

# Linhope SERIES

## A. SOIL MAP UNIT DESCRIPTION

### SOIL CLASSIFICATION

SCOT: Brown forest soils

SSEW: Typical brown earths or typical brown podzolic soils

### SOIL ASSOCIATION

ETTRICK

### PARENT MATERIAL

Clay loam drifts derived from Ordovician and Silurian greywackes and shales. Solifluction and colluvial deposits on steep slopes, deep (> 1 m) till in drumlins, shallow (< 1 m) till on undulating ground.

### DRAINAGE CLASS

Free

### PERMEABILITY CLASS

Moderate

### REFERENCES

*soil maps* —

1:63 360 sheets

1/2/3/4 (Stranraer/  
Wigtown)

7/8 (Girvan/Carrick)

17 (Jedburgh)

18 (Morebattle)

24/32 (Peebles/Edinburgh)

25 (Kelso)

26 (Berwick-on-Tweed)

33/34 (Haddington/  
Eyemouth)

*memoirs* —

Soils round Stranraer and  
Wigtown

Soils of Carrick and round  
Girvan

Soils round Jedburgh and  
Morebattle

Soils round Kelso and  
Lauder

Soils round Haddington and  
Eyemouth

Compiled by D.J. Henderson  
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### LOCATION AND EXTENT

Widespread throughout the Southern Uplands: extensive in the Lammermuir, Moorfoot and Peeblesshire Hills, around Hawick and in Galloway. 800 sq km.

### LANDFORM

Long, planar and convex, steep and moderate slopes predominant, some areas of undulating terrain, drumlins common in Galloway. Altitudinal range 0-200 m in the west and up to 300 m in the east.

### VEGETATION

Bent-fescue grasslands, often with bracken; arable and permanent pastures; some woodlands.

### CLIMATE

	<i>South-west</i>	<i>South-east</i>	<i>Hill areas</i>
<i>av. ann. rainfall, mm</i>	1080	730-895	1200-1600
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	1260-1430	1180-1340	no data
<i>maximum PSMD, mm</i>	100	150	<50
<i>growing season, days</i>	250	215-220	no data
<i>field capacity</i>	early Oct to early Mar	mid-Nov to early Mar	no data

### SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	brown to dark greyish brown	strong brown to yellowish brown
<i>texture</i>	clay loam	clay loam, sandy loam or sandy clay loam
<i>structure</i>	moderate medium subangular blocky	weak medium subangular blocky
<i>stone content</i>	slightly or moderately stony	moderately or very stony
<i>potential rooting depth</i>	at least 50 cm, except locally where rock or induration occurs within this depth	
COMMENT	Free drainage, stoniness and, under semi- natural conditions, moderately strong acidity are the principal features of this soil.	

### SOIL CHEMISTRY

Under semi-natural conditions these soils are acid (pH around 5) and contents of exchangeable bases and percentage base saturation are low. Extractable iron and aluminium weathering products high. Low available cobalt and copper in some soils.

### MAP UNIT VARIATION

Very bouldery and stony morainic drifts occur north-west of Newton Stewart, giving soils with loamy sand subsoils.