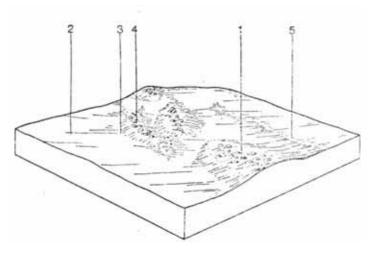
6.28 Wollert Land System

This covers 182.9 km^2 or 7.2% of the study area.

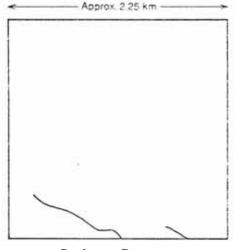
The stony rises are the distinctive feature of this land system being the only land system in which they occur. On the crests, these rises have shallow stony red-brown gradational soils which grade into a grey calcareous clay where the soil is deep enough. Black clay soils occur on the apron of the rises and yellow-brown calcareous sodic duplex soils on the plains.



The gradational soils are fertile but, being too shallow and stony for cultivation, are mostly left timbered. The flatter areas are cultivated but waterlogging reduces their usefulness.



Schematic Block Diagram



Drainage Pattern

COMPONENT	1	2	3	4	5
Proportion %	30	8	50	2	10
CLIMATE Rainfall (av.) Temperature (av.) Seasonal growth limitations	Annual: 630-710 mm (monthly range: October 70 mm – January 45 mm) Annual: 14ºC (monthly range: January 20ºC – July 9ºC) Temperature: less than 10ºC July 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	Undulating plains with stony rises 120-180 20 Dendritic 0.2				
Land form Slope (av.) %, slope shape	Broad crest of stony rise 9; Convex	Gilgai plain 2; Straight	Narrow crest of stony rise 9; Convex	Apron of stony rise 3; Concave	Drainage line 2; Concave
NATIVE VEGETATION Structure Dominant species	Open woodland <i>E. camaldulensis</i>				
SOIL Parent Material Description	Shallow stony dark brown clay soils, uniform texture	Yellow-brown calcareous sodic duplex soils, coarse structure. Mottled yellow, grey sodic duplex soils, coarse structure	In situ weathered rock Shallow stony red gradational soils	Black clay soils, uniform texture, coarse structure	Black clay soils, uniform texture, coarse structure
Factual Key Surface Texture Permeability Depth (av.) m	Ug 5 Clay Low 0.5	Dd 1.12, Db 2.32 Clay loam Low 1.5	Gn 3.11 Loam – Clay loam High 0.3	Ug 5.12 Clay Low 0.8	Ug 5.12 Clay Low 1.0
LAND USE	Grazing occasional cropping (cereal)				
SOIL DETERIORATION HAZARD Critical land features	Slope gradient	Slowly permeable subsoils, hard setting surfaces	Slope gradient	Slope gradient, slowly permeable subsoils	High watertable
Processes	Overland flow, leaching	Overland flow, periodic waterlogging	Overland flow, leaching	Overland flow	Periodic waterlogging, overland flow
Forms	Sheet erosion, nutrient decline	Surface compaction, sheet erosion	Sheet erosion, nutrient decline	Surface compaction, sheet erosion	Surface compaction