

Yarrow SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Brown forest soils
SSEW: Typical brown sands or typical brown podzolic soils

SOIL ASSOCIATION

YARROW

PARENT MATERIAL

Fluvioglacial and Late-glacial upper raised beach gravels derived from Ordovician and Silurian greywackes.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Rapid

REFERENCES

soil maps —
1:63 360 sheets
1/2/3/4 (Stranraer/
Wigtown)
7/8 (Girvan/Carrick)
25 (Kelso)
26 (Berwick-on-Tweed)
24/32 (Peebles/Edinburgh)
33/34 (Haddington/
Eyemouth)

memoirs —
Soils round Stranraer and
Wigtown
Soils of Carrick and round
Girvan
Soils round Kelso and
Lauder
Soils round Haddington and
Eyemouth

LOCATION AND EXTENT

The Southern Uplands, mainly in the principal river valley systems eg. the Rivers Tweed, Nith, Annan and Yarrow Water. The Stranraer - Luce Bay lowlands. Locally in East Lothian. 190 sq km.

LANDFORM

Fluvioglacial mounds and terraces. Locally raised beach terraces.

VEGETATION

Arable; permanent pastures.

CLIMATE

	Stranraer - Luce Bay	Dumfries and Lochmaben	Eastern Southern Uplands
<i>av. ann. rainfall, mm</i>	1080	1070	895
<i>accum. temperature (day °C above 0°C Jan-Jun)</i>	1260-1430	1230-1400	1080-1210
<i>maximum PSMD, mm</i>	100-110	100-110	110-120
<i>growing season, days</i>	255	250	215
<i>field capacity</i>	early Oct to early Mar	early Oct to early Mar	mid-Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	brown	strong brown
<i>texture</i>	sandy loam	loamy sand
<i>structure</i>	moderate medium subangular blocky	weak medium subangular blocky
<i>stone content</i>	moderately stony	moderately or very stony
<i>potential rooting depth</i>	generally no restrictions; local induration, cementation or extreme stoniness can inhibit rooting	
<i>COMMENT</i>	Soils liable to drought.	

SOIL CHEMISTRY

Low exchangeable bases and high to medium acidity in subsoil. Low total phosphorus in subsoil.

MAP UNIT VARIATION

Associated with Cairnside Series, a brown forest soil developed on fluvioglacial sands derived from shales and greywackes.