

614131

KELLYS KNOB

Around the upper tributaries of the Black and Dip Rivers and extending westward towards Trowutta is an extensive area of low hills developed on Precambrian mudstones and quartzites. Southward there is a gradual change to Milkshake Hills land system in the vicinity of the Arthur River. Another body lies along the Frankland River and the lower reaches of the Arthur River.

Soil profiles are gradational and on the crests and slopes typically contain gravel, which is absent from the deeper soil along the drainage lines. Scattered pockets of shallow organic soils on quartzite gravels occur on the higher parts. Isolated small patches of red soils are probably derived from remnants of Tertiary basalt.

In the swales and on the gentle lower slopes an open forest of stringybark overtops a closed scrub of manuka, leatherwood, *Acacia mucronata* and cutting grass, with hardwater fern comprising the ground flora. Manuka and *Acacia mucronata* form a tall shrub layer beneath the canopy of stringybark on the crests and gentle upper slopes. On the steeper slopes and along the drainage lines the tall stringybark forest has an understorey of dogwood, stinkwood, blackwood and soft tree fern.

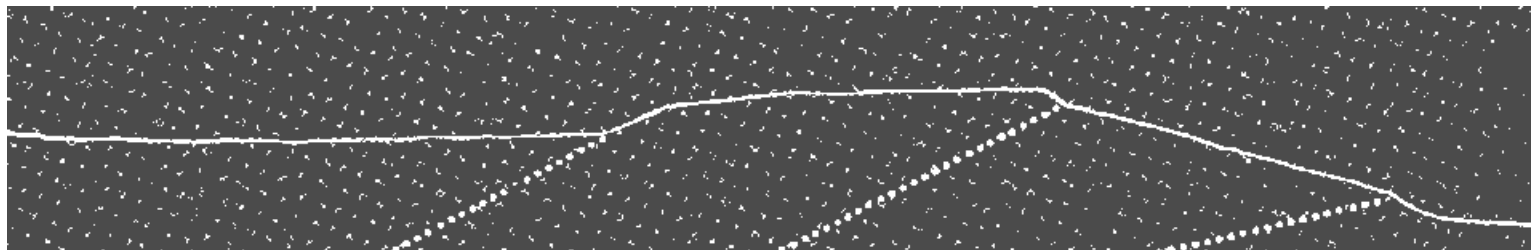
Forestry is the main land use but these areas also serve as zones of nature conservation.

The worst hazard is associated with the pockets of quartzite gravels and severe rill and gully erosion occurs on and around abandoned borrow areas.

LAND SYSTEM

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Kellys Knob



COMPONENT	1	2	3	4
PROPORTION %	40	30	20	10
CLIMATE	Average Annual Rainfall 1 250-1 500 mm			
GEOLOGY	Precambrian mudstones, quartzites			
				Alluvium
TOPOGRAPHY	Low hills			
Land form				
Position	Swales, gentle lower slopes	Crests, gentle upper slopes	Steeper sideslopes	Drainage lines
Average Sideslope °	2	4	10	3
NATIVE VEGETATION				
Structure	Open forest, closed scrub	Open forest	Tall open forest	
Association	Manuka, leatherwood, <i>Acacia mucronata</i> , stringybark, cutting grass, hard water fern	Stringybark, manuka, <i>Acacia mucronata</i>	Stringybark, dogwood stinkwood, blackwood, soft tree fern	
SOIL	Gravelly, greyish brown (10 YR 5/2) gradational soil	Gravelly light brownish grey (10 YR 6/2) gradational soil	Gravelly brownish yellow (10 YR 6/6) to yellowish brown (10 YR 5/6) gradational soil	Light olive brown (2 5 YR 5/4) gradational soil
Surface Texture	Peaty loam	Clay loam		Peaty loam
Permeability	Moderate			
Average Depth m	1 0	0 6	1 0	>2 0
PRESENT LAND USE	Forestry, nature conservation, gravel stripping			
HAZARDS	Low sheet erosion			