

Sourhope SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Brown forest
soils
SSEW: Typical brown
earths

SOIL ASSOCIATION

SOURHOPE

PARENT MATERIAL

Intermediate lavas of
Lower Old Red Sandstone
age and their derived
drifts; principally residual
or colluvial stony sandy
loams, occasionally fine-
textured till.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Moderate

REFERENCES

soil maps —
1:63 360 sheets
18 (Morebattle)
23 (Hamilton)
24/32 (Peebles/Edinburgh)
25 (Kelso)
26 (Berwick-on-Tweed)
39 (Stirling)
40/41 (Kinross/Elie)
47 (Crieff)
48/49 (Perth/Arbroath)
56 (Blairgowrie)

memoirs —
Soils round Jedburgh and
Morebattle
Soils round Kelso and
Lauder
Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

Ochil Hills (300 sq km); Sidlaw Hills (30 sq km); Cheviot
foothills (115 sq km); Tinto Hills (13 sq km); Pentland Hills
(20 sq km); Highland Boundary Fault Zone (5 sq km). Total
483 sq km.

LANDFORM

Hills, often steeply sloping with outcrops of rock in some
areas.

VEGETATION

Permanent pastures; bent-fescue grasslands; arable;
broad-leaved woodlands.

CLIMATE

	<i>Arable Land</i>	<i>Hill Ground</i>
<i>av. ann. rainfall, mm</i>	900-1100	>1000
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	no data	no data
<i>maximum PSMD, mm</i>	50-70	50
<i>growing season, days</i>	no data	no data
<i>field capacity</i>	no data	no data

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark brown or dark greyish brown	brown or reddish brown
<i>texture</i>	sandy silt loam or sandy loam	sandy silt loam or silt loam
<i>structure</i>	moderate subangular blocky	weak angular blocky or massive
<i>stone content</i>	moderately stony	moderately to very stony depending on depth of rock
<i>potential rooting depth</i>	generally to rock or induration at approximately 40-60 cm depth	

COMMENT

A moderately stony to very stony, free
draining sandy silt loam or sandy loam
soil found typically on hill slopes.
Induration may occur in the subsoil.

SOIL CHEMISTRY

Total phosphorus high in topsoils.

MAP UNIT VARIATION

Depth to rock and stoniness variable.