 1974

River Authority Area	Estimated Areal S.M.D. mm	Change during the Week ending 09 GMT on	
		25 Sep 74 mm	18 Sep 74 mm
Northumbrian	52.1	- 5.7	+ 1.0
Yorkshire	48.3	- 10.0	+ 5.6
Trent	66.7	- 4.5	+ 2.8
Lincolnshire	98.2	- 2.3	+ 0.4
Welland and Nene	95.6	- 3.4	0.0
Great Ouse	82.6	- 9.7	- 7.0
East Suffolk and Norfolk	95.3	- 16.4	+ 11.6
Essex	98.9	- 11.2	- 4.8
Lee Conservancy	87.0	- 9.8	0.0
Thames Conservancy	45.4	- 10.5	- 11.6
London Area	62.1	- 14.4	+ 2.6
Kent	66.9	- 16.2	- 0.1
Sussex	26.9	- 16.6	+ 0.4
Hampshire	18.9	- 12.4	- 5.2
Isle of Wight	29.3	- 8.5	- 9.0
Avon and Dorset	18.0	- 8.7	- 4.7
Devon	10.7	- 4.7	- 5.0
Cornwall	3.1	- 1.4	- 3.7
Somerset	20.8	- 8.2	- 4.9
Bristol Avon	27.8	- 9.3	- 8.9
Severn	63.2	- 4.4	- 4.6
Wye	26.3	- 2.6	- 5.3
Usk	0.6	- 4.0	- 6.6
Glamorgan	1.0	- 6.7	- 7.2
South West Wales	2.3	- 1.3	- 7.1
Gwynedd	13.3	- 4.6	- 9.4
Dee and Clwyd	30.0	- 7.2	- 1.5
Mersey and Weaver	27.7	- 8.9	+ 1.2
Lancashire	7.6	- 4.8	- 1.7
Cumberland	2.5	- 3.0	- 3.9

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

ESTIMATED SOIL MOISTURE DEFICIT
0900 GMT_25 September 1974
 Areas with no soil moisture deficit
 are shaded. Remaining areas bounded
 by 0, 12, 25, 50, 75 & 100 mm lines
SHORT ROOTED VEGETATION



Channel Islands
 U.T.M. GRID
 ZONE 30U

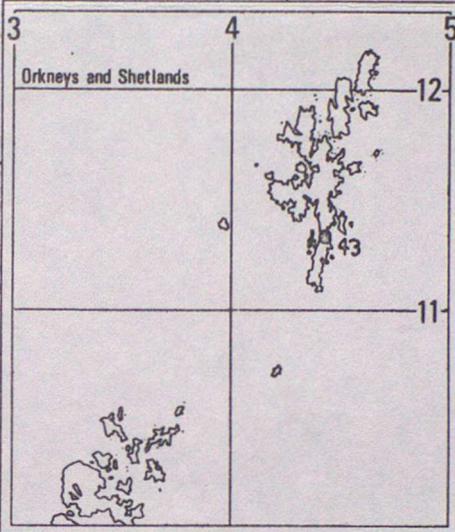
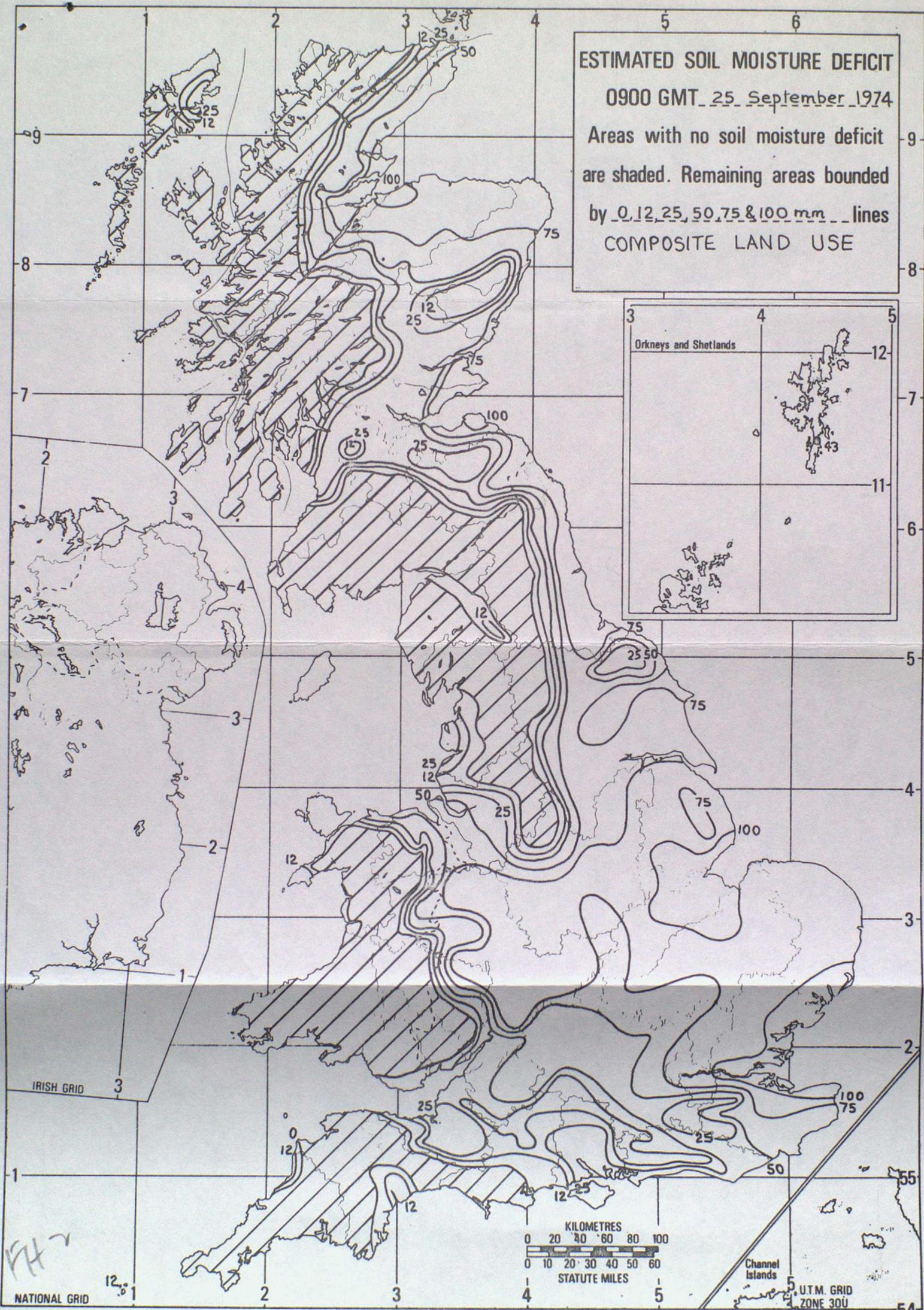
NATIONAL GRID

FH 2

ESTIMATED SOIL MOISTURE DEFICIT

0900 GMT 25 September 1974

Areas with no soil moisture deficit are shaded. Remaining areas bounded by 0, 12, 25, 50, 75 & 100 mm lines
COMPOSITE LAND USE



Channel Islands
UTM GRID
ZONE 30U

IRISH GRID
NATIONAL GRID