

### SOILS OF THE CARDWELL - TULLY AREA, NORTH QUEENSLAND

by M.G. Cannon, C.D. Smith and G.G. Murtha

SCALE 1 : 50 000



GREY NUMBERED GRID LINES ARE 100 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 58  
GRID VALUES ARE SHOWN IN FULL ONLY AT THE SOUTH WEST CORNER OF THE MAP

Transverse Mercator Projection

Intensity Statement  
This is a medium intensity soil survey. It is based on aerial photograph interpretation  
and ground observations of the order of one observation to an area of 25-50 ha.

Drawn by J.N. Jeffery

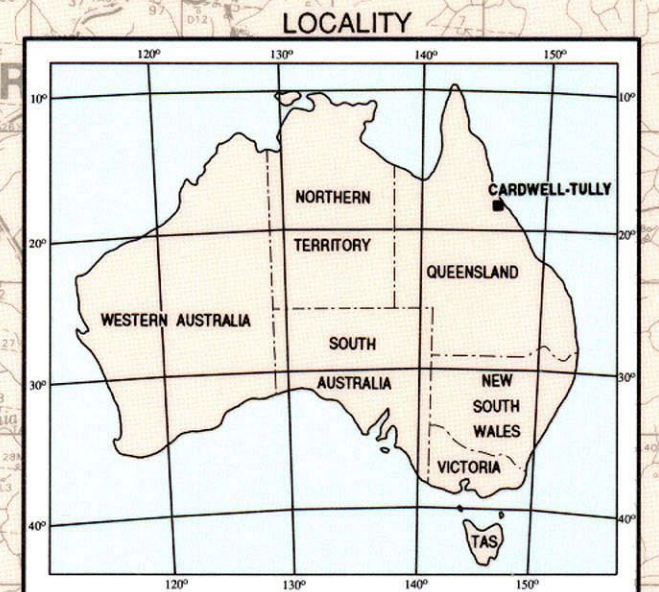
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BASE MAP supplied by the Queensland Forest Service, Department of Primary Industries.

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### MAP LEGEND

SOIL ASSOCIATION	Q.S.G. 11	P.F.F. 2	L.V. 4	MAJOR CHARACTERISTICS OF DOMINANT SOILS 11
<b>Soils Formed on Beach Ridges</b>				
TU	TOCKLEA	Uk1.11	Uk1.11	Quaternary
HA	HALL	Us1.23	Uk1.23	Deep coarse sand, light brown or yellowish brown. Dark to black A1 horizon, weakly developed. A2 horizon in pale brown. B horizon coarse sand and shell.
GO	GOOSBARRA	Us2.2	Uk2.2	Dark A horizon, blackish A2 horizon, reddish yellow B horizon.
KU	KURRIMINE	Us2.33	Uk2.33	Typical
KA	KAYGAROO	Us2.2	Uk2.2	Dark to black A1 horizon, black to strongly blackish A2 horizon. Moderately developed B horizon. A2 horizon is strongly developed. A2 horizon is strongly developed. A2 horizon is strongly developed.
BR	BROOKVA	Us1.21, Gs2	Uk1.21, Gs2	Apical Underflow
SP	SPADDS	Us2.52, Gs2	Uk2.52, Gs2	Kandahar
MA	MARRA	Gs2.31	Uk2.31	Haplobut
NE	NEEDEF	Us1.11	Uk1.11	Black. Dark grey to black. Sandy soil. Sandy B horizon. Sandy B horizon. Sandy B horizon.
<b>SOILS OF BASIC ROCK ORIGIN</b>				
PK	PK GR	Us1.31	Uk1.31	Andisol 7
MG	MARGUERITE	Gs11, UG	Uk11, UG	Andisol 7
DG	DUNDIG	Gs11	Uk11	Haplobut
MS	MS	Gs11	Uk11	Haplobut
<b>SOILS OF ACID IGNEOUS ROCK ORIGIN</b>				
UC	UTCHEE	Us1.31, Gs2	Uk1.31, Gs2	Kandahar
CA	CADILLAC	Us2.21, Gs2	Uk2.21, Gs2	Typical Kandahar
EL	ELPHINSTONE	Us2.21, Gs2	Uk2.21, Gs2	Typical
TY	TYSON	Gs2.14	Uk2.14	Kandahar
HL	HILLVIEW	Gs2.14	Uk2.14	Palaemon and Palaemon
BL	BLENHEIM	Gs2.14	Uk2.14	Haplobut
AL	ALMA	Gs2.14	Uk2.14	Haplobut
KR	KIRRAMA	Gs2.31	Uk2.31	Kandahar
TH	THORPE	Gs2.31	Uk2.31	Kandahar
TH	THORPE	Gs2.31	Uk2.31	Kandahar
TH	THORPE	Gs2.31	Uk2.31	Kandahar
PR	PRISON	Gs2.31	Uk2.31	Kandahar
MJ	MALSON	Gs2.31	Uk2.31	Typical Kandahar
LU	LUGGER	Gs2.31	Uk2.31	Kandahar
BD	BUNDAGE	Gs2.31	Uk2.31	Typical Kandahar
RF	ROSEFIELD	Gs2.31	Uk2.31	Typical Kandahar
PO	PORTER	Gs2.31	Uk2.31	Kandahar
CO	CODRINE	Gs2.31	Uk2.31	Kandahar
AN	ANNETT	Gs2.31	Uk2.31	Kandahar
FE	FEELSA	Gs2.31	Uk2.31	Kandahar
FE	FEELSA	Gs2.31	Uk2.31	Kandahar
MI	MISCELLANEOUS UNIT	Gs2.31	Uk2.31	Episodic Kandahar
MI	MISCELLANEOUS UNIT	Gs2.31	Uk2.31	Episodic Kandahar
MI	MISCELLANEOUS UNIT	Gs2.31	Uk2.31	Episodic Kandahar
<b>WELL DRAINED SOILS ON ALLUVIUM</b>				
VH	VIRRAL	Gs2.14	Uk2.14	Andisol
BL	BLUESWATER	Gs2.31	Uk2.31	Typical Kandahar
IN	INNISFAIL	Us1.31	Uk1.31	Haplobut
DI	DIAMOND	Us2.11	Uk2.11	Typical Kandahar
TU	TULLY	Us2.31	Uk2.31	Dystric
GA	GANGE	Us2.31	Uk2.31	Dystric
MO	MOORMAN	Us2.31	Uk2.31	Dystric
WH	WHITFIELD	Us2.31	Uk2.31	Dystric
LI	LIVERPOOL	Us2.31	Uk2.31	Haplobut
JY	JAPPOON	Us2.31	Uk2.31	Haplobut
<b>POORLY DRAINED SOILS FORMED ON ALLUVIUM</b>				
CO	COOM	Gs2.31	Uk2.31	Palaemon
TR	TRIMANA	Gs2.31	Uk2.31	Typical Kandahar
BU	BULGUN	Gs2.31	Uk2.31	Haplobut
WA	WARWAP	Us2	Uk2	Haplobut
DE	DERRA	Us2	Uk2	Haplobut
HE	HEWITT	Gs2.31	Uk2.31	Haplobut
HV	HERVEY	Gs2.31	Uk2.31	Haplobut
JY	JARARA	Gs2.31	Uk2.31	Haplobut
LE	LEE	Gs2.31	Uk2.31	Haplobut
<b>HUMIC TO ORGANIC SOILS AND PEATS</b>				
BU	BULGURU	Us2	Uk2	Haplobut
ND	NIND	Us2	Uk2	Haplobut
MS	MANSFIELD	Us2	Uk2	Haplobut

•T461 Sample site.  
Pior drainage and initial channels commonly dominated by Goodboe series soils.  
1. Good Soil Group, Good Soil Group.  
2. Principles Profile Form, Northcoast (1975).  
3. Soil Taxonomy, Soil Survey Staff (1988).  
4. The association is named after the dominant soil series. See text for full description.