

672341

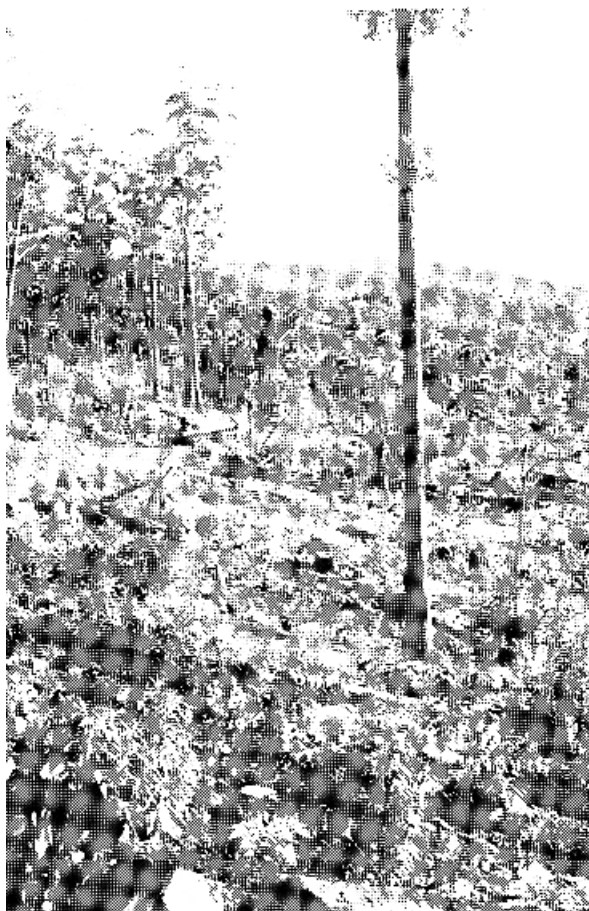
Cluan Tier

This land system is situated in the north east of the study area at the top of the Cluan Tiers. It is an undulating sloping area dominated by low rocky hills. Jurassic dolerite occurs extensively and rock fragments are common in the soil profile. This probably resulted from the mixing effects of solifluction conditions during Pleistocene times.

Gradational, brown or reddish brown stony soil typify most situations. Some have organic rich top soil. All profiles are moderately deep, although accurate depth measurements to bedrock, were prevented by the rocky nature of soils.

The vegetation grades from rainforest on the crests to mixed forest (Gilbert 1959) and finally eucalypt dominated forest on lower slopes. Rainforests on the crests and upper slopes are dominated by *Nothofagus cunninghamii* with *Atherosperma moschatum* a secondary species. Mid slopes support mixed forests with *N. cunninghamii* occurring locally, but *Eucalyptus obliqua*, *E. delegatensis* and *E. regnans* are more widespread. The understorey has many species which are common to wet sclerophyll forests. Drier lower slopes have an open understorey and the (tall) open forest canopy is composed of *E. obliqua* and *E. delegatensis*.

Recreation and forestry are present land uses. There is a low sheet erosion hazard throughout.



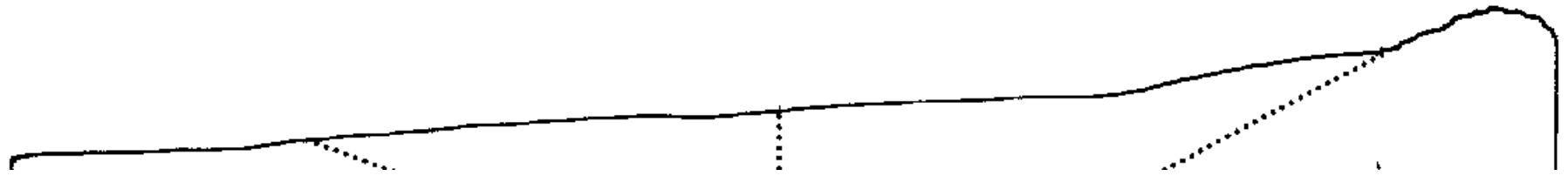
Mixed forests on mid and lower slopes are being-clearfelled at present.

LAND SYSTEM

Cluan Tier

672341

Area (ha): 997



COMPONENT	1	2	3	4
PROPORTION (%)	20	30	40	10
RAINFALL (mm)	Approximate Annual Rainfall: 1250-1500			
GEOLOGY	Jurassic dolerite			
TOPOGRAPHY	Undulating slopes rising to rocky hills			
Position	Lower Slopes	Mid Slopes	Steep Upper Slopes	Rocky Crests
Typical Slope (°)	5-7	7-10	10-15	7-10
NATIVE VEGETATION		(Tall) Open Forest	Closed Forest	Closed Forest
Structure	(Tall) Open Forest	(Mixed Forest)	(Rainforest)	(Rainforest)
Floristic Association (See Appendix 1 for common names)	Eucalyptus obliqua E. deiegatensis Bedfordia salicina Coprosma nitida Pultenaea juniperina	Eucalyptus obliqua E. deiegatensis E. regnans Nothofagus cunninghamii Acacia dealbata Bedfordia salicina Leptospermum lanigerum Zieria arborescens Lomatia tinctoria Gahnia grandis Senecio	Nothofagus cunninghamii Atherosperma moschatum Acacia dealbata Dicksonia antarctica	Nothofagus cunninghamii Atherosperma moschatum Acacia dealbata Prostanthera rotundifolia Dicksonia antarctica
SOIL Surface(A)Texture	Clay Loam	Organic Clay Loam	Clay Loam	Organic Clay Loam
B Horizon(subsoil) Colour (wet) Texture and primary profile form	Stony, strong brown (7.5 YR 4/6) light medium clay. Gradational.	Stony, strong brown (7.5 YR 4/6) to very dark greyish brown (10 YR 3/2) light medium clay.	Stony, gravelly, strong brown (7.5 YR 4/6) sandy clay loam. Uniform.	Stony, gravelly, dark reddish brown (5 YR 2.5/2) to strong brown (7.5 YR 4/6) sandy clay loam to light
Permeability	Moderate-Low	Moderate-Low	High	High-Moderate
Typical depth(m)	>1.00	>1.00	>0.70	>0.60
Depth(A)Horizon(m)	0.15	0.15-0.20	0.20	0.20
LAND USE	Forestry, recreation			
HAZARDS	Low sheet erosion			