

# Lauder SERIES

## A. SOIL MAP UNIT DESCRIPTION

### SOIL CLASSIFICATION

SCOT: Brown forest soils  
SSEW: Typical brown  
earths. Locally typical  
brown podzolic soils.

### SOIL ASSOCIATION

LAUDER

### PARENT MATERIAL

Red or reddish brown  
sandy loam till derived  
from sandstones and  
conglomerates of Upper  
Old Red Sandstone age.

### DRAINAGE CLASS

Free

### PERMEABILITY CLASS

Moderate or rapid

### REFERENCES

*soil maps* —

1:63 360 sheets

25 (Kelso)

26 (Berwick-on-Tweed)

33/34 (Haddington/  
Eyemouth)

*memoirs* —

Soils round Kelso and Lauder

Soils round Haddington and  
Eyemouth

### LOCATION AND EXTENT

In Lauderdale and to the west and north-west of Duns. In  
East Lothian to the south of Dunbar, around Innerwick  
and Oldhamstocks. 105 sq km.

### LANDFORM

Hills and valley sides with strong and steep slopes.

### VEGETATION

Arable and permanent pastures; common bent-fescue  
grassland.

### CLIMATE

<i>av. ann. rainfall, mm</i>	750-850
<i>accum. temperature</i> <i>(day °C above 0°C Jan-Jun)</i>	1080-1210
<i>maximum PSMD, mm</i>	110-120
<i>growing season, days</i>	215
<i>field capacity</i>	mid-Oct to early Mar

### SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	dark brown to reddish brown	dark red to reddish brown
<i>texture</i>	sandy silt loam	sandy loam
<i>structure</i>	moderate medium subangular blocky	moderate medium subangular blocky
<i>stone content</i>	moderately stony	moderately and very stony
<i>potential rooting depth</i>	45-50 cm; limited by induration, compaction or rock	
COMMENT	Till generally shallow. Water movement may be inhibited by local finer-textured till. The soils form part of the group known as "Dunbar Red Soils".	

### SOIL CHEMISTRY

Natural deficiencies in copper, cobalt and manganese are  
possible.

### MAP UNIT VARIATION

Inclusions of Spott Series (brown forest soil with imperfect  
drainage) may occur.