

Baidland SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Peaty podzols
SSEW: Ironpan
stagNOPodzols

SOIL ASSOCIATION

DARLEITH

PARENT MATERIAL

Thin, brown, stony sandy
silt loam drifts derived
from basalts and allied
igneous rocks.

DRAINAGE CLASS

Free below iron pan,
imperfect or poor above.

PERMEABILITY CLASS

Slow above the iron pan,
moderate below.

REFERENCES

soil maps —
1:63 360 sheets
7/8 (Girvan/Carrick)
14 (Ayr)
22 (Kilmarnock)
23 (Hamilton)
24/32 (Peebles/Edinburgh)
31 (Airdrie)
39 (Stirling)
40/41 (Kinross/Elie)
47 (Crieff)

memoirs —
Soils of Carrick and round
Girvan
Soils round Kilmarnock

Compiled by G. Hudson
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SMUDS 1

LOCATION AND EXTENT

Uplands throughout the Midland Valley and in Fife;
especially the Carrick Hills, hills north of Dalry, around
the Carron valley and south of Gargunnock, West
Lomond. 60 sq km.

LANDFORM

Summits and upper slopes of hills, occasionally slightly
rocky; strong or steep, often complex slopes, 100-500 m
altitude.

VEGETATION

Atlantic heather moors; white bent grassland; some
permanent pastures.

CLIMATE

	<i>West and Central Midland Valley</i>	<i>Fife</i>
<i>av. ann. rainfall, mm*</i>	1400-1800	1000
<i>accum. temperature*</i> (<i>day °C above 0°C Jan-Jun</i>)	no data	no data
<i>maximum PSMD, mm</i>	50	70
<i>growing season, days*</i>	no data	no data
<i>field capacity*</i>	no data	no data

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	black	dark greyish brown above iron pan, strong brown below
<i>texture</i>	peat	sandy silt loam
<i>structure</i>	massive or coarse blocky	weak subangular blocky
<i>stone content</i>	stoneless	moderately to very stony
<i>potential rooting depth</i>	30-40 cm impeded by thin iron pan	
COMMENT	Acid peaty surface layers, stony often shallow subsoils and semi-natural unimproved vegetation typify these soils.	

SOIL CHEMISTRY

Acid, about pH 4 in surface peat. Low percentage base
saturation and exchangeable base content. Total
phosphorus high or medium.

MAP UNIT VARIATION

The thin iron pan can be weakly developed.

*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.