SOILS BURDEKIN RIVER IRRIGATION AREA QUEENSLAND DEPARTMENT OF PRIMARY INDUSTRIES MULGRAVE SECTION By J.I. McClurg, R.J. Tucker and T.E. Donnollan LOCALITY MAP LEICHHARDT 155 A WOODHOUSE MTN 102 QUEENSLAND DEPARTMENT OF PRIMARY INDUSTRIES SURVEY by J.I. McClurg, R.J. Tucker and T.E. Donnollan, Queensland Department of Primary Industries, Ayr. SCALE 1:25 000 CARTOGRAPHY by S.F.Crofts and J.K.Myers, Land Resources Branch, Queensland Department of Primary Industries, Brisbane. GREY NUMBERED GRID LINES ARE 1000 METRE INTERVIALS OF THE AUSTRALIAN MAP GRID, ZONE 55 GRID VALUES ARE SHOWN IN FULL AT THE SOUTH WEST CORNER OF THE MAP. BASE MAP compiled from the 1:25 000 Topographic Series supplied by the Queensland Department of Mapping and Surveying and reproduced with the permission of the Transverse Mercator Projection Surveyor General, Brisbane. PRINTED at the Government Printing Office, Brisbane. 1987 INTENSITY STATEMENT

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REFERENCE

	Mapping Unit Code×	Series Affiliation	Major Attributes of Dominant Soil 1+	Great Soil Group	Main Principal Profile Forms	Mapping Unit Code [×]	Series Affiliation	Major Attributes of Dominant Soil ^{†+}	Great Soil Group	Main Principal Profile Forms
	SOILS OF T	HE LOCAL ALLUVIA	AL PLAINS AND ASSOCIATED PEDIMENTS			SOILS OF THE GENTLY UNDULATING RISES ON AN INTRUSIVE ROCK COMPLEX				
	LOW LY	ING FLATS AND	DRAINAGE DEPRESSIONS 0.02m moderate self mulch over dark to grey medium clay to 0.05 - 0.15m	Grey clay-black earth	Uq5.24	NO FIXI	ED SLOPE POSITIO	0.02m moderate to strong self mulch over dark medium to heavy clay to	Black earth	Ug5.12
			over alkaline grey to dark medium to heavy clay to 0.90 -1.50+m over grey to yellow-brown medium to heavy clay to 1.50+m. Normal gilgai, 0.05-0.30m vertical interval.		Uğ5.16	Sflve	Yalboota	0.05-0.12m over alkaline dark to grey medium to heavy clay to 0.70-1.00m over decomposing rock. 0.05-0.15m dark sandy clay loam to clay loam A1 horizon over frequently	Solodic soil - no suitable group	Uğ5.14 Dy3.33
	1Ugf	Barrunga	Weakly self mulching to hard setting surface over bleached, brown-mottled grey to dark light to light medium clay to 0.05 - 0.15m over grey medium clay to 0.40 - 0.80m over alkaline grey to yellow-brown medium to heavy clay to 1.50+m. Normal gilgai, 0.05 - 0.15m vertical interval.	(Bleached)++ grey clay	Ug3.2 Ug2	CRESTS	, UPPER AND MID	bleached brown A2 hórizon to 0.15-0.30m over neutral to alkaline orangémottled yellow-brown medium to heavy clay B horizon to 1.05-1.50+m over decomposing rock.	colour com me canada group	Dy3.32 Dy3.22
	PEDIME!	NTS AND SLIGHT	LY ELEVATED FLATS 0.10 - 0.15m dark to brown sandy loam to clay loam A horizon bleached	Solodic-solodized solonetz	Dy2.33	5Dra	Dalrymple	0.15-0.30m dark to brown clay loam A horizon over neutral red to red- brown light medium to medium clay B horizon to 0.70-1.20m over	Non-calcic brown soil	Dr2.12
	1Dyc3	Gaynor	throughout or near base over alkaline grey to yellow-brown light to light medium clay B horizon to 0.40 - 0.60m over strongly alkaline yellow-brown to-light grey sandy clay loam to sandy clay D horizon to 1.50+m. 0.05 - 0.10m brown-mottled dark to brown light clay A1 horizon over bleached A2 horizon to 0.10 - 0.15m over grey medium to heavy clay B	No suitable group, affinities with solodic soil	Dy2.43 Uf3 Uf2	UPPER /	AND MID SLOPES	decomposing rock. 0.15-0.25m dark to brown sandy clay loam to clay loam A horizon over	No suitable group, vellow	Dy2.12
	1Dda	Gaynor	horizon to 0.40 - 0.80m over strongly alkaline grey to yellow-brown medium clay B 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	Solodic-solodized solonetz	Dd1.33 Dd1.43		OWER SLOPES	neutral yellow-brown medium clay B horizon to 0.70-1.00m over decomposing rock.		
	20112 07 17		horizon to 0.60 - 1.20m over grey to yellow-brown light to medium clay B or D horizon to 1.50+m.			-2 A Se-2 NBA		Linear gilgai complex. Vertical interval of gilgai less than 0.10m. Mound (5Ugd): 0.01-0.02m weak to moderate self mulch over grey light to light medium clay to 0.08-0.10m over grey medium clay to 0.40-0.60m	Grey clay	Ug5.22 Ug5.26 Ug5.27
		HE BURDEKIN RIVE	R ALLUVIAL PLAIN					over strongly alkaline grey to brown medium clay to 1.00-1.20m over decomposing rock. Depression (5Ugc): Weakly self mulching to hard setting surface over dark	Black earth - (bleached) black	Ug5.14
	2Ugc	Barratta	Weakly self mulching to hard setting surface over occasionally bleached; brown-mottled dark to grey light to light medium clay to 0.05 - 0.15m over neutral to strongly alkaline grey medium to heavy clay to 1.50+m. Normal gilgai, 0.05 - 0.30 m vertical interval.	Grey clay - (bleached) grey clay	Ug5.24 Ug5.28 Ug3.2			light to light medium clay A1 horizon to 0.10-0.15m occasionally over bleached A2 horizon to 0.15-0.20m over dark medium clay to 0.50-0.90m over strongly alkaline grey to brown medium clay to 0.80-1.10m over decomposing rock.	earth	Ug3.1 Ug5.13
	2Ugd	Barratta	Weakly self mulching to hard setting surface over bleached, brown-mottled grey light to light medium clay to 0.10 - 0.25 m over brown-mottled grey medium clay to 1.00 - 1.20m over grey to brown light to medium clay to 1.50+m, strongly alkaline at and below 0.90-1.20m. Normal gilgai, 0.10-0.30m vertical interval.	(Bleached) grey clay	Ug3.2 Ug2	5Dyb	Kyanoota	0.10-0.20m dark to brown clay loam A horizon over alkaline yellow to brown light medium to medium clay B horizon to 0.90-1.30m over decomposing rock.	No suitable group	Dy2.13
	2Uge	Barratta	Weakly self mulching to hard setting surface over occasionally bleached, brown-mottled 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 light to medium clay to 1.50+m, strongly alkaline above or at 0.60m. Normal gilgai, 0.05-0.30m vertical interval.	Grey clay - (bleached) grey clay	Ug5.29 Ug5.25 Ug3.2 Ug5.2	5Dyc	SLOPES	0.10-0.20m dark to brown clay loam A1 horizon over bleached A2 horizon to 0.15-0.30m over strongly alkaline grey medium clay B horizon to 0.40-1.20m over grey to yellow-brown medium clay B horizon to 0.80-1.50+m over decomposing rock.	Solodic-solodized solonetz	Dy2.33 Dy2.43
	2Ugf	Barratta	0.01-0.02m moderate self mulch over brown-mottled grey medium to heavy clay to 0.05-0.20m over brown-mottled grey medium to heavy clay to 0.90-1.50+m over grey to brown medium clay to 1.50+m, neutral throughout or alkaline to strongly alkaline at 1.20-1.50m. Normal gilgai, 0.10-0.50m	Grey clay	Ug5.2 Ug5.29	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
	2Ugg	Barratta	0.01-0.02m moderate self mulch over brown-mottled grey medium to heavy clay to 0.10-0.20m over grey medium to heavy clay to 1.20-1.40m over	Grey clay	Ug5.29 Ug5.24	SOILS OF	MISCELLANEOUS AI	LUVIAL LANDFORMS		
	201.1	Parratta Valinas	yellow- brown to grey medium to heavy clay to 1.50+m, strongly alkaline at and below 0.60-0.90m. Normal gilgai, 0.10-0.50m vertical interval.	Grey clay	Ug5.28		FLOOD-OUTS AN	CT ALLUVIAL LANDFORMS		
	2Ugh	Barratta, Yalinga Barratta	0.01-0.02m moderate to strong self mulch over brown-mottled grey medium to heavy clay to 0.10-0.15m over grey medium to heavy clay to 1.00-1.50+m over brown medium to heavy clay to 1.50+m, strongly alkaline at and below 0.30m. Normal gilgai, 0.10-0.50m vertical interval. Normal gilgai 0.10-0.30m vertical interval.	Grey clay	Ug5.29 Ug5.28 Ug5.24	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 neutral brown to yellow-brown clay loam to light clay B horizon to 1.50+m.	No suitable group, affinities with yellow podzolic soil	Gn3.75 Gn3.72 Gn3.22
			Mound: 0.01 - 0.02 m weak to strong self mulch over grey to dark medium to heavy clay to 0.05 - 0.12 m over grey medium to heavy clay to 1.00 - 1.50+m over brown light to light medium clay D horizon to 1.50+m, strongly alkaline at and below 0.30 - 0.60 m.		Uğ5.28 Ug5.24	60rb	Lancer	0.10-0.20m dark to grey loam to clay loam A1 horizon over bleached A2 horizon to 0.20-0.45m over neutral red medium clay B horizon to 1.00-1.35m over red-brown clay loam D horizon to 1.50+m	Red podzolic soil	Dr2.32 Dr2.42
			Depression: Hard setting surface over 0.05 - 0.10m frequently bleached, brown-mottled grey to brown light to light medium clay over brown-mottled grey light medium to medium clay to 0.30-0.60m over alkaline grey to yellow-brown medium clay to 0.70-1.20m over brown light to light medium clay D horizon to 1.50+m, strongly alkaline at and below 0.90 - 1.20m.	(Bleached) grey clay - grey clay - no suitable group	Ug3.2 Ug5.2 Uf6.33	6Drc	Lanona	0.10-0.20m dark to grey loam to clay loam A1 horizon over bleached A2 horizon to 0.20-0.30m over alkaline red-brown to red medium clay B horizon to 1.00-1.35m over red-brown to brown fine sandy clay to light clay D horizon to 1.50+m.	Solodic soil	Dr2.43 Dr2.33
	2Dyc	Barratta, clay loam variant	0.05-0.10m brown-mottled dark to brown clay loam A1 horizon over bleached A2 horizon to 0.12-0.25m over alkaline brown-mottled grey to	Solodic-solodized solonetz	Dy3.33 Dy3.43	6Dba		0.10-0.20m dark to brown loam to sandy clay loam A1 horizon over bleached A2 horizon to 0.15-0.30m over brown medium clay B horizon to 1.50+ \acute{m} , alkaline at and below 0.60m.	Solodic-solodized solonetz	Db1.33 Db1.43
	SLIGHTL	Y ELEVATED FLAT	brown medium to heavy clay B horizon to 1.10-1.30m over yellow-brown to grey light to medium clay D horizon to 1.50+m. Normal gilgai, 0.10-0.25m vertical interval.		Db2.33	6Dbe	Glenalder	0.05-0.15m brown-mottled dark to brown loam to clay loam A1 horizon over bleached A2 horizon to 0.10-0.20m over alkaline red-mottled brown medium clay B horizon to 0.55-0.70m over brown to grey loamy sand to light medium clay D horizons to 1.50+m.	Red-brown earth	Db2.33 Db2.43
	2Dba	Dowie	0.05-0.10m brown clay loam A horizon bleached throughout or near base over brown medium clay B horizon to 1.00-1.50+m over brown light to light medium clay D horizon to 1.50+m, strongly alkaline at and below 0.30m	Solodic-solodized solonetz	Db1.33 Db1.43	6Dyb2		0.15-0.30m dark to brown sandy loam A1 horizon over bleached A2 horizon to 0.30-0.60m over acid to neutral yellow-mottled yellow-brown sandy clay to light medium clay B horizon to 0.60-1.00m over yellow-brown sand to clay loam D horizon to 1.50+m.	Solodic soil-soloth	Dy3.32 Dy3.42 Dy3.41
	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+m over brown to yellow-brown fine sandy clay to light medium clay D horizon to 1.50+m, strongly alkaline at and below 0.60m.	Solodic-solodized solonetz	Db1.43 Db1.33	60ус	Tootra	0.15-0.4m dark to grey loam to clay loam A1 horizon over bleached A2 horizon to 0.45-0.80m over acid to neutral red-mottled yellow to brown medium clay B horizon to 1.50+m.	Yellow podzolic soil	Dy3.42 Dy3.41 Db2.32
	2Dbc	Oakey	0.05-0.20m dark to grey loam to clay loam A1 horizon over bleached A2 horizon to 0.20-0.35m over brown-mottled grey to brown medium clay B horizon to 1.00-1.50+m over dark-mottled brown to yellow-brown fine 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	Dy3.33 Dy3.43 Db2.43	6Dyf	1.3	0.10-0.25m grey to dark loam to clay loam A1 horizon over bleached A2 horizon to 0.25-0.50m over alkaline red-mottled brown to yellow-brown medium clay B horizon to 1.20-1.50+m over brown light to light medium clay D horizon to 1.50+m.	Solodic-solodized solonetz	Dy3.43 Dy3.33
,	2Dbd	Oakey	0.10-0.20m brown-mottled dark to brown clay loam A1 horizon over bleached A2 horizon to 0.20-0.35m over grey to brown medium clay B horizon to 0.70-1.00m over brown to yellow-brown fine sandy clay to light medium clay D horizon to 1.50+m, strongly alkaline at and below 0.60m.	Solodic-solodized solonetz	Dy2.43 Dy2.33 Db1.43	6Dyg	Kelona	0.05-0.10m grey to dark loam to clay loam A1 horizon over bleached A2 horizon to 0.10-0.20m over strongly alkaline brown-mottled grey medium to heavy clay B horizon to 0.70-1.20m over brown-mottled yellow-brown to grey clay loam to light medium clay D horizon to 1.50+m.	Solodic-solodized solonetz	Dy3.33 Dy3.43
	2Dbe	Oakey	0.05-0.10m brown-mottled dark to grey clay loam A1 horizon over bleached A2 horizon to 0.12-0.20m over brown-mottled grey to brown medium 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 - 1.20 m.	Solodic-solodized solonetz	Dy3.33 Db2.33 Db2.43	6Dbh	AIN	0.05-0.15m dark to brown loam to clay loam A1 horizon over bleached A2 horizon to 0.10-0.25m over strongly alkaline brown medium clay B horizon to 0.60-1.00m over brown clay loam to light medium clay D horizon to 1.50+m.	Solodic-solodized solonetz	Db1.43 Db1.33
	2Dya	Oakey	0.05 - 0.10m brown-mottled grey to brown clay loam A horizon bleached throughout or near base over grey medium to heavy clay B horizon to 0.90 - 1.50+m over brown light to light medium clay D horizon to 1.50+m, strongly alkaline at and below 0.60m. Frequently normal gilgai, less than 0.10 m vertical interval.	Solodic-solodized solonetz	Dy2.33 Dy2.43	CLOSED	DEPRESSIONS Tootra	0.10-0.20m brown-mottled grey to dark loam to clay loam A1 horizon over	Yellow podzolic soil	Dy3.42
	2Dyb	Oakey	0.05-0.10m brown-mottled grey to brown 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+m over brown light to medium clay D horizon to 1.50+m, strongly alkaline above or at 0.60m.	Solodic-solodized solonetz	Dy2.43 Dy2.33			bleached A2 horizon to 0.20-0.40m over acid to neutral red-mottled yellow- brown to brown medium clay B horizon to 1.20-1.30m over red-brown sandy clay to light clay D horizon to 1.50+m.		Dý3.41 Dy3.32 Db2.32
	2Dda	Oakey	0.05-0.12m brown-mottled dark to brown clay loam A horizon bleached throughout or near base over dark to brown medium clay B horizon to 0.90-1.20m over dark-mottled brown to yellow-brown light to medium clay D horizon to 1.50+m, strongly alkaline at and below 0.60-0.90m.	Solodic-solodized solonetz	Dd1.33 Db1.33		FLOOD-OUTS AN	TS - BARRATTA CREEK ALLUVIAL LANDFORMS ND FANS	*	
	2Ddb	Dowie	0.05-0.12m brown-mottled grey to brown clay loam A horizon bleached throughout or near base over grey to dark medium to heavy clay B horizon to 0.65-1.00m over brown light to medium clay D horizon to 1.50+m,	Solodic-solodized solonetz	Dy2.33 Dy2.43 Dd1.33	, Sugar	Yellabin	0.10-0.30m dark coarse sand to sandy loam A horizon over acid to neutral brown to yellow-brown coarse sand to sandy loam B horizon to 0.80-1.00m over brown-mottled coarse sand D horizon to 1.50+m.	No suitable group, affinities with earthy sand	Uc5.11 Uc5.21 Uc5.23
	2Ddc-2Ugi		strongly alkaline at and below 0.30m. Linear gilgai complex. Vertical interval of gilgai less than 0.05m, 60-70% depression. Depression(2Ddc): 0.05-0.20m brown mottled dark clay loam A1 horizon over bleached A2 horizon to 0.20-0.35m over strongly alkaline dark to	Solodic-solodized solonetz	Dd1.33 Dy2.33	60cc	Burdekin	0.05-0.50m dark to brown sand to fine sandy loam A1 horizon over grey, brown 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 B horizon to 1.50+m.	No suitable group, affinities with siliceous sand-earthy sand	Uc5.21 Uc5.11 Uc5.23 Uc4.22
			grey medium to heavy clay B horizon to 0.80m-1.20m over grey to brown medium to heavy clay B horizon to 1.00-1.40m over yellow-brown light medium to medium clay D horizon to 1.50+m.	· / /		6Umb2	Burdekin	0.20-0.30m dark to grey loam to 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 brown to grey sand to medium clay D horizons to 1.50+m.	No suitable group	Um5.52 Um6.31 Gn3.91
			Mound(2Ugi): 0.01-0.02m moderate to strong self mulch over grey to brown medium to heavy clay to 0.10-0.20m over strongly alkaline grey to brown medium to heavy clay to 1.00-1.30m over yellow-brown medium clay D horizon to 1.50+m.	Grey clay-brown clay	Ug5.2 Ug5.3	6Dya5		0.10-0.40m dark to brown loamy sand to sandy loam over bleached A2 horizon to 0.60-1.20m over acid to neutral, grey to brown-mottled grey to yellow-brown sandy clay to light medium clay B horizon to 1.50+m.	Yellow podzolic soil	Dy3.41 Dy3.42
	SOILS OF T	HE GENTLY UNDULA	ATING RISES ON ACID INTRUSIVE ROCKS, PEDIMENTS AND PRIOR STRE	AMS		6Dyh		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 light medium	Solodic-solodized solonetz	Dy3.43 Dy3.33
	CRESTS	AND SIMPLE SLO				6Dyj		to medium clay B horizon to 1.50+m. 0.02-0.15m dark to grey sandy loam to clay loam A1 horizon over bleached A2 horizon to 0.05-0.20m over grey medium clay B horizon to 1.00-1.50+m	Solodic-solodized solonetz	Dy2.43 Dy2.33
	49d ·	Panwood	0.05-0.15m grey to yellow-brown coarse sand to sandy clay loam A horizon over acid to neutral grey to yellow-brown coarse sand to sandy clay loam B horizon to 0.30-1.10m over decomposing rock or colluvia.	No suitable group, affinities with siliceous sand	Uc5.11 Um5.21	CHANN	IEL BENCHES	over grey-brown to yellow-grey sandy clay loam to fine sandy clay D horizon to 1.50+m, strongly alkaline at and below 0.30m.		
	PEDIMEN Guaz	Wenlee	0.05-0.10m grey coarse sand to coarse sandy loam A1 horizon over bleached A2 horizon to 0.30-0.60m over neutral grey to light yellow-grey sandy clay loam B horizon to 0.65-1.00m over brown-mottled grey-brown corase sandy loam D horizon to 1.50+m.	No suitable group	Gn2.92 Gn2.95	6Gne		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+m.	No suitable group	Gn3.49 Gn3.03 Gn3.06
	4Dya3		0.05-0.15m grey clay loam A1 horizon over bleached A2 horizon to 0.10-0.25m over grey light to medium clay B horizon to 1.50+m, strongly alkaline at 1.20-1.50m.	Solodic-solodized solonetz	Dy2.43 Dy2.33	6Dbb	Kelona	0.10-0.25m dark to grey clay loam A1 horizon over bleached A2 horizon to 0.30-0.40m over alkaline brown or dark medium clay B horizon to 1.00-1.20m over brown to yellow-brown fine sandy loam to light medium clay D horizon to 1.50+m.	Solodic soil	Db1.33 Db1.43 Dd1.43 Dd1.33
	4Dyd		at 1.20-1.50m. 0.10-0.30m grey to brown coarse sand to sandy loam A1 horizon over bleached A2 horizon to 0.40-0.95m over acid to neutral brown-mottled grey to yellow-brown light to medium clay B horizon to 0.75-1.50+m over brown-mottled grey to yellow-brown sandy clay to light clay B horizon to	Soloth-solodic soil	Dy3.41 Dy3.31 Dy3.42	CLOSED) and Open depi	RESSIONS Weakly self mulching to hard setting surface over dark to grey light to light medium clay to 0.05-0.20m over alkaline dark to grey light to medium	Black earth - grey clay	Ug5.17 Ug5.16
	4Dye	Vendave	1.30-1.50+m over red- mottled grey to yellow-brown sandy clay loam to sandy clay D horizon to 1.50+m. 0.15-0.25m dark to grey light sandy clay loam to clay loam A1 horizon over bleached A2 horizon to 0.35-0.40m over alkaline red-mottled grey to	Solodic-solodized solonetz	Dy3.43 Dy3.33	60gc		clay to 1.00-1.50+m over grey to brown sandy clay to medium clay D horizon to 1.50+m. Hard setting surface over brown-mottled, dark to grey light clay to 0.10-0.20m over bleached brown mottled dark to grey light clay to 0.15-0.30m	(Bleached) grey clay	Ug5.2 Ug2 Ug3.2
	4Dyg	Bambave	yellow-brown light to medium clay B horizon to 0.95-1.50+m over decomposing rock or sand. 0.10-0.20m grey to dark 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 0.80-1.50+m over sandy clay to light clay D horizon or	Solodic-solodized solonetz	Dy3.33 Dy3.43	6Dda		over alkaline grey medium clay to 0.75-1.50+m over grey to brown light clay to 1.50+m. 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 dark to grey clay loam to light medium clay D horizon to 1.50+m.	Solodic-solodized solonetz	Dd1.43 Dd1.33
	4Dyh	*	decomposing rock, alkaline at and below 0.60m. 0.10-0.20m dark to grey light sandy clay loam to clay loam A1 horizon over bleached A2 horizon to 0.15-0.30m over grey medium clay B horizon to 0.75-1.50+m over grey sandy clay D horizon or decomposing rock to	Solodic-solodized solonetz	Dy2.33 Dy2.43			2 13.123. 10 1301111.		
	4Dyk		1.50+m, alkaline at and below 0.30m. 0.05-0.15m grey coarse sand to loam A1 horizon over bleached A2 horizon to 0.35-1.00m over acid grey sandy clay loam to light medium clay B	Soloth	Dy2.41 Dy2.31					
	40ga	Grendal	horizon to 0.70-1.10m over decomposing rock. 0.10-0.20m brown-mottled grey to brown loamy sand to loam fine sandy A1 horizon over bleached A2 horizon to 0.35-0.65m over acid red-mottled	Gleyed podzolic soil	Dg2.41 Dg2.31		÷ .			
			light grey clay loam to sandy clay B horizon to 0.85-1.00m over sandy clay loam D horizon to 1.50+m.		Dyr.J1			MICCELL AMEQUICUMITS		

VARIANTS AND PHASES

147° 15′00′′

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 6 ha.

Depth to rock is significantly less than that of the modal soil type.

Buried soils or D horizons of contrasting or coarser texture underlie the modal soil type at

Comments of the second

- depths less than 1.50 m or at depths less than that specified in the major attributes.

 Significant variation in depth or field texture of A horizon to that of the modal soil type.
- Significant variation in colour of B horizon to that of the modal soil type.
- Vertical interival of gilgai significantly different from that of the modal soil type.

Areas with sufficent rock outcrop, boulders or cobble cover to make tillage difficult or impractical:

Areas affected by severe erosion.

C Areas with long, narrow smooth-sided open depressions, < 3m deep.

W Areas which are subject to permanent or seasonal inundation and which require substantial drainage and reclamation works before any production is possible.

MISCELLANEOUS UNITS

Areas of rock outcrops, or boulders.

Closed depressions excavated by human activity.

42 Soil sampling sites by Reid and Baker (1984).

Soil sampling sites by J. I. McClurg, R. J. Tucker and T. E. Donnollan.

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 2Uge-2Dya.

Values of attributes are described in terms of the dominant values in this area only. The full range of values within each soil type in the Lower Burdekin Valley does not necessarily occur in this area.

+ Variants and phases of soil types may occur, for example 5Dral,4DygE. Such mapping units are described by the major attributes of the modal soil type modified by the description of the variant or phase concerned. Variants and phases are described separately in the reference.

These bracketed qualifiers are not an offical part of great soil group names.

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