

SOIL CLASSIFICATION

SCOT: Brown forest
soils
SSEW: Typical brown
earths

SOIL ASSOCIATION

HOBKIRK

PARENT MATERIAL

Red, sandy loam till
derived from sandstones
and marls of Upper Old
Red Sandstone age.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Rapid

REFERENCES

soil maps —
1:63 360 sheets
17 (Jedburgh)
18 (Morebattle)
25 (Kelso)
26 (Berwick-on-Tweed)
33/34 (Haddington/
Eyemouth)

memoirs —

Soils round Jedburgh and
Morebattle
Soils round Kelso and
Lauder
Soils round Haddington and
Eyemouth

LOCATION AND EXTENT

In S.E. Scotland around Gordon, Greenlaw and Polwarth;
between Gifford, Carfrae, Stenton and Dunbar; around
Chirnside and Duns in the Border Lowlands; and one
large area round Jedburgh. 330 sq km.

LANDFORM

Undulating lowlands and hills with gentle to strong
slopes.

VEGETATION

Arable and permanent pastures; some common bent-
fescue grassland.

CLIMATE

| | |
|--|----------------------------------|
| <i>av. ann. rainfall, mm</i> | 730-895 |
| <i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i> | 1080-1340 |
| <i>maximum PSMD, mm</i> | 40-160 |
| <i>growing season, days</i> | 215-220 |
| <i>field capacity</i> | mid- or late Oct to early Mar |

SOIL DESCRIPTION

| | <i>topsoil</i> | <i>subsoil</i> |
|--------------------------------|---|--|
| <i>colour</i> | dark reddish brown | reddish brown to red |
| <i>texture</i> | sandy loam | sandy loam |
| <i>structure</i> | weak fine granular | weak fine subangular blocky or massive |
| <i>stone content</i> | slightly stony | slightly stony |
| <i>potential rooting depth</i> | 50-100 cm, depending on depth to underlying rock or presence of induration in the subsoil. | |
| COMMENT | The principal features of these soils are the reddish colour, sandy loam texture, and free drainage. The underlying rock, sandstone, can be soft and weathered, and usually occurs within 50-100 cm from the surface. | |

SOIL CHEMISTRY

pH and percentage base saturation values are generally high; highest values occur where the till contains marl.

MAP UNIT VARIATION

The till tends to be stonier and coarser textured on hill slopes and ridges. Imperfectly drained soils (Pressmennan Series) occur locally.