

Kilmarnock 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

KILMARNOCK

PARENT MATERIAL

Clay loam till derived
from a mixture of
Carboniferous
sandstones, shales and
basic or intermediate
lavas.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —

1:63 360 sheets

22 (Kilmarnock)

23 (Hamilton)

30 (Glasgow)

31 (Airdrie)

33/34 (Haddington and
Eyemouth)

memoirs —

Soils round Kilmarnock

Soils round Haddington and
Eyemouth

LOCATION AND EXTENT

Ayrshire, north of the River Irvine between Kilmarnock
and Stewarton and around Symington; East Lothian,
south of North Berwick; Lanarkshire, between East
Kilbride and Stonehouse. 291 sq km.

LANDFORM

Undulating till plains with occasional drumlins and till
ridges in the lowlands and upland fringes; gentle or
moderate slopes.

VEGETATION

Permanent pastures; some arable.

CLIMATE

	<i>Ayrshire</i>	<i>Lanarkshire</i>	<i>East Lothian</i>
<i>av. ann. rainfall, mm</i>	1100-1400	1100-1200	650
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	1280-1470	no data	1230-1390
<i>maximum PSMD, mm</i>	80-100	80	150
<i>growing season, days</i>	255	no data	225
<i>field capacity</i>	early Oct to early Mar	no data	mid-Nov to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	brown	reddish brown or brown
<i>texture</i>	sandy silt loam or clay loam	clay loam
<i>structure</i>	moderate medium subangular blocky	coarse prismatic
<i>stone content</i>	very slightly stony	slightly stony
<i>potential rooting depth</i>	free rooting in topsoil and upper subsoil to a depth of 50 cm	
<i>COMMENT</i>	Compact moderately fine-textured subsoil restricts rooting development and water movement.	

SOIL CHEMISTRY

High exchangeable calcium and magnesium and
percentage base saturation in subsoil, often increasing
with depth. High readily soluble phosphorus in parent
material.

MAP UNIT VARIATION

Water-sorted tills (Brownrigg Series) occur locally west of
Kilmaurs and between Dundonald and Kilwinning. Clay-
textured till occurs west of Stewarton.