## WALKAMIN RESEARCH STATION SOILS

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## REFERENCE

MAPPING UNIT		MAJOR ATTRIBUTES OF DOMINANT SOIL	AUSTRALIAN CLASSIFICATION	GREAT SOIL GROUP	PPF
SOILS DI	ERIVED FR	ROM GRANITIC AND RHYOLITIC ROCKS			. •
Hillslopes	and crests	of gently undulating to undulating rises			1
St	Station	0.04 to 0.11m grey apedal sandy clay loam acid A1 horizon with few quartz pebbles over conspicuously bleached (dry) acid A2 horizon to 0.30m over mottled yellow brown pedal sandy medium to sandy medium heavy clay acid to neutral B2 horizon with few rhyolitic pebbles to 1.0m overlying decomposing granite and rhyolite B3/C horizon.	Grey Chromosol	No suitable group affinities with soloth.	Dy 2.41 Dy 3.41
Cr	Carbeen	0.06-0.08 dark weakly pedal sandy clay loam acid A1 horizon over pale (dry) A2 horizon with few quartz pebbles over mottled yellow-brown pedal sandy light to sandy light medium clay acid B2 horizons with few quartz pebbles to 0.65-0.70m over mottled yellow-brown pedal sandy medium heavy clay B3 horizon with few quartz pebbles to 1.0m over C horizon of decomposing granite.	Yellow Chromosol	No suitable group affinities with yellow podzlic soil.	Dy 3.41
Hillslopes	and footslop	es of gently undulating rises			
u	Lotus	0.10 to 0.31m grey apedal loamy coarse sand acid A1 horizon over conspicuously bleached apedal A2 horizon to 0.55-0.97m over yellow brown apedal coarse sandy loam acid B horizon with few quartz pebbles to 1.0m.	Arenic Rudosol	No suitable group affinities with earthy sand	Uc 2.21
SOILS DE	RIVED FRO	M METAMORPHIC OR GRANITIC ROCKS			
Slopes of t	the gently un	adulating relict fans			
Gr	Glenray	0.04-0.25m dark apedal sandy clay loam acid A1 horizon over pale (dry) A2 horizon to 0.12-0.30m over mottled yellow apedal clay loam sandy to light medium clay acid B horizon with common quartz pebbles and ferromanganiferous nodules to 0.90-1.5m over mottled grey weakly pedal coarse sandy medium heavy clay acid B3 horizon with few ferromanganiferous nodules.	Yellow Kandosol	Yellow earth	Gn 2.21 Um 4.23
		M BASALTIC ROCKS			
Mp Mp	Марее	0.06 to 0.32m dark pedal light clay neutral A horizon with few ferromanganiferous nodules over red pedal light to light medium clay neutral B horizons with few ferromanganiferous nodules.	Red Ferrosol	Euchrozem	Uf6.31
MpR	Mapee Rocky Phase	0.09 to 0.22m dark pedal light clay neutral A horizon with common basaltic stones and manganiferous nodules over red weakly pedal light to light medium clay neutral B1 horizon to 0.48-0.60m over red pedal light to medium clay neutral B2 horizon with few basaltic pebbles and few manganiferous nodules to 1.5m over mottled red pedal light clay B3 horizon with few basaltic pebbles and few ferromanganiferous nodules.	Red Ferrosol	Euchrozem	Uf6.31
Footslope	s of the level				
Wk	Walkan	nin 0.06-0.33m dark pedal light to light medium clay acid A horizon with few ferromanganiferous nodules over mottled yellow-brown pedal light to medium clay neutral B horizon with common ferromanganiferous nodules to 1.0-1.5m over mottled grey-brown pedal light to medium heavy clay neutral B3 horizon with few decomposed		Xanthozem	Uf6.4 Uf6.31 Uf6.33
		basalt pebbles and common ferromanganiferous nodules over			. 2
wks .	Walkam Shallow Phase	in 0.05-0.19 dark pedal light to light medium clay acid to neutral A horizon with few common ferromanganiferous nodules over brown weakly pedal light to light medium clay acid to neutral B1 horizon with common ferromanganiferous nodules to 0.15-0.34n over mottled brown or yellow-brown pedal light to medium clay acid to neutral B horizons with few basaltic pebbles and common ferromanganiferous nodules to 0.5-1.02m over mottled grey or yellow broadlight to medium heavy clay alkaline B3/D horizons with few medium basaltic stones.	id	Xanthozem	Uf6.4 Uf6.31 Uf6.33 Uf6.41
Sd	Snider	0.05-0.15m dark or pedal light to light medium clay to neutral A horizon with few basalt pebbles and few ferromanganiferous nodules over faintly mottled pedal light to medium heavy clay, neutral with common basaltic pebbles and ferromanganiferous nodules to 0.12-0.52m over mottled brown pedal light to medium heavy clay, neutral with common basaltic pebbles and manganiferous nodules over C horizons of decomposing basalt.	Brown Dermosol	No suitable group affinities with prairie soil	Uf6.31
Soils of the	e fans of gen	tly undulating to undulating lava plains			
Mg	Morgan	0.04 to 0.18 dark pedal light to medium clay, acid A1 horizon with common basaltic pebbles over mottled brown pedal light medium to medium heavy clay, alkaline B horizon to 0.12-1.0m basaltic pebbles and few manganiferous or calcium carbonate nodule over mottled brown pedal light medium to medium heavy clay, alka B3 horizon to 0.37-1.3m with few basaltic pebbles and few manganinodules over C horizon of decomposing basalt.	line	No suitable group affinities with brown clay	Uf6.31 Uf6.33 Ug5.32
SOILS DE	RIVED FRO	OM ALLUVIUM			
Soils of the	level to gen	tly undulating alluvial plains			
Md	Maud	0.02-0.05m dark pedal light medium clay, acid A horizon over grey pedal medium heavy clay, alkaline B horizon to 0.61-1.19m over mottled grey pedal medium to medium heavy clay, alkaline B3 horizon with few basalt pebbles.	Grey Vertosol	Grey clay	Ug5.22
MISCELL	ANEOUS U	NITS			
ML	Made La	nd Land associated with buildings, fish ponds, quarries etc.			
SC .	Stream cl	hannel			
S	Detailed :	Sample site for chemical analysis.		,	
P	Pit San	nple site		7	
1. The desc survey	criptions refe	r to the expected range of attributes within the modal concept of the n	neasured soil and not the fu	Il range of properties observe	d during the
2. New Au common at	stralian class tributes only.	ification after Isbell,R.F.(1993), <u>A Classification System for Australian</u>	soils. Third Approximatio	n. This classification is based	on the most

3. Great soil group after Stace et al. (1968), A Handbook of Australian Soils.

4. Principle Profile Form (PPF) after Northcote, K.H. (1979). A Factual Key for the Recognition of Australian Soils.

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AUSTRALIAN MAP GRID, ZONE 55

TRANSVERSE MERCATOR PROJECTION

INTENSITY STATEMENT
This is a high intensity soil survey.
It is based on ground ovservations of the order of an observation to an area of 1.6 hectares.

SCALE (m) 1:5000

AUSTRALIAN MAP GRID, ZONE 55

TRANSVERSE MERCATOR PROJECTION

INTENSITY STATEMENT



