

Mountboy SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Noncalcareous
gleys (Brown forest
soils with gleying on
early maps)

SSEW: Cambic
stagnogleysoils

SOIL ASSOCIATION MOUNTBOY

PARENT MATERIAL

Reddish brown till
derived from Old Red
Sandstone lavas,
sandstones and
conglomerates.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Moderate or slow

REFERENCES

soil maps —
1:63 360 sheets
24/32 (Peebles/Edinburgh)
40/41 (Kinross/Elie)
48/49 (Perth/Arbroath)
56 (Blairgowrie)
57 (Forfar)

memoirs —
Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

Around the Sidlaw Hills in Angus, the eastern Ochils in Fife, and the Pentland Hills. Smaller areas at Symington in Lanarkshire and near Melrose. 85sq km.

LANDFORM

Flanks of hills generally below 200 m and lowland with gentle to strong slopes.

VEGETATION

Arable; permanent pastures.

CLIMATE

Fife

Pentland Hills

av. ann. rainfall, mm

750-900

900-1250

accum. temperature

1190-1350

1080-1210

(day °C above 0°C Jan-Jun)

maximum PSMD, mm

90-110

75

growing season, days

225

215

field capacity

late Oct to early Mar

mid-Oct to early
Mar

SOIL DESCRIPTION

topsoil

subsoil

colour

dark reddish brown

reddish brown

texture

sandy silt loam

sandy clay loam

structure

moderate coarse
subangular blocky

weak coarse
subangular blocky

stone content

moderately stony

moderately stony

potential rooting depth

60-70 cm to compact subsoils

COMMENT

Similar to Balrownie Series. Soil occurs in widely scattered, generally small, areas.

SOIL CHEMISTRY

pH and base saturation are generally high throughout profiles of cultivated soils. Total phosphorus is moderate.

MAP UNIT VARIATION

The proportion of sandstone and lava in the parent material is very variable.