

Humbie SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

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

SOIL ASSOCIATION

HUMBIE

PARENT MATERIAL

Reddish brown clay loam
till derived from Upper
Old Red Sandstone and
Lower Carboniferous
sandstones, shales and
siltstones.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
33/34 (Haddington/
Eyemouth)

memoirs —
Soils round Haddington and
Eyemouth

LOCATION AND EXTENT

In south-east Scotland between Humbie and Garvald.
40 sq km.

LANDFORM

Undulating lowlands with gentle and strong slopes.

VEGETATION

Arable with short ley pastures.

CLIMATE

<i>av. ann. rainfall, mm</i>	675
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	1230-1390
<i>maximum PSMD, mm</i>	140-160
<i>growing season, days</i>	225
<i>field capacity</i>	mid-Nov to early Mar

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	brown	reddish brown
<i>texture</i>	sandy silt loam	clay loam
<i>structure</i>	moderate medium blocky	moderate coarse prismatic
<i>stone content</i>	slightly stony	moderately stony
<i>potential rooting depth</i>	30-50 cm, restricted by compact poorly aerated soil; can be deeper in dry summers.	
<i>COMMENT</i>	Reddish brown, moderately fine-textured, slowly permeable subsoils typify these soils.	

SOIL CHEMISTRY

Inherently moderately acid. Base saturation is high in the
subsoil. Total phosphorus in subsoil is low.

MAP UNIT VARIATION

Rock is present at shallow depths around Sheriffside and
Gilchriston.