

# Panbride SERIES

## A. SOIL MAP UNIT DESCRIPTION

### SOIL CLASSIFICATION

SCOT: Humus-iron  
podzols (Podzols or  
iron podzols on early  
maps)

SSEW: Humo-ferric  
podzols, or typical  
brown sands where  
cultivated

### SOIL ASSOCIATION

PANBRIDE

### PARENT MATERIAL

Raised beach sands and  
gravels derived from Old  
Red Sandstone sediments  
and lavas.

### DRAINAGE CLASS

Free

### PERMEABILITY CLASS

Rapid

### REFERENCES

*soil maps* —

1:63 360 sheets

40/41 (Kinross/Elie)

48/49 (Perth/Arbroath)

30 (Glasgow)

*memoirs* —

Soils round Perth, Arbroath  
and Dundee

Compiled by J.H. Gauld  
© Macaulay Land Use Research Institute, Aberdeen.  
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SMUDS 4

### LOCATION AND EXTENT

Coastal lowlands of Angus and north-east Fife (34 sq km)  
and along the Clyde estuary, between Helensburgh and  
Dumbarton (3 sq km). Total 37 sq km.

### LANDFORM

Old raised beach levels between 7 and 30 m elevation;  
gentle or moderate slopes.

### VEGETATION

Arable; permanent pastures; some broad-leaved  
woodlands.

### CLIMATE

Angus/North-east Fife      Clyde Estuary

*av. ann. rainfall, mm*

700-750

1200-1400

*accum. temperature*

1190-1370

no data

*(day °C above 0°C Jan-Jun)*

*maximum PSMD, mm*

150

55

*growing season, days*

220-225

no data

*field capacity*

late Oct to early  
Mar

no data

### SOIL DESCRIPTION

*topsoil*

*subsoil*

*colour*

dark brown to dark  
greyish brown

brown to reddish  
brown

*texture*

sandy loam or  
loamy sand

loamy sand or sand

*structure*

moderate or weak  
subangular blocky

weak subangular  
blocky

*stone content*

generally stoneless  
but can be  
moderately stony

stoneless to  
moderately stony

*potential rooting depth*

generally unlimited

COMMENT

A coarse-textured, freely draining soil  
with a predominantly sandy texture, but  
stone content can range widely. Topsoil  
thickness ranges from 30 to 50 cm.

### SOIL CHEMISTRY

Base saturation is generally high throughout the profile.  
Medium exchangeable calcium values in the subsoil.

### MAP UNIT VARIATION

Considerable variation in stone content and topsoil  
thickness.