

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN195 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

**Site Information**

<b>Desc. By:</b>	G. W. Geeves	<b>Locality:</b>	Old Junee
<b>Date Desc.:</b>	15/05/89	<b>Elevation:</b>	340 metres
<b>Map Ref.:</b>	Sheet No. : 8328 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6145500 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	540000 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	360 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Gn2.13
		<b>Great Soil Group:</b>	N/A

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam (Heavy); Diffuse change to -
A2	0.1 - 0.3 m	Reddish brown (5YR4/3-Moist); ; Clay loam, fine sandy; Gradual change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Clay loam; Gradual change to -
B22	0.6 - 0.8 m	Yellowish brown (10YR5/6-Moist); ; 2.5YR46, 10-20% , 5-15mm, Distinct; , 10YR43, 10-20% , 5-15mm, Distinct; Fine sandy clay;

**Morphological Notes**

A2	not bleached?
B21	Comm Co3 below about 50 cm, associated with secondary mottles
B22	Comm Co3 below about 50 cm, associated with secondary mottles

**Observation Notes**

Gradational red profile. Red earth with yellowing at depth and cabonate below 50 cm common and 20 cmm of charcoal from 10-30 cm, otherwise same as An 194. Calcarous Red Earth.

**Site Notes**

Cultivated paddock, crop recently sown. Lower slope of hill 500 from crest in rolling parna country. Granite? On crests similar to 194.

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	4.81B		5.46K	0.88	1.98	0.04			
0.1 - 0.2	5.06B		6.86K	1.02	1.61	0.04			
0.2 - 0.3	5.49B		14.19K	0.06	1.57	1.5			
0.3 - 0.4	6.33B		9.54K	0.03	0.79	1.05			
0.4 - 0.6	7.05B								
0.6 - 0.8	7.27B								

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**Laboratory Analyses Completed for this profile**

13_NR_AL	Extractable Al(%) - Not recorded
13_NR_MN	Extractable Mn(%) - Not recorded
15_NR_AL	Exchangeable aluminium - method not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct