QUEENSLAND
DEPARTMENT OF PRIMARY INDUSTRIES

PLANE CREEK SUGAR CANE LAND SUITABILITY STUDY

SOILS

by A.K. Wills

SCALE 1 : 100 000
KILOMETRES

2 0 2 4 6 8 10 12

GREY NUMBERED GRID LINES ARE 10000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 55, CENTRAL MERIDIAN 147° E
GRID VALUES ARE SHOWN IN FULL ONLY AT THE SOUTH–WEST CORNER OF THE MAP.
NOTE: THE RELATIONSHIP OF MAPPED POSITIONS TO THE GRID IS SUBJECT TO ALTERATION.

INTENSITY STATEMENT

This is a low intensity soil survey. It is based on aerial photograph interpretation and ground observation of the order of one observation to an area of 100–200ha.

Cartography by J.K. Myers

© QUEENSLAND GOVERNMENT, 1987

REFERENCE

MAPPING UNIT	GREAT SOIL GROUP OF DOMINANT SOIL	MAJOR CHARACTERISTICS OF DOMINANT SOIL	SLOPES
SOILS OF STEEP UPLANDS ON EXPOSED INTRUSIVE OUTCROPS			
Cn Chelona	lithosol	shallow, acid, coarse sands in depressions of steep outcrop.	6 – 15%*
SOILS OF UPLANDS DERIVED FROM GRANODIORITE			
Mx Malin	gleyed podzolic soil	acid, bleached, mottled, grey, sandy duplex soil.	2 – 6%
Mw Marwood	podzol in deep A horizon of gleyed podzolic soil	acid, bleached sand with iron–organic B horizon in deep A horizon of acid, gleyed, duplex soil.	2 – 3%
SOILS OF UPLANDS DERIVED FROM ACID TO INTERMEDIATE INTRUSIVES AND DYKES			
SEDENTARY SOILS WITH MEDIUM TO FINE SURFACE TEXTURES			
Un Urannah	lithosol, no suitable group	shallow, acid sandy clay loam.	4 – 15%*
Sv Swayneville	prairie soil	acid to neutral, mottled, brown duplex soil.	6 – 12%
Km Koumala	yellow podzolic soil	acid, bleached, mottled, yellow duplex soil.	3 – 12%
ALLUVIAL–COLLUVIAL SOILS WITH MEDIUM TO FINE SURFACE TEXTURES			
Bs Borstal	black earth to wiesenboden	black, self–mulching, cracking clay, gleyed at depth.	1 – 4%
Sf Shinfield	solodic–solodized solonetz	alkaline, sporadically bleached, mottled, grey – yellow duplex soil.	0 – 3%
COLLUVIAL SOILS WITH COARSE SURFACE TEXTURES			
Tp Turpad	siliceous sand (fine gravelly)	acid, grey loamy sands to sandy clay loams.	1 – 7%
SOILS OF UPLANDS DERIVED FROM BASIC TO INTERMEDIATE VOLCANICS			
SEDENTARY SOILS OF UPLANDS			
Si Samourgassi	lithosol	shallow, stony, acid, brown lithosol to gradational soil.	6 – 20%*
Ht Hector	prairie soil	gravelly, neutral, mottled, brown duplex to gradational soil.	3 – 12%
COLLUVIAL SOILS			
Cv Cliftonville	no suitable group	gravelly, alkaline, mottled, yellow–brown duplex soil with abundant iron – manganese nodules.	2 – 4%
Ls Louisa	yellow podzolic soil	gravelly, acid, bleached, mottled, yellow duplex soil.	2 – 6%
SOILS OF UPLANDS DERIVED FROM ACID VOLCANICS			
SEDENTARY SOILS OF UPLANDS			
By Breen	lithosol, no suitable group	shallow, stony, acid, light brown sandy clay loam.	2 – 16%*
COLLUVIAL SOILS			
Fd Freddy	soloth to yellow podzolic soil	gravelly, acid, bleached, mottled, pale grey duplex soil.	1 – 6%
SOILS OF UPLANDS DERIVED FROM INTERMEDIATE FLOWS AND PYROCLASTICS			
SEDENTARY SOILS OF UPLANDS			
Mf Moffat	grey–brown podzolic soil	shallow, acid, mottled, brown duplex soil on deep–weathered rock.	4 – 9%*
Sd Saddle	no suitable group	neutral to alkaline, bleached mottled, yellow–brown duplex soil.	2 – 6%
SOILS DERIVED FROM QUATERNARY ALLUVIUM			
UNIFORM SOILS OF FLOOD PLAINS			
Lh Leichhardt	alluvial soil	cobbly, dark acid loams.	0 – 5%
SOILS OF LEVEES AND TERRACES			
Hn Hannan	alluvial soil	acid, brown uniform (tending gradational) sandy to fine sandy soil.	0 – 2%
UNIFORM CLAY SOILS IN AREAS OF RESTRICTED DRAINAGE			
Bx Bell	black earth	alkaline, self–mulching, black cracking clay.	0 – 1%
Sr Spider	wiesenboden	alkaline, self–mulching, black cracking clay, gleyed at depth.	1 – 2%
DUPLEX SOILS OF ALLUVIAL PLAINS			
Gb Gillinbin	soloth	acid, bleached, red – brown duplex soil with deep A horizon.	0 – 2%
Ct Cabbage Tree	solodic–solodized solonetz	neutral to alkaline, mottled, dark duplex soil.	0 – 2%
Sn Sarina	solodic–solodized solonetz	alkaline, bleached, mottled, grey–brown duplex soil.	0 – 3%
Tn Turnor	solodic–solodized solonetz	alkaline, bleached, mottled, grey–brown duplex soil.	0 – 1%
Pg Prendergast	solodic–solodized solonetz	neutral to alkaline, mottled, reddish–brown duplex soil.	0 – 2%
Ch Cherry Tree	solodic–solodized solonetz	gravelly, alkaline, bleached, mottled, grey–brown duplex soil.	0 – 1%
DUPLEX SOILS OF COASTAL PLAINS			
Tl Tedlands	soloth to solodic – solodized solonetz	acid to neutral, bleached, mottled, grey–yellow duplex soil.	0 – 1%
Su Sunnyside	solodic–solodized solonetz	silty, alkaline, bleached, mottled, grey duplex soil.	0 – 1%
Ag Alligator	solodic–solodized solonetz to grey clay	silty, alkaline, bleached, mottled, grey–yellow duplex soil with layers of ironstone nodules.	0 – 2%
Sl Splitter	solodic–solodized solonetz	sandy, alkaline, bleached, mottled, grey duplex soil with ironstone gravel.	0 – 1%
Kl Karloo	solodic–solodized solonetz	alkaline, bleached, mottled, grey –brown duplex soil.	0 – 1%
DUPLEX SOILS OF RELICT PLAINS			
Ib Ilbilbie	soloth	acid, bleached, mottled, light grey duplex soil, with discontinuous hard pan.	0 – 1%
MISCELLANEOUS UNITS			
Fr	Frontal Dunes	siliceous sand	sand (undescribed)
GU	Gullied Lands		
MG	Mangroves and Saltmarsh		
UR	Urban and Industrial		
• E30	Soil Sample Sites		
	Sugar Mill		
	Channel of Eton Irrigation Scheme.		
	Pipeline of Eton Irrigation Scheme.		
*	Slopes for upland soils indicate the range in which soils were described. Slopes within the mapping units may exceed these values.		

KEY TO 1:100 000 AREAS

URANNAH 8556	CALEN 8656	CUMBERLAND ISLANDS 8756
HILLALONG 8555	MIRANI 8655	MACKAY 8755
HARRYBRANDT 8554	NEBO 8654	CARMILA 8754
GROSVENOR DOWNS 8553	BOMBANDY 8653	CONNORS RANGE 8753

MACKAY SUGAR CANE LAND SUITABILITY STUDY (Completed 1984)

LOCALITY MAP

Scale in Kilometres 0 200 400 600

Weipa, Cairns, Normanton, Townsville, Mt Isa, Mackay, Sarina, Longreach, Emerald, Rockhampton, Blackall, Windorah, Maryborough, Charleville, Roma, Toowoomba, Thargomindah, BRISBANE

STUDY AREA

NORTHERN TERRITORY · SOUTH AUSTRALIA · NEW SOUTH WALES · SOUTH PACIFIC OCEAN

SURVEY by A.K. Wills, Land Resources Branch, Queensland Department of Primary Industries, Mackay.

CARTOGRAPHY by J.K. Myers, Land Resources Branch, Queensland Department of Primary Industries, Brisbane, with assistance from Mapping Systems using the Intergraph computing facility.

INFORMATION for Eton Irrigation Scheme supplied by Queensland Water Resources Commission, Mackay.

BASE MAP supplied by Department of Mapping and Surveying and reproduced by permission of the Surveyor General, Queensland.

PRINTED at the Government Printing Office, Brisbane, 1987.

DISCLAIMER:
This is a scanned image and some detail may be illegible or lost. While every care is taken to ensure the accuracy of this product, the Department of Natural Resources and Mines makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way for any reason.

SOILS
Map 1

D.P.I. Ref. No. 86-87-P2594