

Reidston SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Brown forest
soils with gleying
SSEW: Cambic
stagnogley soils

SOIL ASSOCIATION

HINDSWARD

PARENT MATERIAL

Clay loam till, generally
dark brown or grey,
derived from
Carboniferous sandstones
and shales with a varying
admixture of basic
igneous rocks.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

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

LOCATION AND EXTENT

Ayrshire, south-east of Cumnock, south of Drongan and
north of Patna; Fife, scattered occurrences from
Dunfermline to Pittscoatie. 57 sq km.

LANDFORM

Undulating lowlands, hill and valley sides with gentle or
strong slopes, 100-300 m altitude.

VEGETATION

Permanent pastures; some arable crops in Fife.

CLIMATE

	<i>Ayrshire</i>	<i>Fife</i>
<i>av. ann. rainfall, mm</i>	1100-1200	800-1000
<i>accum. temperature</i> (day °C above 0°C Jan-Jun)	1280-1450	1240-1410
<i>maximum PSMD, mm</i>	100	115
<i>growing season, days</i>	255	225
<i>field capacity</i>	early Oct to early Mar	late Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark greyish brown	brown or greyish brown
<i>texture</i>	silt loam or silty clay loam	clay loam or clay loam
<i>structure</i>	weak medium subangular blocky	weak medium subangular blocky
<i>stone content</i>	slightly stony	very stony
<i>potential rooting depth</i>	strong coarse prismatic	
COMMENT	Compact, fine-textured subsoil restricts root development and water movement.	

SOIL CHEMISTRY

Medium exchangeable base content, high percentage base
saturation rising to 100 % in parent material. Moderately
acid, pH increases with depth. Low to medium
phosphorus.

MAP UNIT VARIATION

Water-modified till, with sandy loam topsoils, occurs
locally in the Nith valley.