

Leslie SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Brown
magnesian soils
(Brown forest soils on
early maps)
SSEW: Typical brown
earths

SOIL ASSOCIATION

LESLIE

PARENT MATERIAL

Brown drifts, often
shallow on rock rubble
derived from serpentinite
and other ultrabasic
rocks.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Moderate

REFERENCES

soil maps —
1:63 360 sheets
56 (Blairgowrie)
75 (Tomintoul)
76 (Inverurie)
77 (Aberdeen)
86 (Huntly)
96 (Banff)

memoirs —

Soils round Aberdeen,
Inverurie and Fraserburgh
Soils of Candacraig and
Glenbuchat (Bulletin No. 1)
Soils round Banff, Huntly
and Turriff

Compiled by R.E.F. Heslop
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SMUTS 3

LOCATION AND EXTENT

North-east Scotland; Beauty Hill, Leslie area, Hill of
Towanreef, Green Hill, Huntly area. Perthshire: near
Alyth. 15 sq km.

LANDFORM

Hills and valley sides with gentle, strong and steep slopes.
Rock outcrops and scree locally.

VEGETATION

Permanent and ley pastures with occasional arable; boreal
heather moors; coniferous plantations.

CLIMATE

	<i>below 180 m</i>	<i>above 180m</i>	
		<i>rainfall <1000 mm</i>	<i>rainfall >1000 mm</i>
<i>av. ann. rainfall, mm</i>	750-900	900-1000	1000-1100
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	1060-1230	900-1080	no data
<i>maximum PSMD, mm</i>	110	110	110
<i>growing season, days</i>	215	210	no data
<i>field capacity</i>	mid-Oct to early Mar	mid-Oct to early Mar	no data

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark brown	yellowish brown
<i>texture</i>	sandy loam	fine sandy loam or sandy silt loam
<i>structure</i>	moderate crumb	weak subangular blocky
<i>stone content</i>	slightly stony	moderately stony
<i>potential rooting depth</i>	40-60 cm	
COMMENT	Uncultivated soils have black organo- mineral or peaty surface horizons.	

SOIL CHEMISTRY

Subsoil pH high (>6.5), base saturation >90%, but total
phosphorus low, around 70-80 mg P₂O₅/100 g. There is
twice as much exchangeable magnesium as calcium in the
topsoil, and ratios can exceed 50:1 in the subsoil.

MAP UNIT VARIATION

Indurated subsoils are restricted mainly to the western
side of Beauty Hill. Many hills have a hummocky
microrelief with wet soils in the hollows and channels.