

Aldbar 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

BALROWNIE

PARENT MATERIAL

Reddish brown sandy silt
or sandy loam till derived
from Lower Old Red
Sandstone sandstones
with some erratics of
Dalradian schist.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Moderate

REFERENCES

soil maps —

1:63 360 sheets

39 (Stirling)

47 (Crieff)

48/49 (Perth/Arbroath)

56 (Blairgowrie)

57 (Forfar)

memoirs —

Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

Throughout Strathmore (95 sq km) and the Sidlaw Hills,
north and north-west of Dundee (82 sq km), scattered
locations in Strathearn and Glen Artney (5 sq km) and
bordering Strathallan (6 sq km). Total 188 sq km.

LANDFORM

Undulating lowland and lower slopes of foothills; gentle
to strong slopes.

VEGETATION

Permanent pasture; arable; some coniferous woodlands,
some Atlantic and boreal heather moors.

CLIMATE

Strathmore

West Perthshire

*av. ann. rainfall, mm**

800-950

1000-1500

*accum. temperature**

1120-1250

1250-1420

(day °C above 0°C Jan-Jun)

maximum PSMD, mm

90-120

80-110

*growing season, days**

215

225

*field capacity**

mid-Oct to early Mar

early Oct to early Mar

SOIL DESCRIPTION

topsoil

subsoil

colour

dark greyish brown to
dark reddish brown

brown to reddish
brown

texture

fine sandy loam or
sandy silt loam

sandy silt loam or
sandy clay loam

structure

moderate angular or
subangular blocky

weak subangular or
angular blocky;
massive at depth

stone content

slightly or moderately
stony

slightly or moderately
stony

potential rooting depth

up to 60 cm, to till or rock

COMMENT

The till on upper hillslopes is frequently
shallow, often with sandstone rock within 1 m.
Cultivation has destroyed the upper podzolic
horizons in these soils.

SOIL CHEMISTRY

Total phosphorus is medium to low throughout the
profile. Trace element deficiencies (cobalt and copper)
may occur on some soils.

MAP UNIT VARIATION

Water-sorting of the upper layers of the till gives a
variable thickness of coarse-textured material above the
unaltered till.