

Stonehaven SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

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

SOIL ASSOCIATION

STONEHAVEN

PARENT MATERIAL

Reddish brown sandy
clay loam till derived
from Lower Old Red
Sandstone sediments,
mainly conglomerate,
with some lavas.

DRAINAGE CLASS

Imperfect

PERMEABILITY CLASS

Slow

REFERENCES

soil maps —
1:63 360 sheets
56 (Blairgowrie)
57 (Forfar)
66/67 (Banchory/
Stonehaven)

LOCATION AND EXTENT

Kincardineshire, from Stonehaven to the River North Esk;
small areas in Perthshire and Angus. 89 sq km.

LANDFORM

Undulating lowlands and foothills with gentle to strong
slopes.

VEGETATION

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

CLIMATE

Coastal lowlands

Inland

av. ann. rainfall, mm
accum. temperature
(day °C above 0°C Jan-Jun)
maximum PSMD, mm
growing season, days
field capacity

650-800
1190-1350

800-1000
1120-1250

105-130
220

95-110
215

late Oct to early Mar
mid-Oct to early
Mar

SOIL DESCRIPTION

topsoil

subsoil

colour

dark reddish brown reddish brown

texture

sandy silt loam clay loam

structure

moderate medium
subangular blocky weak coarse
subangular blocky
or massive

stone content

slightly stony moderately stony

potential rooting depth

40-60 cm, locally 80 cm depending on
depth to the massive till.

COMMENT

Cobbles of quartzite and lava are
characteristic; manganese staining in
subsoil; clay content increases with depth.

SOIL CHEMISTRY

Moderately acid; subsoils have a pH of 5-6 and high (> 80
%) base saturation.

MAP UNIT VARIATION

Some subsoils are slightly stony.