

SITE NAME Ruishton Taunton		PROFILE NO Pit 1	SLOPE AND ASPECT 3° SW	LAND USE Cereal	Av Rainfall 759 mm	PARENT MATERIAL Keuper Marl
JOB NO 42/92		DATE 3/5/94	GRID REFERENCE ASP 268 237 (ASP 86)	DESCRIBED BY PB/GMS	ATO 1547 day °C	SOIL SAMPLE REFERENCES RPT/PB/122
					FC Days 163	
					Climatic Grade 1	
					Exposure Grade 1	

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	23	HCL	7 5YR43	<1% Visual	none	none				good	CF VF	none	Abrupt smooth
2	50	HCL	05YR43	<1% Visual	none	none	MCSAB	Friable	Moderate	good	FF VF	none	Gradual smooth
3	73	C	05YR54 Face 5YR53	5% HR >2mm visual	CFOM	Common	MCSAB	Friable	Moderate	low	FVF	none	Gradual smooth
4	95+	C	05YR43	<1% Visual	none	Common	WCSAB with MFAB around	Friable/firm	Moderate	low	none	common	

Profile Gleyed From 50 cm  
 Depth to Slowly Permeable Horizon 73 cm  
 Wetness Class II  
 Wetness Grade 31

Available Water Wheat 139 mm  
 Potatoes 114 mm  
 Moisture Deficit Wheat 110 mm  
 Potatoes 105 mm  
 Moisture Balance Wheat 29 mm  
 Potatoes 9 mm  
 Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 31  
 Main Limiting Factor(s) Wetness

Remarks

NL3361

SITE NAME Ruishton		PROFILE NO Pit 2	SLOPE AND ASPECT 0°	LAND USE Cereal	Av Rainfall 759 mm ATO 1547 day °C	PARENT MATERIAL Keuper Marl
JOB NO 42/94		DATE 3/5/94	GRID REFERENCE ST 267 239 (ASP 73)	DESCRIBED BY PB/GMS	FC Days 163 Climatic Grade 1 Exposure Grade 1	SOIL SAMPLE REFERENCES RPT/PB/124

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	22	HZCL	7.5YR4/2	3% HR (Chert) Visual	none	none					MFVF	none	Abrupt smooth
2	41	C	10.5YR4/3	<1% Visual	none	none	MC/MSAB	Firm	Moderate	Good	CFVF	none	Gradual smooth
3	60+	C	10R4/3 + Green marl face 10R5/2	none visual	none	none	WCAB tending to WMP	Firm	Poor	Low	FVF	None	

Profile Gleyed From N/A

Depth to Slowly Permeable Horizon 41 cm

Wetness Class III

Wetness Grade 3b

NL3361

Available Water Wheat 131 mm

Potatoes 108 mm

Moisture Deficit Wheat 110 mm

Potatoes 105 mm

Moisture Balance Wheat 21 mm

Potatoes 3 mm

Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 3B

Main Limiting Factor(s) Wetness

Remarks

SITE NAME		PROFILE NO		SLOPE AND ASPECT		LAND USE		Av Rainfall		PARENT MATERIAL	
Rushton		Pit 3		0°		PGR		759 mm		Keuper Marl	
JOB NO		DATE		GRID REFERENCE		DESCRIBED BY		ATO		SOIL SAMPLE REFERENCES	
42/94		5/5/94		ST 262 241 (ASP 55)		GMS/HLJ		1547 day °C			
								163			
								Climatic Grade		RPT/PB/121	
								Exposure Grade			
								1			
								N/A			

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	22	C	7.5YR4/2	0% Total (Visual)	none	none				Good	MF + VF	none	Clear smooth
2	50	C	0.5YR4/6 (7.5YR5/4)	0% Total (Visual)	none	few	MDCSAB	FR	M	Good	CF + VF	none	Clear smooth
3	70+	C	0.5YR4/4 (7.5YR5/2)	0% Total (Visual)	MDVFG MDFO	none	MDCAB	FR	M	<0.5%	FVF	none	

Profile Gleyed From 50 cm  
Depth to Slowly Permeable Horizon 50 cm  
Wetness Class III  
Wetness Grade 3b

NL3361

Available Water Wheat 138 mm  
Potatoes 114 mm  
Moisture Deficit Wheat 110 mm  
Potatoes 105 mm  
Moisture Balance Wheat 28 mm  
Potatoes 9 mm  
Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 3b  
Main Limiting Factor(s) Wetness

Remarks

SITE NAME		PROFILE NO	SLOPE AND ASPECT		LAND USE		Av Rainfall 759 mm		PARENT MATERIAL			
Ruishton		Pit 4 (ASP 2)	0°		PGR		ATO 1547 day °C		Keuper Marl			
JOB NO		DATE	GRID REFERENCE		DESCRIBED BY		FC Days 163		SOIL SAMPLE REFERENCES			
42 94		5/5/94	ST 261 249		PB/GMS		Climatic Grade 1		RPT/PB/125 126			
							Exposure Grade 1					

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	25	MCL	7 5YR42	5% HR Vis	0	0					MF VF	0	Clear smooth
2	60	MCL	7 5YR43	1% >2cm 14% >2mm 15% HR (S&D)	0	0	MCSAB	Fv	Mod	G	CF VF	0	Clear smooth
3	80	MSL	7 5YR53	25% >2cm 27% >2cm 52% HR (S+D)	MDMOM	0	WCSAB But stony	Fm	P	P	FF VF	0	Grnd wavy
4	105+	SC	05YR44	50% HR Vis	CFMOM	0	W stony	Fm	P	P	0	0	

Profile Gleved From 60 cm  
 Depth to Slowly Permeable Horizon 80 cm  
 Wetness Class I  
 Wetness Grade 1

NL3361

Available Water Wheat 111 mm  
 Potatoes 97 mm  
 Moisture Deficit Wheat 110 mm  
 Potatoes 105 mm  
 Moisture Balance Wheat 1 mm  
 Potatoes 8 mm  
 Droughtiness Grade 3A (Calculated to 120 cm)

Final ALC Grade 3A  
 Main Limiting Factor(s) Droughtiness  
 Remarks

SITE NAME Ruishton		PROFILE NO Pit 5 (ASP 20)	SLOPE AND ASPECT 5° W	LAND USE CER	Av Rainfall 759 mm	ATO 1547 day °C	PARENT MATERIAL Keuper Marl						
JOB NO 42 94		DATE 9/5/94	GRID REFERENCE ST 258 246	DESCRIBED BY HLJ/PB	FC Days 163	Climatic Grade 1	Exposure Grade 1	SOIL SAMPLE REFERENCES RPT/PB/123					

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	25	C	7 5YR42	2% HR Vis	0	0					CF VF	0	Clear smooth
2	50	C	7 5YR43	1% HR Vis	0	0	WCSAB	Fm	M	P	FVF	0	Grad smooth
3	90	C	7 5YR43	0	0	0	WCSAB*	Vm	M	P	FF	0	Abrupt wavy
4	120	C	05GY51	0	FDVFOM	0			Assumed M	P	0	0	

Profile Gleyed From Not gleyed  
 Depth to Slowly Permeable Horizon No SPL  
 Wetness Class I  
 Wetness Grade 31

NL3361

Available Water Wheat 137 mm  
 Potatoes 113 mm  
 Moisture Deficit Wheat 110 mm  
 Potatoes 105 mm  
 Moisture Balance Wheat 27 mm  
 Potatoes 8 mm  
 Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 3A  
 Main Limiting Factor(s) Workability

Remarks  
 \*tending to WMP  
 SPL considered but not found 7/5 texture close to HCL (Grade 2)