

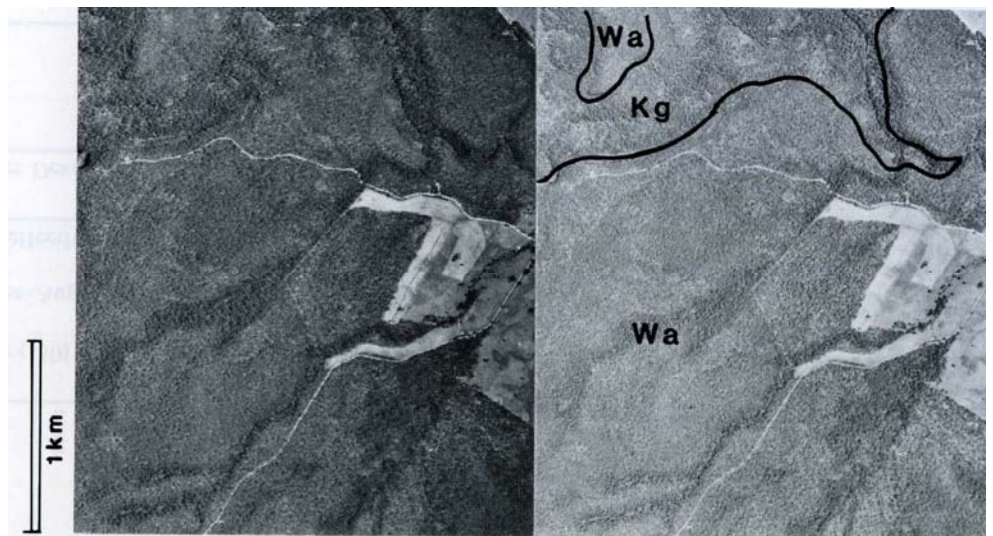
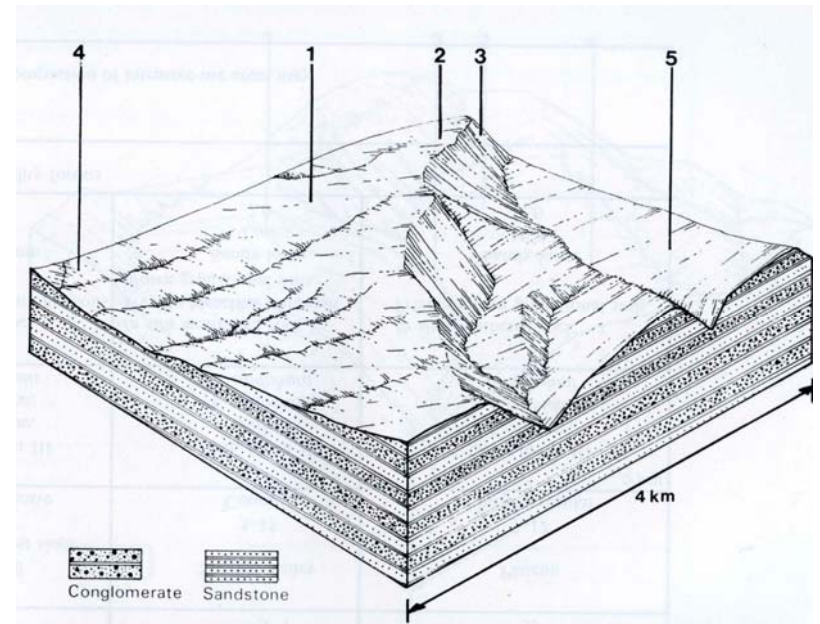
7.23 Wabonga land system

The Wabonga land system consists of several areas in the south-west of the study area. The typical landscape is gently sloping plateaux but often is limited to broad divides or small undulating plateaux and is entirely on the Lower Carboniferous sedimentary rocks. Annual rainfall, although moderate in the north, increases to high in the south. Summers are hot and dry in the north but milder in the south, and winters are generally cold and wet. Light snow may fall occasionally on the higher areas during winter.

The soils are predominantly friable brown gradational soils; the textures vary with the texture of the parent rock.

Native vegetation ranges from open forest of *Eucalyptus dives* and *E. rubida* on the drier, coarser-textured soils in the north to open forest of *E. radiata* and *E. rubida* with occasionally *E. dives*, *E. st-johnii* and small stands of *E. obliqua* on moister sites.

Soils on the coarse parent materials may have relatively low fertility and in some situations where flat-bedded rock is close to the surface may be very wet in winter. These soils are also more erodible than those on the finer-grained parent materials. Erosion of tracks is common in such areas.



WABONGA LAND SYSTEM Area 159 sq km

CLIMATE Rainfall, mean (mm) Temperature, mean (°C) Seasonal growth limitations	Annual 1000-1250; lowest January (45), highest June (150) Annual 12; lowest July (6), highest January (19) Temperature – less than 10°C (av): lower areas June-August, higher areas May-September Precipitation – months less than 50% frequency of effective rain. January-February				
GEOLOGY Age, lithology	Lower Carboniferous conglomerate, sandstone, siltstone, shale				
PHYSIOGRAPHY Landscape Elevation range (m) Relative relief (m)	Dissected plateau with gently dipping cuesta-form ridges 450-1150 10-250				
LAND COMPONENT Percentage of land system	1 30	2 10	3 10	4 5	5 45
PHYSIOGRAPHY Land form Position on land form Slope range (%) Slope shape	Gently dipping cuesta-form ridge Dip slope between about 800-1100m 8-15 Linear	Gently dipping cuesta-form ridge Dip slope above about 1100m 8-15 Linear	Gently dipping cuesta-form ridge Scarp slope 30-50 Linear	Shallow valley - 5-12 Concave	Gently dipping cuesta-form ridge Dip slow below about 800m 8-15 Linear
NATIVE VEGETATION Structure Dominant species	Open forest III <i>E. radiata, E. dives, E. rubida</i>	Open forest IV <i>E. delegatensis</i>	Open forest II <i>E. dives, E. rubida</i>	Open forest III <i>E. radiata, E. camphora, E. st-johnii</i>	Open forest II <i>E. dives, E. rubida</i>
SOIL Parent material Description Surface texture Permeability Depth (m)	<i>In situ</i> weathered rock Friable brown gradational soils Loam High 2.0	<i>In situ</i> weathered rock Friable brown gradational soils Loam High 2.0	Colluvial mantle over bedrock Stony loam soils Gravelly loam High 0.5	Alluvial-colluvial mantle Weakly bleached yellowish brown gradational soils Sandy loam Low 1.5	<i>In situ</i> weathered rock Friable brown gradational soils Sandy loam High 1.5
LAND USE	Mostly uncleared; timber production from better-quality forests; forest grazing Cleared area; grazing, beef cattle and sheep				
SOIL DETERIORATION HAZARD Critical land features, processes, forms	Intensive-use areas become compacted and surface run-off is increased; track erosion is more pronounced on coarse-textured soils; Shallow soils with low fertility and low available water capacity Poor drainage; may become gully-eroded Lower soil fertility and lower available water capacity				