**Project Name: National Soil Fertility** 

**Project Code:** NSF Site ID: SP6 Observation ID: 1

Agency Name: **CSIRO Division of Soils (SA)** 

**Site Information** 

Coppi, John Locality:

Desc. By: Date Desc.: Elevation: 27/05/70 No Data Sheet No.: 7022 Map Ref.: 1:100000 Rainfall: 760 Northing/Long.: 140.75 Runoff: No Data

Easting/Lat.: Drainage: Imperfectly drained -37.55

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Unconsolidated material (unidentified) No Data

**Land Form** 

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: Elem. Type: Lower-slope Relief: No Data **Slope Category:** No Data Plain No Data Slope: <1 % Aspect:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification: Mapping Unit: N/A Principal Profile Form: Dv3.42

**ASC Confidence: Great Soil Group:** Yellow podzolic

Confidence level not specified soil

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

Vegetation:

#### **Surface Coarse Fragments:**

## Profile Morphology

0 - 0.1 m

| 0 0.11111    | Gravel, coarse fragments;   |
|--------------|---|
| 0.1 - 0.2 m  | Brown (7.5YR4/2-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments;  |
| 0.2 - 0.3 m  | Brown (7.5YR4/2-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments;  |
| 0.3 - 0.4 m  | Brown (10YR5/3-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments;   |
| 0.4 - 0.5 m  | Brown (10YR5/3-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments;   |
| 0.5 - 0.55 m | Light yellowish brown (10YR6/4-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;                                 |
| 0.55 - 0.6 m | Yellowish brown (10YR5/4-Moist); , 2.5YR48, 10-20% , Distinct; , 10-20% , Distinct; Heavy clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse |
| 0.6 - 0.7 m  | Yellowish brown (10YR5/4-Moist); , 2.5YR48, 10-20% , Distinct; , 10-20% , Distinct; Heavy clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse |
| 0.7 - 0.8 m  | Yellowish brown (10YR5/4-Moist); , 2.5YR48, 10-20% , Distinct; , 10-20% , Distinct; Heavy clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse |
| 0.8 - 0.9 m  | Yellowish brown (10YR5/4-Moist); , 2.5YR48, 10-20% , Distinct; , 10-20% , Distinct; Heavy clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse |
| 0.9 - 1 m    | Yellowish brown (10YR5/4-Moist); , 2.5YR48, 10-20% , Distinct; , 10-20% , Distinct; Heavy clay; Strong grade of structure, 5-10 mm; Very strong consistence;                      |

Brown (7.5YR4/2-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%,

### **Morphological Notes**

#### **Observation Notes**

SP70/P9; CHEMICAL DATA IS FROM BULK OF 8 CORES;

**Site Notes** 

National Soil Fertility
NSF Site ID: SP6
CSIRO Division of Soils (SA) Observation ID: 1

Project Name: Project Code: Agency Name:

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# **Laboratory Test Results:**

| Depth   | рН   | 1:5 EC   |             | hangeable<br>Mg                       | Cations<br>K                 | E<br>Na    | xchangeable<br>Acidity | CEC      | E                 | CEC      | ESP               |
|---|--|--|-------------|---------------------------------------|------------------------------|------------|------------------------|----------|-------------------|----------|-------------------|
| m   |  | dS/m   | Ca          | wig                                   | K                            | Cmol (+)   |                        |          |                   |          | %                 |
| 0 - 0.1<br>0.1 - 0.2<br>0.2 - 0.3<br>0.3 - 0.4<br>0.4 - 0.5<br>0.5 - 0.55<br>0.55 - 0.6<br>0.6 - 0.7<br>0.7 - 0.8<br>0.8 - 0.9<br>0.9 - 1 | 7I<br>5.6I<br>5.9I<br>6.4I<br>6.5I<br>6.6I<br>6.7I<br>6.8I<br>6.9I | 0.53D<br>0.16D<br>0.08D<br>0.08D<br>0.07D<br>0.08D<br>0.08D<br>0.08D |             |                                       |                              |            |                        |          |                   |          |                   |
| Depth   | CaCO3  | Organic<br>C   | Avail.<br>P | Total<br>P                            | Total<br>N                   | Total<br>K | Bulk<br>Density        | Pa<br>GV | article S<br>CS I |          | lysis<br>ilt Clay |
| m   | %  | %  | mg/kg       | %                                     | %                            | %          | Mg/m3                  |          |                   | %        | ,                 |
| 0 - 0.1<br>0.1 - 0.2<br>0.2 - 0.3<br>0.3 - 0.4<br>0.4 - 0.5<br>0.5 - 0.55   |  |  |             |                                       | 0.14<br>0.08<br>0.04<br>0.03 | 9A<br>3A   |                        |          | 33C<br>22C        | 50<br>39 | 7 7               |
| 0.55 - 0.6<br>0.6 - 0.7<br>0.7 - 0.8<br>0.8 - 0.9<br>0.9 - 1  |  |  |             |                                       | 0.03                         |            |                        |          | 11C               | 20       | 2 62              |
| Depth   | COLE   |  | Grav        | Gravimetric/Volumetric Water Contents |                              |            |                        |          | K sat             | Ku       | nsat              |
| m   |  | Sat.   | 0.05 Bar    | 0.1 Bar<br>g/                         | 0.5 Bar<br>g - m3/m3         | 1 Bar      | 5 Bar 1                | 5 Bar    | mm/h              | m        | m/h               |
| 0 - 0.1<br>0.1 - 0.2<br>0.2 - 0.3<br>0.3 - 0.4<br>0.4 - 0.5<br>0.5 - 0.55<br>0.55 - 0.6<br>0.6 - 0.7<br>0.7 - 0.8<br>0.8 - 0.9<br>0.9 - 1 |  |  |             |                                       |                              |            |                        |          |                   |          |                   |

**National Soil Fertility Project Name:** 

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#### **Laboratory Analyses Completed for this profile**

2A1 Air-dry moisture content

3\_C\_B

Electrical conductivity or soluble salts - Total soluble salts % pH of soil - pH of 1:2.5 soil/water suspension 4A\_C\_2.5 5\_C\_B 7A2 Water soluble Chloride - Method recorded as B Total nitrogen - semimicro Kjeldahl , automated colour

MIN\_EC Exchange Capacity - Minerology

P10\_NR\_C Clay (%) - Not recorded Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10\_NR\_CS P10\_NR\_FS P10\_NR\_Z

Silt (%) - Not recorded XRD\_C\_Hm XRD\_C\_II XRD\_C\_Is XRD\_C\_Ka Hematite - X-Ray Diffraction
Illite - X-Ray Diffraction

Interstratified clay minerals - X-Ray Diffraction

Kaolin - X-Ray Diffraction