

**Project Name:** Plant Industry Paired Site/Acidity Study (Peter Randal)  
**Project Code:** CSIRO\_PI **Site ID:** 3 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

#### Site Information

<b>Desc. By:</b>	N.J. McKenzie	<b>Locality:</b>	
<b>Date Desc.:</b>	10/06/98	<b>Elevation:</b>	560 metres
<b>Map Ref.:</b>	GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	148.9683	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-34.8925	<b>Drainage:</b>	Well 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>	Auger boring, Granodiorite

#### Land Form

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	40 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	6 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):** Hardsetting

**Erosion:** Moderate (sheet)

#### Soil Classification

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

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

**Vegetation:** Low Strata - Sod grass, <0.25m, Closed or dense. \*Species includes - None recorded

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A11	0 - 0.13 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
A12	0.13 - 0.25 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.25 - 0.58 m	Yellowish red (5YR5/8-Moist); Mottles, 7.5YR58, 2-10% , 15-30mm, Distinct; Light medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2	0.58 - 0.75 m	Strong brown (7.5YR5/8-Moist); Mottles, 2.5YR48, 2-10% , 15-30mm, Distinct; Light medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B3	0.75 - 0.85 m	Strong brown (7.5YR5/8-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Dry; Very firm consistence; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -

#### Morphological Notes

A11	Field PSA 60/18/22 (S/Z/C). Twin A1, eroded area.
A12	Field PSA 60/18/22. Many large segregations. Abundant Ma nodules in A12.
B21	Field PSA 35/20/45.
B2	Field PSA 35/20/45. Yellowing in B2 with depth. Has no grittiness and is very friable - parna?
B3	Field PSA 40/15/45. B3 is gritty.

#### Observation Notes

Site is 5m into pasture on the NE corner along the northern edge. Near profiles Pat Walker suggested were aeolian.

#### Site Notes

5km NE of Yass, Near the old Barton Highway. Tagaste vs Improved pasture.

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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		%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar		
m					g/g - m3/m3		15 Bar	mm/h	mm/h

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Laboratory Analyses Completed for this profile