

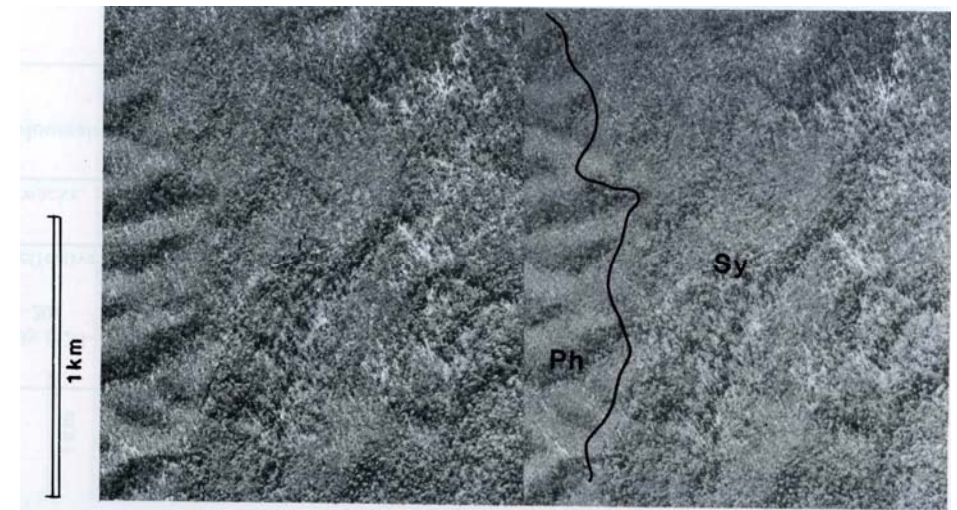
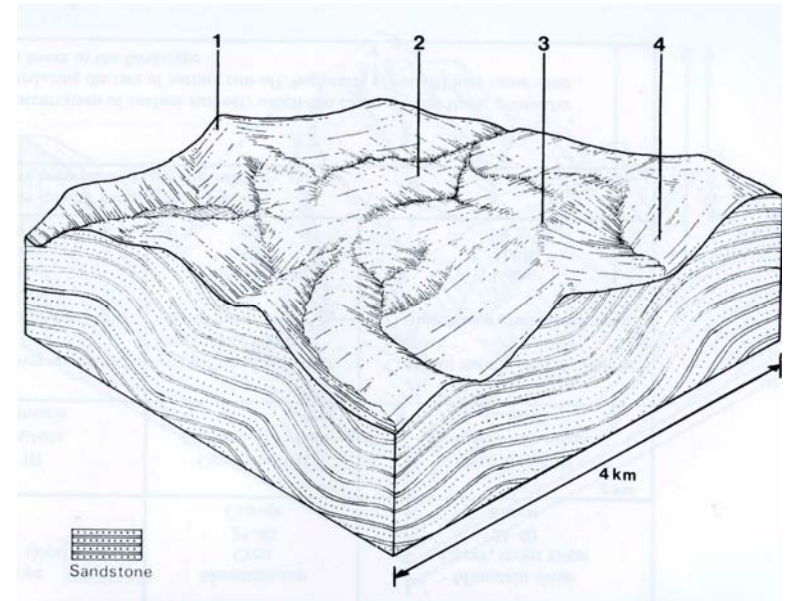
7.21 Stanley land system

A southerly extension of the Stanley land system (Rowe 1972) from the Kiewa catchment indicates a small plateau on the central eastern watershed near Simmonds Gap. The landscape is a rolling to low hilly plateau on Ordovician sedimentary rocks. Annual rainfall is high. Mild dry summers contrast with cold wet winters; frosts occur from mid autumn to late spring in low areas, and occasional light falls of snow occur in some winters.

Reddish brown gradational soils with rough ped fabric predominate, but some areas of low relief have reddish brown gradational soils with smooth ped fabric. Friable brown gradational soils occur on the steeper slopes of the valleys.

Open forest of *Eucalyptus radiata*, *E. rubida* and *E. dives* is the characteristic vegetation. *E. st-johnii* and *E. viminalis* also occur in moister areas. A small area of open forest of *E. delegatensis* occurs in the Simmonds Gap area.

Compaction of the soils on access tracks leads to surface run-off and relatively minor erosion. Sheet erosion and rilling may also occur in areas of intensive cultivation. Generally, however, the soils are permeable and relatively stable.



STANLEY LAND SYSTEM Area 21 sq km

CLIMATE Rainfall, mean (mm) Temperature, mean (°C) Seasonal growth limitations	Annual 1000-1250; lowest January (45), highest June (19) Annual 13; lowest July (6.5), highest January (20) Temperature – less than 10°C (av): lowest rates June-August, highest areas June-September Precipitation – months less than 50% frequency of effective rain: January-February			
GEOLOGY Age, lithology	Ordovician greywacke, sandstone, siltstone, shale, mudstone			
PHYSIOGRAPHY Landscape Elevation range (m) Relative relief (m)	Rolling to hilly plateau 750-900 80			
LAND COMPONENT Percentage of land system	1 15	2 40	3 10	4 35
PHYSIOGRAPHY Land form Position on land form Slope range (%) Slope shape	Steep hill - 15-25 Linear-convex	Dissected plateau - 5-10 Linear	Low hill - 10-15 Convex	Shallow valley - 8-15 Concave
NATIVE VEGETATION Structure Dominant species	Open forest II <i>E. dives</i> , <i>E. rubida</i> , <i>E. macrorhyncha</i>	Open forest III <i>E. radiata</i> , <i>E. rubida</i> , <i>E. dives</i> , <i>E. st-johnii</i>	Open forest III <i>E. radiata</i> , <i>E. rubida</i> , <i>E. dives</i> , <i>E. st-johnii</i>	Open forest III <i>E. radiata</i> , <i>E. viminalis</i> , <i>E. st-johnii</i>
SOIL Parent material Description Surface texture Permeability Depth (m)	Colluvial mantle over weathered bedrock Friable brown gradational soils Gravelly loam High 1.0	Alluvial-colluvial mantle Reddish brown gradational soils with rough ped fabric Loam High 2.0	Colluvial mantle over weathered bedrock Reddish brown gradational soils with rough ped fabric Loam High 2.0	Colluvial mantle over bedrock Weakly bleached reddish brown gradational soils Loam High 1.5
LAND USE	Uncleared timber; limited timber production	Mostly cleared; apple orchards, potato-cropping, grazing; plantations of <i>Pinus radiata</i>		
SOIL DETERIORATION HAZARD Critical land features, processes, forms	Compaction of intensive-use areas such as access tracks results in excessive surface run-off – track erosion: Intensive cultivation results in loss of infiltration capacity, increased surface run-off; sheet erosion, frosts may damage horticultural crops			