

Glenalmond SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

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

SOIL ASSOCIATION

GLENALMOND

PARENT MATERIAL

Reddish brown sandy
clay loam till derived
from Old Red Sandstone
sediments, mainly
sandstones.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
7/8 (Girvan/Carrick
14 (Ayr)
23 (Hamilton)

memoirs —
Soils round Carrick and
Girvan

LOCATION AND EXTENT

Chiefly Ayrshire, from Dalrymple to Girvan and between
Maidens and Straiton. *About 140 sq km.*

LANDFORM

Undulating lowlands and hillsides with gentle or strong
slopes mainly below 200 m altitude.

VEGETATION

Arable; permanent pastures.

CLIMATE

<i>av. ann. rainfall, mm</i>	ranges from 1000 mm on the coast to 1200 mm inland
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	1280-1450
<i>maximum PSMD, mm</i>	100-128
<i>growing season, days</i>	255
<i>field capacity</i>	early Oct to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	brown	reddish brown
<i>texture</i>	clay loam	sandy clay loam
<i>structure</i>	weak medium subangular blocky breaking to granular	moderate coarse prismatic
<i>stone content</i>	slightly stony	moderately or very stony
<i>potential rooting depth</i>	largely restricted to topsoil (25 cm) but some root penetration down the structure cracks of the subsoil to 50 cm	
COMMENT	Slowly permeable subsoils and some surface waterlogging are typical.	

SOIL CHEMISTRY

Moderately acid topsoils, near-neutral subsoils, high
percentage base saturation, with values for exchangeable
magnesium rising markedly with depth. Total phosphorus
low in subsoil.

MAP UNIT VARIATION

Near Girvan and Straiton the parent tills contain
greywacke stones.