

LAND SYSTEM
Orielton Flats

2 2 4 1 2 2

Area (ha):
2 9 8 2

COMPONENT	A	B	C
PROPORTION(%)	30	50	20
RAINFALL(mm)	Approximate Annual Rainfall: 500-625		
GEOLOGY	Tertiary - Quaternary Clays, Gravels		
TOPOGRAPHY	Undulating Plains		
Position	Drainage Flats	Well Drained Flats	River Terraces
Typical Slope(o)	0	0	0
NATIVE VEGETATION			
Structure		Woodland	
Floristic Association (See Appendix 1 for common names)	<i>Eucalyptus viminalis</i>	<i>Eucalyptus viminalis</i>	<i>Eucalyptus viminalis</i>
	<i>Acacia mearnsii</i>	<i>Casuarina stricta</i>	<i>Pomaderris apetala</i>
			<i>Acacia verticillata</i>
			<i>Exocarpos cupressiformis</i>
			<i>Casuarina stricta</i>
			<i>Acacia melanoxylon</i>
			<i>Dodonaea viscosa</i>
		<i>Leptospermum lanigerum</i>	
		<i>Acacia dealbata</i>	
SOIL			
Surface(A)Texture	Light Clay	Clay Loam	Self Mulching Light Clay
B Horizon(subsoil)C colour (moist) Texture and primary profile form	Deep heavy clay - Dark greyish brown (10 YR 4/2) to greyish brown (10 YR 5/2) with yellowish brown (10 YR 5/6) mottle. Gradational.	Deep heavy clay - Dark greyish brown (10 YR 4/2) to brown (10 YR 5/3) With yellowish brown (10 YR 5/6) mottle. Duplex.	Deep heavy clay - Very dark greyish brown (10 YR 3/2). Gradational.
Permeability	Low	Low/Moderate	Low
Typical depth(m)	>1. 40	>1.40	>1. 40
LAND USE	Grazing, Cropping		
HAZARDS	Waterlogging, Flooding	Moderate Gully Erosion	

284122

ORIELTON FLATS

This area of alluvial flats is located around the Orielson Rivulet near Penna.

Drainage flats have a deep (>1.40 m) uniform soil with a light clay surface over a dark greyish brown to greyish brown heavy clay with a yellowish brown mottle. This supports a woodland dominated by *Eucalyptus viminalis* and *Acacia mearnsii*.

Well drained flats have a deep (>1.40 m) duplex soil with a clay loam surface over a dark greyish brown to brown heavy clay with a yellowish brown mottle. A woodland dominated by *Eucalyptus viminalis* and *Casuarina stricta* is found in these areas.

River terraces have a deep (>1.40 m) gradational soil with a self mulching light clay surface over a very dark greyish brown heavy clay. This supports a woodland dominated by *Eucalyptus viminalis* over an understorey of *Pomaderris apetala*, *Acacia verticillata*, *Exocarpos cupressiformis*, *Casuarina stricta*, *Acacia melanoxylon*, *Dodonaea viscosa*, *Leptospermum lanigerum* and *Acacia dealbata*.

The region has been extensively cleared for grazing and cropping. Gully erosion is a problem on the river terraces and flats whilst waterlogging and flooding occur on the drainage flats.



Undulating plains in the Orielson Flats (284122) Land System with the Stony Hills (272141) Land System behind.