

Dochroyle SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Peaty gleys
SSEW: Cambic
stagnohumic gley soils

SOIL ASSOCIATION

ETTRICK

PARENT MATERIAL

Grey sandy silt loam or, occasionally, clay loam tills and drifts derived from Ordovician and Silurian greywackes and shales.

DRAINAGE CLASS

Very poor

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —

1:63 360 sheets

1/2/3/4 (Stranraer/
Wigtown)

7/8 Girvan/Carrick

memoirs —

Soils round Stranraer and
Wigtown

Soils of Carrick and round
Girvan

LOCATION AND EXTENT

South-west Scotland: Dumfries and Galloway Region and Carrick district. *About 80 sq km.*

LANDFORM

Drumlins and hillsides with gentle or strong slopes, 100-400 m altitude.

VEGETATION

Moist Atlantic heather moor; flying bent grassland; flying bent bog.

CLIMATE

<i>av. ann. rainfall, mm</i>	about 1200 near the coast, rising to over 2200 on the highest hills
<i>accum. temperature</i> (<i>day °C above 0°C Jan-Jun</i>)	no data
<i>maximum PSMD, mm</i>	70-90
<i>growing season, days</i>	no data
<i>field capacity</i>	no data

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	black	grey
<i>texture</i>	peat	sandy loam, occasionally sandy clay loam
<i>structure</i>	weak medium blocky	massive
<i>stone content</i>	usually stoneless	moderately stony
<i>potential rooting depth</i>	no restriction in peaty topsoil other than waterlogging, some development in upper subsoil, restricted at about 50 cm by induration.	
COMMENT	Peaty topsoils, strong acidity, and prolonged waterlogging are typical of these soils.	

SOIL CHEMISTRY

Peaty horizon strongly acid, slight increase in pH with depth in mineral subsoil; percentage base saturation very low; total phosphorus low in subsoil.

MAP UNIT VARIATION

Higher values for pH and percentage base saturation are associated with 'flush' conditions in some areas.