

MAJOR GROUP : H

The main characteristic of these soils is their deep, uniform sandy textured profiles. They have been separated on the basis of the development of profile characteristics, and five soil profile classes have been formed from the profile descriptions of deep, uniform textured sands.

Soil Profile Class : Ha

General Features: These are deep, uniform sandy soils that have little or no pedologic organisation apart from the surface accumulation of organic matter. Soils with an acid soil reaction trend occur, ie. subclass HaA.

Soil Description:

Surface Soil

loamy sand.
35cm thick.
black.
loose.

Subsurface Soil

sand.
dark greyish brown to greyish brown.
loose.
deeper than 100 cm.

3.8.2 Soil Profile Class : Hb

General Features: These are deep, uniform sandy soils that have a conspicuously bleached subsurface horizon. Soils with an acid and a neutral soil reaction trend occur, ie. subclasses HbA and HbN.

Soil Description:

Surface Soil

A₁ horizon

- . loamy sand or sand; coarse sandy loam where these soils are formed on granite.
- . 20-30cm thick.
- . black, dark greyish brown or greyish brown.
- . loose.

A₂ horizon

- . sand, coarse sandy loam where these soils are formed on granite.
- . 30-90cm thick.
- . conspicuously bleached white, pinkish white, pink or light grey dry, pale brown, brown, light yellowish brown, brownish yellow or greyish brown moist; the dark surface horizon may grade to a brown transition horizon before the paler bleached layer.
- . loose.

Subsoil

sand to sandy loam; coarse sandy loam where these soils are formed on granite. light brown, yellowish brown, greyish brown, brownish yellow, reddish yellow or yellowish red where formed on granite, darker subsoils may have a yellow mottle.

loose, but more coherent than the surface soils.

total soil depth greater than 120cm.

3.8.3 Soil Profile Class : Hc

General Features: These are deep, uniform sandy soils that have a conspicuously bleached subsurface horizon which overlies a cemented or compacted pan. Soils with an acid soil reaction trend occur, ie. subclass HcA.

Soil Description:

Surface Soil

A₁ horizon

- . loamy sand.
- . 20-50cm thick.
- . black to dark grey.
- . loose.

A₂ horizon

- . sand.
- . 20-100cm thick.
- . conspicuously bleached white or light grey dry, light brownish grey to pale brown moist.
- . loose.

Subsoil

cemented pan of sand or clayey sand.

pan 15-25cm thick.

'coffee rock' pan black or dark brown; consistence pan (very hard dry) yellowish brown.

may grade to a light yellowish brown sand below the pan which is loose.

total soil depth is greater than 150cm.

3.8.4 Soil Profile Class: Hd

General Features: These are deep, uniform sandy soils that lack the development of a bleached subsurface horizon but have colour and textural changes throughout the profile. Soils with acid and alkaline soil reaction trends occur, ie. subclasses HdA and HdK.

Soil Description

Surface Soil:

loamy sand, occasionally fine sandy loam.
20-30cm thick, occasionally up to 80cm thick.
black to dark greyish brown.
loose to weakly coherent.

Subsoil:

sand, coarse loamy sand or coarse light sandy clay loam.
brown or dark reddish brown, grading to yellowish brown or very pale brown in the deep subsoil.
weakly coherent.
variable amounts of fine quartz gravel and mica; where these soils are formed on limestone a calcrete pan or variable amounts of hard and soft carbonate segregations occur in the subsoil.
total soil depth is greater than 120cm.

3.8.5 Soil Profile Class: He

General Features: These are deep, uniform sandy soils that have little or no pedologic organisation apart from the surface accumulation of organic matters. Soils with an alkaline soil reaction trend occur, ie. subclass HeK.

Soil Description:

coarse sand.
deeper than 100cm.
light yellowish brown.
loose.
many shell fragments.