

SOILS AND LAND CAPABILITY OF THE LEXTON REGION

Prepared by L A Sullivan

Biological & Chemical Sciences
Ballarat University College

For the:

Lexton Landcare Group

1991

CONTENTS

INTRODUCTION	4
SOILS	5
Classification of the Soil.....	5
Description of the Major Soil Groups.....	5
Uniform soils	5
Coarse sands	5
Alluvial soils.....	5
Brown to reddish brown loams	6
Friable clays.....	6
Cracking clays	6
Gradational Soils	6
Red gradational soils – basaltic parent materials	6
Brown gradational soils – basaltic parent materials.....	6
Red or reddish brown gradational soils – sedimentary parent materials.....	7
Yellowish brown to greyish brown gradational soils.....	7
Dark gradational soils	7
Duplex Soils	7
Yellow duplex soils	7
Red duplex soils.....	7
Brown duplex soils	8
Dark duplex soils	8
LAND DEGRADATION	9
FORMS OF DEGRADATION.....	10
Salinity.....	10
Susceptibility and incidence	10
Effect and management	10
Sheet Erosion.....	10
Susceptibility	10
Incidence.....	11
Effect and management	11
Gully Erosion.....	11
Susceptibility	11
Incidence.....	11
Effect and management	11
Streambank Erosion.....	11
Susceptibility and incidence	11
Effect and management	12
Wind Erosion.....	12
Susceptibility	12
Incidence.....	12
Effect and management	12
Soil Compaction	12
Susceptibility	12
Incidence.....	12
Effect and management	12
Slope Failure.....	12
Susceptibility	12
Incidence.....	13
Effect and management	13
Soil Acidification.....	13
Susceptibility	13
Incidence.....	13
Effect and management	13
LAND CAPABILITY ASSESSMENT	14
MAP UNITS.....	15
1. Burnbank Plains Unit.....	15
2. Burnbank Slopes Unit.....	16
3. Ben More Foothills Unit.....	17

4.	Ben More Hills	18
5.	Glenbrae Unit.....	19
6.	Grandview Unit	21
7.	East Mt Mitchell – Carinya Unit.....	22
8.	Trawalla-Pinepark Unit.....	23
9.	Norbury Unit.....	24
10.	Ercildoun Plains Unit.....	25
11.	Volcanic Hills Unit.....	26
12.	Whitestone Swamp Unit.....	27
13.	Bundarra Unit	28
14.	Entrenched Valleys.....	29
15.	Mt Misery Hills Unit.....	30
16.	Mount Misery Slopes Unit.....	31
17.	Ercildoun Slopes Unit.....	32
	BIBLIOGRAPHY	33

List of Appendices

	PRENOTE TO APPENDICES 1 TO 24.....	34
	APPENDIX 1 – Soil Profile Description.....	35
	APPENDIX 2 – Soil Profile Description.....	36
	APPENDIX 3 – Soil Profile Description.....	37
	APPENDIX 4 – Soil Profile Description.....	38
	APPENDIX 5 – Soil Profile Description.....	39
	APPENDIX 6 – Soil Profile Description.....	40
	APPENDIX 7 – Soil Profile Description.....	41
	APPENDIX 8 – Soil Profile Description.....	42
	APPENDIX 9 – Soil Profile Description.....	43
	APPENDIX 10 – Soil Profile Description.....	44
	APPENDIX 11 – Soil Profile Description.....	45
	APPENDIX 12 – Soil Profile Description.....	46
	APPENDIX 13 – Soil Profile Description.....	47
	APPENDIX 14 – Soil Profile Description.....	48
	APPENDIX 15 – Soil Profile Description.....	49
	APPENDIX 16 – Soil Profile Description.....	50
	APPENDIX 17 – Soil Profile Description.....	51
	APPENDIX 18 – Soil Profile Description.....	52
	APPENDIX 19 – Soil Profile Description.....	53
	APPENDIX 20 – Soil Profile Description.....	54
	APPENDIX 21 – Soil Profile Description.....	55
	APPENDIX 22 – Soil Profile Description.....	56
	APPENDIX 23 – Soil Profile Description.....	57
	APPENDIX 24 – Soil Profile Description.....	58
	APPENDIX 25 – Maps and Aerial Photographs Used	59
	APPENDIX 26 – Glossary	60