

Foudland SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Humus-iron
podzols (podzols or
iron podzols on early
maps)

SSEW: Humo-ferric
podzols, or typical
brown podzolic soils
where cultivated

SOIL ASSOCIATION FOUDLAND

PARENT MATERIAL

Sandy loam drifts derived
from Dalradian slates and
argillaceous schists.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Moderate

REFERENCES

soil maps —
1:63 360 sheets
39 (Stirling)
47 (Crieff)
48/49 (Perth/Arbroath)
56 (Blairgowrie)
75 (Tomintoul)
76 (Inverurie)
77 (Aberdeen)
86 (Huntly)
87/97 (Peterhead/
Fraserburgh)
96 (Banff)

memoirs —
Soils round Banff, Huntly
and Turriff
Soils round Aberdeen,
Inverurie and Fraserburgh

Compiled by R.E.F. Heslop
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SMUDS 2

LOCATION AND EXTENT

Aberdeenshire, Banffshire, and small areas in Perthshire
north of the Highland Boundary Fault. 1480 sq km.

LANDFORM

Undulating lowlands with gentle or strong slopes; hills
and valley sides with gentle to steep slopes.

VEGETATION

Arable; ley and permanent pastures; boreal heather
moors; bent-fescue grasslands.

CLIMATE

	Below 180 m	Above 180 m, rainfall < 1000 m	Rainfall > 1000 m
<i>av. ann. rainfall, mm</i>	800-900	900-1000	1000-2000
<i>accum. temperature (day °C above 0°C Jan-Jun)</i>	1060-1230	900-1080	no data
<i>maximum PSMD, mm</i>	110	110	100-110
<i>growing season, days</i>	215	210	no data
<i>field capacity</i>	mid-Oct to early Mar	mid-Oct to mid-Mar	no data

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark greyish brown or dark brown	yellowish brown or light olive-brown
<i>texture</i>	sandy silt loam	sandy silt loam or sandy loam
<i>structure</i>	moderate subangular blocky	weak subangular blocky
<i>stone content</i>	slightly stony	slightly or moderately stony; few boulders or very large stones
<i>potential rooting depth</i>	Usually over 30 cm. Dependent on depth to induration or bedrock	
<i>COMMENT</i>	High fine sand and silt contents, and friable brightly coloured subsoils are characteristic. Semi-natural soils have a surface layer of humus over dark grey sandy silt loam, subsoils as above. Most soils have a weakly developed indurated layer.	

SOIL CHEMISTRY

Acid: subsoils have pH about 5. Base saturation is less
than 25 %.

MAP UNIT VARIATION

On Sheets 86 and 96 Foudland Series is shown as FD1-3;
FD1 includes some peaty podzols, and FD2-3 includes
some imperfectly drained soils.