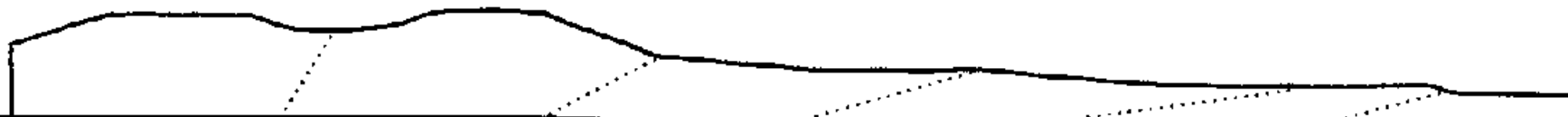


LAND SYSTEM
Huntingdon Tier

77at41

Area (ha):
21599



COMPONENT	A	B	C	D	E	F
PROPORTION (%)	20	20	20	20	10	10
RAINFALL (m)	Approximate Annual Rainfall: 500-625					
GEOLOGY	Triassic Interbedded Sequences of Sandstone, Siltstone, Mudstone					
TOPOGRAPHY	Rolling Hills					
Position	Mudstone Crests/Slopes	Sandstone Crests/Slopes	Lower Slopes	Lower Slopes	Flats	Drainage Flats
Typical Slope(o)	20	20	10	20	5	2
NATIVE VEGETATION						
Structure	(Low) Woodland	Low Woodland		Woodland		
	<i>Eucalyptus viminalis</i>	<i>Eucalyptus amygdalina</i>	<i>Eucalyptus viminalis</i>	<i>Eucalyptus viminalis</i>	<i>Eucalyptus viminalis</i>	<i>Eucalyptus viminalis</i>
	<i>Eucalyptus amygdalina</i>	<i>Lissanthe strigosa</i>	<i>Eucalyptus pauciflora</i>	<i>Acacia dealbata</i>		<i>Eucalyptus ovata</i>
	<i>Eucalyptus tenuiramis</i>	<i>Acacia dealbata</i>	<i>Lomandra longifolia</i>	<i>Exocarpos cupressiformis</i>		<i>Acacia melanoxylon</i>
	<i>Acacia dealbata</i>	<i>Casuarina stricta</i>	<i>Poa sp.</i>			<i>Acacia dealbata</i>
	<i>Lomandra longifolia</i>	<i>Bursaria spinosa</i>	<i>Acacia melanoxylon</i>			
	<i>Poa sp.</i>					
	<i>Stipa sp.</i>					
	<i>Exocarpos cupressiformis</i>					
SOIL						
Surface(A)Texture	Fine Sandy Loam	Sandy Loam Sandy Clay Loam	Clay Loam/Sand	(Loamy) Sand	Fine Sandy loam	Cracking Light Clay
B Horizon(subsoil) Colour (moist)	Extremely shallow (stony) fine sandy loam - Brown/	Shallow (stony) medium clay-light yellowish brown (10 YR	Deep medium clay - dark yellowish brown (10 YR	Deep sand - brown/dark brown (7.5 YR 4/4) to	Deep heavy clay - Black (10 YR 2/1) to very dark	Deep heavy clay - Black (10 YR 2/1) to light yellowish brown (10 YR
Texture and primary profile form	dark brown (10 YR 4/3) on bedrock. Uniform.	6/4) on bedrock. Duplex.	4/4) to light olive brown (2.5 Y 5/4) with brownish yellow (10 YR 6/8) mottle. Duplex.	yellowish brown (10 YR 5/4). Uniform.	grey (10 YR 3/1). Duplexl;	6/4) with very dark greyish brown (10 YR 4/2) mottle. Gradational.
Permeability	High	High/Moderate	Moderate	High	Moderate	Low
Typical depth(m)	0.20	0.55	>1.40	>1.40	>1.40	>1.40
LAND USE	Grazing, Cropping, Sandmining					
HAZARDS	High Sheet, Rill, Gully, Tunnel, streambank Erosion					Flooding, Waterlogging

278141

HUNTINGDON TIER

This land system includes country near Melton Mowbray and an area south-west of Kempton. The geology is dominated by interbedded sequences of Triassic mudstone, siltstone and sandstone (Upper Parmeener Supergroup).

Mudstone crests and upper slopes contain an extremely shallow (0.20 m) brown to dark brown, uniform, stony, fine sandy loam developed on bedrock. This supports a woodland/low woodland of *Eucalyptus viminalis*, *Eucalyptus amygdalina* and *Eucalyptus tenuiramis* over a sparse understorey of *Acacia dealbata*, *Lomandra longifolia*, *Poa sp.*, *Stipa sp* and *Exocarpos cupressiformis*.

Sandstone crests and upper slopes have shallow (0.55-m) stony, duplex soil with a sandy clay loam to loamy sand surface over a light yellowish brown medium clay. This supports a low woodland dominated by *Eucalyptus amygdalina* over an understorey of *Lissanthe strigosa*, *Acacia dealbata*, *Casuarina stricta* and *Bursaria spinosa*.

Lower slopes are commonly covered by a deep duplex soil which has a clay loam or sand surface over a light olive brown clay with a brownish yellow mottle. This supports a woodland dominated by *Eucalyptus viminalis* and *Eucalyptus pauciflora* over an understorey of *Lomandra longifolia*, *Poa sp* and *Acacia melanoxylon*. Lower slopes may also have a deep (>1.40 m) uniform sand that supports a woodland of *Eucalyptus viminalis* over an understorey of *Acacia dealbata*, *Exocarpos cupressiformis*, *Pteridium esculentum* and *Stipa sp*.

Flats contain a deep duplex soil consisting of a fine sandy loam surface over a black to very dark grey heavy clay. Drainage lines contain a deep (>1.40 m) gradational soil consisting of a light clay surface over a black to light yellowish brown heavy clay with a very dark greyish brown mottle. This supports a woodland dominated by *Eucalyptus ovata* and *Eucalyptus viminalis*, over an understorey of *Acacia melanoxylon* and *Acacia dealbata*.

The land is mainly utilised for grazing and cropping although sandmining occurs in localised areas where deep uniform sands are found. The country is particularly prone to erosion. Examples of sheet and rill erosion are common on the crests and slopes whilst gully, tunnel and streambank erosion occur on the lower slopes and flats. Drainage lines often have flooding and waterlogging problems.

The soils in this area have been described and mapped as "brown soils on micaceous sandstone", "podzolic soils and Podzols on sandstone", by Cowie (1959) and Dimmock (1957a).

The land system is closely related to the Ashton Hills (278131) Land System and the Heathy Hills (273141) Land System.



Streambank erosion beside the Cockatoo Gully Road in the
Huntingdon Tier (278142) Land System.



Gully erosion beside the Muddy Plains Road near Melton Mowbray.