

Allangrange SERIES

A. SOIL MAP UNIT DESCRIPTION

SOIL CLASSIFICATION

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

SSEW: Humo-feric
podzols or typical
brown podzolic soils
where uncultivated

SOIL ASSOCIATION

MILLBUIE

PARENT MATERIAL

Brown, moderately
coarse-textured stony till
derived from sandstones
of Middle Old Red
Sandstone age.

DRAINAGE CLASS

Free

PERMEABILITY CLASS

Moderate

REFERENCES

soil maps —
1:63 360 sheets
Parts 83/84/93/94
(Black Isle)

memoirs —
Soils of the Black Isle

LOCATION AND EXTENT

The Black Isle, Ross and Cromarty. 62 sq km.

LANDFORM

Lowlands with gentle and moderate slopes. Some strong
and very strong slopes in the Avoch-Fortrose area and
some moundy ground at the western end of the Black Isle.

VEGETATION

Arable and permanent pastures; coniferous plantations.

CLIMATE

Low ground

High ground

av. ann. rainfall, mm

700-800

800-1000

accum. temperature

1190-1350

1080-1250

(day °C above 0°C Jan-Jun)

maximum PSMD, mm

120

110

growing season, days

220

215

field capacity

early Nov to early
Mar

mid-Oct to early
Mar

SOIL DESCRIPTION

topsoil

subsoil

colour

dark brown

yellowish brown

texture

sandy loam

sandy loam

structure

weak crumb

coarse platy,
becoming massive
with depth

stone content

very slightly or
slightly stony

moderately or very
stony

potential rooting depth

generally less than 40 cm; impeded by
compact subsoil

COMMENT

Subsoil induration is common. Deep
improved topsoils, 50-80 cm thick, occur
on some of the large farms.

SOIL CHEMISTRY

Under natural conditions soils are very acid. Levels of
exchangeable bases and total phosphorus are generally
low in subsoil. Very low total and extractable cobalt and
low total copper.

MAP UNIT VARIATION

Much of the series is cultivated, although uncultivated
soils are common on the afforested upper slopes. Depth to
indurated subsoil is less in the western part of the Black
Isle and on the higher ground.