

Kippen SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Brown forest
soils with gleying
SSEW: Stagnogleyic
brown earths

SOIL ASSOCIATION

KIPPEN

PARENT MATERIAL

Reddish sandy clay loam
till derived from Upper
Old Red Sandstone
sandstones.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Moderate

REFERENCES

soil maps —

1:63 360 sheets

30 (Glasgow)

39 (Stirling)

40/41 (Kinross/Elie)

48/49 (Perth/Arbroath)

memoirs —

Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

Clyde coast between Largs and Inverkip and around
Dumbarton; Forth valley from Gargunnock to Killearn;
Tayside near Bridge of Earn and Invergowrie, and near
Cupar in Fife. *About 60 sq km.*

LANDFORM

Undulating lowlands and hillsides, slopes gentle or
moderate, locally strong or steep; altitudes below 250 m.

VEGETATION

Arable and permanent pastures; some rush pastures and
sedge mires; some small areas of woodland.

CLIMATE

Western and Central areas Eastern areas

av. ann. rainfall, mm

1200-1600

700-1000

accum. temperature

1250-1420

1200-1400

(day °C above 0°C Jan-Jun)

maximum PSMD, mm

82-100

112-148

growing season, days

225

225

field capacity

early Oct to early
Mar

mid-Oct to early
Mar

SOIL DESCRIPTION

topsoil

subsoil

colour

dark brown

reddish brown

texture

sandy silt loam

sandy clay loam

structure

moderate medium
or coarse subangular
blocky

subangular blocky

stone content

slightly stony

moderately stony
restricted to 40 cm
by compact subsoils

potential rooting depth

restricted to 40 cm by compact subsoils

COMMENT

Compact, moderately fine-textured
subsoils restrict root development and
water movement.

SOIL CHEMISTRY

Naturally moderately acid. Percentage base saturation
medium to high in subsoil, and total phosphorus low.

MAP UNIT VARIATION

Some moderately coarse-textured subsoils associated with
water-sorted tills occur on low ground.