

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN216 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	G. W. Geeves	Locality:	Wagga
Date Desc.:	16/05/89	Elevation:	220 metres
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	No Data
Northing/Long.:	6120800 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	543000 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	180 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.11
		Great Soil Group:	N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Sod grass, <0.25m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Fine sandy loam (Heavy); Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B21	0.2 - 0.5 m	Red (2.5YR4/6-Moist); ; Clay loam, fine sandy; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B22	0.5 - 0.8 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules;

Morphological Notes

B22 Mn nodules 20-80 cm

Observation Notes

Evidence of hardsetting and rough fabric. Red gradational profile with yellowing at depth. Red Earth. Heavier B22 with Mn nodules. Maybe intergrade to podzolic.

Site Notes

Freshly planted cereal crop on middle of long slope 600 m. from crest of unulating rise back in parna country.

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.1	4.46B		2.98K	0.57	0.5	0.07			
0.1 - 0.2	4.24B		2.34K	0.57	0.5	0.07			
0.2 - 0.3	4.48B		2.59K	0.94	0.4	0.05			
0.3 - 0.4	4.67B		3.08K	1.5	0.35	0.06			
0.4 - 0.5	5.13B								
0.7 - 0.8	5.79B								

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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