

Laurencekirk SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

SCOT: Brown forest
soils with gleying
SSEW: Stagnogleyic
brown earths

SOIL ASSOCIATION

LAURENCEKIRK

PARENT MATERIAL

Red clay loam till derived
from Lower Old Red
Sandstone marls,
mudstones and fine-
grained sandstones.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
47 (Crieff)
48/49 (Perth/Arbroath)
57 (Forfar)
66/67 (Banchory/
Stonehaven)

memoirs —
Soils round Perth, Arbroath
and Dundee

LOCATION AND EXTENT

Howe of the Mearns, Kincardineshire; small areas between
Crieff and Perth, and Perth and Coupar Angus. 34 sq km.

LANDFORM

Undulating lowlands with gentle to strong slopes.

VEGETATION

Arable; ley and permanent pastures; broad-leaved
woodland.

CLIMATE

	<i>Kincardineshire, Angus & Perthshire (<1000 mm)</i>		<i>Perthshire (>1000 mm)</i>
	<i><800 mm rainfall</i>	<i>800-1000 mm rainfall</i>	
<i>av. ann. rainfall, mm</i>	750-800	800-1000	1000-1200
<i>accum. temperature (day °C above 0°C Jan-Jun)</i>	1190-1350	1120-1250	no data
<i>maximum PSMD, mm</i>	105-130	95-110	100
<i>growing season, days</i>	220	215	no data
<i>field capacity</i>	late Oct to early Mar	mid-Oct to early Mar	no data

SOIL DESCRIPTION

	<i>topsoil</i>	<i>subsoil</i>
<i>colour</i>	reddish brown	red
<i>texture</i>	sandy silt loam	clay loam
<i>structure</i>	moderate medium subangular blocky	weak coarse subangular blocky tending to weak coarse platy
<i>stone content</i>	slightly stony	slightly stony
<i>potential rooting depth</i>	50-80 cm, depending on depth to the massive till	
COMMENT	Bright red colour and manganese staining of the subsoil is characteristic; red marl evident even in topsoil; silt content often exceeds 30%.	

SOIL CHEMISTRY

Slightly acid; subsoils have a pH of around 6 and high (>
80 %) base saturation.

MAP UNIT VARIATION

Parent materials principally clay loam, but sandy clay
loams or clays can occur.