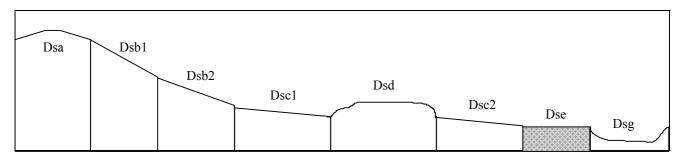
Land Unit:	Devonian sediments, gentle	Land Unit symbol:	Dse
	slopes	% of study area:	9.5



General Description:

This land unit occurs on the lower slopes of the Devonian sediments, however there are areas of < 3% slope, which are too small to map, that have wetter profiles than the one described below (Site 78). Distinct mottling is common in the subsoil and Ksat values can be as low as 10 mm per day. Surface runoff is high from these areas but can be minimised by maintaining a dense pasture sward which improves soil structure and prevents the topsoil compacting. Site 136 represents a transition zone between Dsc2 and Dse.

Site Characteristics: Site No. 78 and 136

Parent material		Depth to seasonal		
Age:	Devonian	watertable:	> 2 m	
Lithology:	Sandstones and siltstones	Potential recharge		
Landform		to groundwater:	Low	
Pattern:	Undulating rises	Flooding risk:	Nil	
Element:	Lower slope	Drainage:	Imperfectly drained	
Slope		Depth to hardrock:	1.2 m	
Common:	5%	Rock outcrop:	0%	
Range:	3 - 10%	Annual rainfall:	940 mm	
Native vegetation:	tion: Broad-leaf and Narrow-leaf Peppermint, Blackwood, Silver Wattle, Candlebark Gum			
Present land use:	Cleared; native and improved pastures for the grazing of sheep and cattle			

Land degradation:

Degradation	Water erosion		Wind erosion	Salting	Acidification	
process	Sheet/rill	Gully	Willia Crosion	Saiting	Acidification	
Susceptibility	Moderate	Moderate	Low	Low	High	
Incidence	Low	Low	Nil	Nil	Moderate	

Soil profile characteristics:

Permeability	(measured - average, range): (estimated):	50 (30 - 80) mm/day -
Available water capacity:		170 mm H ₂ O
Linear Shrinkage (B horizon):		15%

Soil profile description:

Land Unit symbol: Dse

A1 0 - 6 cm Brown (7.5YR5/4) loam fine sandy, weak subangular blocky structure, peds 5 mm, rough fabric, moderately weak consistence - slightly moist, high organic matter, pH 4.8. Clear transition to:

A2e 6 - 25 cm Dark yellowish brown (10YR4/6) fine sandy loam, conspicuously bleached (10YR7/4 - dry), apedal massive (structure), moderately weak consistence - dry, very few angular sandstone gravel

fragments, moderate organic matter pH 5.3. Clear boundary to

B21t25 - 70 cm Yellowish brown (10YR5/8) medium clay, few fine faint red mottles, strong subangular blocky

structure, peds 20 mm, smooth fabric, very firm consistence - slightly moist, pH 5.5. Gradual transition to:

B22 70 - 95 cm Light yellowish brown (10YR6/4) medium clay, many coarse distinct red mottles, strong angular

blocky structure, peds 40 mm, smooth fabric, very firm consistence - slightly moist, pH 5.4.

Gradual transition to:

B23 95 - 120 cm Light brownish grey (2.5YR6/2) medium clay, many prominent medium size mottles, strong

angular blocky structure, peds 20 mm, smooth fabric, moderately firm consistence - slightly moist,

pH 5.2.

Soil classification:

Factual Key (Northcote, 1979): Dy 2.41 - 3/1/025

Australian Soil Classification (Isbell, 1992): Bleached - Mottled, Magnesic, Brown, Chromosol; thin,

non-gravelly, loamy/clayey, deep

Unified Soil Group: MH/ML

Interpretation of soil analyses: (see Appendix 2 for analytical results)

Horizon	pН	Gravel %	E.C. (salts)	Nutrient status	P	K	Al	Organic matter	Dispersibility
A1	4.8 **	2	VL	L	S	S	T	Н	L
A2e	5.3 **	2	VL	VL	D	S	T	M	L
B21t	5.5	1	VL	VL	D	M	T	L	L
B22	5.4 **	1	VL	L	D	D	T	VL	L
B23	5.2 **	4	VL	L	D	D	T	VL	L

VL: Very Low L: Low M: Moderate H: High VH: Very High D: Deficient S: Satisfactory T: Toxic NA: Not Available ** Acidic

Land capability ratings and limitations for specific land uses:

Land use	Rating	Major limiting factor(s)				
Agriculture	C ₃ T ₃ S ₄	Low permeability: rainfall index				
Building foundations - slab - stumps/footings	4 4	Imperfect drainage Imperfect drainage				
Effluent disposal (septic tanks)	4	Imperfect drainage, low permeability				
Farm dams	4	Low suitability of subsoil, shallow soils, high dispersibility of subsoil				
Residential - rural	4	Low capability for effluent disposal, secondary roads and farm dams				
- urban	4	Low capability for secondary roads				
Scenic value	3,4 & 5	Low Scenic Quality, distance from public thoroughfares				
Secondary roads	4	Imperfect drainage				