

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

FORFAR

PARENT MATERIAL

Sandy loam or loamy
sand water-modified
material, more than 60 cm
thick, overlying reddish
brown sandy silt loam or
sandy clay loam till
derived mainly from Old
Red Sandstone
sandstones with some
erratics of Dalradian
schist.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Rapid or moderate

REFERENCES

soil maps —

1:63 360 sheets

39 (Stirling)

40/41 (Kinross/Elie)

47 (Crieff)

48/49 (Perth/Arbroath)

56 (Blairgowrie)

57 (Forfar)

66/67 (Banchory/
Stonehaven)

memoirs —

Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

Widespread throughout Vale of Strathmore (135 sq km);
small areas in Stratheden (4 sq km) and Strathallan
(1 sq km); also in Howe of the Mearns, near Stonehaven
(8 sq km). Total 148 sq km.

LANDFORM

Undulating lowland and lower slopes of foothills; gentle
or moderate slopes.

VEGETATION

Arable; permanent pastures; some broad-leaved and
coniferous woodlands.

CLIMATE

Eastern Scotland

West Perthshire

av. ann. rainfall, mm

735 on coast, 900
inland

1100-1200

*accum. temperature
(day °C above 0°C Jan-Jun)*

1120-1350

1250-1420

maximum PSMD, mm

100-150

100

growing season, days

215-225

215-225

field capacity

late Oct to early Mar
on coast, early Oct to
early Mar inland

early Oct to early
Mar

SOIL DESCRIPTION

topsoil

subsoil

colour

dark greyish brown
to dark reddish
brown

reddish brown

texture

sandy loam or
sandy silt loam

sandy loam or
loamy sand
overlying sandy silt
or sandy clay loam

structure

moderate
subangular blocky

weak subangular
blocky; massive at
depth

stone content

slightly or
moderately stony

moderately stony

potential rooting depth

60-100 cm, depending on thickness or
water-modified material

COMMENT

Underlying till and/or induration lie at
depths and do not affect the natural
internal drainage status of the soil.

SOIL CHEMISTRY

Percentage base saturation medium in sandy loam or
loamy sand subsoil but high in underlying till material.
Total phosphorus is medium throughout the profile.

MAP UNIT VARIATION

The water-modified material is replaced locally by
colluvial or alluvial deposits.