

# Caprington 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

ROWANHILL

### PARENT MATERIAL

Sandy clay loam or clay  
loam till derived from  
Carboniferous shales,  
sandstones and other  
sediments.

### DRAINAGE CLASS

Imperfect

### PERMEABILITY CLASS

Slow

### REFERENCES

*soil maps* —

1:63 360 sheets

14 (Ayr)

22 (Kilmarnock)

23 (Hamilton)

30 (Glasgow)

31 (Airdrie)

39 (Stirling)

40/41 (Kinross/Elie)

48/49 (Perth/Arbroath)

*memoirs* —

Soils round Kilmarnock

Soils round Perth, Arbroath  
and Dundee

### LOCATION AND EXTENT

Ayrshire; areas between Stirling and Milngavie; round  
Hamilton and Paisley; the East Neuk of Fife. 570 sq km.

### LANDFORM

Undulating till plain with some drumlins and till ridges;  
gentle or moderate slopes.

### VEGETATION

Arable; permanent pastures; rush pastures and sedge  
mires.

### CLIMATE

*West*

*Central*

*East*

*av. ann. rainfall, mm\**

1095

910-1200

740

*accum. temperature\**

1280-1450

1210-1420

1210-1370

*(day °C above 0°C Jan-Jun)*

*maximum PSMD, mm*

130

130

150

*growing season, days\**

255

225

225

*field capacity\**

early Oct to  
early Mar

early Oct to  
early Mar

early Nov to  
early Mar

### SOIL DESCRIPTION

*topsoil*

*subsoil*

*colour*

dark greyish brown

greyish brown,  
locally reddish  
brown, yellowish  
brown or grey, with  
ochreous mottling

*texture*

sandy silt loam or  
sandy clay loam

sandy clay loam or  
clay loam

*structure*

moderate  
subangular blocky

weak, moderate or  
strong prismatic or  
angular blocky

*stone content*

very slightly or  
slightly stony

slightly or  
moderately stony

*potential rooting depth*

40-50 cm, limited by compact subsoil

COMMENT

Compact, moderately fine-textured,  
coarse-structured subsoils restrict rooting  
depth and water movement.

### SOIL CHEMISTRY

In areas where Carboniferous limestone is a component of  
the drift, the percentage base saturation and pH of the  
subsoil can be higher than normal.

### MAP UNIT VARIATION

Occasional inclusions of Macmerry Series (coarser-  
textured subsoils) and Rowanhill Series (poorly drained  
soils).