

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM11 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: G. W. Geeves	Locality:
Date Desc.: 11/02/91	Elevation: 290 metres
Map Ref.: Sheet No. : 8630 1:50000	Rainfall: No Data
Northing/Long.: 6258200 AMG zone: 55	Runoff: Very slow
Easting/Lat.: 648200 Datum: AGD66	Drainage: Moderately well drained

Geology

ExposureType: Undisturbed soil core	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Cza	Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data	Pattern Type: Terrace (alluvial)
Morph. Type: Flat	Relief: No Data
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Red Dermosol	Principal Profile Form: Gn2.12
ASC Confidence:	Great Soil Group: Red earth
Confidence level not specified	

Site Disturbance: No effective disturbance. Natural, Complete clearing. Pasture, native or improved, cultivated at some stage,

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O2	0 - 0.02 m	Organic Layer; ;
A11	0.02 - 0.04 m	Brown (7.5YR4/3-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Coarse (>5mm) macropores, Dry; Loose consistence; Non-plastic; Non-sticky; Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Abrupt, Wavy change to -
A12	0.04 - 0.11 m	Brown (7.5YR4/4-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Coarse (>5mm) macropores, Dry; Weak consistence; Non-plastic; Non-sticky; Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Irregular change to -
AB	0.11 - 0.22 m	Yellowish red (5YR4/6-Moist); ; Silty clay loam; Massive grade of structure; Rough-ped fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Few (<1 per 100mm2) Coarse (>5mm) macropores, Dry; Very firm consistence; Slightly plastic; Non-sticky; Cultivation pan, Uncemented, Discontinuous, Massive; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Diffuse, Irregular change to -
B1	0.22 - 0.37 m	Yellowish red (5YR4/8-Moist); Mottles, 2.5YR36, 10-20% , Prominent; Silty clay; Moderate grade of structure, 20-50 mm, Angular blocky; 100-200 mm, Prismatic; Rough-ped fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Medium (2-5mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Coarse (>5mm) macropores, Moderately moist; Very firm consistence; Slightly plastic; Slightly sticky; Many cutans, >50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Soft segregations, weak, segregations; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Irregular change to -

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- B21 0.37 - 0.77 m Yellowish red (5YR5/8-Moist); Mottles, 2.5YR36, 20-50% , Prominent; Silty clay; Moderate grade of structure, 20-50 mm, Angular blocky; 100-200 mm, Prismatic; Rough-ped fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Common (1-5 per 100mm²) Medium (2-5mm) macropores, Few (<1 per 100mm²) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Slightly plastic; Slightly sticky; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations;Common, very fine (0-1mm) roots;
- B22 0.77 - 0.92 m Dark red (2.5YR3/6-Moist); Mottles, 5YR36, 20-50% , Prominent; Moderate grade of structure, 20-50 mm, Angular blocky; 20-50 mm, Prismatic; Rough-ped fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Common (1-5 per 100mm²) Medium (2-5mm) macropores, Few (<1 per 100mm²) Fine (1-2mm) macropores, Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations;Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

COWRA-DELAYNEYS WOODLAND

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[illegible]

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Laboratory Analyses Completed for this profile

13A1_AL	Oxalate-extractable aluminium
13A1_FE	Oxalate-extractable iron
13A1_MN	Oxalate-extractable manganese
13A1_SI	Oxalate-extractable silicon
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_MN	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_SI	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
14H1_CA	Soluble bases/SE (Ca,Mg,K,Na)
14H1_K	Soluble bases/SE (Ca,Mg,K,Na)
14H1_MG	Soluble bases/SE (Ca,Mg,K,Na)
14H1_NA	Soluble bases/SE (Ca,Mg,K,Na)
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
3A1	EC of 1:5 soil/water extract
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6B3	Total organic carbon - high frequency induction furnace, infrared
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A1	Bulk density - g/cm3
P3B3VLc001	0.01 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc003	0.03 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc005	0.05 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc01	0.1 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc03	0.3 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLcSAT	Saturated Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLd06	0.6 BAR Moisture m3/m3 - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P3B3VLd1	1 BAR Moisture m3/m3 - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P3B3VLd15	15 BAR Moisture m3/m3 - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P3B3VLd3	3 BAR Moisture m3/m3 - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P3B3VLd5	5 BAR Moisture m3/m3 - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P6_LP	Dispersion Index (Loveday and Pyle, 1973)
PWS20-63	20-63 micron fraction (%) - Wet Sieving after chemical dispersion
PWS212-425	212-425 micron fraction (%) - Wet Sieving after chemical dispersion
PWS425-1mm	425-1000 micron fraction (%) - Wet Sieving after chemical dispersion
PWS63-212	63-212 micron fraction (%) - Wet Sieving after chemical dispersion