

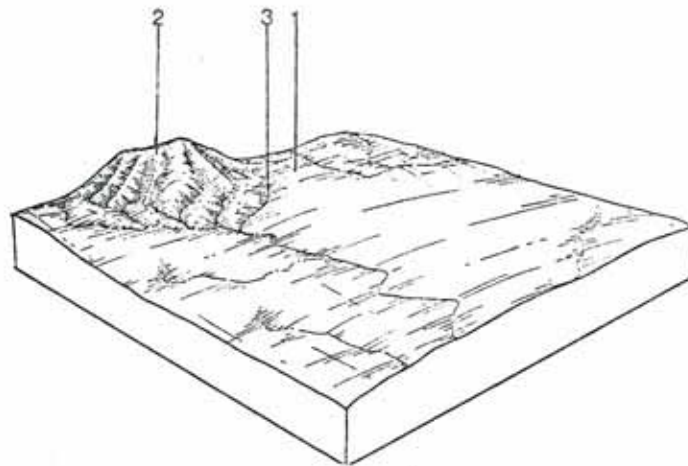
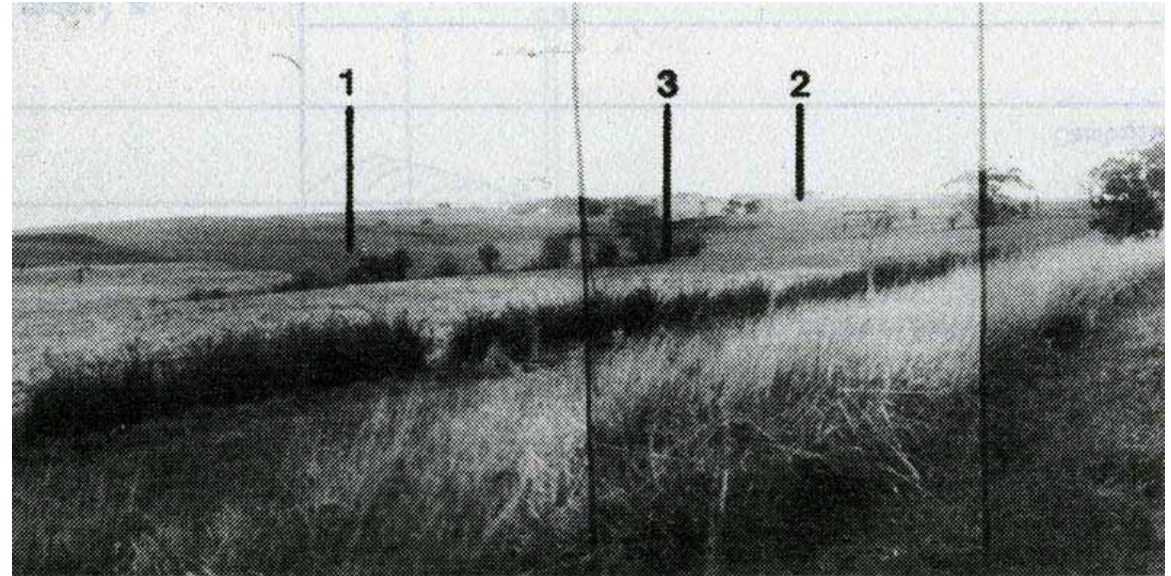
6.21 Pretty Sally Land System

This land system is situated on the Great Dividing Range, north of Wallan. It covers 19 km² representing 0.7% of the total survey area.

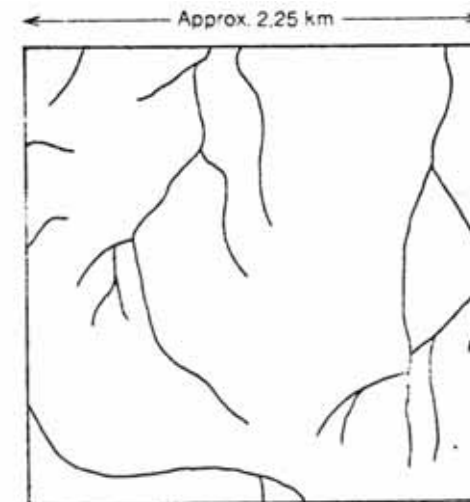
The landscape is composed of undulating plains and there is one volcanic cone. The soil of the plains is a red duplex soil with a light textured apedal A horizon overlying a friable, mottled reddish B horizon. The depressions usually contain a mottled, brown gradational soil. The mottling of these soils indicates *that* they are older than other soils developed on basalt, regarded as being of the same age.

In places, the basalt has completely weathered and eroded away, exposing the underlying Silurian rock on *which* a yellow-brown duplex soil has developed.

Only a small amount of natural vegetation remains.



Schematic Block Diagram



Drainage Pattern

COMPONENT	1	2	3
Proportion %	80	10	10
CLIMATE Rainfall (av.) Temperature (av.) Seasonal growth limitations	Annual: 620 – 750 mm (monthly range: 37 mm – July 84 mm) Annual: 12°C (monthly range: 17°C – July 6°C) Temperature: less than 10°C May - September Precipitation less than potential evapotranspiration November – March		
GEOLOGY Age, rock	Pleistocene basalt		
TOPOGRAPHY Landscape Elevation (range) m Local relief (av.) m Drainage pattern Drainage density km/km ² Land form Slope (av.) %, slope shape	Undulating plains with volcanic cones 300-520 20 Dendritic 2.6 Plain 3; Convex		
		Volcanic cone 27; Convex	Drainage line 2; Concave
NATIVE VEGETATION Structure Dominant species	Open forest <i>E. radiata, E. viminalis, E. obliqua, Acacia melanoxylon</i>		
SOIL Parent Material Description	In situ weathered rock		
	Mottled red sodic duplex soils, fine structure	Shallow red gradational soils	Dark brown gradational soils
Factual Key	Dy 3.31	Gn 4.11	Gn
Surface Texture	Loam – Clay loam	Clay loam	Loam – Clay loam
Permeability	High	High	Moderate
Depth (av.) m	1.5	0.8	1.5
LAND USE	Cropping (cereal)	Grazing	
SOIL DETERIORATION HAZARD Critical land features	Hard setting surfaces slope gradient	Slope gradient	High watertable, dispersibility, hard setting surfaces
Processes	Overland flow, leaching	Overland flow, leaching	Overland flow, subsurface flow, periodic waterlogging
Forms	Sheet erosion nutrient decline	Rill and sheet erosion, nutrient decline	Gully erosion