DEEP SAND

General Description: Deep siliceous sand with fine carbonate distributed throughout

Landform:	Gently undulatin sandhills.	g plain with
Substrate:	Windblown Mol Sand.	ineaux
Vegetation:		
Type Site:	Site No.:	CY027
	1:50,000 sheet: Annual rainfall: Landform: Surface:	6430-1 (Broughton)Hundred:Tickera340 mmSampling date:20/07/94Dune crest, 2% slopeLoose with no stones
Soil Description	n:	
Depth (cm)	Description	
0-6	Brown loose hig Abrupt to:	nly calcareous loamy sand.
6-20	Strong brown so Gradual to:	ft very highly calcareous sand.
20-70	Strong brown so Diffuse to:	ft very highly calcareous sand.
70-150	Reddish yellow	oft very highly calcareous sand.

Classification: Ceteric, Regolithic, Calcic Calcarosol; thin, non-gravelly, sandy / sandy, very deep

Summary of Properties

Drainage	Rapidly drained. Soil never remains wet for more than a few hours.							
Fertility	Inherent fertility is low as indicated by the exchangeable cation data. Surface fertility relies on organic matter and phosphorus, concentrations of which are both low. The soil's capacity to retain nutrients is low, due to its low clay content. Sulphur concentrations are low, and trace element deficiencies can be expected.							
рН	Alkaline throughout.							
Rooting depth	Approximately 70 cm in pit, but few roots below 6 cm							
Barriers to root growth								
Physical	T here are no physical barriers.							
Chemical	There are no chemical barriers. Low nutrient status is the most likely reason for poor root densities.							
Water holding capacity	Approximately 60 mm in rootzone, but up to 40 mm is effectively unavailable due to low root densities in the subsoil.							
Seedling emergence	Very good except in seasons when water repellence is a problem.							
Workability	Loose surface is easily worked.							
Erosion Potential								
Water								
vv ater	Low.							

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	5	EC1:5 dS/m	ECe dS/m	Org.C %	Avail. P		SO4-S mg/kg		Trace Elements mg/kg (DTPA)				CEC cmol	Exchangeable Cations cmol(+)/kg				ESP
							mg/kg	mg/kg			Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	К	
Paddock	8.6	7.8	2.9	0.1	0.4	0.5	16	143	3.0	0.9	-	-	-	-	3.1	4.49	0.66	0.05	0.42-	1.6
0-6	8.6	7.7	1.6	0.1	0.4	0.7	18	173	2.6	0.8	-	-	-	-	3.9	4.48	0.70	0.04	0.60	1.0
6-20	8.8	7.8	7.1	0.1	0.4	0.1	3	122	1.7	0.6	-	-	-	-	3.4	4.69	0.83	0.05	0.45	1.5
20-70	8.9	7.8	7.6	0.1	0.4	0.1	2	70	1.6	0.6	-	-	-	-	2.5	3.43	1.13	0.04	0.21	na
70-150	9.1	8.0	3.1	0.1	0.3	0.2	2	99	1.2	1.0	-	-	-	-	2.3	1.27	2.32	0.05	0.26	na

Note: Paddock sample bulked from 20 cores (0-10 cm) taken around the pit.

CEC (cation exchange capacity) is a measure of the soil's capacity to store and release major nutrient elements.

ESP (exchangeable sodium percentage) is derived by dividing the exchangeable sodium value by the CEC