**Project Name:** National Soil Fertility
**Project Code:** NSF **Site ID:** SP16 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (SA)

## Site Information

**Desc. By:** Coppi, John
**Date Desc.:** 14/03/72
**Map Ref.:** Sheet No. : 6728 1:100000
**Northing/Long.:** 139.083333333333
**Easting/Lat.:** -34.7
**Locality:**
**Elevation:** No Data
**Rainfall:** 0
**Runoff:** No Data
**Drainage:** Well drained

## Geology

**ExposureType:** No Data
**Geol. Ref.:** No Data
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Metamorphic rock (unidentified)

## Land Form

**Rel/Slope Class:** No Data
**Morph. Type:** Upper-slope
**Elem. Type:** No Data
**Slope:** 6 %
**Pattern Type:** No Data
**Relief:** No Data
**Slope Category:** No Data
**Aspect:** 90 degrees

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
N/A
**ASC Confidence:**
Confidence level not specified
**Mapping Unit:** N/A
**Principal Profile Form:** N/A
**Great Soil Group:** Grey-brown podzolic soil

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

## Vegetation:

## Surface Coarse Fragments:

## Profile Morphology

| | |
|---|---|
| 0 - 0.1 m | Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments; |
| 0.1 - 0.2 m | Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments; |
| 0.2 - 0.3 m | Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments; |
| 0.3 - 0.4 m | Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments; |
| 0.4 - 0.5 m | Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 0-2%, Quartz, coarse fragments; |
| 0.5 - 0.6 m | Brown (10YR4/3-Moist); , 5YR54, 2-10% , Faint; , 2-10% , Faint; Loamy sand; Massive grade of structure; Very weak consistence; Few (2 - 10 %), Ferruginous, , Nodules; |
| 0.6 - 0.7 m | Yellowish brown (10YR5/4-Moist); , 2.5YR46, 10-20% , Distinct; , 10YR43, 10-20% , Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Very strong consistence; Few (2 - 10 %), Ferruginous, , Nodules; |
| 0.7 - 0.8 m | Yellowish brown (10YR5/4-Moist); , 2.5YR46, 10-20% , Distinct; , 10YR43, 10-20% , Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Ferruginous, , Nodules; |
| 0.8 - 0.9 m | Yellowish brown (10YR5/4-Moist); , 2.5YR46, 10-20% , Distinct; , 10YR32, 10-20% , Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Very strong consistence; 0-2%, Gravel, coarse fragments; |
| 0.9 - 1 m | Yellowish brown (10YR5/4-Moist); , 2.5YR46, 10-20% , Distinct; , 10YR32, 10-20% , Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Very strong consistence; 0-2%, Gravel, coarse fragments; |

## Morphological Notes

## Observation Notes

SP72/P1; MORPHOLOGY FROM CORE 7; CHEMICAL DATA FROM BULK OF 4 CORES:

## Site Notes

**Project Name:** **National Soil Fertility**
**Project Code:** **NSF** **Site ID:** **SP16** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (SA)**

EDEN VALLEY

**Project Name:** National Soil Fertility
**Project Code:** NSF **Site ID:** SP16 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (SA)

## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.1 | 5.3I | 0.11D | | | | | | | | |
| 0.1 - 0.2 | 5.3I | 0.07D | | | | | | | | |
| 0.2 - 0.3 | 5.4I | 0.07D | | | | | | | | |
| 0.3 - 0.4 | 5.7I | 0.07D | | | | | | | | |
| 0.4 - 0.5 | 5.7I | 0.07D | | | | | | | | |
| 0.5 - 0.6 | 6I | 0.07D | | | | | | | | |
| 0.6 - 0.7 | 6.2I | 0.07D | | | | | | | | |
| 0.7 - 0.8 | 6.4I | 0.07D | | | | | | | | |
| 0.8 - 0.9 | 6.8I | 0.07D | | | | | | | | |
| 0.9 - 1 | 7.1I | 0.08D | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis GV | CS | FS | Silt | Clay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.1 | | | | | 0.086A | | | | 22C | 64 | 0 | 11 |
| 0.1 - 0.2 | | | | | 0.054A | | | | | | | |
| 0.2 - 0.3 | | | | | 0.04A | | | | | | | |
| 0.3 - 0.4 | | | | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | | | | |
| 0.5 - 0.6 | | | | | 0.025A | | | | | | | |
| 0.6 - 0.7 | | | | | | | | | 10C | 40 | 7 | 42 |
| 0.7 - 0.8 | | | | | | | | | | | | |
| 0.8 - 0.9 | | | | | | | | | | | | |
| 0.9 - 1 | | | | | 0.023A | | | | 5C | 58 | 9 | 27 |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | | K sat | K unsat |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| m | | g/g - m3/m3 | | | | | | | mm/h | mm/h |
| 0 - 0.1 | | | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | |
| 0.3 - 0.4 | | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | | |
| 0.5 - 0.6 | | | | | | | | | | |
| 0.6 - 0.7 | | | | | | | | | | |
| 0.7 - 0.8 | | | | | | | | | | |
| 0.8 - 0.9 | | | | | | | | | | |
| 0.9 - 1 | | | | | | | | | | |

**Project Name:** **National Soil Fertility**
**Project Code:** **NSF** **Site ID:** **SP16** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (SA)**

**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 2A1 | Air-dry moisture content |
| 3_C_B | Electrical conductivity or soluble salts - Total soluble salts % |
| 4A_C_2.5 | pH of soil - pH of 1:2.5 soil/water suspension |
| 5_C_B | Water soluble Chloride - Method recorded as B |
| 7A2 | Total nitrogen - semimicro Kjeldahl , automated colour |
| MIN_EC | Exchange Capacity - Minerology |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_CS | Coarse sand (%) - Not recorded |
| P10_NR_FS | Fine sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |
| XRD_C_Il | Illite - X-Ray Diffraction |
| XRD_C_Is | Interstratified clay minerals - X-Ray Diffraction |
| XRD_C_Ka | Kaolin - X-Ray Diffraction |
| XRD_C_Mm | Montmorillonite - X-Ray Diffraction |