SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USI	E	Av Rainfal	1.	809 m		PARENT M	ATERIAL	•
Withycon	nbe	Pit 1		l°			Permanent	grass	ATO:	11.	1497°		Littleham M	udstones	
JOB NO. 111/93		DATE Jan 94		GRID F	REFERE SY 0	NCE 22 839	DESCRIBI M Mills	ED BY	FC Days:	rade:	169 1		RPT/MM 3		
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size, Sl Type, a Field M	hape, nd	Mottling Abundance, Contrast, Size and Colour	Structure: Developme 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	20	7.5YR44	HCL	5% HR	visual	None	-					Many fine			
2	30	5YR44	HCL	20% HF	R visual	Common 7.5YR58	W platy	Good	Poor	Firm		Common			
3	60	5YR46	С	5% HR	visual	Common 7.5YR58, 71	MMPR	Low	Poor	Very	firm	Few			
Profile G	leyed From:	20 cm			Availa	ble Water	Wheat:	76 mm			Final	ALC Grade:	3B		
Depth to Permeable	Slowly le Horizon:	35 cm			Moietu	re Deficit		31 mm 103 mm			Main	Limiting Facto	r(s): Wetnes	ss	
Wetness	Class:	IV			141013(0	ne Benen		96 mm			i				
Wetness	Grade:	3b			Moistu	ire Balance		-27 mm							
								-15 mm			Rema	rks:			
					Droug	htiness Grade:	:	3B (to 60 cm)							

SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND U	SE		Av Rainfall		809 m	m	PARENT M	ATERIAL	
Withycon	mbe	Pit 2		0°					١	ATO:	•	1497°		Littleham M	ludstones	
JOB NO.		DATE		GRID R	EFERE	NCE	DESCRIE	BED I	BY	FC Days:		169		TOPSOIL S	AMPLE	
111/93		19/1/94		ASP 130) SY	33 837	G Clark a	and P	Barnett	Climatic G	rade:	1		RPT/PB 45		
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonines Size, Sh Type, ar Field M	ape, nd	Mottling Abundance, Contrast, Size and Colour	Structure Developn 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			7% >2 20% >2 Total 27 Sieve/di	mm 7% HR	None	-		-	-	-	~.	Many fine and v fine	None	None	Clear/ smooth	
2	55	55 5YR54 C		30% >2 21% >2 Total 51 Sieve/di	mm I% HR	7.5YR56	MCSAB	:	Many	Moderate	Firm		Common fine/v fine	None	None	Clear/ smooth
3	120	5YR56 2.5YR54	С	30% vis HR	sual	7.5YR56	Dominate by stones MCSAB	i.	Many	Moderate	Firm		None	None	None	
Profile G	leyed From:	25 cm			Availa	ble Water	Wheat:	94 n	nm			Final	ALC Grade:	3A	•	
Depth to Permeab	Depth to Slowly Permeable Horizon: None				Moisto	re Deficit	Potatoes: Wheat:	76 n 103				Main	Limiting Facto	r(s): Drougl	ntiness	
Wetness	Class:	II					Potatoes:	96 n								
Wetness	Grade:	2			Moistu	re Balance	Wheat:	-9 m								
					2.23.044		Potatoes:	-20 i				Rema	rks:			
					Drough	htiness Grade			(to 120 cm)							

SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USE						PARENT M	ATERIAL	
Withycon	nbe	Pit 3		3° W			Permanent Gra	ass	Av Rainfall ATO:	:	809 m 1497°	m	Littleham M	ludstones	
JOB NO.		DATE	·	GRID I	REFERE	NCE	DESCRIBED	BY	FOR		160		TOPSOIL S	AMPLE	
111/93		19/1/94		ASP 12	28 SY (031 837	G Clark and P	Barnett	FC Days: Climatic G	rade:	169 1		RPT/PB 46		
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoning Size, S Type, a Field N	hape, ind	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	20	10YR43	17% > 2 Total 30 Sieved/6 5YR53 HCL 60% To			FFRRM	-	-	-	-		MF,VF	-	-	Clear
2	35	7.5YR53	HCL	60% T visual	otal	CROM 10YR58 5YR46	Too stony to tell	Many		Firm		MF,VF	-	Common	Clear smooth
3	65	5YR54	C	10%>	2cm	MMOM 10YR58	MCSAB/ MMP	< 1/2%	Poor	Firm		Common FVF (ped face only)	-	Common	
Profile G	leyed From:	20 cm			Availa	ble Water V	Wheat:	•			Final	ALC Grade:	3b		
Depth to Permeab	le Horizon:	20 cm Available Water 35 cm Moisture Deficit					Potatoes: Wheat:				Main	Limiting Facto	r(s): Wetnes	ss	
Wetness		3b					Potatoes:								
Wellogs	Moisture Balance					Wheat: Potatoes:				Rema	rks:				
				Droug	htiness Grade:	Ī				Pit to	65 cm.				

SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USE		Av Rainfall	•	809 m	·	PARENT M	ATERIAL	
Withycon	nbe	Pit 4		0°			Permanent Gra	ass	AV Railiaii ATO:		1497°		Littleham M	udstones	
JOB NO.		DATE		GRID I	REFERE	NCE	DESCRIBED	BY	ro D		160				
111/93		19/1/94		ASP 10	00 SY	016 838	M Mills and C	Shaw	FC Days: Climatic G	rade:	169 1		RPT/MM2		
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size, S Type, a Field M	hape, ind	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	30	5YR43	HCL	5% HR	visual	None						Many fine		None	
2			12% HI	R visual	None	WFSAB	Good	Good	Friab	le	Common fine		Common		
3	80	7.5YR64, 68			Common ochreous	WCSAB	Poor	Moderate	Friab	le	Few fine		Few		
4	95+	2.5YR46 Ped face 5YR53	С	10% HI	R visual	Few	WCSAB adherent	Poor	Moderate	Firm		Few v fine		Few	
Profile G	leyed From:	30 cm			Availa	ble Water	Wheat: 145	mm			Final	ALC Grade:	3 b		
Depth to Permeabl	Slowly le Horizon:	58 cm			Moietu	ıre Deficit		mm mm			Main	Limiting Facto	r(s): Wetnes	s	
Wetness	Class:	III			IVIOISLU	ic Deficit									
Wetness	Wetness Grade: 3b						Potatoes: 96 r	nm							
					Moistu	re Balance	Wheat: 42 i	nm			Rema	rks:		-	
							Potatoes: 23 i	nm				on 2 ped faces:	not vary alaas		
					Drough	htiness Grade:	1				HOILE	on z peu races	not very clear.		

SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USE	<u> </u>		Av Rainfall		809 m	m	PARENT M	ATERIAL	
Withycon	nbe	Pit 5		00			Permanent	Grass	l	ATO:	•	1497°		Littleham M	udstones	
JOB NO.		DATE		GRID I	REFERE		DESCRIBE	ED BY		FC Days:		169	:			_
111/93		19/1/94		ASP 6	SY 02	0 844	M Mills an	d G Shaw		Climatic G	rade:	1		RPT/MM1		
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size, S Type, a Field N	hape, ind	Mottling Abundance, Contrast, Size and Colour	Structure: Developme Size and Shape	nt Pores and Fissur		Structural Condition	Consi	stence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	26	10YR33	MCL	10% HI	R visual								Common fine		None	
2	2 45		HCL	15% HI	R visual	Common ochreous	WCSAB	Good		Good	Friab	le	Common fine		None	
3	70+	2.5YR46 Ped face 5YR64	С	5% HR	visual	Common	MCPr	Poor		Poor	Firm		Few fine around peds		None	
Profile G	leyed From:	26 cm			Availa	ble Water	Wheat: 1	30 mm				Final	ALC Grade:	3B		
Depth to Permeab	Slowly le Horizon:	45 cm			Moistu	ıre Deficit		18 mm				Main	Limiting Facto	r(s): Wetnes	SS	
Wetness	Class:	IV			11101010			96 mm								
Wetness	Grade:	3b			Moietu	ire Balance		27 mm							· · · · · ·	
					14101500	ne Danance		l2 mm				Rema	rks:			
					Droug	htiness Grade:	: 2	2 (to 120 cr	n)							

SITE NA	ME	PROFILE	NO.	SLOPE A	AND A	SPECT	LAND US	E		Av Rainfall		809 m	m	PARENT M	ATERIAL	
Withycor	nbe	Pit 6		3°			Winter Ce	reals	s	AV Kainian ATO:	•	1497°		Littleham M	udstones	
JOB NO.		DATE		GRID RI	EFERE	NCE	DESCRIB	ED I	BY	EC Daniel		1/0		TOPSOIL SA	AMPLE	
111/93		20/1/94		ASP 174	SY	037 834	P Barnett	and (G Shaw	FC Days: Climatic G	rade:	169 1		RPT/GMS 3	61	
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonines Size, Sha Type, an Field Me	ape, id	Mottling Abundance, Contrast, Size and Colour	Structure: Developm 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	28	7.5YR32	25% HR < 31% HR To Sieved/disp			None							Common fine	None	None	Gradual smooth
2	58	7.5YR56	Sieved/displ MSZL 30% HR >2cm 19% HR <2cm 49% HR Total Sieved/displ		None	MCSAB	:	Good	Moderate	Friab	le	Few fine	None	None	Gradual smooth	
3	90+	7.5YR58	MSL	35% HR 29% HR 64% HR Sieved/di	<2cm Total	Common feint ochreous mottles	Too stony assess	to		Assume moderate			None	None	None	
Profile G	leyed From:	Not gleyed			Availal	ble Water	Wheat:	93 n	n m			Final	ALC Grade:	3a		
Depth to Permeab	Slowly le Horizon:	No SPL			Moistu	re Deficit		76 m				Main	Limiting Facto	r(s): Drough	ntiness	
Wetness	ness Class: I Moisture				ie Denen		96 n									
Wetness	tness Grade: 1				D-1											
					re Balance		-10 ı			•	Rema	rks:				
							-20 1									
					Drougl	htiness Grade:		3a (t	to 120 cm)							

SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USE	•	Av Rainfall		809 m	m	PARENT M	ATERIAL	
Withycon	abe	Pit 7		2° N			Permanent (Grass	ATO:	٠.	1497°	111	Littleham M	ludstones	
JOB NO.		DATE		GRID I	REFERE	NCE	DESCRIBE	D BY	FC Days:		169		TOPSOIL S	AMPLE	
111/93		21/1/94		ASP 30	4 SY	035 825	P Barnett ar	nd G Shaw	Climatic G	rade:	1		RPT/GMS 3	60	
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size, Si Type, a Field M	hape, ind	Mottling Abundance, Contrast, Size and Colour	Structure: Development 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	25	7.5YR44	HZCL	c 1% To	otal HR		-		-			MF, VF	-	-	Gradual smooth
2	45		HCL	0		СГГОМ	MF/MP MCSAB	Many	Poor	Firm		CF, VF	_	С	Clear smooth
3	(80+)	M: 5YR56 Ped: 5YR64	С	0		MDMOM	MMPr	< 1/2%	Poor	Firm	_	FF, VF	-	F	
Profile G	leyed From:	25 cm			Availa	ble Water	Wheat: 1	27 mm			Final .	ALC Grade:	3b		
Depth to Permeabl	Slowly e Horizon:	45 cm			Moisty			04 mm 03 mm			Main	Limiting Facto	or(s): Wetnes	SS	
Wetness	Class:	IV			IVIOISLU	•		6 mm			:				
Wetness	Grade:	3 b			Mojety			4 mm							·
					1410120			mm			Rema	rks:			
					Droug	htiness Grade:	2								

SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USE		Av Rainfall		809 m		PARENT M	ATERIAL	
Withycon	ıbe	Pit 8		3° W			Perm Grass		ATO:	•	1497°		Littleham M	Iudstones	
JOB NO.		DATE		GRID I	REFERE	NCE	DESCRIBED	BY	1				TOPSOIL S	AMPLE	
111/93		21.1.94		ASP 23	7 SY	35 829	P Barnett and	G Shaw	FC Days: Climatic G	rade:	169 1		RPT/GMS 3	359	
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size, S Type, a Field N	hape, .nd	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	25 7.5YR43 HCL 40 7.5YR44 HCL			<5% m >2mm visual		-	-	-	-	-		MFVF	0	0	Gradual smooth
2				20% H visual	R Total	0	WCSAB	Many	М	Friabl	le	CF, VF	0	0	Clear smooth
3	48 7.5YR54 C		70% H visual	R Total	CFFOM	Ind - too narrow	Many	М	Friabl	le	FF, VF	0	М	Abrupt wav	
4	70+	Matrix 5YR56 Ped face 5YR64	С			MDMOM mainly at top of SPL	MM-CP	< ½%	P	Firm		FF, VF	0	F	
Profile G	leyed From:	40 cm			Availa	ble Water	Wheat: 11	3 mm			Final	ALC Grade:	3 b		
Depth to Permeabl	Slowly e Horizon:	48 cm			Moista			mm 3 mm			Main	Limiting Facto	or(s): Wetnes	ss	
Wetness	Class:	Ш			INIOISEU										
Wetness	Grade:	3b			:		Potatoes: 96	mm							
					Moistu	re Balance	Wheat: 15	mm			Rema	rks [.]			
							Potatoes: -1	mm							
VP336-5					Droug	htiness Grade:	2								

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SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USE		Av Rainfall	•	809 m	m	PARENT M	ATERIAL	
Withycon	nbe	Pit 9		7° W					ATO:	••	1497°		Littleham M	ludstones	
JOB NO.		DATE		GRID R	EFERE	NCE	DESCRIBED	BY	1	•					
111/93		21/1/94		ASP 242	2 SY	040 829	H Lloyd-Jones Gill Shaw	s and	FC Days: Climatic G	rade:	169 1		RPT/GMS 3	62	
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size, Sh Type, an Field M	iape, nd	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	24	7.5YR44	MCL	5% Tota visual	al HR	None	-	Good	-	-		Common fine and medium	None	None	Abrupt irregular
2	42	05YR34	HCL	5% tota visual	I HR	None	MDCSAB	Good	Moderate	Friab	le	Common very fine few medium	None	None	Clear wavy
3	64	05YR54	HCL/C	10% To visual	tal HR	7.5YR58 many	MDMSAB (weak to moderate)	Good	Good	Friab	le	Common fine and medium	None	Common	Clear wavy
4	115+	7.5YR72	С	15% To	tal HR	10YR68 many	WDMSAB	Good	Good	Friab	le	Common medium	None	None	
Profile G	leyed From:	42			Availal	ole Water	Wheat: 174	mm			Final	ALC Grade:	1		•
Depth to Permeable	Slowly le Horizon:	No SPL			Moistu			! mm ! mm			Main	Limiting Facto	or(s): None		
Wetness	Class:	I	,		wioistu			mm							
Wetness	Grade:	1			Maiatus					•			· · · · · · · · · · · · · · · · · · ·		
					iviois(U			mm mm			Rema	rks:			
					Decu-			mm o 120 cm)							
		*			Drougi	ntiness Grade:	1 (1	0 120 CHI)							

SITE NA	ME	PROFILE	NO.	SLOPE	AND A	SPECT	LAND USE		A D.:		000		PARENT M	ATERIAL	
Withycon	nbe	Pit 10		3°			Perm Grass		Av Rainfall ATO:	i :	809 m		Littleham M	ludstones	
JOB NO.		DATE	_	GRID I	REFERE	NCE	DESCRIBED	BY	FC Days:		169				
111/93		21/1/94		ASP 31	16 SY	028 824	P Barnett and	G Shaw	Climatic G	rade:	1		RPT/PB 57		
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stonine Size, Si Type, a Field M	hape, ınd	Mottling Abundance, Contrast, Size and Colour	Structure: Development 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	1 20		HCL/ HZCL	2% HR	visual	None	-	Good	-	-		Many fine and v fine	None	None	Gradual smooth
2			С	None v	risual	Many feint fine ochreous	МСРт	Low	Poor	Firm	·	Many fine and v fine within and between	None	Common	
Profile G	leyed From:	20 cm			Availa	ble Water	Wheat: 81	mm			Final	ALC Grade:	3b		
Depth to Permeabl	le Horizon:	35 cm			Moistu			mm 3 mm			Main	Limiting Facto	r(s): Wetnes	es s	
Wetness		3b					Potatoes: 96	mm							
Wethess	Grade.	30			Moistu	re Balance	Wheat: -22	mm			Rema	rke:			
							Potatoes: -9	mm			Reilla	irs.			
					Droug	htiness Grade:	3B	(to 60 cm)							