

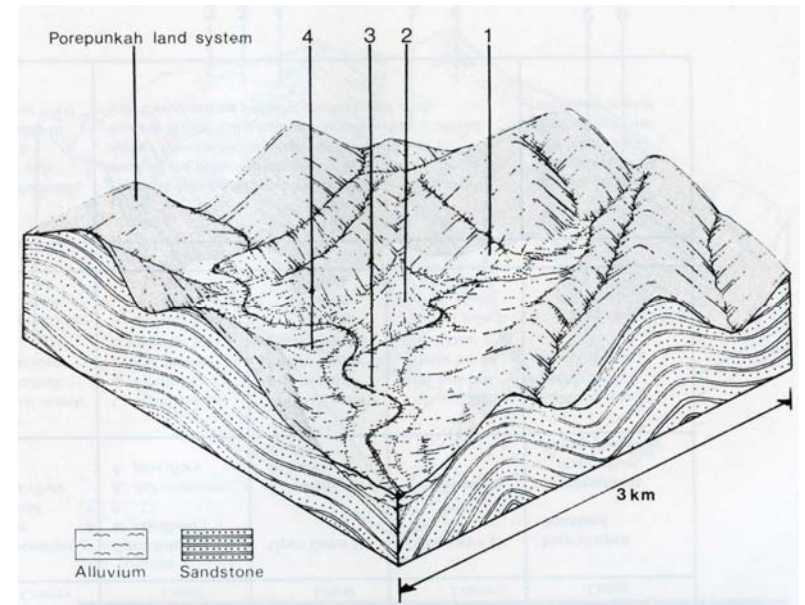
## 7.4 Bungamero land system

This is similar to the Myrtleford land system, but is wetter and cooler. It consists of the relatively broad valley bottoms of the main streams, up to 1 km wide, in their upper reaches. Where a mappable width of alluvial terraces exists along the stream, this is mapped as the Ovens land system. Ordovician sedimentary rocks predominate, although there are areas of metamorphosed sediments at Abbeyard, and the upper King River valley contains several rock types. Average annual rainfall is high. Temperatures are generally mild in summer and low in winter. Frosts are common in cleared areas through the colder months.

Reddish brown gradational soils with rough ped fabric are the most common, but those with smooth ped fabric are also common on the older land surface. Yellowish brown gradational soils on alluvium occur on the younger fans.

Open forest of *Eucalyptus radiata*, *E. rubida* and *E. dives* predominates, with small areas of *E. camphora* and *E. stellulata* in areas of impeded drainage. The relatively rare *E. neglecta* occurs along the upper reaches of the Buffalo and Buckland Rivers.

In many places, particularly where the valley bottom is wide, the native vegetation has been cleared for agriculture. These are relatively stable areas, but gullying of the dispersible soils in drainage lines could result if surface runoff increased.



**BUNGAMERO LAND SYSTEM** Area 300 sq km

<b>CLIMATE</b> Rainfall, mean (mm) Temperature, mean (°C) Seasonal growth limitations	Annual 1000 -1500; lowest January (50-70), highest June (150-170) Annual 13; lowest July (7), highest January (20) Temperature – less than 10°C (av): June-August Precipitation – months less than 50% frequency of effective rain: January-February			
<b>GEOLOGY</b> Age, lithology	Quaternary to Recent alluvium and colluvium			
<b>PHYSIOGRAPHY</b> Landscape Elevation range (m) Relative relief (m)	Valley piedmont 300-600 20			
<b>LAND COMPONENT</b> Percentage of land system	1 25	2 50	3 15	4 10
<b>PHYSIOGRAPHY</b> Land form Position on land form Slope range (%) Slope shape	Residual hill and fan Upper level, dissected 5-20 Convex	Fan Middle level 5-15 Linear-Concave	Fan Lower level 3-8 Concave	Stream flat - 2-3 Linear
<b>NATIVE VEGETATION</b> Structure Dominant species	Open forest III <i>E. radiata, E. rubida, E. dives, E. st-johnii</i>	Open forest III <i>E. radiata, E. rubida, E. dives, E. st-johnii</i>	Open forest III <i>E. radiata, E. rubida, E. dives, E. st-johnii</i>	Open forest II to woodland <i>E. camphora, E. stellulata</i>
<b>SOIL</b> Parent material  Description Surface texture Permeability Depth (m)	Quaternary alluvium-colluvium; some <i>in situ</i> weathered rock (Ordovician sandstone, mudstone) Reddish brown gradational soils with smooth ped fabric Clay loam High 2.0	Quaternary alluvium colluvium  Reddish brown gradational soils with rough ped fabric Loam High 2.0	Quaternary alluvium-colluvium  Yellowish brown gradational soils on alluvium Loam High 1.5	Recent alluvium  Undifferentiated sand and loam soils Sandy loam or gravelly loam High 1.5
<b>LAND USE</b>	Mostly cleared; grazing, mostly beef or dairy cattle; some tobacco-cropping; pine plantations Uncleared areas; limited timber production; forest grazing			
<b>SOIL DETERIORATION HAZARD</b> Critical land features, processes, forms	Surface soils are readily compacted, which can result in excessive surface run-off and sheet erosion			High water table for much of the year; occasional flooding.