

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM27 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: B. Murphy	Locality:
Date Desc.: 13/03/91	Elevation: 250 metres
Map Ref.: Sheet No. : 8229 1:100000	Rainfall: No Data
Northing/Long.: 6217300 AMG zone: 55	Runoff: Moderately rapid
Easting/Lat.: 497100 Datum: AGD66	Drainage: Moderately well drained

Geology

ExposureType: Undisturbed soil core	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Ou	Substrate Material: No Data

Land Form

Rel/Slope Class: No Data	Pattern Type: Rises
Morph. Type: Lower-slope	Relief: No Data
Elem. Type: Footslope	Slope Category: No Data
Slope: 2 %	Aspect: 45 degrees

Surface Soil Condition (dry): Soft

Erosion: No scalding (scald) Partial, Severe (sheet)
Partial, Moderate (rill) Partial, Moderate (gully)

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Calcic Red Chromosol	Principal Profile Form: Dr2.13
ASC Confidence: Confidence level not specified	Great Soil Group: Red-brown earth

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O	0 - 0.02 m	Organic Layer; ;
A11	0.02 - 0.07 m	Reddish brown (5YR4/4-Moist); ; Fine sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Common (1-5 per 100mm2) Coarse (>5mm) macropores, Dry; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Abrupt change to -
A12	0.07 - 0.14 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Weak grade of structure, 2-5 mm, Platy; Earthy 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, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Very plastic; Normal plasticity; Moderately sticky; Common, very fine (0-1mm)
B21	0.14 - 0.24 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; 20-50 mm, Angular blocky; Smooth-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, Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Gradual change to -
B21	0.24 - 0.52 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; 20-50 mm, Angular blocky; Smooth-ped fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Soil matrix is Slightly calcareous; Few, very fine (0-1mm) roots; Gradual change to -
B22k	0.52 - 0.72 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; 20-50 mm, Angular blocky; Smooth-ped fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Veins, weak, segregations; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Soft segregations, weak, segregations; Soil matrix is Slightly calcareous; Few, very fine (0-1mm)

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B22k 0.72 - 0.92 m Reddish brown (5YR4/4-Moist); Substrate influence, 2-10% , Faint; Strong grade of structure, 50-100 mm, Prismatic; 20-50 mm, Angular blocky; Smooth-ped fabric; Very coarse, (20 - 50) mm crack; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations, weak, segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules, weak, segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules, weak, segregations; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Veins, weak, segregations; Few, very fine (0-1mm) roots;

Morphological Notes

B22k Also mangan ped coatings

Observation Notes

Pan a distinct layer atlas area is My9 but soils look like Qc3

Site Notes

FOSTER PASTURE WEST WYALONG

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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)
PWS1-2mm	1000-2000 micron fraction (%) - Wet Sieving after chemical dispersion
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