



MAPPING UNIT	BRIEF DESCRIPTION OF DOMINANT SOIL	GREAT SOIL GROUP*	PPF**
SOILS OF THE ALLUVIAL PLAINS			
ALLUVIAL SOILS			
Nm	Normanby	Dark fine sandy clay over dark neutral fine sandy clay loam over alkaline dark light-medium clay.	Alluvial soil Uf6.32
CRACKING CLAYS			
Mu	Muller	Dark to grey brown self mulching cracking light to light-medium clay with alkaline dark to grey subsoil.	Grey clay - black earth Ug5.24 Ug5.16 Ug5.17
Cy	Cyrus	Dark self mulching cracking medium to heavy clay with alkaline dark to grey subsoil, occasionally gilgaled.	Black earth - grey clay Ug5.16 Ug5.1 Ug5.28 Ug5.24 Ug5.25 Ug5.17
Fa	Fassifern	Mottled dark to grey brown self mulching cracking light-medium to medium clay with mottled neutral to alkaline dark or grey medium-heavy clay subsoil.	Wiesenboden mottled grey clay occasionally gilgaled Ug5.16 Ug5.1 Ug5.24 Ug5.28 Ug5.17
SOILS OF THE UNDULATING LOW HILLS			
CRACKING CLAYS			
Pe	Pennell	Shallow dark to brown self mulching cracking light to light-medium clay with neutral to alkaline dark to red brown subsoil.	Brown clay - black earth Ug5.37 Ug5.32 Ug5.13 Ug5.23 Uf6.31
Wk	Warumkarie	Shallow dark self mulching cracking medium clay with alkaline grey subsoil.	Black earth Ug5.14
Ku	Kulgun	Deep dark to grey brown self mulching cracking light-medium to medium heavy clay with alkaline dark to grey to yellow grey subsoil.	Grey clay - black earth Ug5.24 Ug5.14 Ug5.22 Ug5.16
Mc	McGrath	Deep gilgaled dark to brown hardsetting to self mulching cracking light to medium clay with neutral to alkaline brown to red brown subsoil. Linear gilgal common.	Brown clay - black earth Ug5.33 Ug5.13 Ug5.37 Ug5.32
FRIABLE NON-CRACKING CLAYS			
Ha	Hanson	Very dark to dark reddish brown light to light-medium clay with neutral dark reddish brown light-medium clay subsoil.	Euchrozem Uf6.31
Pu	Purdon	Deep dark friable clay loam to clay with dark or brown or olive brown catcarous subsoil.	Chemozem Uf6.31 Dd3.13 Gd3.43
HARDSETTING SURFACE SOILS			
Ch	Churchbank	Shallow dark hardsetting clay loam to clay with slightly alkaline brown subsoil.	Prairie soil Gd3.23 Uf6.31
We	Weber	Grey brown hardsetting sandy loam to sandy clay loam, with mottled conspicuous bleach, to 150-300mm over neutral to alkaline grey brown to yellow brown clay subsoil.	Solodic solodized solonetz Dy2.43 Dd2.41 Dy3.43 Dy3.81
Fu	Furnivall	Dark to grey brown hardsetting sandy loam to sandy clay loam with sporadic bleach, to 120-250mm with alkaline grey brown to brown clay subsoil.	Solodic Dd1.13 Dy2.33 Dd1.33 Dy2.13 Dd2.33
Ye	Yellunga	Grey brown hardsetting clay loam, with sporadic bleach, to 50-300mm over neutral to alkaline brown to yellow brown clay subsoil.	Solodic Dd1.32 Dd1.33 Uf6.31 Dd2.13
Di	Dieckmann	Dark to grey hardsetting fine sandy loam to clay loam 100-400mm with bleached A2 horizon over manganese mottled grey to brown to olive brown neutral clay subsoil.	Solodic Dy5.42 Dd4.32 Dd1.33
Ev	Evans	Dark brown to brownish black hardsetting sandy loam 100-400mm with conspicuously bleached A2 horizon over acid mottled dull yellowish brown to brownish grey subsoil.	Yellow podzolic Dy3.41
Sa	Sartor	Dark hardsetting clay loam to light clay over acid to neutral grey to brown subsoil.	Soloth no suitable group Dd1.11m Uf6.41
Misc.	Miscellaneous	Creek lines and erosion gullies (N.B. Some gullies filled in).	

● R1 Soil sampling sites by B. Powell and N. G. Christianos (1984).
 ■ S1 Soil sampling sites by C. A. Fisher and A. L. Barton.
 (65) Unique map area (UMA) number

In areas of intense soil variability, either soil associations or soil complexes, mapping units are named after the two most frequently occurring soil profile classes e.g. Pu-Di.
 * After Stace et al (1968). "A Handbook of Australian Soils".
 ** Principal Profile Form (Northcote, 1979).

LEGEND	
	Research Station Boundary
	Buildings
	Track
	Gate
	Internal fence
	Power transmission lines
	Culvert
	Invert
	Waterway
	Dam
	Diversion bank

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 RUNOFF CONTROL INFORMATION by Soil Conservation Services Branch, Queensland Department of Primary Industries.
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QUEENSLAND DEPARTMENT OF PRIMARY INDUSTRIES
MUTDAPILLY RESEARCH STATION
SOILS
 by C. A. Fisher, A. L. Barton, B. Powell and N. G. Christianos

SCALE 1:10 000
 200 100 0 200 400 600 800 1000 metres

Transverse Mercator Projection

INTENSITY STATEMENT
 This is a very high intensity soil survey. It is based on aerial photograph interpretation and ground observations of the order of one observation to an area of 1-2 ha.

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