

Lour SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Noncalcareous
gleys
SSEW: Cambic
stagnogley soils

SOIL ASSOCIATION

BALROWNIE

PARENT MATERIAL

Reddish brown sandy silt
loam or sandy clay loam
till derived from Lower
Old Red Sandstone
sandstones with some
erratics of Dalradian
schist. Some water-
modified till may be
present.

DRAINAGE CLASS

Poor

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
39 (Stirling)
47 (Crieff)
48/49 (Perth/Arbroath)
56 (Blairgowrie)
57 (Forfar)
66/67 (Banchory/
Stonehaven)

memoirs —
Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

Throughout Strathmore (16 sq km), around Sherriffmuir (7 sq km) and Doune (1 sq km) Strathearn and Strathallan (6 sq km) Glenalmond (12 sq km), around Stonehaven (1 sq km) and Fettercairn (1 sq km). Total 44 sq km.

LANDFORM

Low-lying land and depressions or channels.

VEGETATION

Permanent pastures; arable; broad-leaved and coniferous woodlands; rush pastures.

CLIMATE

	Eastern Perthshire	Western Perthshire
<i>av. ann. rainfall, mm</i>	750-900	1200
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	1120-1250	1250-1420
<i>maximum PSMD, mm</i>	50-80	50-70
<i>growing season, days</i>	215	215-225
<i>field capacity</i>	early Oct to early Mar	early Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark greyish brown	dark reddish grey to pinkish grey
<i>texture</i>	sandy loam or sandy silt loam	sandy clay loam or sandy silt loam
<i>structure</i>	weak subangular blocky	massive
<i>stone content</i>	slightly stony	slightly or moderately stony
<i>potential rooting depth</i>	up to 60 cm, to till or water-table	
COMMENT	Dull grey colours of subsoil indicative of poor drainage.	

SOIL CHEMISTRY

Total phosphorus medium throughout profile. High base saturation in subsoil.

MAP UNIT VARIATION

Some alluvial materials may be present as a surface layer where the soil occurs adjacent to alluvial soils.