LAND SYSTEMS
AND GEOMORPHIC UNITS

1 : 500 000
0 10 20 30 40
Kilometres

Land Conservation Council
Victoria

GEOMORPHIC UNITS

Geomorphic Unit		Map Symbol	Description
Central Victorian Uplands	East Victorian Uplands	1.1	Dissected uplands
		1.2	Dissected plateaux (Wellington uplands)
		1.3	High plains (Dargo, Bogong, etc)
	West Victorian Uplands	2.1	Dissected uplands (Midlands, etc)
		2.2	Prominent ridges (Grampians)
		2.3	Dissected tableland (Dundas Tableland)
		2.4	Dissected tableland (Merino Tableland)
South Victorian Uplands		3.1	Dissected fault blocks (Otway Ranges)
		3.2	Moderately dissected block (Barrabool Hills)
		3.3	Moderately dissected ridge (Mornington Peninsula)
		3.4	Dissected fault blocks (S. Gippsland Ranges)
		3.5	Dissected outlier (Wilsons Promontory)
Murray Basin Plains	Riverine Plains	4.1	Present floodplain (Murray Valley)
		4.2	Older alluvial plain (Shepparton)
	Mallee Dunefields	5.1	Low calcareous dunes (Ouyen)
		5.2	High siliceous dunes (Big Desert/Sunset)
	Wimmera Plains	6.1	Clay plains (Nhill)
		6.2	Ridges and flats (Goroke)
		6.3	Low siliceous dunes (Little Desert)
West Victorian Volcanic Plains		7.1	Undulating plains (Western District)
		7.2	Stony undulating plains (Western District)
South Victorian Coastal Plains		8.1	Ridges and flats (Follett)
		8.2	Dissected plains (Port Campbell)
		8.3	Sand and clay plains (Moorabbin)
		8.4	Fans and terraces (Western Port)
		8.5	Barrier complexes (Discovery Bay/Gippsland Lakes)
South Victorian Riverine Plains		9.1	Present floodplains (Gippsland)
		9.2	Intermediate terraces (Gippsland)
		9.3	High terraces and fans (Gippsland)

KEY TO LAND SYSTEM SYMBOLS

LANDFORM

- **C** Coastal dune
- **E** East-west dune
- **F** Present floodplain
- **G** Gentle to moderate hill
- **I** Irregular dune
- **L** Lunette
- **P** Plain above flood level
- **R** Stranded beach ridge, usually trending nnw-sse
- **S** Steep mountain and hill
- **W** Weakly elongated dune
- **Y** Gypseous dune

LITHOLOGY (rock or sediment type)

- **c** Coarsely-textured unconsolidated deposits
- **f** Finely-textured unconsolidated deposits
- **g** Granites and gneisses
- **l** Limestone
- **s** Sedimentary rocks
- **v** Volcanic rocks
- **z** Saline finely-textured deposits

CLIMATE (mean annual rainfall)

- **2** 200-300 mm
- **3** 300-400 mm
- **4** 400-500 mm
- **5** 500-600 mm
- **6** 600-700 mm
- **7** >700 mm temperate
- **8** >700 mm montane
- **9** >700 mm sub-alpine

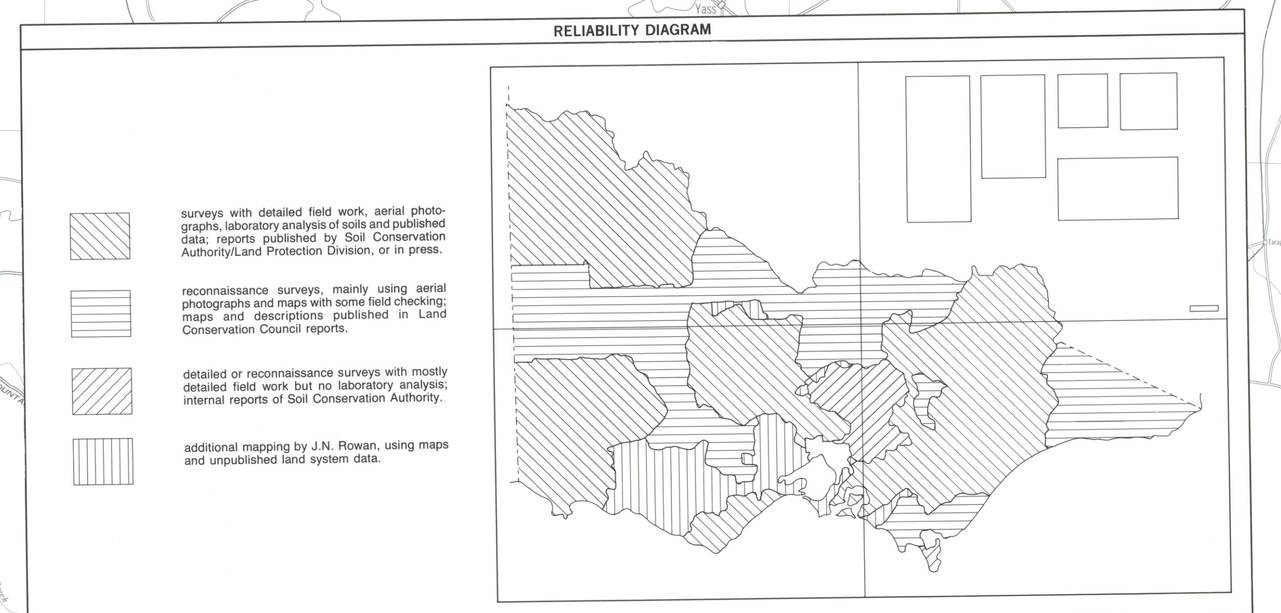
LEGEND

- Geomorphic Unit Boundaries
- Land System Boundaries
- Land System Boundary - Rainfall
- **1.1** Geomorphic Unit Map Symbol
- **Pf4$_1$** Land System Map Symbol

Notes:

1. Each land system is identified firstly by the geomorphic unit in which it lies. These units are listed (to the left) and their symbols (1.1 to 9.3) are shown in bold type on the map. Boundaries between geomorphic units are shown by a heavy line.
2. Within each geomorphic unit the land systems are identified by composite symbols which reflect the landform (upper case letters), lithology (lower case letters) and climate (numbers 2 to 9) characteristic of that land system. When more than one letter is used for landform or lithology, the land system contains a mixture, with the order of letters reflecting the decreasing abundance of each feature. The subscripts differentiate land systems which have otherwise similar symbols, but which have variations in soils, indigenous vegetation or both.
3. The Land System Table (see microfiche card in the map pocket), outlines for each land system its indigenous vegetation, soils, soil process limitations, and equivalent land systems in published studies.
4. The maps were compiled by J.N. Rowan, Land Protection Division, from various sources, mainly Land Protection Division and Soil Conservation Authority publications. Additional land systems mapping was carried out by J.N. Rowan in areas marked on the reliability diagram. Geomorphic units were identified by J.J. Jenkin and J.N. Rowan.
5. Additional data
   The 1:500 000 map boundaries shown have been simplified from the Statewide land system map series prepared at 1:250 000 scale. That series and the report *"Land systems of Victoria"* are available from the Land Conservation Council and the Land Protection Division of the Department of Conservation, Forests and Lands. The report includes the Land System Table, Locality plan and references for published studies, and explanatory information.

RELIABILITY DIAGRAM



- surveys with detailed field work, aerial photographs, laboratory analysis of soils and published data; reports published by Soil Conservation Authority/Land Protection Division, or in press.
- reconnaissance surveys, mainly using aerial photographs and maps with some field checking; maps and descriptions published in Land Conservation Council reports.
- detailed or reconnaissance surveys with mostly detailed field work but no laboratory analysis; internal reports of Soil Conservation Authority.
- additional mapping by J.N. Rowan, using maps and unpublished land system data.

© Crown (State of Victoria) Copyright 1988

Cartography by Thematic Mapping Unit
Division of Survey and Mapping
Department of Property and Services

PRINTED BY AUTHORITY JEAN GORDON
GOVERNMENT PRINTER, MELBOURNE