

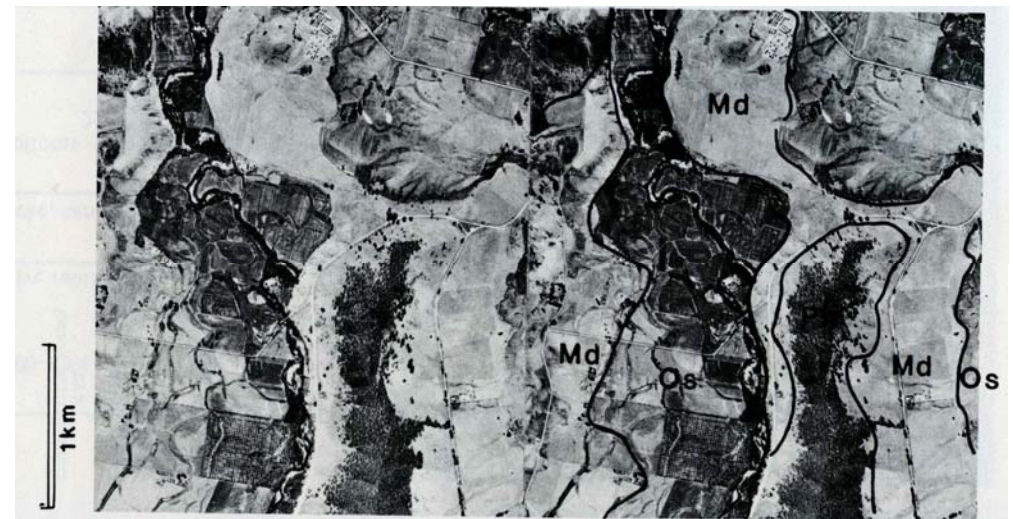
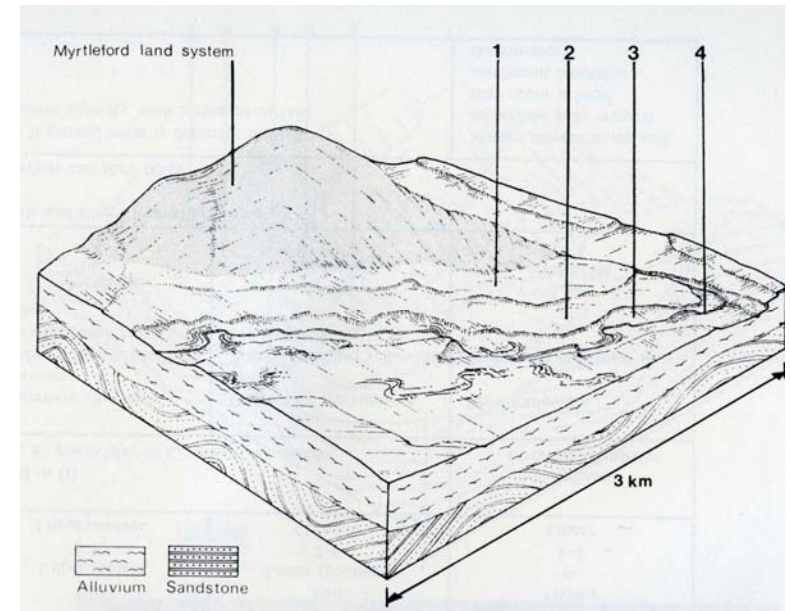
## 7.18 Ovens land system

This land system occupies the central valley alluvium of the main streams. The predominant rocks of the respective catchments influence the texture and mineralogy of the alluvium, which is the parent material of the soils. The stream floodplain makes up most of the landscape, with abandoned meander channels common the larger streams. Several terraces, vertically separated by a meter or two, are also usually present, but none is extensive and they are often fragmentary. Annual rainfall ranges from moderate in the north to high in the south. Summers are hot in the north and warm in the south, and winters are generally cold, with frosts occurring from mid autumn to late spring.

Soils range from undifferentiated sand and loam soils at the lowest levels adjoining the stream channels, through brown and grey loam soils over most of the flood-plain, to yellowish brown and reddish brown gradational soils on the alluvium of the relatively higher terraces.

The vegetation was originally woodland of *Eucalyptus camaldulensis*, with occasional occurrences of *E. goniocalyx* and *E. melliodora* in the northern areas and *E. viminalis* in the cooler south. The west depressions of the floodplain usually have fenland of *Phragmites communis*.

Winter and spring floods may erode bare soil or deposit sediments, and severe frosts restrict the growing season.



**OVENS LAND SYSTEM** Area 217 sq km

<b>CLIMATE</b> Rainfall, mean (mm) Temperature, mean (°C) Seasonal growth limitations	Annual 750-1250; lowest January (45-55), highest June (115-160) Annual 14; lowest July (6-8), highest January (18-21) Temperature – less than 10°C (av): lowest areas May-August, highest areas May-September Precipitation – months less than 50% frequency of effective rain: January-February			
<b>GEOLOGY</b> Age, lithology	Recent alluvium – sand, silt, clay, gravel			
<b>PHYSIOGRAPHY</b> Landscape Elevation range (m) Relative relief (m)	Riverine flood plain and low terraces 200-300 8			
<b>LAND COMPONENT</b> Percentage of land system	1 15	2 35	3 45	4 5
<b>PHYSIOGRAPHY</b> Land form Position on land form Slope range (%) Slope shape	Terrace Upper 1-8 Irregular-linear	Terrace Lower 1-8 Irregular-linear	Flood plain - 1-8 Irregular-linear	Stream trench - 2-5 Concave
<b>NATIVE VEGETATION</b> Structure Dominant species	Woodland <i>E. camaldulensis</i> ; occasionally <i>E. bridgesiana</i> and <i>E. melliodora</i>			
<b>SOIL</b> Parent material Description Surface texture Permeability Depth (m)	Alluvium Reddish brown gradational soils on alluvium Sandy loam High 1.5	Alluvium Yellowish brown gradational soils on alluvium Sandy loam Moderate 1.5	Alluvium Brown and grey loam soils Loam High 1.5	Alluvium Undifferentiated sand and loam soils Sand High 1.0
<b>LAND USE</b>	Mostly cleared; grazing of beef and dairy cattle; intensive cultivation of tobacco, hops and maize			
<b>SOIL DETERIORATION HAZARD</b> Critical land features, processes, forms	Rare flooding; sheet erosion if surface run-off occurs when soils are cultivated	Occasional flooding; sheet erosion if surface run-off occurs when soils are cultivated	Regular annual flooding; sheet erosion if surface run-off occurs when soils are cultivated	Regular annual flooding; stream-bank erosion