

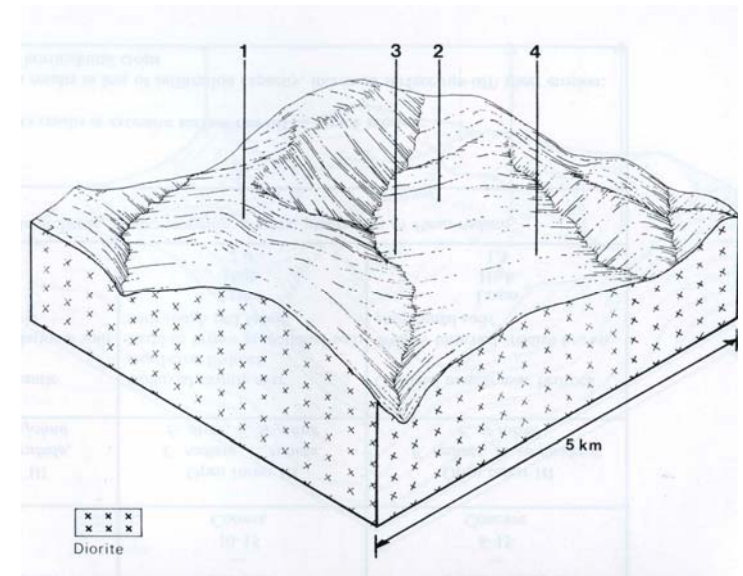
7.22 Toombullup land system

This land system occurs along the western edge of the study area and on the headwater divides of the Fifteen Mile, Middle and Boggy Creeks and the King River West Branch. The landscape is an undulating to low hilly plateau, bounded by the steep slopes of the Drum Top or King land systems. The rocks are Upper Devonian rhyolite and rhyodacite. Annual rainfall is high. Summers are warm and dry and winters are cold and wet.

The soils are mainly friable brown gradational soils, with occasional deeply weathered reddish brown gradational soils with rough ped fabric in drier areas.

Over most of the land system the native vegetation is open forest of *Eucalyptus radiata* and *E. rubida* with some *E. st-johnii* and *E. viminalis*, and occasional stands of *E. obliqua*, *E. camphora* occurs in areas of impeded drainage.

The better-quality forests have been logged for sawn timber. Some small areas have been cleared for pastures, but usually only where the basaltic Mahaakah land system adjoins. The soils are generally stable and permeable. The cold winters would restrict the growing season for agricultural production.



TOOMBULLUP LAND SYSTEM Area 43 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): lowest areas June-August, highest areas May-September Precipitation – months less than 50% frequency of effective rain: January-February			
GEOLOGY Age, lithology	Upper Devonian rhyolite and rhyodacite			
PHYSIOGRAPHY Landscape Elevation range (m) Relative relief (m)	Low hilly plateau 650-900 80			
LAND COMPONENT Percentage of land system	1 40	2 20	3 5	4 35
PHYSIOGRAPHY Land form Position on land form Slope range (%) Slope shape	Low hill Exposed, dry slope 8-20 Convex	Low hill Sheltered, moist slope 8-15 Linear-concave	Shallow valley - 5-15 Concave	Plateau - 5-12 Linear-irregular
NATIVE VEGETATION Structure Dominant species	Open forest III <i>E. radiata, E. rubida, E. dives</i>	Open forest III <i>E. obliqua, E. radiata, E. viminalis</i>	Open forest III <i>E. radiata, E. st-johnii, E. camphora</i>	Open forest III <i>E. radiata, E. rubida, E. st-johnii</i>
SOIL Parent material Description Surface texture Permeability Depth (m)	<i>In situ</i> weathered rock Reddish brown gradational sols with rough ped fabric Sandy loam High 1.5	<i>In situ</i> weathered rock Friable brown gradational soils Sandy loam High 2.0	<i>In situ</i> weathered rock Weakly bleached yellowish brown gradational soils Sandy loam Low 2.0	<i>In situ</i> weathered rock Friable brown gradational soils Sandy loam High 2.0
LAND USE	Mostly uncleared; timber production from better-quality forests Cleared areas; grazing			
SOIL DETERIORATION HAZARD Critical land features, processes, forms	Cold winters would restrict agricultural production; compaction of intensive-use areas may lead to increased surface run-off and erosion			