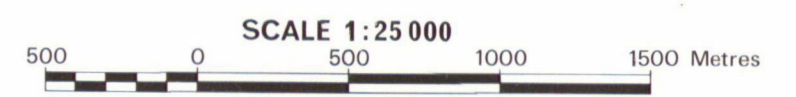


REFERENCE

MAP UNIT	MAJOR CHARACTERISTICS OF DOMINANT SOIL	GREAT SOIL GROUP T	PPF **
SOILS OF THE ALLUVIAL PLAINS			
Mr	DARK CLAY LOAMS	Alluvial soil	Um1.44
Mg	MOORE	No provision	Gn2.42
Br	BROMELTON*	Prairie soil - Chernozem	Uf6.32 Gn3.42
DARK WEAKLY SELF-MULCHING SEASONALLY CRACKING CLAYS			
Mu	MULLER	Black earth	Ug5.15 Ug5.17
DARK MODERATELY SELF-MULCHING SEASONALLY CRACKING CLAYS			
Wr	WARRILL	Black earth	Ug5.16 Ug5.17
Ug	UGARAPUL	Black earth	Ug5.15 Ug5.17
GILGAIED MOTTLED DARK SEASONALLY CRACKING CLAYS			
Fa	FASSIFERN*	Weissenboden - Grey clay	Ug5.16 Ug5.24
SOILS OF THE UNDULATING PLAINS			
SHALLOW RED SANDY CLAY LOAMS			
St	STIBBES	Red earth	Um5.51
FRIABLE NON-CRACKING CLAY LOAMS / CLAYS			
Ka	KALAMBA	No provision	Uf6.31
Ch	CHURCHBANK*	Prairie soil	Uf6.31 Gn3.22
Pu	PURDON	Chernozem	Uf6.31 Db3.13 Gn3.43
SHALLOW SELF-MULCHING SEASONALLY CRACKING CLAYS			
Wk	WARUMKARIE	Black earth - Grey clay	Ug5.12 Ug5.22
Pe	PENNEL	Black earth - Brown clay	Ug5.13 Ug5.32
DEEP SELF-MULCHING SEASONALLY CRACKING CLAYS			
Ku	KULGUN*	Black earth - Grey clay	Ug5.14 Ug5.24 Gn3.93
Ke	KELLY	Black earth - Grey clay	Ug5.23 Ug5.32
Mc	McGRATH	Black earth - Brown clay	Ug5.15 Ug5.34 Ug5.37
SANDY DUPLEX SOILS			
Ro	ROSEVALE*	Soloth	Df2.41 Db1.42
Di	DIECKMANN	Soloth	Dy5.42 Db4.32
Wi	WISS	Red podzolic	Df2.51 Gn2.14
CLAY LOAM DUPLEX SOILS			
La	LANCE	Soloth	Dy2.21 Dy3.41
Ye	YELLUNGA	Solodic	Db1.33 Dt2.43
SOILS OF THE LOW HILLS			
SHALLOW GRAVELLY LOAMS / CLAY LOAMS			
Ra	RANGEVIEW	Lithosol	Um6.21 Gn2.81
Fr	FRAZER*	Lithosol	Um4.1 Gn2.11 Uct.44
SHALLOW GRAVELLY DUPLEX SOILS			
Or	ORTELS	Solodic	Db1.43 Dy4.43
Wt	WATTERS	Soloth	Df2.41 Df3.41
SEVERELY DEGRADED SOILS			
Br-E	BROMELTON - ERODED PHASE		
Mu-E	MULLER - ERODED PHASE		
Wr-S	WARRILL - SALINE PHASE		

QUEENSLAND
DEPARTMENT OF PRIMARY INDUSTRIES
REFERENCE AREA - KALBAR
SOILS
by B.Powell



SCALE 1:25 000
Drawn by P.Zande

CONTOUR INTERVAL: 10 METRES
WITH SELECTED 5 METRE ADDITIONAL CONTOURS
HORIZONTAL DATUM: AUSTRALIAN GEODESIC DATUM 1980
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM
TRANSFORMED INDICATOR PROJECTION
BASELINE IN METRES

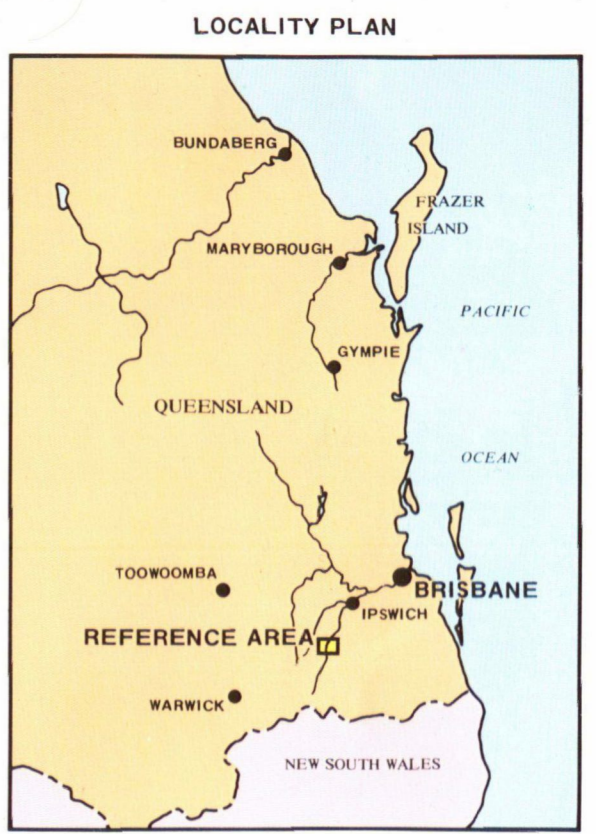
TRUE NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTER OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1975 AND MOVES EASTWARD AT THE RATE OF 0.1 ANNUALLY. THIS PROJECTED RATE OF CHANGE IS VALID UNTIL 1985.

GRID CONVERGENCE: 0°11'00"
GRID MAGNETIC ANGLE: 11°00'

NOTE
* This soil is identified as a soil described by Paton (1971) and is given the Paton name.
** Principal Profile Forms (Northcote, 1971)
† Poch Stace et al (1968), 'A Handbook of Australian Soils'.
--- clear boundary
- - - gradual boundary
- - - - - diffuse boundary

Map units are named after the dominant soil.
Dominant soil occupies >70% of a map unit area.
Deep soils are usually greater than 70 cm deep.
Bleached A₂ - horizons have a whitish colour and are much paler than the surface soil and subsoil.
Duplex soils: soils which have strongly contrasting texture profiles with a lighter textured surface soil (clay loam or lighter) over a heavier textured (more clayey) subsoil.

R9 Soil Sample Site R9



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