

Carpow SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Brown forest
soils
SSEW: Typical brown
sands

SOIL ASSOCIATION

CARPOW

PARENT MATERIAL

Raised beach or river
terrace sands and sandy
gravels derived from Old
Red Sandstone sediments
and lava with some
metamorphic rocks.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Rapid

REFERENCES

soil maps —
1:63 360 sheets
39 (Stirling)
40/41 (Kinross/Elie)
47 (Crieff)
48/49 (Perth/Arbroath)

memoirs —
Soils round Perth, Arbroath
and Dundee

Compiled by J.S. Bell
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SMUDS 1

LOCATION AND EXTENT

Strathearn (14 sq km); Carse of Gowrie and southern bank
of River Tay (18 sq km); Carse of Stirling (8 sq km). Total
52 sq km.

LANDFORM

Flat or gently undulating river terraces or old beach levels
at altitudes between 15 m and 38 m.

VEGETATION

Arable; permanent pastures; broad-leaved woodlands.

CLIMATE

	Strathmore/Carse of Gowrie	Stratheden	Western Perthshire, Carse of Stirling
<i>av. ann. rainfall, mm*</i>	700-850	700-800	1000-1200
<i>accum. temperature*</i> (day °C above 0°C Jan-Jun)	1120-1350	1210-1370	1250-1420
<i>maximum PSMD, mm</i>	100-130	120-140	80-100
<i>growing season, days*</i>	215-220	225	225
<i>field capacity*</i>	early Oct to early Mar	early Nov to early Mar	early Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark brown	reddish brown
<i>texture</i>	sandy loam or sandy silt loam	sand or sandy gravel
<i>structure</i>	moderate subangular blocky	massive
<i>stone content</i>	commonly stoneless but can be moderately stony	stoneless to moderately stony
<i>potential rooting depth</i>	generally unlimited except where indurated horizon is present at depth	
COMMENT	Soils are characteristically coarse-textured and rapidly permeable but stone content can range widely. Induration of the subsoil can occasionally occur.	

SOIL CHEMISTRY

Base saturation generally higher on the stoneless soils.

MAP UNIT VARIATION

Stone content variable.

*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.