SITE NA	ME	PROFILE	NO	SLOPE	AND A	SPECT	LAND USE		Av Raınfal	1	1018	mm.	PARENT MATERIAL			
Churston Ferrers		Pit 1	Pit 1		0°		Cereal		ATO		1548°		Middle Devonian Limestone			
JOB NO DA		DATE	DATE GRID F		REFERENCE		DESCRIBED BY		EC Dove		209		TOPSOIL SAMPLE			
9/94	9/94		2/3/94		(ASP 66) SX 907 563		GMS/HLJ			FC Days 209 Climatic Grade 1			RPT/GMS/367			
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Size Shape Type and Field Method		Mottling Abundance Contrast, Size and Colour	Structure Developmen Size and Shape	Pores and Fissures	Structural Condition			Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form	
1	24	05YR43	MCL	5% HR Total (visual)		None		Good				Common fine + very fine + medium	Very slightly calcareous (0 5 1%)	None	Abrupt wavy	
2	47	05YR44	MCL	50% HR >2cm 9% HR <2cm 59 HR Total (sieve + displacement)		None	Determined by stones	Good between stones	M (assumed)			Common very fine	Very calcareous (>10%)	None	Clear wavy	
3	70	05YR44	MCL	>70% I Total (assume		None	Determined by stones	Good between stones	M (assumed)			Few very fine	Very None calcareous (>10%)			
Profile G	leyed From	N/A			Availa	ble Water	Wheat 60	mm			Final	ALC Grade	3 A			
Depth to Permeable	Slowly le Horizon	N/A		-	Morety	re Deficit		mm mm			Main Limiting Factor(s) Droughtiness					
Wetness Class Wetness Grade		I			Moisin	ie Denen										
		2			Morety	re Balance		mm 2 mm							<u> </u>	
					14101210	ic Dalance					Rema	rks				
								2 mm			Pit dug to 65 Fissures to 70+ with reasonable amounts of soil					
NL3360	i				Drougl	htiness Grade	31	(Calculated	to 90 cm)		Roots in H3 in the fissures and evidence w			lence within	the rock bed	

SITE NAI		PROFILE	NO	SLOPE 0°	E AND A	SPECT	LAND USE		Av Raınfall	1	1018 n	mm	PARENT M		
Churston	Ferrers	Pıt 2	Pit 2				CER	,	ATO		1548°0	rC .	Middle Devo	onian Limesto	one
JOB NO		DATE		GRID I	REFERE	NCE	DESCRIBED	BY	1		209		TOPSOIL S.	AMPLE	
9/94	!	2/3/94			RPT/PB/107	RPT/PB/107									
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size Sl Type a Field M	hape and	Mottling Abundance Contrast, Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Cons	sistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	22	7 5YR33	MCL/ MZCL	c2% HF	R vis	None						CF M	None	None	Ab smooth
2	80	7 5YR43	MCL	c2% <	2cm vis	None	WCSAB	G	М	Fr		CF VF	SI	None	Gr smooth
3	110	7 5YR34	HCL	c5% <2	2cm vis	None	MCSAB	<1/2% but good fissures	М	FM		FF	SI	None	Cl smooth
4	130+	7 5YR33	С	None (v	vis)	FFFOM		<1/2% but mod fissures	М	Fm		None	None	F	
Profile G	leyed From				Availa	ble Water V	Wheat 149	mm			Final	ALC Grade	2		
Depth to S Permeable	Slowly le Horizon				Moish		Potatoes 114 Wheat 92 n	mm			Main	Limiting Factor	or(s) Workab	bility	
Wetness (Class	1		1	17101010					,					
Wetness (Grade	2		1	1					,					
				1	Moistu	ıre Balance V	Wheat +57	7 mm		,	Remar	arks			
	Potatoes +32 mm									,					
Droughtmess Grade 1 (Calculated								'alculated to	1 to 120 cm)						

SITE NA	ME	PROFILE	NO	SLOPE	AND A	SPECT	LAND USE		Av Raınfal		1018 1		PARENT MATERIAL				
Churston	Ferrers	Pit 3	Pit 3				Perm grass		AV Kainiai ATO	l	1548%		Middle Devonian Limestone				
JOB NO	JOB NO		DATE		GRID REFERENCE		DESCRIBED	DESCRIBED BY			209		TOPSOIL SAMPLE				
9/94	9/94			SX 904 558 (AS		SP 130) PB/GMS			FC Days Climatic G	Climatic Grade 1			RPT/PB/108				
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method		Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Development Size and and		Cons	istence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form		
1	22	5YR46	HZCL	1% >2cm HR 2% >2mm HR 3% HR Total Visual		none					_	Many fine + v fine	none	none	Clear smooth		
2	40	2 5YR46	MCL	3% HR	visual	none	MCSAB	Good	M	Friable		Many fine + v fine	none	none	Gradual smooth		
3	65	2 5YR36	HCL	3% ZR	(S+D)	none	SCSAB	Good	M Firm			Common fine + v fine	none	none	Gradual smooth		
4	100	2 5YR36	С	0% (vi	s)	none	MCSAB	Low porosity good fissure	М	Firm		Few	none	none	Gradual smooth		
5	100+	10YR46 (10YR44 Ped face)	С	15% Z	R vis	0	W			Fırm	·	none	none	none			
Profile G	leyed From				Avaıla	ble Water	Wheat 14	mm			Final .	ALC Grade	2/3A				
Depth to Slowly Permeable Horizon Wetness Class Wetness Grade					Moistu	re Deficit		5 mm mm			Main Limiting Factor(s) Workability						
		1					Potatoes 82	mm									
		2/3A	3 A		Moistu	re Balance		 Этт			Remai	rks					
							Potatoes +3	3mm			Topsoil clay content 28% Borderline 3A/2						
					Droughtmess Grade		1 (Calculated to	120 cm)		Topson ciay content 28% Borderline 3A/2						

SITE NA		PROFILE	NO		AND A	SPECT	LAND USE		Av Raınfal	1	1018 1	nm	PARENT M				
Churston Ferrers		Pit 4		3° W		CER	CER			1548°	С	Middle Devonian Limestone					
JOB NO		DATE	DATE		GRID REFERENCE		DESCRIBED BY		ron	C Davs 209			TOPSOIL SAMPLE				
9/94	9/94			SX 897 564 (A		SP 38) HLJ/PB			FC Days Climatic G	rade	1		RPT/HLJ/21				
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Size Shape Type and Field Method		Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consi	stence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form		
1	18	05YR44	MSZL	20 >2c 2% <2c 22% H	cm vis	none						CF VF M	V Slightly	None	Ab wavy		
2	30	05YR46	MCL	60% H Total	R vis	none	Det by stones	G	М			CF VF	Slightly	None	Ab wavy		
3	30+	05YR46	MCL in fissures	95% H Total	R vis									None			
Profile G	leyed From				Availal	ble Water	Wheat 38	38 mm			Final .	ALC Grade	4 (3B mapping unit)				
Depth to Slowly Permeable Horizon Wetness Class 1				Moistu	re Deficit	Wheat 92	mm mm mm			Main	Limiting Facto	tor(s) Droughtiness					
Wetness Grade 1					Moistu			mm			Rema	rks					
					Drougl	ntiness Grade		tatoes -44 mm 4 (Calculated to 50 cm)				Topsoil stoniness limitation of 3B Droughtiness borderline 3B/4					

SITE NAME		PROFILE	NO	SLOPE	E AND A	SPECT	LAND USE		Av Raınfal	1	1218	nm	PARENT MATERIAL			
Churston	Churston Ferrers		Pit 5		3° N		CER		ATO	•	1548°		Middle Deve	onian Slates	and Shales	
JOB NO	JOB NO		DATE		GRID REFERENCE		DESCRIBE	FC Days		209		TOPSOIL SAMPLE				
9/94	9/94			SX 911 557 (ASP 147)		PB/HLJ		Climatic G	Climatic Grade 1			RPT/PB/109				
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Size Shape Type and Field Method		Mottling Abundance Contrast Size and Colour	Structure Developmen Size and Shape	Pores and Fissures	Structural Condition	Cons	istence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form	
1	17	7 5YR53	HCL	18% Z <2cm S		None		G				CF M	SI	None	Ab smooth	
2	32	7 5YR53	HCL	20% Z <2cm S		None	MMSAB	Good fissures	G	Friab	le	CF M	SI	None	Ab wavy	
3	60+		ZR	99% Z	R vis	None			М		,	FVF	None	None		
Profile G	leyed From				Avaıla	ble Water	Wheat 75	mm			Final	ALC Grade	3a			
Permeabl	Depth to Slowly Permeable Horizon Wetness Class 1				Moistu	re Deficit	Wheat 97	mm mm	Main Limiting			Limiting Facto	r(s) Drough	itiness and W	orkability	
Wetness	Wetness Grade 2/3a															
					Moistu	re Balance	Wheat 1'	7mm			Remarks					
	Potato						Potatoes -4	mm			Pit di	ug to 65 cm				
						htiness Grade	3a	(Calculation	to 60 cm)		1 1 4 4 4 5 6 5 6 11					

SITE NA	ME	PROFILE	NO	SLOPE	E AND A	SPECT	LAND US	SE		Av Raınfall	İ	1018	mm	PARENT MATERIAL			
Churston	Ferrers	Pit 6	Pit 6				PGR			ATO		1548°		Upper Devonian Slates and Mudstones			
JOB NO	JOB NO		DATE		GRID REFERENCE		DESCRIE	DESCRIBED BY		FC Days 209				TOPSOIL SAMPLE			
9/94	9/94		3/3/94		3 568 (A	SP 1)	HLJ/PB	HLJ/PB		FC Days Climatic G	rade	1		RPT/PB/110			
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Size Shape Type and Field Method		Mottling Abundance Contrast Size and Colour	Structure Developm Size and Shape	ment Pores		Structural Condition	Cons	istence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form	
1	26	05YR44	MSZL	5% HR total (visual)		None			G				Many F+M	None	None	Clear wavy	
2	54	05YR43	MCL	8% >2 <u>9%</u> <2	cm	None	MCSAB		G	М	Friab	le	Common fine	SI	None	Gradual wavy	
3	72	5YR43	MCL	25% > 12% < 37% H	2cm 2cm	None	MCSAB		G	М	Fnable		Common fine	Calcareous (5 10%)	None	Gradual wavy	
4	120	2 5YR46	MCL	45% H	R >2cm R <2cm	None	Too stony	7	G	M (Assumed)			None	Calcareous (5 10%)	None		
Profile G	leyed From				Available Water Wheat			eat 113 mm				Final	ALC Grade	2			
Depth to Permeabl	Slowly e Horizon				Moietu	re Deficit						Main Limiting Factor(s) Droughtiness					
Wetness	Wetness Class I				IVIOISIG	io Donon		82 m									
Wetness	Wetness Grade																
					Moisture Balance			+21				Remarks					
							Potatoes	es +17 mm									
					Drougl	ntiness Grade		2 (Calculated to 120 cm)									
377.007	•				1							1					