

METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL
EVAPOTRANSPIRATION OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 23 OCTOBER 1974

The unsettled weather has continued since the issue of the last Soil Moisture Deficit Bulletin (9 October 1974) and there have been no generally dry days. From 11th to 14th and again on 22 October the rainfall was localized whilst 15th, 18th and 19th over England and Wales and 17th over Scotland were generally wet with large amounts of rain falling locally.

The dry day in many parts on 22 October resulted in insignificant deficits developing but soils in the greater part of the area on the maps with a deficit of less than 12 millimetres can be considered as at field capacity for all practical purposes. The only remaining localities with significant deficits with regards to short rooted vegetation are eastern Scotland, parts of northeast England and the northeast and west Midlands. Values in these English areas have decreased by some 20 millimetres in the last two weeks but in east Scotland the decrease has been slower.

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

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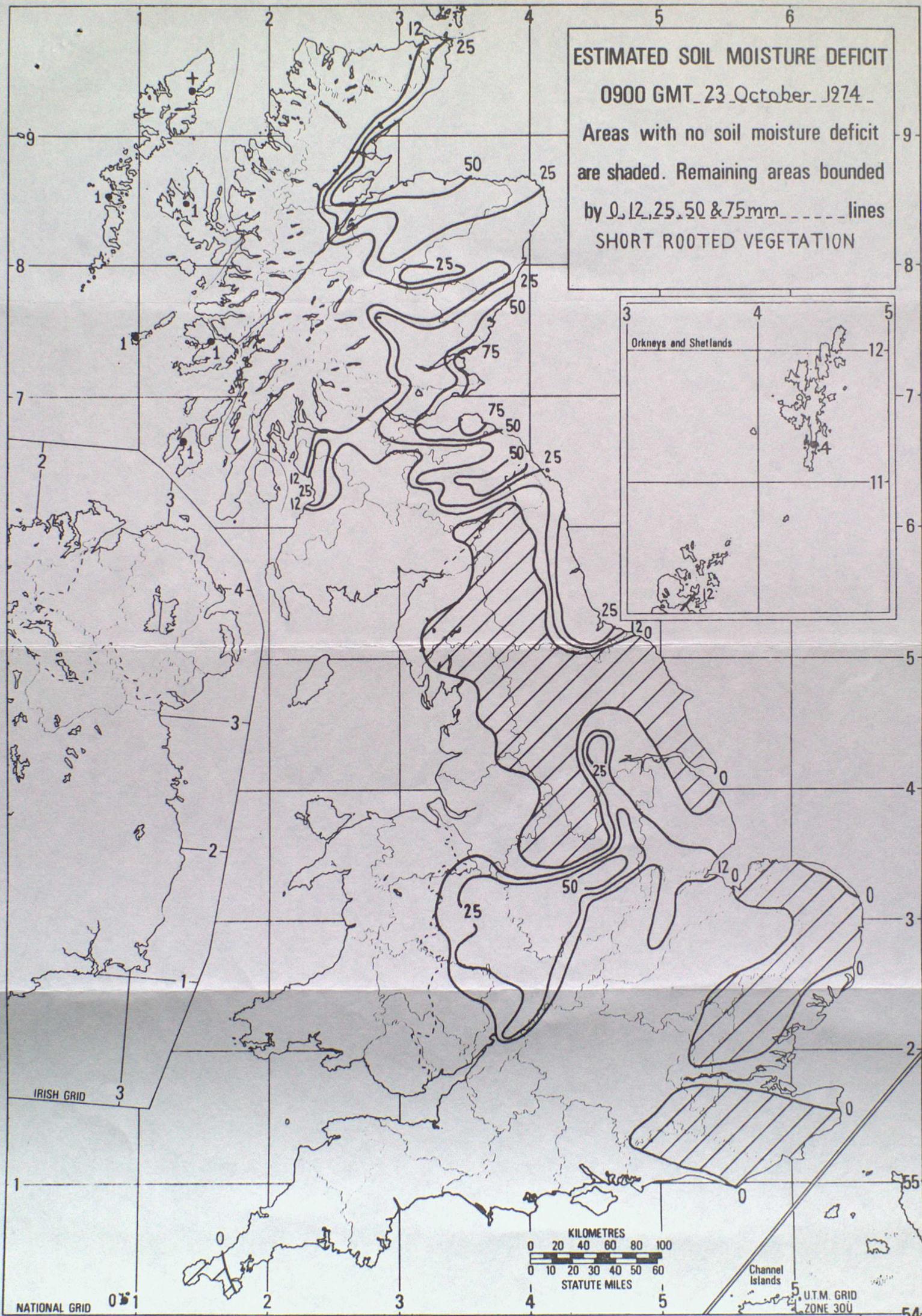
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Issued on 24 October 1974

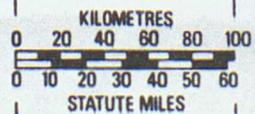
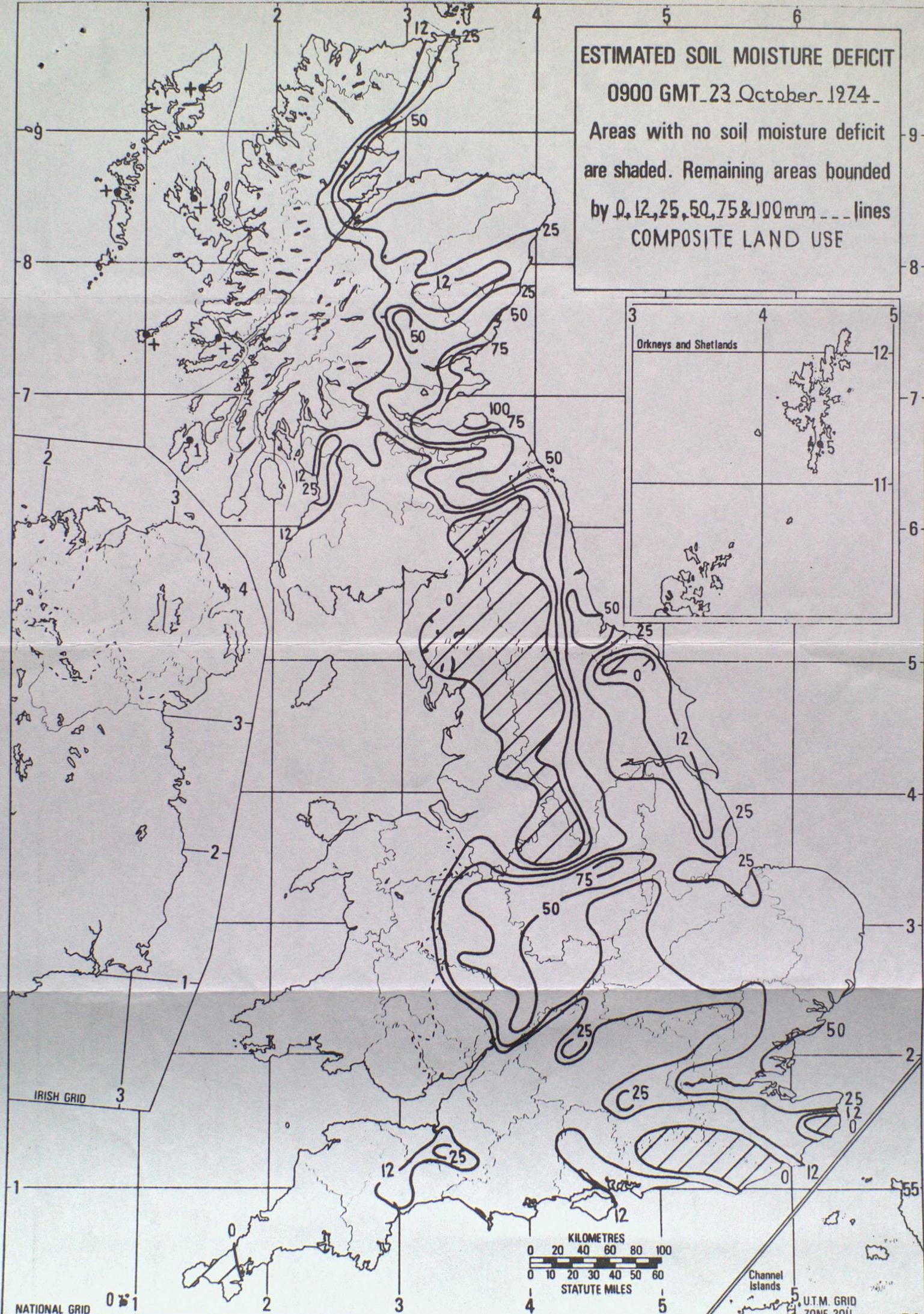
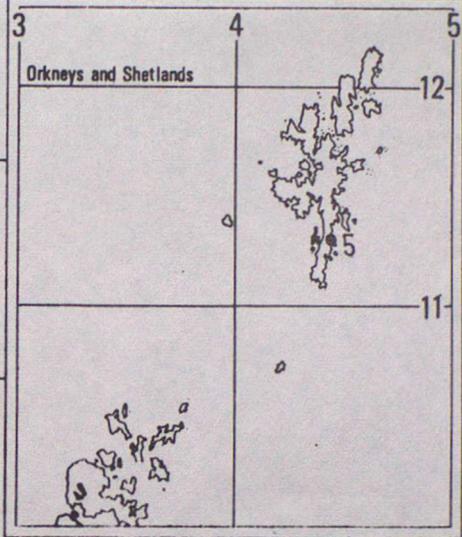
ESTIMATED SOIL MOISTURE DEFICIT (S.M.D.)
AT 09 GMT ON 23 OCT 1974

River Area	Estimated Areal S.M.D. mm	Change during the Week ending 09 GMT on	
		23 Oct 74 mm	16 Oct 74 mm
Northumbrian	20.7	- 4.4	- 14.5
Yorkshire	13.2	- 3.5	- 5.5
Trent	23.2	- 6.6	- 4.4
Lincolnshire	35.5	- 6.1	- 4.9
Welland and Nene	29.9	- 8.0	- 9.8
Great Ouse	22.9	- 8.8	- 6.4
Norfolk and Suffolk	33.5	- 7.8	- 8.0
Essex	41.8	- 7.5	- 8.3
Lee Conservancy	25.3	- 7.3	- 8.5
Thames Conservancy	14.1	- 5.6	- 3.9
London Area	24.0	- 9.3	- 5.2
Kent	17.4	- 6.3	- 2.9
Sussex	3.2	- 2.6	- 1.4
Hampshire	6.7	- 2.2	- 0.8
Isle of Wight	10.4	- 7.8	- 0.8
Avon and Dorset	5.6	- 1.6	- 0.3
Devon	6.2	+ 0.3	- 1.0
Cornwall	0.3	+ 0.3	- 0.7
Somerset	8.5	+ 0.4	- 0.9
Bristol Avon	5.7	- 3.0	+ 0.1
Severn	28.4	- 9.2	- 3.8
Wye	12.2	- 3.7	- 1.1
Usk	0.6	+ 0.4	- 0.5
Glamorgan	0.6	+ 0.3	- 0.3
South West Wales	0.4	+ 0.4	- 0.3
Gwynedd	1.5	- 3.0	- 0.5
Dee and Clwyd	2.6	- 9.1	- 1.0
Mersey and Weaver	1.5	- 5.6	- 2.6
Lancashire	0.9	- 1.9	- 0.6
Cumberland	0.6	- 0.7	- 0.7

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



ESTIMATED SOIL MOISTURE DEFICIT
0900 GMT 23 October 1974
 Areas with no soil moisture deficit are shaded. Remaining areas bounded by 0, 12, 25, 50, 75 & 100 mm --- lines
COMPOSITE LAND USE



NATIONAL GRID 0 1

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