

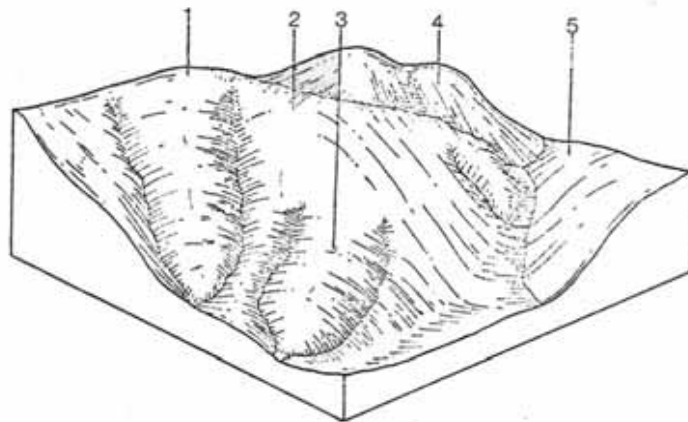
### 6.12 Macedon Land System

Occurring in the north-west, this land system covers 47.3 km<sup>2</sup> or 1.8% of the survey area.

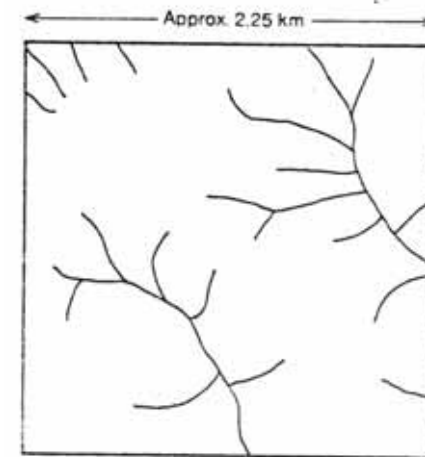
The land system consists of mountains with steep slopes and Devonian . rhyodacite or granodiorite bedrock.

The predominant soil is a red gradational with a dark friable topsoil becoming heavier and more structured with depth. The soil on the mountain tops are darker with a high percentage of organic matter. Soils on the granodiorite have a greater amount of sand.

Production of both hardwood and softwood is the principle use of the area although it has a high recreation potential because of its natural beauty and close proximity to Melbourne.



**Schematic Block Diagram**



**Drainage Pattern**

COMPONENT	1	2	3	4	5
Proportion %	10	30	25	15	20
CLIMATE Rainfall (av.) Temperature (av.) Seasonal growth limitations	Annual: 750-1000 mm (monthly range: January 47 mm – September 87 mm) Annual: 11°C (monthly range: February 18°C – July 6°C) Temperature: less than 10°C May – September Precipitation: less than potential evapotranspiration November - March				
GEOLOGY Age, rock	Devonian rhyodacite			Devonian granodiorite	
TOPOGRAPHY Landscape Elevation (range) m Local relief (av.) m Drainage pattern Drainage density km/km <sup>2</sup> Land form Slope (av.) %, slope shape	Mountains 550-950 130 Dendritic 2.0 Crest 18' Convex Upper Slope 58; Straight Lower Slope 47; Straight Mid Slope 27; Straight Mid Lower Slope 36; Straight				
NATIVE VEGETATION Structure Dominant species	Open forest North and west aspect: <i>E. obliqua</i> , <i>E. dives</i> , <i>E. goniocalyx</i> , <i>E. radiata</i> South and east aspect: <i>E. obliqua</i> , <i>E. viminalis</i> , <i>E. delegatensis</i> , <i>E. pauciflora</i>				
SOIL Parent Material Description  Factual Key Surface Texture Permeability Depth (av.) m	Dark brown gradational soils  Gn 2.01 Loam High 0.8	Red gradational soils, fine structure  Gn 4.14 Loam High 1.8	In situ weathered rock Deep yellow gradational soils, fine structure Gn 4 Loam High 2.0	Mottled red gradational soils, fine structure  Gn 3.11 Sandy loam High 1.4	Deep yellow gradational soils, fine structure Gn 4 Sandy loam High 1.2
LAND USE	Forestry, occasional cropping and grazing (on lower slopes) Recreation, water supply, rural subdivision				
SOIL DETERIORATION HAZARD Critical land features Processes Forms	Slope gradient Overland flow Sheet erosion	Slope gradient Overland flow Sheet erosion	Slope gradient Overland flow Sheet erosion	Slope gradient Overland flow Sheet erosion	Slope gradient Overland flow Sheet erosion