

Giffnock SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Noncalcareous
gleys
SSEW: Cambic
stagnogley soils

SOIL ASSOCIATION

GIFFNOCK

PARENT MATERIAL

Sandy clay loam drifts
derived mainly from
Carboniferous
sandstones.

DRAINAGE CLASS

Poor

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
22 (Kilmarnock)
23 (Hamilton)
30 (Glasgow)
31 (Airdrie)
39 (Stirling)
40/41 (Kinross/Elie)

memoirs —
Soils round Kilmarnock

LOCATION AND EXTENT

The Midland Valley: Renfrewshire, Lanarkshire,
Stirlingshire, Clackmannanshire and west Fife.
Approximately 40 sq km.

LANDFORM

Undulating lowlands and uplands with gentle or
moderate slopes. Altitudes up to 300 m.

VEGETATION

Ley and permanent pastures; some arable; some rush
pastures and sedge mires.

CLIMATE

	<i>Renfrewshire, south-west Stirlingshire</i>	<i>Lanarkshire</i>	<i>West Fife</i>
<i>av. ann. rainfall, mm</i>	1400	1000	900
<i>accum. temperature (day °C above 0°C Jan-Jun)</i>	no data	1090-1220	1240-1410
<i>maximum PSMD, mm</i>	75-85	80-100	90-110
<i>growing season, days</i>	no data	215	225
<i>field capacity</i>	no data	mid-Oct to early Mar	mid-Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark greyish brown	greyish brown
<i>texture</i>	sandy silt loam	sandy clay loam
<i>structure</i>	weak or moderate medium subangular blocky	moderate coarse angular blocky, becoming massive with depth
<i>stone content</i>	slightly stony	slightly or moderately stony
<i>potential rooting depth</i>	rooting often restricted to topsoil (25 cm) and structure cracks in subsoil to 50 cm	
COMMENT	Compact moderately fine-textured subsoils restrict water movement and rooting depth.	

SOIL CHEMISTRY

Subsoils generally slightly acid with high percentage base
saturation.

MAP UNIT VARIATION

Some humic gleys in higher rainfall areas and locally
elsewhere. Subsoils have coarser textures where
proportion of sandstone in till is high.