

Cauldside SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Noncalcareous
gleys (Gleyed warp
soils or brown forest
soils with gleying on
some maps)

SSEW: Pelo-stagnogley
soils

SOIL ASSOCIATION

STIRLING

PARENT MATERIAL

Estuarine post-glacial
raised beach silts and
clays.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
24/32 (Peebles/Edinburgh)
31 (Airdrie)
33/34 (Haddington/
Eyemouth)
39 (Stirling)
48/49 (Perth/Dundee)

memoirs —
Soils round Haddington and
Eyemouth
Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

East Lothian, north of East Linton between Markle and
Lochhouses in the valley of the Peffer Burn. Locally in the
Carse lands of Earn, Gowrie and Stirling. 16 sq km.

LANDFORM

Estuarine low raised beach, gently sloping, at altitudes up
to 30 m.

VEGETATION

Arable; permanent pastures.

CLIMATE

	East Lothian	Carse lands of Earn and Gowrie
<i>av. ann. rainfall, mm*</i>	600-650	700-800
<i>accum. temperature*</i> (day °C above 0°C Jan-Jun)	1230-1390	1190-1350
<i>maximum PSMD, mm</i>	140-160	110-120
<i>growing season, days*</i>	225	220
<i>field capacity*</i>	mid-Nov to early Mar	late Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	greyish brown	brown
<i>texture</i>	silt loam	silty clay loam
<i>structure</i>	moderate medium subangular blocky	strong coarse prismatic
<i>stone content</i>	stoneless	stoneless
<i>potential rooting depth</i>	30-35 cm, limited by compact subsoil. Rooting depth enhanced by open structure cracks in dry summers	

COMMENT

Topsoils susceptible to slaking and
capping. High silt and clay content
throughout.

SOIL CHEMISTRY

High percentage base saturation throughout. Low total
phosphorus in subsoil.

MAP UNIT VARIATION

Locally the parent material has a high fine sand content.

*Climate data extracted from Meteorological Office publications *Average Annual Rainfall: Northern Britain* and *Climatological Memorandum No 108* and reproduced by permission of the Controller of HMSO.