

# Glaisnock SERIES

## A. SOIL MAP UNIT DESCRIPTION

### SOIL CLASSIFICATION

SCOT: Peaty gleys  
SSEW: Cambic  
stagnohumic gley soils

### SOIL ASSOCIATION

ROWANHILL

### PARENT MATERIAL

Grey or dark grey clay loam or clay till derived from Carboniferous shales, sandstones and other sediments.

### DRAINAGE CLASS

Very poor or poor

### PERMEABILITY CLASS

Slow

### REFERENCES

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

Compiled by G. Hudson  
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SMUDS 5

### LOCATION AND EXTENT

Midland Valley, principally south-east of Cumbernauld; north of Lanark and between Coalburn and Muirkirk.  
60 sq. km.

### LANDFORM

Undulating plateau, 150-250 m altitude, with gentle slopes.

### VEGETATION

Flying bent grassland; soft rush pasture; moist Atlantic heather moor; some permanent pastures.

### CLIMATE

Coalburn/Muirkirk      Slamannan plateau

<i>av. ann. rainfall, mm</i>	1200-1400	1000-1100
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	no data	no data
<i>maximum PSMD, mm</i>	80-100	90
<i>growing season, days</i>	no data	no data
<i>field capacity</i>	no data	no data

### SOIL DESCRIPTION

*topsoil*

*subsoil*

<i>colour</i>	black	grey or brownish grey
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<i>texture</i>	peat	clay loam or clay
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<i>structure</i>	moderate medium angular blocky	strong very coarse prismatic
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<i>stone content</i>	stoneless	slightly stony
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<i>potential rooting depth</i>	40 cm; freely rooting in topsoil, restricted to structure cracks in subsoil
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### COMMENT

Peaty or highly organic topsoils, slowly permeable clayey subsoils and prolonged wetness periods typify these soils.

### SOIL CHEMISTRY

Acid soils, pH low in topsoils, increases with depth. Exchangeable bases medium in topsoil. Percentage base saturation medium in topsoil rising to high in subsoil. Total phosphorus low.

### MAP UNIT VARIATION

Former peaty topsoils and upper mineral layers have been mixed by cultivation in some reclaimed areas.