

Hindsward SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Noncalcareous
gleys
SSEW: Cambic
stagnogley soils

SOIL ASSOCIATION

HINDSWARD

PARENT MATERIAL

Clay or clay loam till
derived from
Carboniferous sandstones
and shales with a varying
admixture of basic
igneous rocks.

DRAINAGE CLASS

Poor

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
14 (Ayr)
40/41 (Kinross/Elie)

Compiled by G. Hudson
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SMUTS 2

LOCATION AND EXTENT

Central Ayrshire, north-east of the River Doon between
Waterside and Skares and north and south of the River
Nith; isolated patches in Fife, north-west of Loch Glow.
48 sq km.

LANDFORM

Undulating lowlands, foothills and uplands with gentle or
strong slopes.

VEGETATION

Permanent pastures; some rush pastures.

CLIMATE

	<i>Ayrshire</i>	<i>Fife</i>
<i>av. ann. rainfall, mm*</i>	1200-1400	1000
<i>accum. temperature*</i> (<i>day °C above 0°C Jan-Jun</i>)	1280-1450	1240-1410
<i>maximum PSMD, mm</i>	80-100	90-110
<i>growing season, days*</i>	255	225
<i>field capacity*</i>	early Oct to early Mar	mid-Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark greyish brown	grey and greyish brown
<i>texture</i>	clay loam	clay loam or clay
<i>structure</i>	weak angular blocky	moderate coarse prismatic, becoming massive with depth
<i>stone content</i>	slightly stony	moderately stony
<i>potential rooting depth</i>	abundant roots in topsoil to 25 cm; roots restricted to structure cracks below	

COMMENT

The compact fine- or moderately fine-
textured till is slowly permeable and the
soils are plastic when wet.

SOIL CHEMISTRY

Exchangeable calcium is high throughout, magnesium
increases with depth. pH is near neutral and percent base
saturation approaches 100 in the parent material. Readily
soluble phosphorus is low.

MAP UNIT VARIATION

Near outcrops of basic igneous rocks the till is brown due
to a higher than normal content of weathered igneous
stones.

*Climate data extracted from Meteorological Office publications *Average Annual Rainfall: Northern Britain* and
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