

Lanfine SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

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

SSEW: Cambic
stagnogley soils

SOIL ASSOCIATION

LANFINE

PARENT MATERIAL

Sandy clay loam or clay
loam till derived from red
sandstones (of Permian
and/or Old Red
Sandstone age) and basic
igneous rocks, mainly
basalts.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —

1:63 360 sheets

14 (Ayr)

22 (Kilmarnock)

23 (Hamilton)

24/32 (Peebles/Edinburgh)

memoirs —

Soils round Kilmarnock

LOCATION AND EXTENT

Central Ayrshire - south of Newmilns and around
Mauchline and Tarbolton; also near Langbank and Old
Kilpatrick. *About 60 sq km.*

LANDFORM

Undulating plateaux with drumlins; hillsides with
moderate slopes; altitudes from sea level to 250 m.

VEGETATION

Arable; permanent pastures; some rush pastures and
sedge mires.

CLIMATE

av. ann. rainfall, mm

usually close to 1200 mm, but 1000 mm in
extreme west, 1400 mm on the flanks of
the Kilpatrick Hills.

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

1250-1450

maximum PSMD, mm

82-128

growing season, days

255 (225 in Kilpatrick Hills)

field capacity

early Oct to early Mar

SOIL DESCRIPTION

topsoil

subsoil

colour

brown

reddish brown

texture

sandy silt loam or
clay loam

sandy clay loam

structure

moderate medium
subangular blocky

massive or
moderate coarse
prismatic

stone content

slightly stony

moderately stony

potential rooting depth

free rooting in surface to about 30 cm,
some restricted development down to 50
cm, impeded thereafter by compact till

COMMENT

Significant variation in basic igneous rock
contribution to parent material.

SOIL CHEMISTRY

Slightly acid, with percentage base saturation high in
subsoil, total phosphorus medium and decreasing with
depth.

MAP UNIT VARIATION

The red coloration in the parent material varies according
to the amount of red sandstone present.