



### INTENSITY STATEMENT This is a high intensity soils survey. It is based on aerial photograph interpretation and ground observations of the order of one observation to an area of 4-6 ha.

## Drawn by S. Wallace.

## REFERENCE

Mapping <sup>X</sup> Unit Code	Series Affiliation	Major Attributes of Dominant Soil *+	Great Soil Group	Main Principal Profile Forms	Mapping <sup>X</sup> Unit Code	Series Affiliation	Major Attributes of Dominant Soil * +	Great Soil Group	Main Principal Profile Forms
		JVIAL PLAINS AND ASSOCIATED PEDIMENTS  ANAGE DEPRESSIONS  0.02 m moderate self mulch over dark to grey medium clay to 0.05 - 0.15 m over	Plank coath	11-5-16		SLOPE POSITION		Direct const	
1Ugc	Barrunga	alkaline dark to grey medium to heavy clay to 1.50 <sup>+</sup> m, moderate to strong gilgai.  Hard setting surface over brown-mottled dark light to light medium clay to 0.05 <sup>-</sup>	Black earth - grey clay.	Ug5.16 Ug5.24		Wygong	0.02m moderate to strong self mulch over dark medium to heavy clay to 0.05 -     0.12m over alkaline dark to grey medium to heavy clay to 0.70 - 1.00m over decomposing rock.	Black earth.	Ug5.12 Ug5.14
1Ugd	Barrunga	O.10m A1 horizon frequently over bleached A2 horizon to 0.08 - 0.15 m over alkaline dark to grey medium to heavy clay to 1.50 <sup>+</sup> m, weak gilgai.  O.02m weak self mulch over brown-mottled grey light medium to medium clay	-(bleached) ++ black earth -(bleached) grey clay.  Grey clay.	Ug2 Ug3.1 Ug5.28	3090	Wygong	Weakly self mulching to hard setting surface over grey to dark light to light medium clay A1 horizon to 0.10 - 0.20m occasionally over bleached A2 to 0.15 - 0.25m, over alkaline grey to dark medium clay to 0.40 - 0.80m over grey to yellow-brown medium clay to 0.70 - 1.00m over decomposing rock.	Grey clay - black earth - (bleached) grey clay.	Ug5.22 Ug5.14 Ug3.2
1Ugf	Barrunga	to 0.05 - 0.15 m over alkaline grey to yellow-grey medium to heavy clay to 1.50 <sup>+</sup> m, weak to moderate gilgai.  Weakly self mulching to hard setting surface over grey to dark light to light medium	(Bleached) grey clay	Ug5.24 Ug3.2	UPPER A	ND MID SLOPES  Dalrymple	0.15 - 0.30m dark to brown clay loam. A horizon over acid to neutral red medium clay to 0.70 - 1.20m over decomposing rock.	Non-calcic brown soil.	Dr2.12 Dr2.11
		clay A1 horizon to $0.05-0.15$ m over bleached A2 horizon to $0.15-0.30$ m over grey medium clay to $0.40-0.80$ m over alkaline grey to yellow-brown medium to heavy clay to $1.50^+$ m, weak to moderate gilgai.		Ug2	5Dya		0.15 - 0.25m dark to brown sandy clay loam to clay loam A horizon over acid to neutral yellow-brown medium clay to 0.70 - 1.00m over decomposing rock.	No suitable group, yellow equivalent of non-calcic	Dy2.12 Dy2.11
PEDIMEN 1Uge	TS WITH LINEAR (	<u>Depression</u> : Weakly self mulching to hard setting surface over dark to grey light to light medium clay to 0.10 - 0.20 m over alkaline dark to grey medium clay to	Black earth - grey clay.	Ug5.16 Ug5.24		OWER SLOPES		brawn soil.	
		0.45 - 0.80m over yellow-brown to grey medium clay to 1.50 <sup>+</sup> m.  Mound: 0.02m moderate self mulch over grey light to medium clay to 0.05 - 0.15m over strongly alkaline grey medium clay to 0.40 - 0.70m over yellow-brown to grey medium clay to 1.50 <sup>+</sup> m.	Grey clay.	Ug5.24 Ug5.28	5Dyb 5Dyf:5Ugc	Kyanoota Underly	0.10 - 0.20m dark to brown clay loam. A horizon over alkaline yellow-brown light medium to medium clay to 0.90 - 1.30m over decomposing rock.  Linear gilgai complex with shelf, depression and narrow mound.	No suitable group.	Dy2.13
		Y ELEVATED FLATS		0.4.00			Shelf: (5Dyf) 0.10 - 0.15m grey clay loam A1 horizon over bleached A2 horizon to 0.15 - 0.20m over alkaline grey medium clay B horizon to 0.80 - 1.10m over decomposing rock.	Solodic-solodized solonetz.	Dy2.43 Dy2.33
YUba	Gaynor	O.05 – O.15 m brown to dark clay loam A horizon bleached throughout or near base over alkaline brown medium to heavy clay B horizon to 0.35 – 0.40m over strongly alkaline yellow-brown light medium clay D horizon to 1.50 <sup>+</sup> m.	Solodic-solodized solonetz.	Db1.43 Db1.43			<u>Depression:</u> (5Ugc) Weakly self mulching to hard setting surface over dark light to light medium clay A1 horizon to 0.10 - 0.15m occasionally over bleached A2 horizon to 0.15 - 0.20m over alkaline dark medium clay to 0.50 - 0.90m over grey to brown medium clay to 0.90 - 1.10m over decomposing rock.	Black earth - (bleached) black earth.	Ug5.14 Ug3.1 Ug5.13
1Dya	Gaynor	0.05 - 0.10m grey sandy clay loam to clay loam. A horizon bleached throughout or near base over alkaline grey medium clay. B horizon to 0.50 - 0.90m over strongly alkaline grey to brown medium clay. B horizon to 1.50 +m.	Solodic-solodized solonetz.	Dy2.43 Dy2.33	LOWER S	SLOPES Ranly	0.10 - 0.20m brown-mottled dark to brown sandy clay loam to clay loam A1 horizon over bleached A2 horizon to 0.15 - 0.30m over alkaline grey medium	Solodic-solodized solonetz.	Dy2.43 Dy2.33
1 Dyb	Gaynor	O.10 - O.15m dark to brown sandy loam to clay loam A horizon bleached throughout or near base over alkaline grey light to light medium clay B horizon to O.40 - 0.60m over strongly alkaline yellow-brown to light grey sandy clay loam to sandy clay D horizon to 1.50 <sup>+</sup> m.	Solodic-solodized solonetz.	Dy2.33 Dy2.43	50.4		clay B horizon to 0.40 - 1.20m over grey to yellow-grey medium clay to 0.80 - 1.50 $^+$ m over decomposing rock or colluvia.		
10ус	Gaynor	0.05 - 0.10m brown-mottled dark to brown clay loam A1 horizon over bleached A2 horizon to 0.10 - 0.15m over alkaline grey medium to heavy clay B horizon to 0.40 - 0.80m over strongly alkaline grey, to yellow-brown medium clay B	Solodic-solodized solonetz.	Dy2.43 Dy2.33	5Dyd	* .	0.05 - 0.10m dark to grey sandy clay loam to clay loam A1 horizon over bleached A2 horizon to 0.10 - 0.12m over strongly alkaline grey to yellow-brown medium clay B horizon to 0.70 - 1.20m over decomposing rock or colluvia.	Solodic-solodized solonetz.	Dy2.43 Dy2.33
1 Dda	Gaynor	horizon to 1.50 *m.  0.05 - 0.10m brown-mottled dark to grey clay loam A1 horizon over bleached A2 horizon to 0.10 - 0.15m over alkaline dark medium to heavy clay B horizon to	Solodic-solodized solonetz.	Dd1.43 Dd1.33			S ALLUVIAL LANDFORMS THE BURDEKIN RIVER ALLUVIAL LANDFORMS  O.05 - 0.50m dark to brown sand to fine sandy loam A1 horizon over grey, brown	No ovitable ways afficial	11-5-21
SOILS OF THE		0.60 - 1.20m over grey light to medium clay B or D horizon to 1.50 <sup>+</sup> m.			0000	burdekin	or yellow A12 or A2 horizon to 0.50 - 1.10m over acid to neutral brown to yellow sand to light sandy clay loam A3 or 8 horizon to 1.50 +m.	No suitable group, affinities with siliceous sand - earthy sand.	Uc5.21 Uc5.11 Uc5.23 Uc4.22
2Uga	Barratta	0.01 - 0.02m weak to moderate self mulch over grey to dark medium to heavy clay to 0.05 - 0.10m over alkaline grey to dark medium to heavy clay to 1.00 - 1.35m over brown medium to heavy clay to 1.50+m, weak gilgai.	Grey clay - black earth.	Ug5.25 Ug5.29 Ug5.15	6Uma	Burdekin	$0.15-0.40m$ dark to brown sandy loam to clay loam. A horizon over acid to neutral brown sandy loam to clay loam. B horizon to $0.80-1.10m$ over brown sandy loam to sandy clay loam. D horizon to $1.50^{+}m$ .	No suitable group, affinities with yellow earth.	Um5.52 Gn2.22 Gn2.41 Uc5.22
2Ugb	Barratta	0.01 - 0.02m weak to moderate self mulch over dark to grey light to light medium clay to 0.05 - 0.10m over alkaline dark to grey medium to heavy clay to 0.75 - 1.00m over brown light to medium clay. D horizon to 1.50 + m, weak gilgai.	Black earth - grey clay.	Ug5.17 Ug5.2	6Gnd	Elkin	0.15 - 0.30m grey to brown sandy loam to clay loam A1 horizon over brown to yellow-brown fine sandy loam to clay loam A2 or A3 horizon to 0.50 - 1.20m over	No suitable group, affinities with yellow podzolic soil.	Gn3.75 Gn3.72
2Ugc	Barratta	Weakly self mulching to hard setting surface over brown-mottled dark to grey light to light medium clay to 0.05 - 0.10m over alkaline grey medium to heavy	Grey clay.	Ug5.28 Ug5.29	80bc	Glenalder	neutral brown to yellow clay loam to light clay B horizon to 1.50 m.  0.10 - 0.20m dark to brown fine sandy loam to fine sandy clay loam A1 horizon over frequently bleached A2 horizon to 0.20 - 0.40m over neutral brown medium clay B	No suitable group, affinities with brown podzolic soil.	Db1.32 Db1.22
2Ugd	Barratta	clay to 1.50 tm, weak to moderate gilgai.  Weakly self mulching to hard setting surface over bleached, brown-mottled grey light to light medium clay to 0.10 - 0.25m over brown-mottled grey medium to	(Bleached) grey clay.	Ug3.2 Ug2	-60ы	Glenalder	horizon to 0.90 - 1.50 <sup>+</sup> m over brown to grey sandy loam to light medium clay D horizon to 1.50 <sup>+</sup> m.  0.05 - 0.25m dark to brown sandy loam to loam fine sandy A1 horizon over yellow-brown to grey fine sandy loam to fine sandy clay loam A2 or A3 horizon to 0.20 -	Brown podzolic soil.	Db1.22 Db1.12
2Uge	Barratta	heavy clay to 1.00 - 1.20m over yellow-brown to grey light to mcdium clay to 1.50 <sup>+</sup> m, strongly alkaline at and below 0.90 - 1.20m, moderate to strong gilgai.  Weakly self mulching to hard setting surface over occasionally bleached brown-	Grey clay - (bleached) grey clay	. Ug5.29	BACKPLA	NN.	0.40m over neutral brown to yellow-brown fine sandy clay to medium clay B horizon to 0.80 – 1.40m over sandy clay loam to fine sandy clay D horizon to 1.50 $^{+}$ m.		Dy2.12
		mottled dark to grey light to light medium clay to 0.05 - 0.25m over brown- mottled grey medium to heavy clay to 0.80 - 1.30m over brown to grey light to medium clay to 1.50 <sup>+</sup> m, strongly alkaline above or at 0.60m, weak to moderate gilgai.		Ug5.25 Ug5.28 Ug3.2	6Umb2	Burdekin	$0.20-0.30m$ dark to grey loam. fine sandy to fine sandy clay loam. A horizon over acid to neutral dark to yellow-brown clay loam to light clay. B horizon to $0.55-0.75m$ over neutral brown to grey fine sandy clay loam to medium clay. D horizon to $1.50^+m$ .	No suitable group.	Um5.52 Um6.31 Gn3.91
2Ugg	Barratta	0.01 - 0.02m moderate self mulch over grey medium to heavy clay to 0.10 - 0.20m over grey medium to heavy clay to 1.20 - 1.40m over yellow-brown to grey medium to heavy clay to 1.50 <sup>+</sup> m, strongly alkaline at and below 0.60 - 0.90m, moderate to strong gilgai.	Grey clay.	Ug5.29 Ug5.24 Ug5.28	BUgo		Hard setting surface over brown-mottled, dark to grey light clay. A1 horizon to $0.10-0.20$ m over bleached. A2 horizon to $0.15-0.30$ m over alkaline grey medium clay B horizon to $0.75-1.50^+$ m over grey to brown light clay. D horizon to $1.50^+$ m.	(Bleached) grey clay- no suitable group.	Ug2 Ug3.2 Uf3
2Ugh	Barratta	0.01 - 0.02m moderate self mulch over brown-mottled grey medium to heavy clay to 0.10 - 0.15m over grey medium to heavy clay to 1.50 $^{4}$ m, strongly alkaline at and below 0.30m, moderate to strong gilgai.	Grey clay.	Ug5.28 Ug5.24	6Gna	Farencer	0.20 $-$ 0.40m dark clay loam. A horizon over neutral brown to dark light to medium clay. B horizon to 0.90 $-$ 1.20m over brown sandy clay loam to sandy clay. D horizon to 1.50 $^4$ m.	No suitable group, affinities with prairie soil.	Gn3.22 Gn3.92 Gn3.42
20ус	Barratta, clay loam variant	0.05 - 0.10m brown-mottled dark to grey clay loam A1 horizon over bleached A2 horizon to 0.12 - 0.25m over alkaline brown-mottled grey medium to heavy clay B horizon to 1.10 -1.30m over grey to yellow-brown light to medium clay D horizon to 1.50 <sup>+</sup> m, moderate to strong gilgai.	Solodic-solodized solonetz.	Dy3.33 Dy3.43	6Gne	Elkin	0.15 - 0.35m dark to grey clay loam A1 horizon over bleached A2 horizon to 0.25 - 0.50m over alkaline dark to grey light clay B horizon to 1.50 <sup>+</sup> m.	No suitable group.	Dd1.12 Gn3.49 Gn3.03
SLIGHTLY 20ba	CELEVATED FLAT	S  0.03 - 0.05m brown clay loam A1 horizon over bleached A2 horizon to 0.05 -	Solodic-solodized solonetz.	Db1.43	6Dbb	Kelona	0.10 - 0.25m dark to brown loam to clay loam A1 horizon over bleached A2 horizon to 0.30 - 0.40m over alkaline grey to brown or dark medium clay B horizon	Solodic soil.	Gn3.06  Dy2.43  Dy2.33
		0.10m over brown medium clay B horizon to 1.00 – 1.50 <sup>†</sup> m over brown sandy clay to light medium clay D horizon to 1.50 <sup>†</sup> m, strongly alkaline at and below 0.30m.		Db1.33	SOILS OF M	IISCELLANEOUS	to 1.00 - 1.20m over brown to yellow-brown light to light medium clay D horizon to 1.50 m.		Db1.33 Dd1.33
2Dbb	Oakey	0.05 - 0.15m dark to brown clay loam A1 horizon over bleached A2 horizon to 0.12 - 0.20m over brown medium clay B horizon to 1.20 - 1.50 <sup>+</sup> m over brown sandy clay to light medium clay D horizon to 1.50 <sup>+</sup> m, strongly alkaline above or at 0.60m.	Solodic-solodized solonetz.	Db1.33 Db1.43		RIMARILY OF CE	O.10 - O.30m dark coarse sand to sandy loam. A horizon over acid to neutral brown coarse sand to sandy loam. B horizon to 0.80 - 1.00m over mottled sand.	No suitable group, affinities with earthy sand - siliceous	Uc5.11 Uc5.21
20bc	Oakey	$0.05-0.20 m$ brown-mottled dark to grey loam to clay loam. A1 horizon over bleached. A2 horizon to $0.20-0.35 m$ over brown-mottled grey to brown medium clay. B horizon to $1.00-1.50^{+}m$ over brown sandy clay to light medium clay. D horizon to $1.50^{+}m$ , strongly alkaline at and below $0.90-1.20 m$ .	Solodic-solodized solonetz.	Dy3.43 Dy3.33 Db2.43 Db2.33	LEVEES		D horizon to 1.50 <sup>+</sup> m.	sand .	
2Dbd	Oakey	0.10 - 0.20m dark to brown loam to fine sandy clay loam A1 horizon over bleached A2 horizon to $0.20$ - $0.35$ m over grey to brown medium to heavy clay B horizon to $0.70$ - $1.00$ m over brown light to medium clay D horizon to $1.50$ +m, strongly alkaline	Solodic-solodized solonetz.	Dy2.43 Dy2.33 Db1.43	6Uga		Hard setting to weakly self mulching surface over dark light to light medium clay to $0.05-0.20$ m over alkaline dark to grey medium clay to $1.00-1.50^+$ m over grey sandy clay to medium clay. D horizon to $1.50^+$ m.	Black earth - grey clay.	Ug5.17 Ug5.16 Ug5.2
20be	Oakey	at and below 0.60m.  0.05 - 0.10m brown-mottled dark to grey loam to clay loam A1 horizon over bleached A2 horizon to 0.12 - 0.20m over red-mottled brown medium to heavy	Solodic-solodized solonetz.	Db1.33 Db2.43 Db2.33	60re	Lanona	0.10 - 0.20m dark to grey loam to clay loam A1 horizon over bleached A2 horizon to 0.20 - 0.50m over alkaline yellow-mottled red to brown medium to heavy clay B horizon to 1.00 - 1.35m over red-brown sandy clay to medium clay D horizon to 1.50 <sup>+</sup> m.	Solodic-solodized solonetz.	Dr3.33 Dr3.43
20ya	Oakey	clay B horizon to 1.15 - 1.25m over brown light to medium clay D horizon to 1.50 +m, strongly alkaline at and below 0.90 - 1.20m.  0.05 - 0.10m brown-mottled dark to brown clay loam. A horizon bleached	Solodic-solodized solonetz.	Dy2.33	6Dbe	Glenalder	0.05 - 0.15mbrown-mottled dark to brown fine sandy loam to fine sandy clay loam A1 horizon over bleached A2 horizon to 0.10 - 0.20m over neutral to alkaline yellow-mottled brown medium to heavy clay B horizon to 0.55 - 0.70m over brown to yellow- brown loamy sand to light medium clay D horizons to 1.50+m.	Red-brown earth.	Db2.33 Db2.43 Db2.32
		throughout or near base over grey medium to heavy clay $$ 8 horizon to $0.90$ – $1.50$ m over brown sandy clay to light medium clay $$ D horizon to $1.50$ m, strongly alkaline at and below $0.60$ m.		Dy2.43	50bh		0.05 - 0.15m grey to brown loam to clay loam A1 horizon over bleached A2 horizon to 0.10 - 0.25m over alkaline brown light to medium clay B horizon to	Solodic-solodized solonetz.	Db1.43 Db1.33
2Dyb	Oakey	$0.05-0.10m$ brown-mottled dark grey to brown loam to clay loam A1 horizon over bleached A2 horizon to $0.12-0.20m$ over grey medium to heavy clay B horizon to $0.90-1.50^{\dagger}m$ over brown light to medium clay D horizon to $1.50^{\dagger}m$ , strongly alkaline above or at $0.60m$ .	Solodic-solodized solonetz.	Dy2.33 Dy2.43	Land Administration	JTS,FANS AND L			
2Ddb	Dowie	0.05 – 0.12m brown-mottled dark to grey loam to clay loam A horizon bleached throughout or near base over dark to grey medium to heavy clay B horizon to 0.65 – 1.00m over brown light to medium clay D horizon to 1.50 $^{+}$ m, strongly alkaline	Solodic-solodized solonetz.	Dd1.33 Dy2.33 Dd1.43	6Ufa 6Ufd		0.10 - 0.30m brown to dark sandy clay to light clay. A horizon over alkaline dark medium clay. B horizon to 1.50 m.      0.15 - 0.45m dark light to light-medium clay. A horizon over acid to neutral.	No suitable group, affinities with chernozem.  Prairie soil.	Uf6.32
SOILS OF TH	HE LOCAL ALLU	at and below 0.30m.  VIAL PLAIN			GUfe		dark to brown light to light medium clay B horizon to 0.70 - 1.50 *m over brown to yellow sand to loamy sand D horizon to 1.50 *m.  0.05 - 0.30m brown-mottled dark to grey light to medium clay A horizon over	Alluvial soil.	Uf6.31
3Uga	Koberinga	0.02m moderate medium self mulch over dark heavy clay to 0.90 - 1.20m over grey heavy clay to $1.50^+$ m, strongly alkaline above or at 0.60m, carbonate present above or at 0.75m, moderate to strong gilgai.	Black earth.	Ug5.16	6Dba		acid to alkaline grey to brown sand D1 horizon to 0.30 - 0.70m over neutral to alkaline sand to clay D horizons to 1.50 <sup>+</sup> m.  0.10 - 0.20m dark to brown sandy loam to sandy clay loam A1 horizon over		Uf6.23
3Ugd	Koberinga	0.02m strong coarse self mulch over dark heavy clay to 0.75 – 1.20m over grey heavy clay to 1.50 <sup>+</sup> m, strongly alkaline at or below 0.90 m, carbonate present below 0.75m, moderate to strong gilgai.	Black earth.	Ug5.16			bleached A2 horizon to 0.15 – 0.30m over alkaline brown medium clay B horizon to 1.50 $^{\uparrow}\text{m}$ .	Solodic-solodized solonetz.	Db1.43 Db1.33
3Uge	Koberinga	0.02m weak self mulch over brown-mottled dark medium clay to 0.10 - 0.15m over alkaline dark heavy clay to 0.80 - 1.20m over brown light to medium clay D horizon to 1.50 <sup>4</sup> m, weak to moderate gilgai.	Black earth.	Ug5.17	6Dyb		0.15 – 0.30m dark to brown sandy loam A1 horizon over bleached A2 horizon to 0.30 - 0.60m over neutral yellow-mottled yellow-brown sandy clay to medium clay B horizon to 1.50 <sup>+</sup> m.	Soloth-solodic soil.	Dy3.32 Dy3.42
3Ugf		$0.01-0.02$ m weak self mulch over dark silty clay to $0.10-0.30$ m over alkaline dark medium clay to $0.80-1.00$ m over dark to grey medium to heavy clay to $1.50^+$ m.	Black earth.	Ug5.1 Ug5.16	60ye		0.20 - 0.40m dark to brown loamy sand to sandy loam A1 horizon over bleached A2 horizon to 0.30 - 0.80m over alkaline yellow-mottled grey to yellow-brown medium clay B horizon to $1.50^{+}$ m.	Solodic-solodized solonetz.	Dy3.43 Dy3.33
STATE OF THE STATE OF	ARGINS BORDERIN	NG OTHER LANDSCAPE UNITS			6Dyf		0.10 - 0.25m grey to dark loam to clay loam A1 horizon over bleached A2 horizon to 0.25 - 0.50m over alkaline brown-mottled yellow-brown to brown medium clay B horizon to 1.20 - 1.50 <sup>+</sup> m over brown light to light medium clay D horizon to 1.50 <sup>+</sup> m.	Solodic-solodized solonetz,	Dy3.43 Dy3.33 Db2.43
3Ugk		0.01 - 0.02m weak to moderate self mulch over brown-mottled grey medium clay to 0.10 - 0.15m over alkaline grey to yellow-grey medium clay to 1.20 - 1.50 +m over yellow light medium to medium clay 2BC horizon to 1.50 +m, moderate to strong gilgai.	Grey clay.	Ug5.2 Ug5.28	6Dyg	Kelona	0.05 - 0.10m grey to brown or dark loam to clay loam. A1 horizon over bleached A2 horizon to 0.10 - 0.20m over alkaline brown-mottled grey to yellow medium to heavy clay. B horizon to 0.70 - 1.20m over yellow-brown to grey fine sandy.	Solodic-solodized solonetz.	Dy3.43 Dy3.33
SOILS OF TI		DULATING RISES ON ACID INTRUSIVE ROCKS, PEDIMENTS AND PRIOR ST	TREAMS  No suitable group,	Uc2.12	6Dyh		clay loam to light medium clay D horizon to 1.50+m.  0.15 - 0.30m dark to brown sand to sandy loam A1 horizon over bleached A2 horizon to 0.20 - 0.50m over alkaline yellow-mottled grey medium clay B horizon	Solodic-solodized solonetz.	Dy3.43 Dy3.33
PEDIMENT	TS AND PRIOR STI	A2 horizon to $0.40$ - $0.90$ m over acid grey to yellow-brown coarse sand to sandy loam B horizon to $1.00$ - $1.50$ $^+$ m, over coarse sand or hard rock to $1.50$ $^+$ m.	no suitable group, affinities with podzol.	Uc2.21	60уј		to 1.50 <sup>+</sup> m.  0.05 - 0.20m dark to grey sandy loam to clay loam A horizon bleached throughout or near base over grey medium to heavy clay B horizon to 1.00 -1.50 <sup>+</sup> m over	Solodic-solodized solonetz.	Dy2.43 Dy2.33
40ba	STIND FRIUNSTI	0.05 m - 0.20 m brown sandy loam to sandy clay loam A1 horizon over bleached A2 horizon to 0.20 - 0.25 m over alkaline brown medium clay B horizon to 0.45 - 1.50 + m, over coarse sand D horizon to 1.50 + m.	Solodic-sololdized solonetz.	Db1.43 Db1.33	SD.A		grey to yellow-brown sandy loam to medium clay $$ D horizon to $1.50^{+}$ m, strongly alkaline at and below 0.30m.	Saladia acii	
4Dyg	Bambave	0.10 - 0.20 m dark to yellow-brown loam to clay loam A1 horizon over bleached A2 horizon to 0.15 - 0.30 m over grey to yellow-brown medium clay B horizon to 0.80 - 1.50 + m over sandy clay to light clay D horizons or rock, alkaline at and	Solodic-solodized solonetz.	Dy2.33 Dy2.43	OUGD	DEDBEGGGG	0.15 – 0.30m dark to grey coarse sand to sandy loam A1 horizon over bleached A2 horizon to 0.25 – 0.50m over alkaline grey to dark medium to heavy clay B horizon to $1.50^+\text{m}$ .	Solodic soil.	Dy2.43 Dd1.33
4Dyh		below 0.60m.  O.10 - 0.20m dark to grey light sandy clay loam to clay loam A1 horizon over bleached A2 horizon to 0.15 - 0.30m over brown-mottled grey medium clay B horizon to 0.75 - 1.50 *m over gravelly sandy clay to light clay D horizon or rock,	Solodic-solodized solontez.	Dy3.43 Dy3.33	6Dda	DEPRESSIONS	0.10 – 0.15m dark to brown clay loam. A1 horizon over bleached. A2 horizon to 0.15 – 0.25m over alkaline dark medium clay. B horizon to 0.70 –1.10m over grey to dark clay loam to light medium clay. D horizon to $1.50^+$ m.	Solodic-solodized solonetz.	Dd1.43 Dd1.33
		alkaline at and below 0.30m.							

# VARIANTS AND PHASES SUFFIXES

- Depth to underlying rock or decomposing rock is significantly less than that of the modal soil type.
- 8 Buried soils or D horizons of contrasting or coarser texture underlie the modal soil type at depths less than 1.50m or at depths less than that specified in the major attributes. 3 Significant variation in depth or field texture of A horizon to that of the modal soil type.
- Significant amounts of coarse gravel or cobble within soil. These coarse fragments are absent from the modal soil type.
- 5 Significant variation in colour of the B horizon to that of the modal soil type.
- 8 Soil type contains significant amounts of small pebbles throughout the B horizon. These coarse fragments are absent from the modal soil type. R Areas with sufficient rock outcrop, boulders, cobble or gravel cover to make tillage difficult or impractical.
- C Areas with long, narrow smooth-sided open depressions, < 3m deep.

## **MISCELLANEOUS UNITS** Areas of rock outcrops, or boulders.

15 Soil sampling sites. (702) Unique map area (U M A ) number.

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- Within areas of intense soil variability, the mapping unit is a soil complex and is named after the two most frequently occuring soil types, for example, 2Ugc-2Dya.
- Values of attributes are described in terms of the dominant values in the Leichhardt Downs Section only. The full range of values
- + Variants and phases of soil types may occur, for example. 5Dra3, 2DybE. Such mapping units are described by the major attributes of the modal soil type modified by the description of the variant or phrase concerned. Variants and phases are described separately in the reference.
- + + These bracketed qualifiers are not an official part of great soil group names.