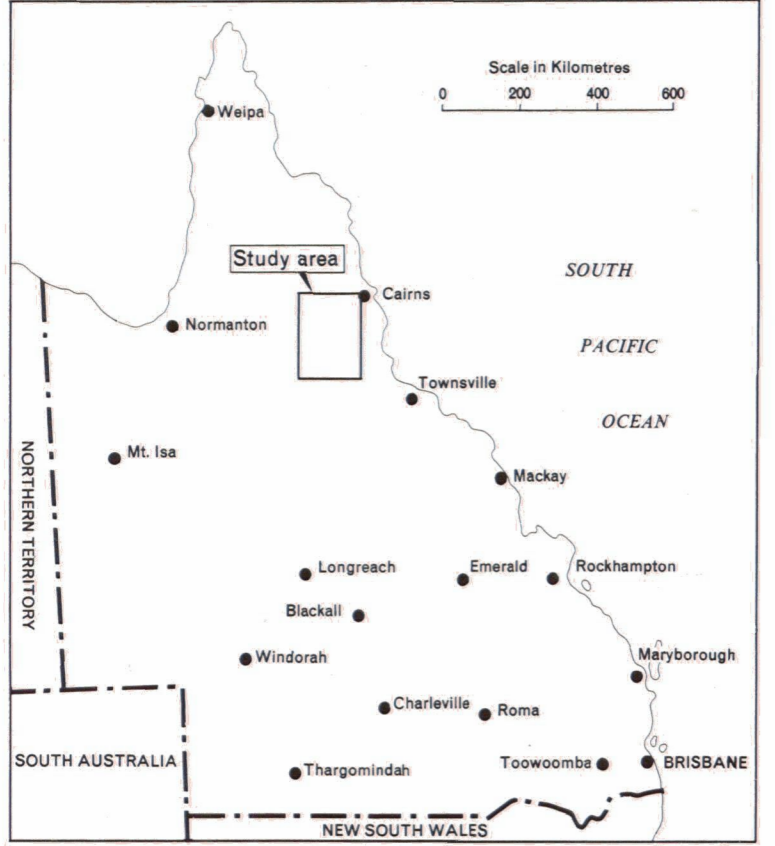


Mapping Unit *	Dominant Great Soil Group	Associated Great Soil Group
SOILS OF THE STEEP HILLS AND MOUNTAINS (M) ON GRANITE (G)		
PLMG	Podzol (P)	Lithosol, siliceous sand
SOILS OF THE STEEP HILLS AND MOUNTAINS (M) ON ACID VOLCANIC ROCKS (V)		
PLMV	[Podzolic] lithosol (PL)	Yellow podzolic soil, siliceous sand
RHV	Red podzolic soil (R)	Krasnozem
SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON BASALT (B)		
KHB	Krasnozem (K)	Red podzolic soil
PSHB	Prairie soil (PS)	
SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON ACID VOLCANIC ROCKS (V)		
PLHV	[Podzolic] lithosol (PL)	Siliceous sand, yellow podzolic soil
XHV	Xanthozem (X)	Red podzolic soil, krasnozem
RHV	Red podzolic soil (R)	Xanthozem
SRHV	[Shallow] red podzolic soil (SR)	Yellow podzolic soil
SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON GRANITE (G)		
PHG	Podzol (P)	Siliceous sand
PLNG	[Podzolic] lithosol (PL)	Siliceous sand
REHG	Red earth (RE)	
RHG	Red podzolic soil (R)	
SCHG	Sodic soil (SC)	Yellow podzolic soil
KHG	Krasnozem (K)	Red podzolic soil
SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON METAMORPHIC ROCKS (M)		
RHM	Red podzolic soil (R)	Yellow podzolic soil, non-caliche brown soil
YHM	Yellow earth (YE)	Red earth, red podzolic soil
PLHM	[Podzolic] lithosol (PL)	Podzol, red podzolic soil
NCHM	Non-caliche brown soil (NC)	Euchrozem, yellow podzolic soil
PHM	Podzol (P)	
SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON SEDIMENTARY ROCKS (S)		
PLHS	[Podzolic] lithosol (PL)	Podzol, yellow podzolic soil
RHS	Red earth (RE)	Red earth, lithosol
REHS	Red earth (RE)	Siliceous sand, yellow earth
PHS	Podzol (P)	Podzol
SCHS	Sodic soil (SC)	Slightly yellow podzolic soil
RHS	Red earth (RE)	Yellow earth, siliceous sand
SOILS OF THE UNDULATING TO ROLLING RISES (S) ON OLERITE (D)		
NCSO	Non-caliche brown soil (NC)	Euchrozem
SOILS OF DISSECTED PLATEAUS (P) ON BASALT (B)		
EDB	Euchrozem (E)	Lithosol
EDSB	Black earth (BE)	[Stony] krasnozem
SOILS OF DISSECTED PLATEAUS (D) ON TERTIARY LATERITIC REMNANTS (R)		
REDR	Red earth (RE)	Podzol
PLDR	[Podzolic] lithosol (PL)	Red earth, yellow earth
SCDR	Sodic soil (SC)	Slightly yellow and brown podzolic soils
SOILS OF THE UNDULATING TO ROLLING RISES (S) ON GRANITE (G)		
RESG	Red earth (RE)	Siliceous sand
YESG	Yellow podzolic soil (Y)	Red podzolic soil, red earth
RSG	Red podzolic soil (R)	
NCSG	Non-caliche brown soil (NC)	Red podzolic soil, euchrozem, yellow podzolic soil
SOILS OF THE UNDULATING TO ROLLING RISES (S) ON SEDIMENTARY ROCKS (S)		
YSS	Yellow podzolic soil (Y)	Sodic soil
RSS	Red podzolic soil (R)	Sodic soil, solon
SOILS OF THE UNDULATING (U) BASALT (B) LAVA PLAINS		
KUB	Krasnozem (K)	Euchrozem
SKUB	[Stony] krasnozem (SK)	Euchrozem
EUB	Euchrozem (E)	Krasnozem
PSUB	Prairie soil (PS)	Xanthozem
SOILS OF THE UNDULATING RISES (R) ON TRANSPORTED (T) SEDIMENTS		
RETR	Red earth (RE)	[Bleached] grey earth, yellow earth
YERT	Yellow earth (YE)	[Bleached] grey earth, red earth
RTR	Red podzolic soil (R)	Yellow podzolic soil, sodic soil
SOILS OF GENTLY UNDULATING PLAINS (P) ON TRANSPORTED LIMESTONE (L) SEDIMENTS		
RPL	Red podzolic soil (R)	Red earth
BCPL	Brown clay (BC)	Reddish, non-caliche brown soil
SOILS OF THE GENTLY UNDULATING RISES (R) ON GRANITE AND GRANODIORITE (G)		
REGR	Red earth (RE)	Red podzolic soil, humus podzol
RRG	Red podzolic soil (R)	Non-caliche brown soil
YERG	Yellow earth (YE)	Red earth, red podzolic soil
TRG	Yellow podzolic soil (Y)	Red podzolic soil, red earth
BERG	Black earth (BE)	Brown clay, red clay, euchrozem
SOILS OF THE GENTLY UNDULATING PLAINS (P) AND RISES ON TRANSPORTED (T) SEDIMENTS		
REPT	Red earth (RE)	Yellow earth
YEPT	Yellow earth (YE)	[Bleached] yellow earth, red earth
BYPT	[Bleached] yellow earth (BY)	[Bleached] yellow earth
SOILS OF THE GENTLY UNDULATING PLAINS (P) AND PLATEAUS ON TERTIARY LATERITIC REMNANTS (R)		
REPR	Red earth (RE)	Yellow earth
YEPR	Yellow earth (YE)	Red earth, [bleached] grey earth
KPR	Krasnozem (K)	Red earth
SOILS OF THE GENTLY UNDULATING TO UNDULATING RISES (R) ON METAMORPHIC ROCKS (M)		
NCRM	Non-caliche brown soil (NC)	Yellow podzolic soil
ERM	Euchrozem (E)	Krasnozem, non-caliche brown soil
YERM	Yellow earth (YE)	Red earth, red podzolic soil
SOILS OF THE BASALT LAVA PLAINS (LB)		
SKLB	[Stony] krasnozem (SK)	[Stony] euchrozem
SLBL	[Stony] black earth (SB)	[Stony] brown clay
BEAL	Black earth (BE)	Brown clay, xanthozem
KLB	Krasnozem (K)	Euchrozem, [stony] xanthozem
BCLB	Brown clay (BC)	[Stony] xanthozem
SECLB	[Stony] euchrozem (SE)	[Stony] krasnozem
ELB	Euchrozem (E)	[Stony] krasnozem, brown clay
XLB	Xanthozem (X)	[Brown] krasnozem
WLB	Weissenboden (W)	Krasnozem, xanthozem
SOILS OF THE ALLUVIAL PLAINS (A) ON NON - BASALTIC ALLUVIUM (N)		
SCAN	Sodic soil (SC)	[Bleached] grey earth, solonchalc
PAN	Podzol (P)	Grey brown podzolic soil
SHAN	Shallow soil (SH)	Red and brown podzolic soils
GSAN	Grey clay - sodic soil complex (GS)	Solodized solonchalc
YEAN	Yellow earth (YE)	Red earth, red podzolic soil
BYAN	[Bleached] yellow earth (BY)	[Bleached] grey earth, red earth, yellow earth
RAN	Red podzolic soil (R)	Grey brown podzolic soil
PSAN	Prairie soil (PS)	Sodic soil
GBAN	Grey brown podzolic soil (GB)	Red podzolic soil
SOILS OF THE ALLUVIAL PLAINS (A) ON BASALTIC ALLUVIUM (L)		
BEAL	Black earth (BE)	Grey clay, brown clay
GCAL	Grey clay (GC)	Black earth
BMAL	Black earth (with M. bractea) (BM)	Grey clay, brown clay
PSAL	[Stony] prairie soil (PS)	Black earth, grey clay
HEAL	Home grey (HG)	Black earth, xanthozem
GRAL	Grey clay - red-brown earth complex (GR)	
EBAL	Euchrozem, brown variant (EB)	Chernozem
BCAL	Brown clay (BC)	
SOILS OF THE ALLUVIAL PLAINS (A) ON BASALTIC ALLUVIUM (L)		
S	Permanent swamp/lake or frequently flooded	
R	Unweathered basalt	
M	Mining areas	

LOCATION MAP



KEY TO 1:250000 AREAS

WALSHE SE 54-4	WOSMAN SE 55-1	CARRING SE 55-2
RED RIVER SE 54-4	ATHERTON SE 55-1	INNISFAIL SE 55-4
GEORGETOWN SE 54-12	EINASLEIGH SE 55-9	INGHAM SE 55-10
GILBERTON SE 54-16	CLARKE RIVER SE 55-13	TOWNSVILLE SE 55-14

DISCLAIMER:
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QUEENSLAND
DEPARTMENT OF PRIMARY INDUSTRIES
SCALE 1:250000



TRANSVERSE MERCATOR PROJECTION
GREY NUMBERED GRID LINES ARE 100M METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 54.
GRID VALUES ARE SHOWN IN FULL ONLY AT THE SOUTH WEST CORNER OF THE MAP.

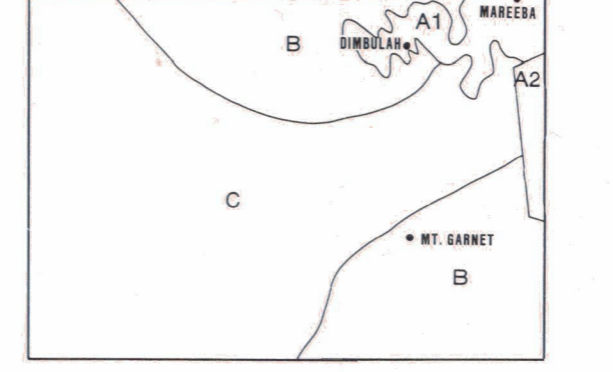
SURVEY by M.J. Grundy and N.J. Bryde, Land Resources Branch, Queensland Department of Primary Industries.
CARTOGRAPHY by M.B. Carroll, Land Resources Branch, Queensland Department of Primary Industries.
BASE MAP compiled from material supplied by The Royal Australian Survey Corps.
PRINTED at the Government Printing Office, Brisbane, 1988.

QUEENSLAND GOVERNMENT, 1988.

LEGEND

- Built-up area
- Roads
- Road unimproved earth; gate, cattle grid
- Track, foot or pack; footbridge
- Bridge road, bridge railway
- Railway multiple track, station; siding
- Railway single track, station with siding
- Light railway or tramway
- Telephone line; power transmission line
- Fence; stone wall; quarry
- Mine; windpump; levee or dyke
- Building (s): church; school; yard
- Post office; wireless transmitter; cemetery
- Control point major, minor, astronomical
- Bench mark; spot elevation in feet
- Waterhole; water tank; dam; dry lake
- Lake; river or stream perennial
- Lake; river or stream intermittent
- Dam or weir; falls; rapids
- Drain or ditch, perennial, intermittent
- Spring perennial, intermittent
- Marsh or swamp; mangroves

RELIABILITY DIAGRAM



- A1 Existing very high intensity soils mapping. No new survey work.
- A2 Existing low intensity soils mapping. No new survey work.
- B Reconnaissance survey. Air photo interpretation with field traverses and site descriptions. Prior work incorporated.
- C Reconnaissance survey. Air photo interpretation with only limited vehicular traverses. Prior work incorporated.

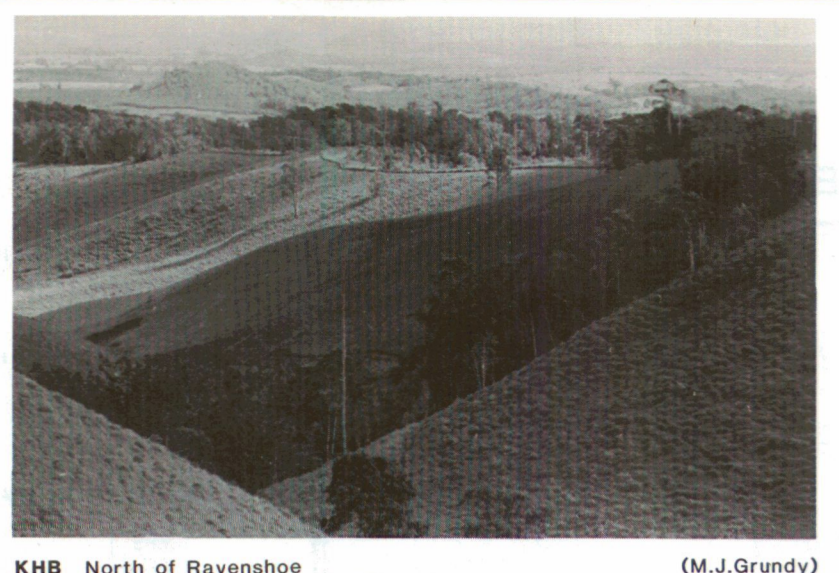
Pastoral holding boundaries and names.
(Holdings shown are leasehold only.)
1:100000 map sheet areas.

LAND SUITABILITY CLASSES (LSC)

- CLASS 1** Land suitable for rainfed production of summer grain crops with negligible limitations. This is highly productive land requiring only simple management practices to maintain economic production.
- CLASS 2** Land suitable for rainfed production of summer grain crops with minor limitations which either reduce production or require more than the simple management practices of class 1 land to maintain economic production.
- CLASS 3** Land suitable for rainfed production of summer grain crops with moderate limitations which either further lower production or require more than these management practices of class 2 land to maintain economic production.
- CLASS 4** Marginal land which is presently considered unsuitable for rainfed production of summer grain crops due to severe limitations. The precise effects of these limitations on the proposed land use are unknown. The use of this land is dependent upon either undertaking additional studies to determine its suitability for sustained production or reducing the effects of the limitation(s) to achieve production.
- CLASS 5** Land which is unsuitable for rainfed production of summer grain crops due to extreme limitations that preclude its use.

LAND LIMITATION FACTORS (LLF)

Land Limitation Factor	Components	Comments
Climate	Temperature, relative humidity, frost, windspeed.	Includes climatic attributes other than rainfall.
Soil moisture		Limitation due to a lack of plant available water capacity.
Soil wetness		Limitation due to drainage impedance.
Soil fertility	Deficiency, toxicity, fixation, disorders, dynamics.	Limitation due to plant's current or potential adverse nutritional status.
Salinity		Limitation due to the presence of excess soluble salts.
Shallow rooting depth		Limitation due to restriction of root ramification for physical support.
Flooding incidence		Limitation associated with a flooding hazard.
Soil physical factors	moisture range, crusting, hardsetting, hard pans, dispersive clays, coarse self-mulching, adhesive soils.	Limitation due to adverse physical condition of the soil.
Rockiness		Limitation due to the presence of surface or subsurface coarse fragments (rock, stone, cobble, gravel).
Topography	slope, slope complexity, broken topography, giga.	Limitation due to the topography of the land as it affects access, machinery use.
Erodibility (water)		Limitation due to erodibility of soil, erosivity of rain, slope and surface attributes.
Erodibility (wind)		Limitation due to soil surface attributes and wind speed.
Intake-recharge potential		Limitation due to potential to cause off-site seepage and secondary salinisation.
Outflow-discharge potential		Limitation due to potential for saline groundwater rise.



KHB North of Ravenshoe (M.J.Grundy)

SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON BASALT (B)

Mapping unit (a) **KHB**
 Dominant GSG1 Krasnozem (K)
 PPF1 Gn 3.11
 Associated GSG2 Red podzolic soil
 LSC 5
 LLF Topography

Mapping unit (b) **PSHB**
 Dominant GSG1 Prairie soil (PS)
 PPF1 Um 6.32, Gn 3.12
 Associated GSG2 Solic soil
 LSC 5
 LLF Topography



REDR Near Wairuna (M.J.Grundy)

SOILS OF DISSECTED PLATEAUS (D) ON TERTIARY LATERITIC REMNANTS (R)

Mapping unit (a) **REDR**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.11, Gn 2.14
 Associated GSG2 Podzol
 LSC 5
 LLF Topography

Mapping unit (b) **PLDR**
 Dominant GSG1 (Podzolic) lithosol (PL)
 PPF1 Ue 2.12
 Associated GSG2 Red earth, yellow earth
 LSC 5
 LLF Topography

Mapping unit (c) **SCDR**
 Dominant GSG1 Solic soil (SC)
 PPF1 Dy 3.43, Dy 3.33
 Associated GSG2 Solith, yellow and brown podzolic soils
 LSC 5
 LLF Topography



RHM South west of Chillagoe near Dargalong (N.J.Bryde)

SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON METAMORPHIC ROCKS (M)

Mapping unit (a) **RHM**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.21, Dr 2.22, Dr 3.22, Dr 3.21
 Associated GSG2 Yellow earth, non-caliche brown soil
 LSC 5
 LLF Topography

Mapping unit (b) **YHRM**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 2.21, Dr 3.61
 Associated GSG2 Red earth, (bleached) grey earth
 LSC 5
 LLF Topography

Mapping unit (c) **YHRM**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 2.24, Gn 2.25, Gn 2.74
 Associated GSG2 Red earth, red podzolic soil
 LSC 5
 LLF Topography

Mapping unit (d) **PLHM**
 Dominant GSG1 (Podzolic) lithosol (PL)
 PPF1 Ue 2.12, Um 2.12
 Associated GSG2 Podzol, red podzolic soil
 LSC 5
 LLF Topography, soil moisture, shallow rooting depth

Mapping unit (e) **NCHM**
 Dominant GSG1 Non-caliche brown soil (NC)
 PPF1 Ue 2.12, Uf 6.31
 Associated GSG2 Euzchrozem, yellow podzolic soil
 LSC 5
 LLF Topography

Mapping unit (f) **PHM**
 Dominant GSG1 Podzol (P)
 PPF1 Ue 2.21, Ue 2.22
 Associated GSG2 Solic soil
 LSC 5
 LLF Topography, soil moisture



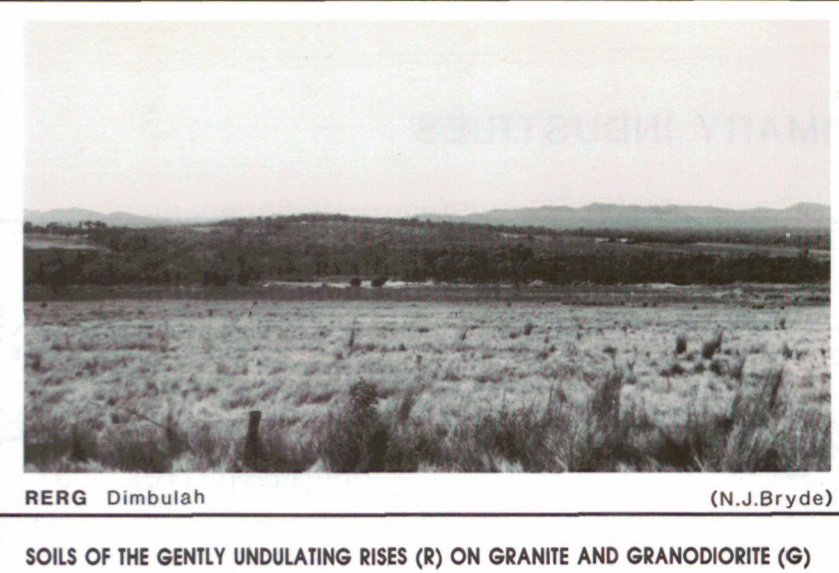
REPR East of the Lost Pinnacle (M.J.Grundy)

SOILS OF THE GENTLY UNDULATING PLAINS (P) AND PLATEAUS ON TERTIARY LATERITIC REMNANTS (R)

Mapping unit (a) **REPR**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.11, Gn 2.12, Dr 2.51
 Associated GSG2 Yellow earth
 LSC 5
 LLF Soil moisture, fertility, soil erodibility

Mapping unit (b) **YRPR**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 2.21, Dr 3.61
 Associated GSG2 Red earth, (bleached) grey earth
 LSC 5
 LLF Soil moisture, soil wetness, fertility, soil erodibility

Mapping unit (c) **KPR**
 Dominant GSG1 Krasnozem (K)
 PPF1 Gn 3.11
 Associated GSG2 Red earth
 LSC 5
 LLF Soil fertility, soil erodibility



RERG Dimbulah (N.J.Bryde)

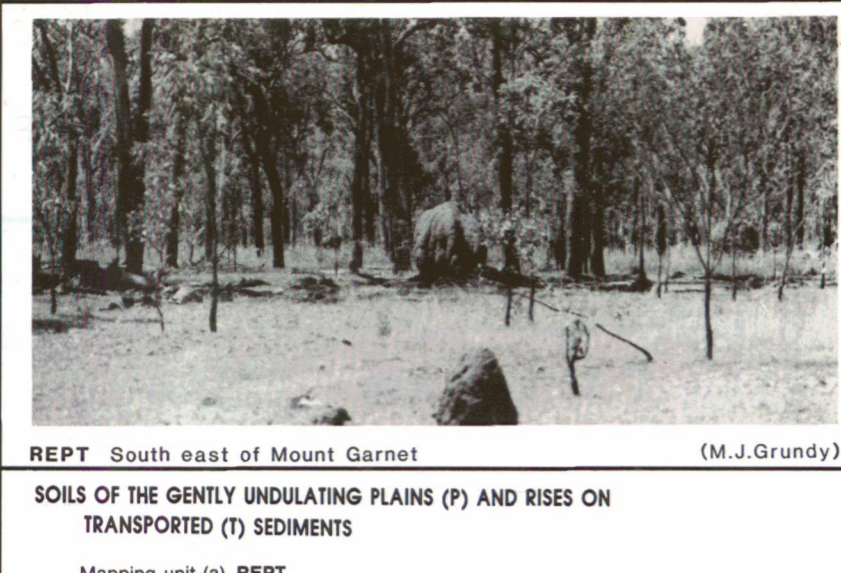
SOILS OF THE GENTLY UNDULATING RISES (R) ON GRANITE AND GRANODIORITE (G)

Mapping unit (a) **RERG**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.12, Gn 2.11, Gn 2.14
 Associated GSG2 Red podzolic soil, humus podzol
 LSC 5
 LLF Soil moisture, soil erodibility, soil fertility

Mapping unit (b) **RERG**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.22, Dr 2.21
 Associated GSG2 Non-caliche brown soil
 LSC 5
 LLF Soil moisture, soil erodibility, soil fertility

Mapping unit (c) **YERG**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 2.24, Gn 2.74
 Associated GSG2 Red earth, red podzolic soil
 LSC 5
 LLF Soil moisture, soil erodibility

Mapping unit (d) **BERG**
 Dominant GSG1 Black earth (BE)
 PPF1 Ue 2.12, Uf 6.31
 Associated GSG2 Brown clay, red clay, euzchrozem
 LSC 5
 LLF Soil erodibility, soil physical factors, soil fertility



REPT South east of Mount Garnet (M.J.Grundy)

SOILS OF THE GENTLY UNDULATING PLAINS (P) AND RISES ON TRANSPORTED (T) SEDIMENTS

Mapping unit (a) **REPT**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.11, Dr 2.51, Gn 2.12, Gn 2.14, Dr 2.61
 Associated GSG2 Yellow earth
 LSC 5
 LLF Soil moisture, soil fertility, soil erodibility

Mapping unit (b) **YRPT**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 2.21, Dr 3.61
 Associated GSG2 (Bleached) yellow earth, red earth
 LSC 5
 LLF Soil moisture, soil wetness, soil fertility, soil erodibility

Mapping unit (c) **BYPT**
 Dominant GSG1 (Bleached) yellow earth (BY)
 PPF1 Gn 2.74, Dy 3.82, Dy 3.81, Dy 2.81
 Associated GSG2 (Bleached) grey earth, red earth
 LSC 5
 LLF Soil wetness, soil moisture



PLHV Featherbed Range (N.J.Bryde)

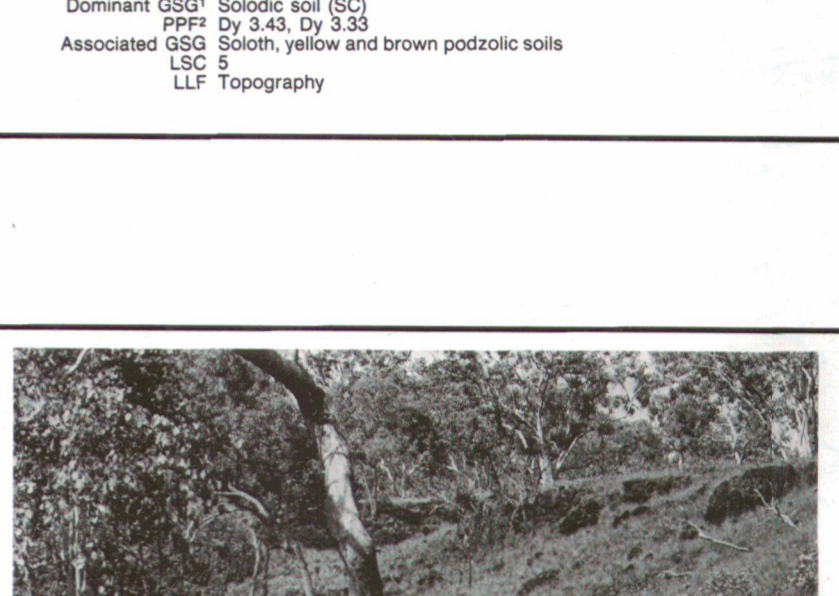
SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON ACID VOLCANIC ROCKS (V)

Mapping unit (a) **PLHV**
 Dominant GSG1 (Podzolic) lithosol (PL)
 PPF1 Um 2.12, Um 4.1
 Associated GSG2 Siliceous sand, yellow podzolic soil
 LSC 5
 LLF Topography, shallow rooting depth, soil moisture

Mapping unit (b) **XHV**
 Dominant GSG1 Xanthozem (X)
 PPF1 Gn 3.24
 Associated GSG2 Red podzolic soil, krasnozem
 LSC 5
 LLF Topography

Mapping unit (c) **RHV**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Gn 3.14
 Associated GSG2 Xanthozem
 LSC 5
 LLF Topography

Mapping unit (d) **SRHV**
 Dominant GSG1 (Shallow) red podzolic soil (SR)
 PPF1 Ue 2.11, Ue 2.12
 Associated GSG2 Yellow podzolic soil
 LSC 5
 LLF Topography, shallow rooting depth

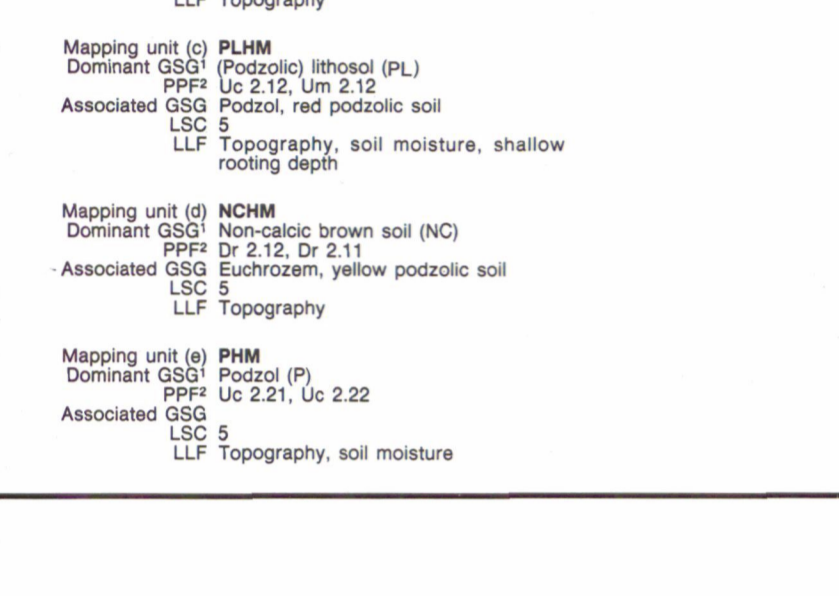


EDB Barron River, south of Mareeba (M.J.Grundy)

SOILS OF DISSECTED PLATEAUS (P) ON BASALT (B)

Mapping unit (a) **EDB**
 Dominant GSG1 Euzchrozem (E)
 PPF1 Gn 3.12, Uf 6.31
 Associated GSG2 Lithosol
 LSC 5
 LLF Topography, rockiness

Mapping unit (b) **BEDB**
 Dominant GSG1 Black earth (BE)
 PPF1 Ue 3.12, Ue 5.11, Ue 5.13
 Associated GSG2 (Stony) krasnozem
 LSC 5
 LLF Topography, rockiness



PLHS Chillagoe (N.J.Bryde)

SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON SEDIMENTARY ROCKS (S)

Mapping unit (a) **PLHS**
 Dominant GSG1 (Podzolic) lithosol (PL)
 PPF1 Ue 2.12, Ue 4.12
 Associated GSG2 Podzol, yellow podzolic soil
 LSC 5
 LLF Topography, soil moisture, shallow rooting depth

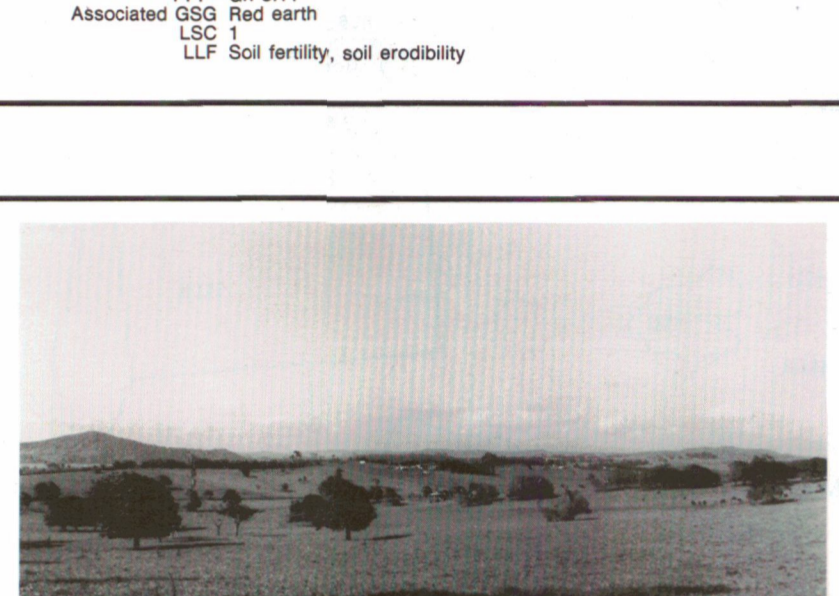
Mapping unit (b) **RHS**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.22, Dr 2.21
 Associated GSG2 Red earth, lithosol
 LSC 5
 LLF Topography

Mapping unit (c) **REHS**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.14, Gn 2.11, Gn 2.15
 Associated GSG2 Siliceous sand, yellow earth
 LSC 5
 LLF Topography

Mapping unit (d) **PHS**
 Dominant GSG1 Podzol (P)
 PPF1 Ue 2.21, Ue 4.22, Ue 4.21
 Associated GSG2 Solic soil
 LSC 5
 LLF Topography, soil moisture

Mapping unit (e) **SCHS**
 Dominant GSG1 Solic soil (SC)
 PPF1 Dy 3.43, Dy 3.33, Dy 3.42
 Associated GSG2 Solith, yellow podzolic soil
 LSC 5
 LLF Topography, soil erodibility

Mapping unit (f) **BGHS**
 Dominant GSG1 Grey earth (BG)
 PPF1 Ue 2.21
 Associated GSG2 Yellow earth, siliceous sand
 LSC 5
 LLF Topography, soil moisture



KUB North of Ravenshoe (N.J.Bryde)

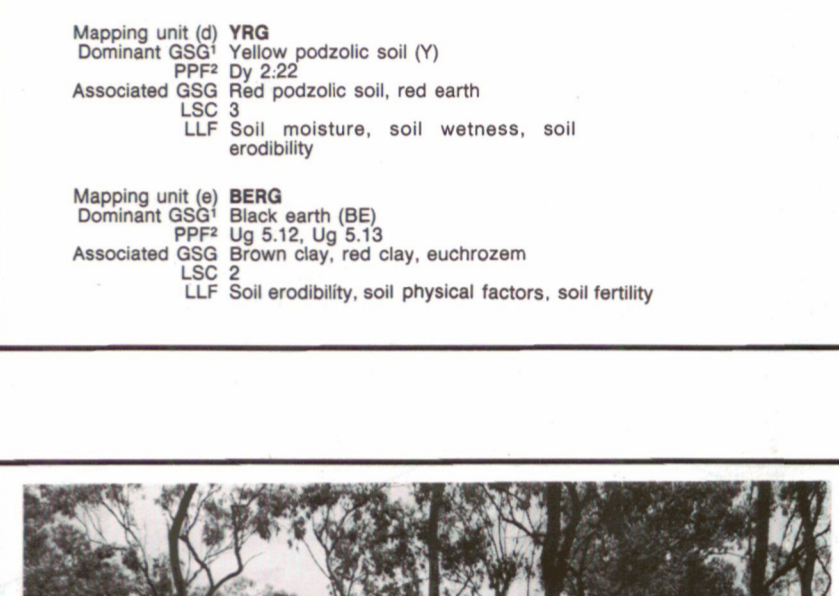
SOILS OF THE UNDULATING (U) BASALT (B) LAVA PLAINS

Mapping unit (a) **KUB**
 Dominant GSG1 Krasnozem (K)
 PPF1 Gn 3.11, Uf 6.31
 Associated GSG2 Euzchrozem
 LSC 5
 LLF Soil erodibility

Mapping unit (b) **SKUB**
 Dominant GSG1 (Stony) krasnozem (SK)
 PPF1 Uf 6.31
 Associated GSG2 Euzchrozem
 LSC 5
 LLF Rockiness, soil erodibility

Mapping unit (c) **EUB**
 Dominant GSG1 Euzchrozem (E)
 PPF1 Uf 6.31
 Associated GSG2 Krasnozem
 LSC 5
 LLF Soil erodibility

Mapping unit (d) **PSUB**
 Dominant GSG1 Prairie soil (PS)
 PPF1 Uf 6.31
 Associated GSG2 Xanthozem
 LSC 5
 LLF Soil erodibility



ERM South of Gunawarra (N.J.Bryde)

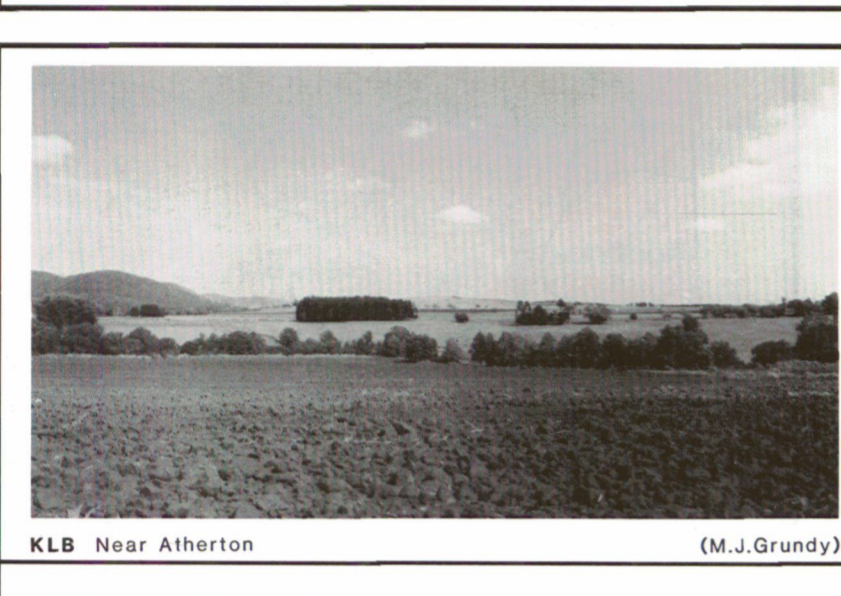
SOILS OF THE GENTLY UNDULATING TO UNDULATING RISES (R) ON METAMORPHIC ROCKS (M)

Mapping unit (a) **NCRM**
 Dominant GSG1 Non-caliche brown soil (NC)
 PPF1 Gn 2.12
 Associated GSG2 Yellow podzolic soil
 LSC 5
 LLF Soil erodibility, rockiness, topography

Mapping unit (b) **ERCM**
 Dominant GSG1 Euzchrozem (E)
 PPF1 Gn 3.12, Uf 6.31
 Associated GSG2 Krasnozem, non-caliche brown soil
 LSC 5
 LLF Soil physical factors, giga

Mapping unit (c) **SEL**
 Dominant GSG1 (Stony) euzchrozem (SE)
 PPF1 Ue 3.12, Uf 6.31
 Associated GSG2 (Stony) krasnozem, brown clay
 LSC 5
 LLF Soil erodibility, soil moisture

Mapping unit (d) **YERM**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 3.12, Uf 6.31
 Associated GSG2 Red earth, red podzolic soil
 LSC 5
 LLF Soil erodibility, soil moisture



KLB Near Atherton (M.J.Grundy)

SOILS OF THE BASALT LAVA PLAINS (LB)

Mapping unit (a) **SKLB**
 Dominant GSG1 (Stony) krasnozem (SK)
 PPF1 Uf 6.31, Uf 6.31
 Associated GSG2 (Stony) euzchrozem
 LSC 5
 LLF Rockiness

Mapping unit (b) **SKLB**
 Dominant GSG1 (Stony) black earth (SB)
 PPF1 Ue 5.12, Ue 5.1
 Associated GSG2 (Stony) brown clay
 LSC 5
 LLF Rockiness

Mapping unit (c) **BELB**
 Dominant GSG1 Black earth (BE)
 PPF1 Ue 5.18, Ue 5.12, Ue 5.11, Ue 5.1
 Associated GSG2 Brown clay, xanthozem
 LSC 5
 LLF Soil physical factors, soil erodibility

Mapping unit (d) **KLB**
 Dominant GSG1 Krasnozem (K)
 PPF1 Gn 3.11, Uf 6.31
 Associated GSG2 Euzchrozem, (stony) xanthozem
 LSC 5
 LLF Soil fertility

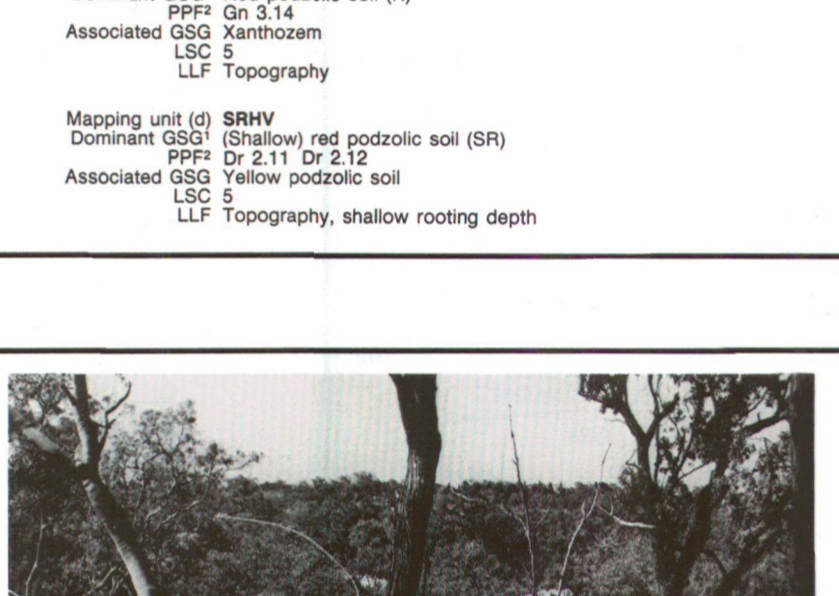
Mapping unit (e) **BCLB**
 Dominant GSG1 Brown clay (BC)
 PPF1 Ue 5.34, Ue 5.32
 Associated GSG2 (Stony) xanthozem
 LSC 5
 LLF Soil physical factors, giga

Mapping unit (f) **SELB**
 Dominant GSG1 (Stony) euzchrozem (SE)
 PPF1 Ue 3.12, Uf 6.31
 Associated GSG2 (Stony) krasnozem, brown clay
 LSC 5
 LLF Soil erodibility, soil moisture

Mapping unit (g) **ELB**
 Dominant GSG1 Euzchrozem (E)
 PPF1 Ue 3.12
 Associated GSG2 Krasnozem
 LSC 5
 LLF Soil fertility

Mapping unit (h) **XLB**
 Dominant GSG1 Xanthozem (X)
 PPF1 Ue 3.71, Ue 5.41
 Associated GSG2 (Brown) krasnozem
 LSC 5
 LLF Soil wetness, shallow rooting depth

Mapping unit (i) **WLB**
 Dominant GSG1 Weissenboden (W)
 PPF1 Ue 5.18
 Associated GSG2 Krasnozem, xanthozem
 LSC 5
 LLF Flooding



RESG Paddy's Green, Mareeba (N.J.Bryde)

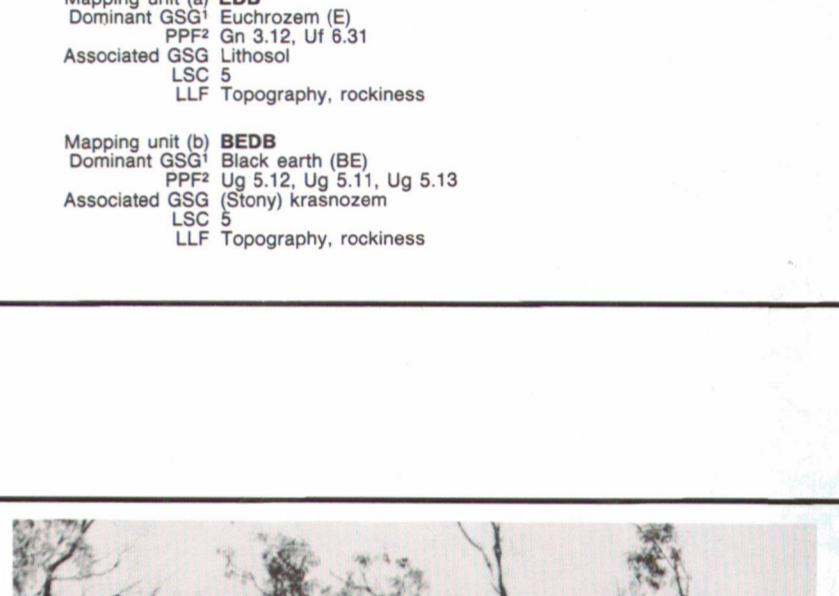
SOILS OF THE UNDULATING TO ROLLING RISES (S) ON GRANITE (G)

Mapping unit (a) **RESG**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.14, Gn 2.11
 Associated GSG2 Siliceous sand
 LSC 5
 LLF Soil erodibility

Mapping unit (b) **YSG**
 Dominant GSG1 Yellow podzolic soil (Y)
 PPF1 Dr 2.22, Dr 2.21
 Associated GSG2 Red podzolic soil, red earth
 LSC 5
 LLF Soil erodibility

Mapping unit (c) **RSG**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.21, Dr 2.22
 Associated GSG2 Solic soil
 LSC 5
 LLF Soil erodibility

Mapping unit (d) **NCSG**
 Dominant GSG1 Non-caliche brown soil (NC)
 PPF1 Dr 2.12
 Associated GSG2 Red podzolic soil, euzchrozem, yellow podzolic soil
 LSC 5
 LLF Soil erodibility



PLHG West of Mount Garnet (M.J.Grundy)

SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON GRANITE (G)

Mapping unit (a) **PHG**
 Dominant GSG1 Podzol (P)
 PPF1 Ue 2.21, Ue 2.22
 Associated GSG2 Siliceous sand
 LSC 5
 LLF Topography, soil moisture

Mapping unit (b) **PLHG**
 Dominant GSG1 (Podzolic) lithosol (PL)
 PPF1 Ue 4.12, Ue 2.12
 Associated GSG2 Siliceous sand
 LSC 5
 LLF Topography, soil moisture

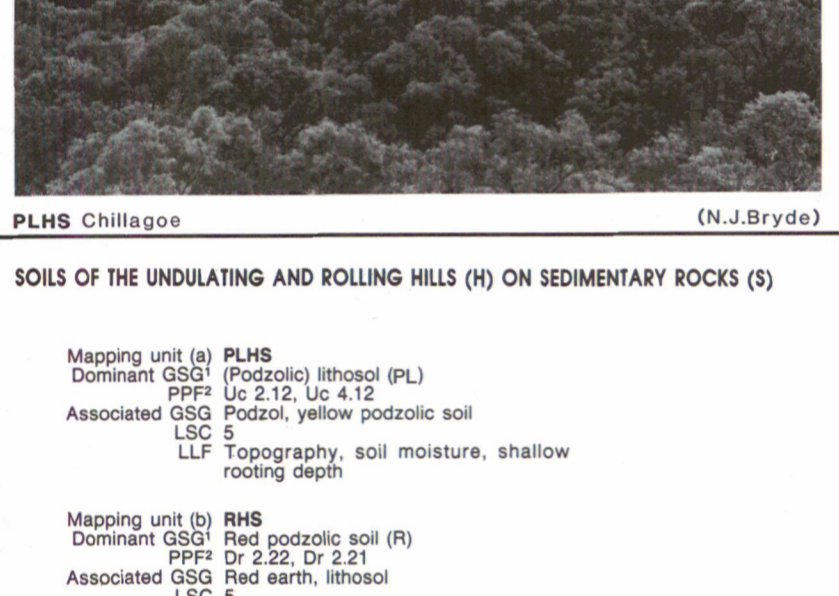
Mapping unit (c) **REHG**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.15, Gn 2.14
 Associated GSG2 Solic soil
 LSC 5
 LLF Topography

Mapping unit (d) **RHG**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.21, Dr 2.12
 Associated GSG2 Solic soil
 LSC 5
 LLF Topography

Mapping unit (e) **SCHG**
 Dominant GSG1 Solic soil (SC)
 PPF1 Dy 3.42
 Associated GSG2 Yellow podzolic soil
 LSC 5
 LLF Topography, soil erodibility

Mapping unit (f) **KHG**
 Dominant GSG1 Krasnozem (K)
 PPF1 Gn 3.14
 Associated GSG2 Red podzolic soil
 LSC 5
 LLF Topography

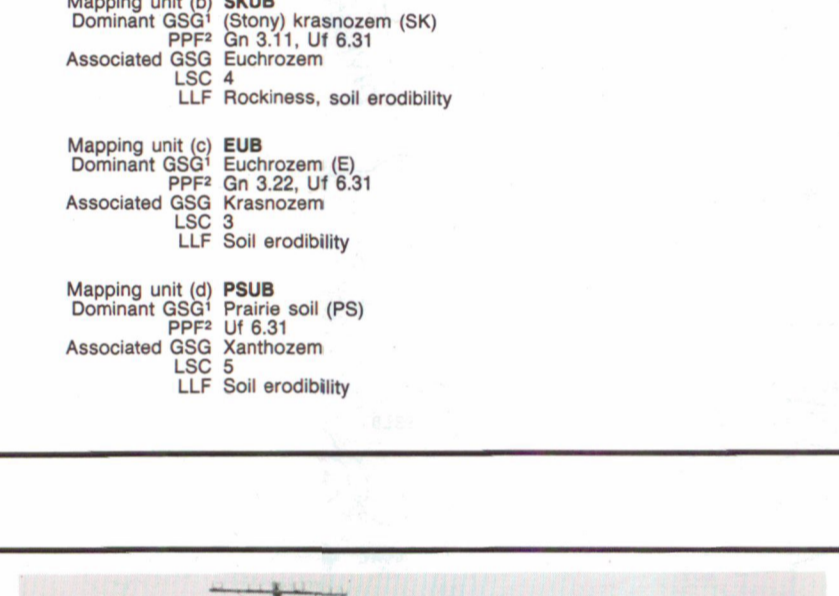
Mapping unit (g) **RSS**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.22, Dr 2.21, Dr 3.22
 Associated GSG2 Solic soil, solith
 LSC 5
 LLF Soil erodibility



NCSD East of Valley of Lagoons (N.J.Bryde)

SOILS OF THE UNDULATING TO ROLLING RISES (S) ON DOLERITE (D)

Mapping unit (a) **NCSD**
 Dominant GSG1 Non-caliche brown soil (NC)
 PPF1 Gn 2.15, Gn 2.14
 Associated GSG2 Euzchrozem
 LSC 5
 LLF Soil erodibility



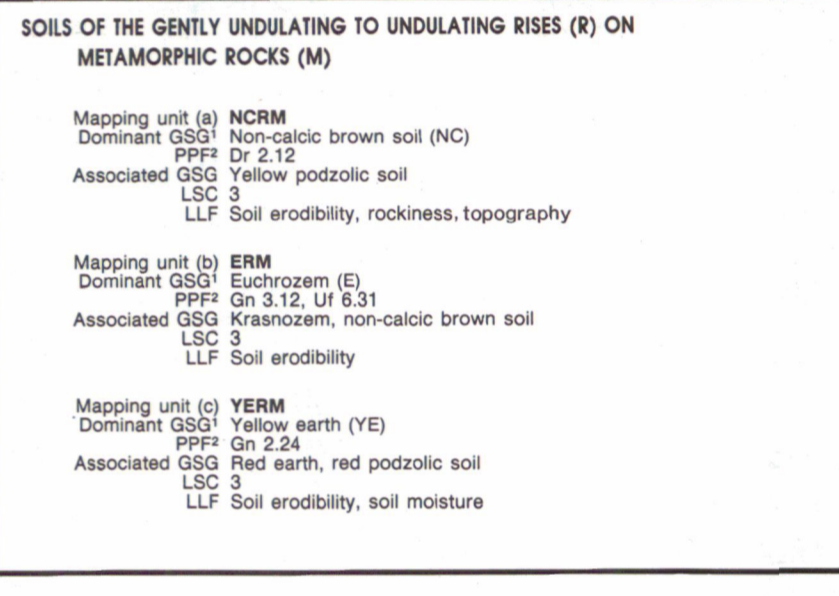
RERT Near Mount Garnet (M.J.Grundy)

SOILS OF THE UNDULATING RISES (R) ON TRANSPORTED (T) SEDIMENTS

Mapping unit (a) **RERT**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.14, Gn 2.15
 Associated GSG2 (Bleached) grey earth, yellow earth
 LSC 5
 LLF Soil erodibility

Mapping unit (b) **YERT**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 2.24, Gn 2.74
 Associated GSG2 (Bleached) grey earth, red earth
 LSC 5
 LLF Soil erodibility

Mapping unit (c) **RRT**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.21
 Associated GSG2 Yellow podzolic soil, solic soil
 LSC 5
 LLF Soil erodibility



PAN Herbert River south of Mount Garnet (M.J.Grundy)

SOILS OF THE ALLUVIAL PLAINS (A) ON NON-BASALTIC ALLUVIUM (N)

Mapping unit (a) **SCAN**
 Dominant GSG1 Solic soil (SC)
 PPF1 Dy 3.43, Dy 1.43, Dy 1.33, Dy 3.42, Dy 3.32
 Associated GSG2 (Bleached) grey earth, solodized solonetz
 LSC 5
 LLF Soil moisture, soil physical factors, soil erodibility

Mapping unit (b) **SHAN**
 Dominant GSG1 Solith (SH)
 PPF1 Dr 1.31, Dr 3.31, Dr 3.41
 Associated GSG2 Red and brown podzolic soils
 LSC 5
 LLF Soil moisture, soil physical factors, soil erodibility

Mapping unit (c) **GSAN**
 Dominant GSG1 Grey clay-sodic soil complex (GS)
 PPF1 Ue 5.23-Dy 3.43 and similar
 Associated GSG2 Solodized solonetz
 LSC 5
 LLF Soil complexity, soil physical factors, soil moisture

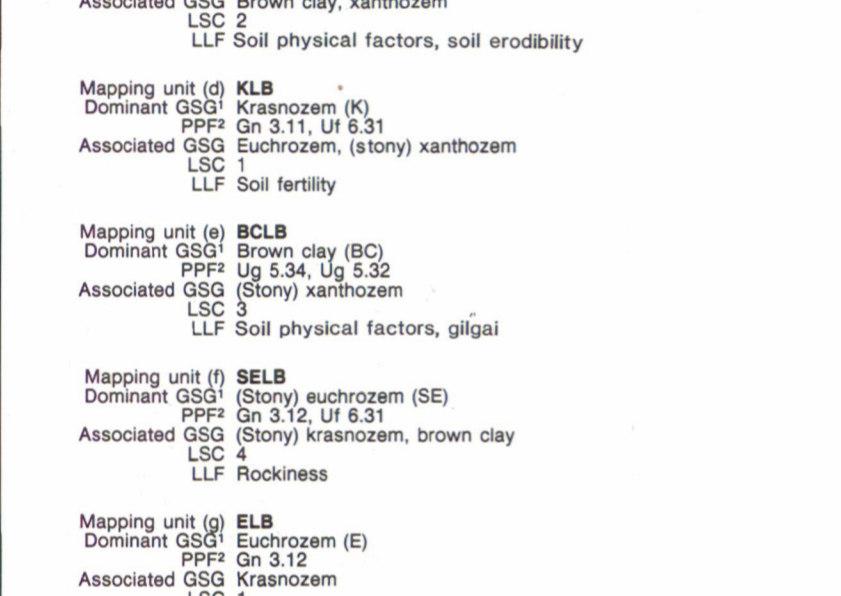
Mapping unit (d) **YEAN**
 Dominant GSG1 Yellow earth (YE)
 PPF1 Gn 2.21, Gn 2.22
 Associated GSG2 Red earth, red podzolic soil
 LSC 5
 LLF Soil moisture, soil fertility, hardsetting

Mapping unit (e) **BYAN**
 Dominant GSG1 (Bleached) yellow earth (BY)
 PPF1 Dy 3.81, Dy 2.82
 Associated GSG2 (Bleached) grey earth, red earth, yellow earth
 LSC 5
 LLF Soil wetness, soil moisture

Mapping unit (f) **RAN**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Gn 3.17, Dr 4.22
 Associated GSG2 Grey brown podzolic soil
 LSC 5
 LLF Soil fertility, hardsetting, soil moisture

Mapping unit (g) **PRAN**
 Dominant GSG1 Prairie soil (P)
 PPF1 Uf 6.31
 Associated GSG2 Solic soil
 LSC 5
 LLF Flooding

Mapping unit (h) **GBAN**
 Dominant GSG1 Grey brown podzolic soil (GB)
 PPF1 Ue 3.25, Dy 3.21
 Associated GSG2 Red podzolic soil
 LSC 5
 LLF Soil fertility, soil moisture, hardsetting



PSAL Glen Harding (M.J.Grundy)

SOILS OF THE ALLUVIAL PLAINS (A) ON BASALTIC ALLUVIUM (L)

Mapping unit (a) **BEAL**
 Dominant GSG1 Black earth (BE)
 PPF1 Ue 5.18, Ue 5.17, Ue 5.1
 Associated GSG2 Grey clay, brown clay
 LSC 5
 LLF Soil physical factors, soil wetness

Mapping unit (b) **GCAL**
 Dominant GSG1 Grey clay (GC)
 PPF1 Ue 5.28, Ue 5.24
 Associated GSG2 Black earth
 LSC 5
 LLF Soil physical factors, soil wetness

Mapping unit (c) **BMAL**
 Dominant GSG1 Black earth (with mottles) (BM)
 PPF1 Ue 5.18, Ue 5.17
 Associated GSG2 Grey clay, brown clay
 LSC 5
 LLF Outflow potential, salinity potential

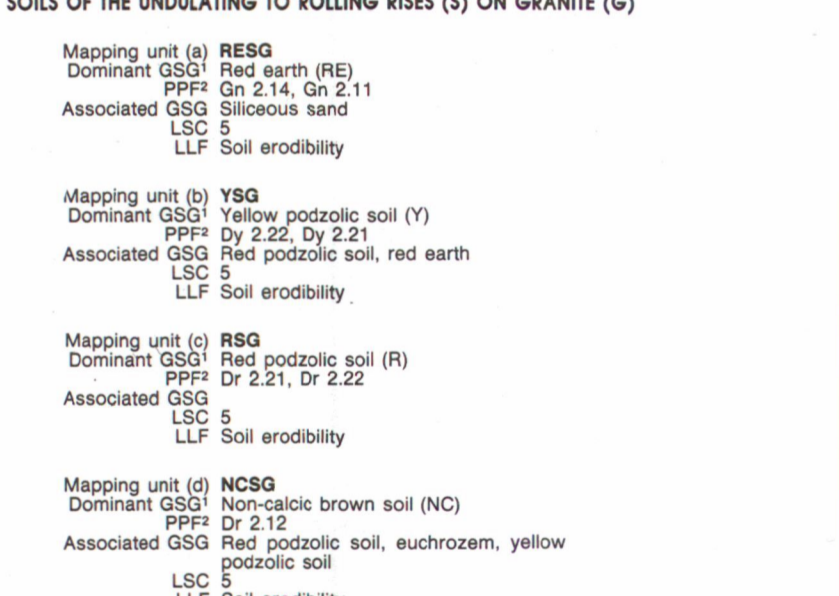
Mapping unit (d) **PSAL**
 Dominant GSG1 (Stony) prairie soil (PS)
 PPF1 Gn 3.22
 Associated GSG2 Black earth, grey clay
 LSC 5
 LLF Rockiness

Mapping unit (e) **HGAL**
 Dominant GSG1 Humic grey (HG)
 PPF1 Gn 3.02
 Associated GSG2 Black earth, xanthozem
 LSC 5
 LLF Soil wetness, soil moisture

Mapping unit (f) **GRAL**
 Dominant GSG1 Grey clay - red-brown earth complex (GR)
 PPF1 Ue 5.23-Dy 2.13 and similar
 Associated GSG2 Solic soil
 LSC 5
 LLF Soil complexity, giga, soil erodibility

Mapping unit (g) **EBAL**
 Dominant GSG1 Euzchrozem, brown variant (EB)
 PPF1 Uf 6.31
 Associated GSG2 Chernozem
 LSC 5
 LLF Soil fertility

Mapping unit (h) **BCAL**
 Dominant GSG1 Brown clay (BC)
 PPF1 Ue 5.34
 Associated GSG2 Solic soil
 LSC 5
 LLF Giga, soil physical factors



PMG Herberton (N.J.Bryde)

SOILS OF THE STEEP HILLS AND MOUNTAINS (M) ON GRANITE (G)

Mapping unit (a) **PMG**
 Dominant GSG1 Podzol (P)
 PPF1 Ue 4.21, Ue 2.22
 Associated GSG2 Lithosol, siliceous sand
 LSC 5
 LLF Topography, soil moisture



PLMG West of Mount Garnet (M.J.Grundy)

SOILS OF THE UNDULATING AND ROLLING HILLS (H) ON GRANITE (G)

Mapping unit (a) **PHG**
 Dominant GSG1 Podzol (P)
 PPF1 Ue 2.21, Ue 2.22
 Associated GSG2 Siliceous sand
 LSC 5
 LLF Topography, soil moisture

Mapping unit (b) **PLHG**
 Dominant GSG1 (Podzolic) lithosol (PL)
 PPF1 Ue 4.12, Ue 2.12
 Associated GSG2 Siliceous sand
 LSC 5
 LLF Topography, soil moisture

Mapping unit (c) **REHG**
 Dominant GSG1 Red earth (RE)
 PPF1 Gn 2.15, Gn 2.14
 Associated GSG2 Solic soil
 LSC 5
 LLF Topography

Mapping unit (d) **RHG**
 Dominant GSG1 Red podzolic soil (R)
 PPF1 Dr 2.21, Dr 2.12
 Associated GSG2 Solic soil
 LSC 5
 LLF Topography

Mapping unit (e) **SCHG**
 Dominant GSG1 Solic soil (SC)
 PPF1 Dy 3.42