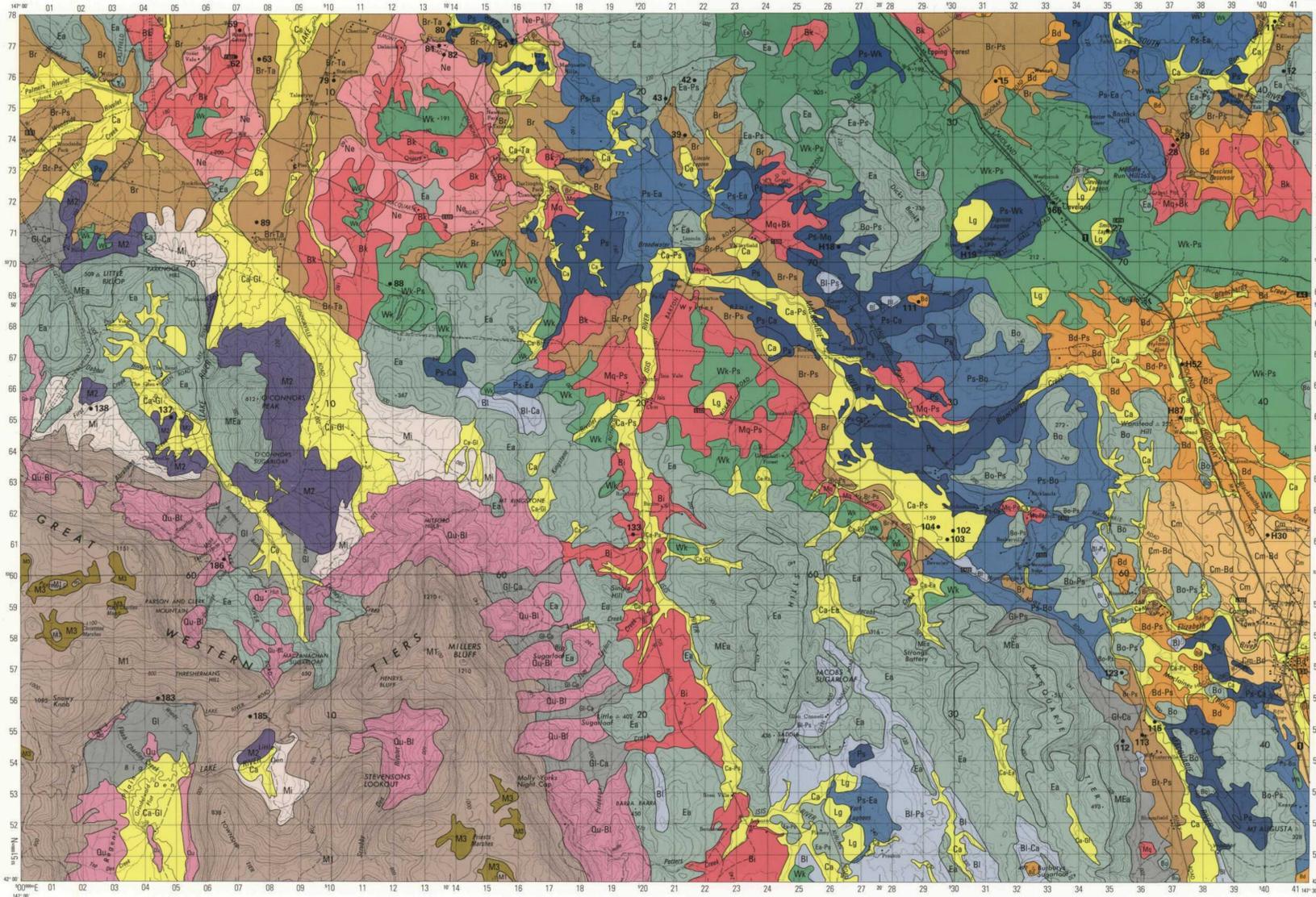


RECONNAISSANCE SOIL MAP SOUTH ESK (SOUTHERN HALF)

1:100 000 (8314s TOPOGRAPHIC BASE EDITION 3)

RECONNAISSANCE SOIL SERIES EDITION 1 1993



MAP USERS NOTE

This map provides an appraisal of the soil distribution based on landforms, climate and geology. The soil boundaries have been delineated by field work and aerial photo-interpretation and are shown over a topographic base. This map should not be enlarged. It is reliable only at the published scale of 1:100 000 and should be used in conjunction with the accompanying soil report which gives further details of the soil map units described below.

The information on this map has been prepared by the Tasmanian Department of Primary Industry and Fisheries to assist in land use planning and management. The Crown in the right of the State of Tasmania does not accept responsibility for any loss or damage which may result to any person arising from reliance on all or any part of this information, whether or not that loss or damage has resulted from negligence or any other cause.

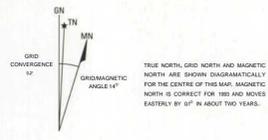
Field work by R B Doyle 1991, 1992.
Compiled by R B Doyle 1992, 1993.
Drafted by R M Moreton 1993.
Printed by Government Printer, Hobart, Tasmania 1993.

Refer to this map as:
Doyle, R B 1993: Reconnaissance Soil Map of the South Esk Sheet, Tasmania (southern half).
Department of Primary Industry and Fisheries, Tasmania, Australia.

Accompanies report titled 'Soils of the South Esk Sheet, Tasmania (southern half)' R B Doyle 1993.

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Base map and cartography by Land Information Bureau, Department of Environment and Land Management, Hobart, Tasmania.



SCALE 1:100 000
Contour Interval: 20 metres with 100 metre index contours

SOIL LEGEND

MAP UNIT	SITE FEATURES OF DOMINANT SOIL	PROFILE FEATURES OF DOMINANT SOIL	AREA HECTARES	MAP UNIT	SITE FEATURES OF DOMINANT SOIL	PROFILE FEATURES OF DOMINANT SOIL	AREA HECTARES
SOILS ON MODERN ALLUVIUM							
Canola Association							
Ca	Poorly drained soils on alluvium on (<1%) to gently undulating (1-3%) plains, valley flats and depressions.	Black, self-mulching, clay loam topsoils over black, blocky structured, cracking clay subsoils over mottled, greyish or yellowish brown, sandy clay, alkaline reaction trend (Ug, Gn).	4730	Bd	Moderately well drained soils on basalt on gently undulating to rolling (3-32%) low hills.	Dark brown, well structured, clay loam topsoils over friable, moderately structured, brown, clay subsoils grading or sharply overlying basalt bedrock, shallow soils, neutral reaction trend (Gn, Db, Dr).	2830
Canola Complexes							
Ca-Gl	As for Ca with Glen soils on undulating (3-10%) fans.	As for Canola and Glen associations.	3180	Bd-Ps	As for Bd with Panshanger soils on sand dunes.	As for Breadalbane and Panshanger associations.	700
Ca-Ps	As for Ca with Panshanger soils on sand dunes.	As for Canola and Panshanger associations.	2620	Cm	Well drained soils on basalt on gently undulating to rolling (3-32%) low hills (crests and shoulders).	Dark reddish brown, moderately structured, clay loam topsoils over reddish brown, friable, fine blocky, clay loam to light clay subsoils grading to weathered basalt, gravel common throughout, neutral reaction trend (Gn).	530
Ca-Ea	As for Ca with Eastfield soils on dolerite rises.	Bouldery Canola and Eastfield associations.	530	Cm-Bd	As for Cm with Breadalbane soils on gentler slopes.	As for Campbell Town and Breadalbane associations.	1610
Ca-Ta	As for Ca with Tara soils on small sandy rises.	Canola with Tara soils having dark brown, sandy loam topsoils above reddish brown, sandy clay loam B1 horizons with clear to gradual change to strong brown, sandy light clay subsoils, neutral reaction trend (Gn, Dr).	500	Cm-Ps	As for Cm with Panshanger soils on sandy banks.	As for Campbell Town and Panshanger associations.	40
Lagoon Association							
Lg	Very poorly drained soils on alluvium in flat (<1%) lagoonal depressions.	Black humic, clay loam topsoils over massive, mottled, grey, clay subsoils, sedimentary layering evident, neutral reaction trend (Gn, Ut).	470	SOILS ON JURASSIC DOLOERITE			
SOILS ON LAUNCESTON TERTIARY BASIN SEDIMENTS							
Brumby Association							
Br	Poorly drained soils on alluvium above Tertiary clays on flat to gently undulating (0-3%) river terraces.	Very dark greyish brown, sandy loam topsoils over grey, fine sandy loam A2 horizons abruptly over mottled, olive brown, massive or coarse prismatic, heavy clay subsoils, alkaline reaction trend (Db, Dy).	3550	Eastfield Association			
Brumby Complexes							
Br-Ps	As for Br with Panshanger soils on sand dunes.	As for Brumby and Panshanger associations.	3660	Ea	Imperfectly drained soils on dolerite bedrock and colluvium on rolling to steep (10-56%) land.	Very dark grey, loam topsoils over greyish brown, loamy sand A2 horizons over mottled, brown, very coarse blocky, heavy clay subsoils grading to variably weathered dolerite, profiles are stony, neutral reaction trend (Db, Dd).	15190
Br-Ta	As for Br with Tara soils on sandy rises.	As for Brumby association and Tara soil as described in Ca-Ta complex.	2130	Eastfield Complex			
Newham Association							
Ne	Imperfectly drained soils on undulating (3-10%) and rolling (10-32%) drop-off slopes or terrace scarps.	Very dark greyish brown, loam topsoils over gravelly (quartz), greyish brown, sandy loam A2 horizons, abruptly over mottled, yellowish brown, coarse blocky, heavy clay subsoils, acid reaction trend (Dy, Db).	2550	Ea-Ps	As for Ea with Panshanger soils on sandy banks.	As for Eastfield and Panshanger associations.	960
Newham Complex							
Ne-Ps	As for Ne with Panshanger soils on sand dunes.	As for Newham and Panshanger associations.	160	Bloomfield Association			
Brickendon Association							
Bk	Imperfectly drained soils on alluvium above Tertiary clays on flat to gently undulating (0-3%) higher level river terraces.	Very dark greyish brown, sandy loam topsoils over much quartz gravel in a brownish grey, loamy sand A2 horizon abruptly over mottled, yellowish brown, coarse blocky, heavy clay, coarse red and white mottles occur in the lower subsoils, acid reaction trend (Dy, Db).	3220	Bo	Moderately well drained soils on dolerite bedrock and colluvium on rolling to steep (10-56%) land.	Dark brown, sandy loam topsoils over dark brown, fine blocky, light clays over reddish brown to brown, coarse blocky, clay subsoils above dolerite, neutral reaction trend (Dr, Db).	1550
Macquarie Association							
Mq	Imperfectly drained soils on alluvium above Tertiary clays on flat to gently undulating (0-3%) higher level river terraces.	Very dark greyish brown, sandy loam topsoils over grey, gravelly (ferruginous), loamy sand A2 horizons, abruptly over mottled, yellowish brown, heavy clay subsoils with columnar structure, neutral reaction trend (Dy, Db).	180	Bloomfield Complex			
Macquarie Undifferentiated Group and Complex							
Mq-Bk	As for Mq with Brickendon soils.	As for Macquarie and Brickendon associations.	720	Bo-Ps	As above with Panshanger soils on sandy banks.	As for Bloomfield and Panshanger associations.	2400
Mq-Ps	As for Mq with Panshanger soils on sandy rises.	As for Macquarie and Panshanger associations.	1970	Miscellaneous Soils Related to Eastfield			
Bicton Association							
Bi	Imperfectly drained soils on alluvium derived from Permian and older rocks above Tertiary clays on flat to gently undulating (0-3%) higher level river terraces.	Very dark greyish brown, sandy loam topsoils over brownish grey, loamy sand A2 horizons abruptly over dark yellowish brown, weak blocky, heavy clay subsoils, stones dispersed in profile, acid reaction trend (Db, Dy).	1860	Mea	Imperfectly drained soils on dolerite rock and colluvium on steep to very steep (>32%) land.	Shallower and stonier profiles with frequent rock outcrops otherwise similar to Eastfield soils (Db, Dy).	5550
Woodstock Association							
Wk	Imperfectly drained soils above Tertiary sediments on flat to undulating (0-10%) relic lake beds or terraces.	Very dark grey, loamy sand topsoils over brownish grey, loamy sand A2 horizons with much ferruginous gravel abruptly over yellowish brown, coarse blocky, heavy clay subsoils with coarse red and white mottles increasing in abundance with depth, acid reaction trend (Dy, Dr).	2170	Miscellaneous Soils 1			
Woodstock Complex							
Wk-Ps	As for Wk with Panshanger soils on sandy rises.	As for Woodstock and Panshanger associations.	8690	Ml	Well drained soils on dolerite bedrock and colluvium on rolling to steep (>10%) land. Rock outcrop is frequent.	Black, humic loam topsoils often with much dolerite gravel over deep, well structured, dark reddish brown to dark red, clay loam to light clay Bl or B2 horizons grading to weathered dolerite, acid reaction trend (Gn).	12990
SOILS ON AEOLIAN DEPOSITS							
Panshanger Association							
Ps	Rapidly drained soils on loose, windblown sand on gently undulating to rolling (3-32%) dunes and flanks of dolerite hill slopes.	Deep (>75cm) sands to loamy sands. Thin, loose, sandy topsoils over thick, strong brown to yellowish brown, loose, sandy, colour B horizons, profiles may overlie clays or bedrock at depth, neutral reaction trend (Uc).	3090	SOILS ON TRIASSIC AND PERMIAN SANDSTONE			
Panshanger Complexes							
Ps-Bk	As for Ps with Canola soils on flood plains.	As for Panshanger and Canola associations.	1270	Blessington Association			
Ps-Mq	As for Ps with Macquarie soils on flat terraces.	As for Panshanger and Macquarie associations.	530	Bl	Imperfectly drained soils on sandstone on rolling and steep (10-56%) land.	Dark greyish brown, loamy sand topsoils over dark grey, sand to loamy sand A2 horizons, abruptly over sandy clay or clay subsoils passing to decomposing sandstone, acid reaction trend (Dy).	580
Ps-Wk	As for Ps with Woodstock soils on flat terraces.	As for Panshanger and Woodstock associations.	660	Blessington Complexes			
Ps-Br	As for Ps with Bloomfield soils on dolerite bedrock.	As for Panshanger and Bloomfield associations.	3210	Bl-Ps	As for Bl with Panshanger soils on sand dunes.	As for Blessington and Panshanger associations.	1690
Ps-Ea	As for Ps with Eastfield soils on dolerite bedrock.	As for Panshanger and Eastfield associations.	3440	Bl-Ca	As for Bl with Canola soils in drainage lines.	As for Blessington and Canola associations.	270
SOILS ON ALLUVIAL FAN DEPOSITS							
Glen Association							
Gl	Poorly drained soils on gently undulating to rolling (3-32%) alluvial fans.	Very dark grey, gravelly, humic loam topsoils over light brownish grey, sandy clay loam A2 horizons, over gravelly, mottled, yellowish brown, heavy clay, neutral trend (Dy, Db).	1070	SOILS ON PERMIAN MUDSTONE			
Glen Complex							
Gl-Ca	As for Gl with Canola soils in drainage lines.	As for Glen and Canola associations.	1520	Quamby Association			
Gl-Ps	As for Gl with Panshanger soils on sandy rises.	As for Glen and Panshanger associations.	100	Qu	Imperfectly drained soils on Permian mudstone on rolling to steep (10-56%) land.	Dark brown, silt loam topsoils over brown to brownish grey, silty clay loam upper B horizons over brown to greyish brown, silty light clay subsoils grading to variably weathered mudstone bedrock, acid reaction trend (Gn).	670
SOILS ON CAMBRIAN AND PRECAMBRIAN VOLCANICS AND PHYLLITES							
Miscellaneous Soils 2							
M2	Moderately well drained soils on basic volcanic rocks and phyllite on rolling to very steep (>10%) land.	Various gradational soils (Gn). Soils on volcanic rocks have very dark, clay loam topsoils above medium blocky, brown to reddish brown subsoils. Soils on phyllite have loam topsoils above loam A2 horizons above silt loam, weakly structured subsoils. Both types have acid reaction trends (Gn).	2090	Quamby Complex			
SOILS OF ORGANIC DEPOSITS							
Miscellaneous Soils 3							
M3	Very poorly drained soils from organic deposits in depressions on flat to gently undulating (0-3%) land.	Very dark brown fibric peat over black hemic peat over massive, black peaty loam above dolerite boulders or bedrock, acid reaction trend (O).	540	Qu-Bi	As for Qu with Blessington soils on sandstone.	As for Quamby and Blessington associations.	5510
123 * Location of sample sites with laboratory data.							



RECONNAISSANCE SOIL MAP

SOUTH ESK (SOUTHERN HALF)

TASMANIA

1:100000

