

Glenpark 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

SORN

PARENT MATERIAL

Reddish brown sandy
clay loam or clay loam till
derived from Lower
Carboniferous sandstones
and cementstones, and
Upper Old Red Sandstone
sandstones, cornstones
and basaltic or andesitic
lavas.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
14 (Ayr)
23 (Hamilton)
24/32 (Peebles/Edinburgh)
30 (Glasgow)
31 (Airdrie)
39 (Stirling)

LOCATION AND EXTENT

West and Central Midland Valley; south and east of
Dalrymple, between Lanark and Strathaven. 73 sq km.

LANDFORM

Undulating lowlands and hillsides with gentle or strong
slopes.

VEGETATION

Permanent pastures; some arable.

CLIMATE

	West Midland Valley (Ayrshire)	Central Midland Valley
<i>av. ann. rainfall, mm</i>	1000-1200	800-1000
<i>accum. temperature (day °C above 0°C Jan-Jun)</i>	1280-1450	1210-1370
<i>maximum PSMD, mm</i>	90	100
<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>	brown or dark brown	brown or reddish brown
<i>texture</i>	sandy silt loam	clay loam
<i>structure</i>	moderate subangular blocky	strong coarse prismatic
<i>stone content</i>	slightly stony	moderately stony
<i>potential rooting depth</i>	free rooting to 50 cm	
<i>COMMENT</i>	Root development and water movement restricted by coarse structure and high density in the subsoil.	

SOIL CHEMISTRY

Moderately acid, pH increases with depth. High
percentage base saturation, reaching 100 % in parent till.
Total phosphorus medium in subsoils, occasionally low.

MAP UNIT VARIATION

Red subsoils are associated with a high proportion of Old
Red Sandstone sandstones, clayey subsoils with high
proportion of Carboniferous sediments.