

C
13 JUN 1974

METEOROLOGICAL OFFICE

ESTIMATED SOIL MOISTURE DEFICIT AND POTENTIAL EVAPOTRANSPIRATION
OVER GREAT BRITAIN

SOIL MOISTURE DEFICIT AT 0900 GMT ON 12 MAY 1974

~~MAY~~
JUNE
Following the issue of the last bulletin (29 May 1974) England and Wales were generally quite dry until 4 June. The next 5 days were showery over England and Wales and thunderstorms were fairly widespread on 6 June and again on 9 June. Generally the showers were heaviest over northern England. So far the June rainfall has generally been about average over England and Wales and well above average over Scotland particularly over northern and western districts.

Deficits are still increasing over most of England and Wales although the increases have been relatively small over north-west England. The deficits over most of eastern Scotland are still increasing but the recent rain has reduced deficits to near zero in parts of west Scotland. Short-rooted deficits in excess of 100 mms now exist over most of eastern and southern England and also over the central Lancashire coastal area and parts of the central lowlands of Scotland.

Provisional totals of rainfall for April and May combined are the lowest since 1896 over England and Wales and the lowest since comparable records began in 1869 over Scotland. Over much of Lincolnshire and around the Wash, provisional end of May soil moisture deficits were the highest in a 34 year period of records. At many other places in England there were only one or two years with higher end of May soil moisture deficits. Years in which notably high end of May deficits occurred are 1964, 1956 and 1957.

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

Apply to: Director-General
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Bracknell
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FH 2

ESTIMATED SOIL MOISTURE DEFICIT (SMD) AT 09 GMT ON 12 JUNE 1974

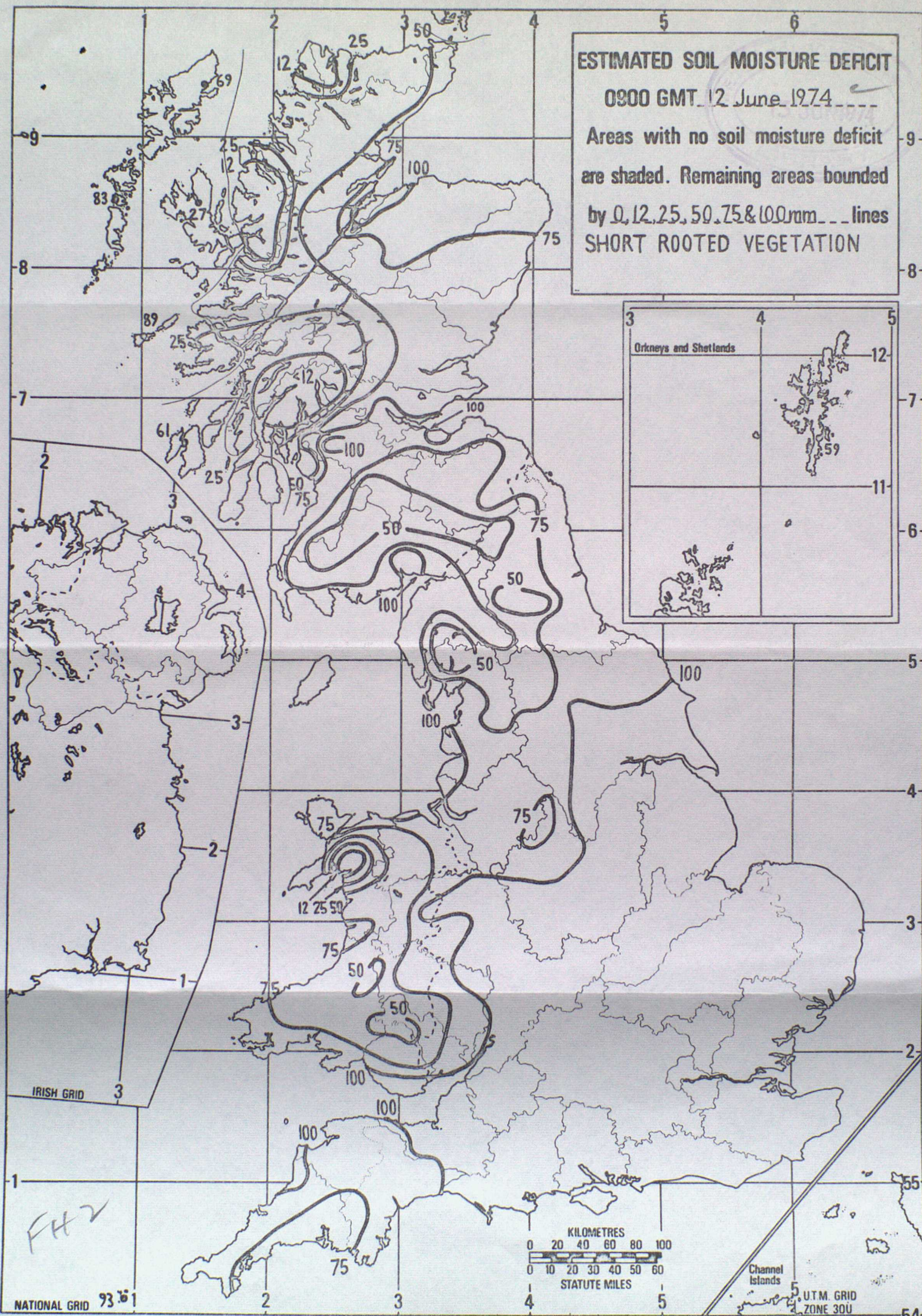
River Authority Area	Estimated Areal SMD mm	Change During the Week Ending 09 GMT on	
		12 June 74 mm	5 June 74 mm
Northumbrian	63.2	- 6.8	+16.7
Yorkshire	76.0	- 3.1	+18.5
Trent	85.6	+ 1.8	+14.5
Lincolnshire	105.4	+ 4.3	+13.7
Welland and Nene	105.6	+ 5.7	+13.2
Great Ouse	106.3	+ 6.3	+12.1
East Suffolk and Norfolk	105.0	+ 3.1	+10.1
Essex	114.1	+ 3.4	+ 9.5
Lee Conservancy	101.6	+ 4.8	+11.3
Thames Conservancy	94.2	+ 5.2	+13.2
London Area	102.7	+ 4.2	+10.0
Kent	97.2	+ 0.7	+ 8.2
Sussex	93.2	+ 1.1	+ 8.5
Hampshire	93.2	+ 4.7	+ 9.6
Isle of Wight	102.4	+ 8.0	+ 5.0
Avon and Dorset	88.6	+ 8.8	+14.2
Devon	73.1	+ 8.9	+15.1
Cornwall	66.3	+12.9	+18.5
Somerset	85.8	+ 7.9	+14.4
Bristol Avon	89.4	+ 5.8	+14.9
Severn	85.2	+ 3.5	+14.7
Wye	73.3	+ 0.2	+14.7
Usk	64.2	- 1.5	+14.1
Glamorgan	63.9	+ 0.8	+ 8.4
South West Wales	58.4	- 2.8	+ 9.8
Gwynedd	51.1	- 8.9	+10.9
Dee and Clwyd	52.7	-11.0	+12.0
Mersey and Weaver	70.8	- 8.6	+18.3
Lancashire	68.2	-15.4	+16.9
Cumberland	67.7	-11.6	+13.3

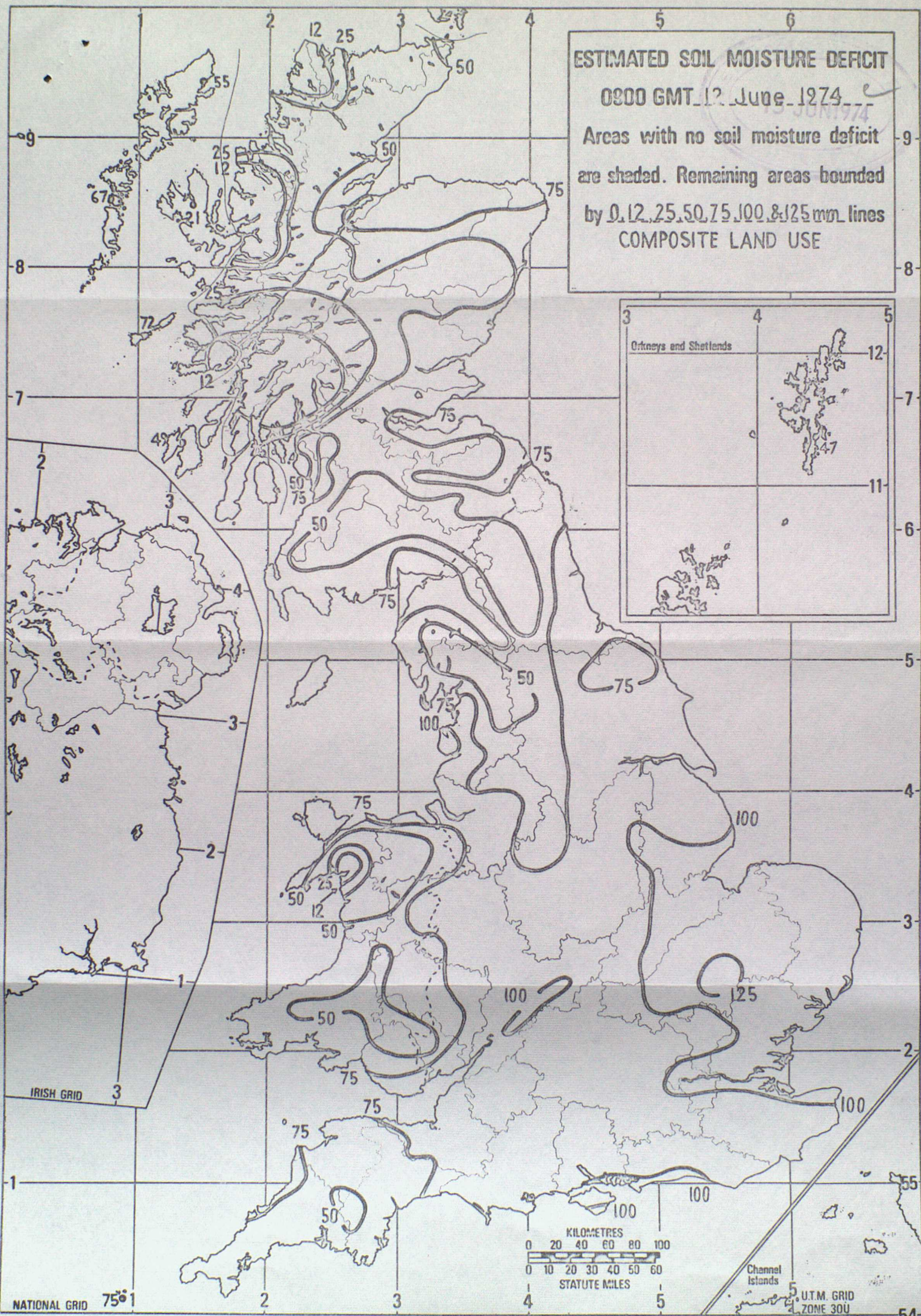
NB. Apart from normal changes these differences also reflect retrospective adjustments after receipt of additional data.

ESTIMATED SOIL MOISTURE DEFICIT

0900 GMT 12 June 1974

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

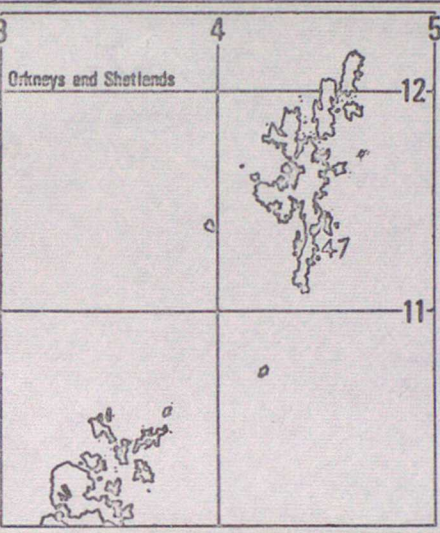




ESTIMATED SOIL MOISTURE DEFICIT

0900 GMT 12 June 1974

Areas with no soil moisture deficit are shaded. Remaining areas bounded by 0, 12, 25, 50, 75, 100, & 125 mm lines
COMPOSITE LAND USE



NATIONAL GRID 75° 1

U.T.M. GRID ZONE 30U