

SOIL CLASSIFICATION

SCOT: Noncalcareous
gleys (Brown forest
soils with gleying on
some maps)
SSEW: Cambic
stagnogley soils

SOIL ASSOCIATION
BARGOUR

PARENT MATERIAL
Clay loam till derived
mainly from
Carboniferous Barren Red
Measures sandstones,
with some Carboniferous
sediments and Old Red
Sandstone sandstones.

DRAINAGE CLASS
Imperfect

PERMEABILITY CLASS
Slow

REFERENCES

soil maps —
1:63 360 sheets
14 (Ayr)
22 (Kilmarnock)
23 (Hamilton)
30 (Glasgow)
31 (Airdrie)

memoirs —
Soils round Kilmarnock

LOCATION AND EXTENT

Central Ayrshire, south of the River Irvine between
Galston and north and east of Prestwick. Small, isolated
patches in Lanarkshire, eg near Uddingston. 70 sq km.

LANDFORM

Undulating lowlands with some drumlin ridges; gentle or
strong slopes.

VEGETATION

Permanent pastures; some arable.

CLIMATE

	Near Prestwick	Galston-Sorn	Lanarkshire
av. ann. rainfall, mm*	950	1100	900
accum. temperature* (day °C above 0°C Jan-Jun)	1290-1470	1280-1450	1210-1370
maximum PSMD, mm	120	100	80
growing season, days*	255	255	225
field capacity*	early Oct to early Mar	early Oct to early Mar	mid-Oct to early Mar

SOIL DESCRIPTION

	topsoil	subsoil
colour	brown	reddish brown
texture	sandy clay loam	clay loam
structure	moderate fine subangular blocky	moderate very coarse prismatic
stone content	very slightly stony	moderately stony
potential rooting depth	free rooting in the topsoil to about 25 cm, restricted in the subsoil	
COMMENT	The compact, moderately fine-textured subsoils restrict rooting depth and water movement. The soils are plastic when wet.	

SOIL CHEMISTRY

The pH increases with depth to around 7.0 in the parent
material. Exchangeable bases also increase with depth,
calcium reaching high values. In the subsoils percent base
saturation and readily soluble phosphorus are high.

MAP UNIT VARIATION

Clay content of the till is higher and soil drainage
imperfect to poor north-west of Mauchline. Indurated
subsoils occur locally.

*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.