

614132

HEBE RIVER

The peculiar photo pattern of dense dissection in Precambrian siltstones and quartzites was used to map this area of low hills occurring along the Flowerdale and Hebe Rivers south-west of Wynyard.

Soils include yellowish brown duplex profiles on the crests and uniformly textured gravelly light grey clays on the upper slopes. Friable yellow and yellowish red soils have developed on colluvial and

alluvial deposits on the lower slopes and along the drainage lines.

A closed scrub of manuka occurs on gentle upper slopes where drainage has been impeded by a quartzitic hard pan. Elsewhere is a forest mostly dominated by stringybark.

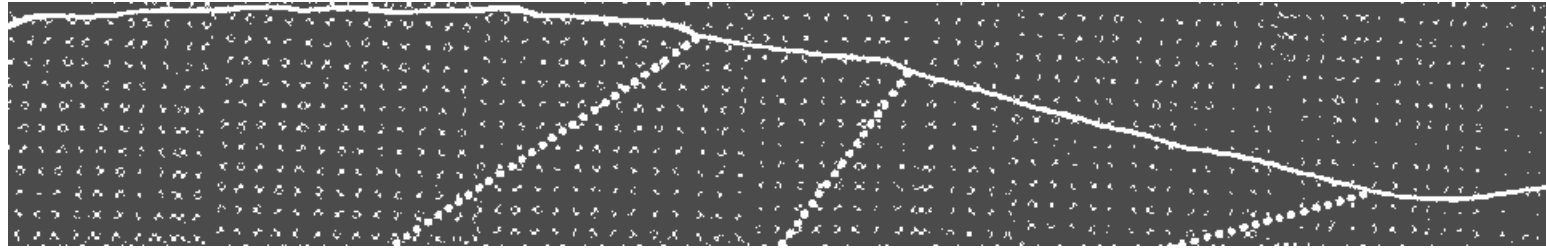
The area is principally used for forestry with nature conservation of secondary importance.

Sheet erosion represents a moderate hazard on the steep slopes with a consequent risk of siltation along the drainage lines.

LAND SYSTEM

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Hebe River



COMPONENT	1	2	3	4
PROPORTION %	45	15	30	10
CLIMATE	Average Annual Rainfall 1 250-1 500 mm			
GEOLOGY	Precambrian siltstones and quartzites			
	Siltstone	Quartzite	Colluvium	Alluvium
TOPOGRAPHY	Low hills, dense dissection			
Land form	Low hills, dense dissection			
Position	Crests	Upper slopes	Lower slopes	Drainage lines
Average Sideslope °			18	2
NATIVE VEGETATION				
Structure	Open forest	Closed scrub	Tall open forest	
Association	Stringybark, black peppermint, manuka	Manuka, hard water fern	Stringybark	White gum
SOIL	Yellowish brown (10 YR 5/8) duplex soil	Gravelly, light grey (5 YR 6/1) clay soil, uniform texture, siliceous hard pan	Friable, yellowish red (5 YR 4/6) gradational soil	Friable, reddish yellow (5 YR 6/6) gradational soil
Surface Texture	Loam	Gravelly light clay	Clay loam	Loam
Permeability	Moderate	Low	Moderate	High
Average Depth m	1.3		0.6	>2.0
PRESENT LAND USE	Forestry, nature conservation			
HAZARDS	Low sheet erosion		Moderate sheet erosion	Moderate gully erosion, high siltation