

SITE NAME		PROFILE NO	SLOPE AND ASPECT		LAND USE		Av Rainfall 1217 mm		PARENT MATERIAL			
Yealmpton		Pit 1 (ASP 71)	4° S		Cer		ATO 1540 day °C		Shalsteins shale			
JOB NO		DATE	GRID REFERENCE		DESCRIBED BY		FC Days 236		PSD SAMPLES TAKEN			
61 98		4 9 98	SX 5823 5234		PB		Climatic Grade 2		TS0-25cm. MCL/HCL (S39 Z35 C26%)			
							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	24	MCL	7 5YR43	5% > 2 cm (s) 22% < 2 cm (s+d) 27% HR	0	0					CF VF		Clear Smooth
2	50	HCL	7 5YR44	6% > 72 cm (s) 30% < 2 cm (s+d) 36% HR	0	0	WKM FSAB	FR	G	G	CVF		Grad Smooth
3	85+	HCL	10YR64	35% > 2 cm (s) 24% < 2 cm (s+d) 59% HR	0	0	Too stony	FM	(M)	(G)	FVF		

Profile Gleyed From

Slowly Permeable Horizon From

Wetness Class I

Wetness Grade 3a/3b

Available Water Wheat 99 mm

Potatoes 82 mm

Moisture Deficit Wheat 85 mm

Potatoes 73 mm

Moisture Balance Wheat +14 mm

Potatoes +9 mm

Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 3a/3b

Main Limiting Factor(s) Wk

Remarks
Topsoil texture borderline W G 3a/3b

61845

61/98

SITE NAME		PROFILE NO	SLOPE AND ASPECT	LAND USE	Av Rainfall	1201 mm	PARENT MATERIAL	
Yealmpton		Pit 2 (Nr Asp 37)	1° N	Cer	ATO	1551 day °C	Slate head	
JOB NO		DATE	GRID REFERENCE	DESCRIBED BY	FC Days	234	PSD SAMPLES TAKEN	
61 98		4 9 98	SX 5825 5252	PB	Climatic Grade	2	TS 0 25 cm HCL/MCL (S27 Z46 C27%)	
					Exposure Grade			

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	28	HCL	7 5YR46	10%HR (vis)	0	0					CF VF		Grad Smooth
2	38	HCL	7 5YR54	20% HR (vis)	0	0	WKM FSAB	FR	G	G	CVF		Grad Smooth
3	60+	C	10YR54	10% HR (vis)	FDFO	C	WKMSAB	FR	G	G	FVF		Grad Smooth
4	84+	C	10YR64,54	10% HR (vis)	CDMO 10YR58	C	WKCSAB	FM	P	P	FVF		

Profile Gleyed From 60 cm
Slowly Permeable Horizon From 60 cm
Wetness Class III
Wetness Grade 4/3b*

Available Water Wheat 137 mm
Potatoes 116 mm
Moisture Deficit Wheat 87 mm
Potatoes 76 mm
Moisture Balance Wheat +50 mm
Potatoes +40 mm
Droughtiness Grade 1 (Calculated to 120 cm)

Final ALC Grade 4/3b
Main Limiting Factor(s) We
Remarks Broderline to W G 3b

SITE NAME		PROFILE NO	SLOPE AND ASPECT		LAND USE		Av Rainfall		1135 mm		PARENT MATERIAL	
Yealmpton		Pit 3 (Nr Asp 65)	2 S		Cer		ATO		1574 day C		Slate	
JOB NO		DATE	GRID REFERENCE		DESCRIBED BY		FC Days		225		PSD SAMPLES TAKEN	
61 98		4 9 98	SX 5860 5212		PB		Climatic Grade		1		TS 0 25 cm MCL (S26 Z53 C21%)	
							Exposure Grade					

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	24	MCL	7 5YR43	2% HR (vis)	0	0					CF VF		Abrupt Smooth
2	48	HCL	7 5YR46	5% HR (vis)	0	0	MDM FSAB	FR	G	G	CVF		Grad Wavy
3	74	C	10YR54,66	10% HR (vis)	FDFO 10YR58	F	WKCSAB	FM	M	G	FVF		Clear Wavy
4	95+	C	10YR66,68 Also 74	10%HR (vis)	CDFO 10YR58	F	WKCSAB	FM	P	P	FVF		

Profile Gleyed From 74 cm
 Slowly Permeable Horizon From 74 cm
 Wetness Class II *
 Wetness Grade 3a

Available Water Wheat 125 mm
 Potatoes 122 mm
 Moisture Deficit Wheat 94 mm
 Potatoes 84 mm
 Moisture Balance Wheat +31 mm
 Potatoes +38 mm
 Droughtiness Grade 1 (Calculated to 120 cm)

Final ALC Grade 3a
 Main Limiting Factor(s) We
 Remarks Guidelines inconclusive on Wetness Class assessed as WC II

SITE NAME		PROFILE NO	SLOPE AND ASPECT		LAND USE		Av Rainfall		1151 mm		PARENT MATERIAL	
Yealmpton		Pt4 (Nr ASP136)	4 S		PGR		ATO		1574 day °C		Slate head	
JOB NO		DATE	GRID REFERENCE		DESCRIBED BY		FC Days		227		PSD SAMPLES TAKEN	
61 98		8 10 98	SX 5974 5246		PB		Climatic Grade		1		TS 0 25 cm Clay/HCL(S20 Z44 C 36%)	
							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	C	10YR53	1%HR (vis)	0	0					CF VF		Sharp Smooth
2	35	C	2 5Y64	1%HR (vis)	FDFO 10YR56	0	WKCSAB	FM	M	G(low)	CVF		Clear Wavy
3	45	C	2 5Y83	1% HR(vis)	CDMO 10YR56	0	WKCPR	FM	P	G(low)	FVF		Clear Wavy
4	60+	C	2 5Y73	1%HR (vis)	MDMO 10YR58	0	WKCPR	FM	P	P	FVF		

Profile Gleyed From 35 cm
 Slowly Permeable Horizon From 45 cm
 Wetness Class IV
 Wetness Grade 5

Available Water Wheat 128 mm
 Potatoes 106 mm
 Moisture Deficit Wheat 93 mm
 Potatoes 84 mm
 Moisture Balance Wheat +35 mm
 Potatoes +22 mm
 Droughtiness Grade 1 (Calculated to 120 cm)

Final ALC Grade 5
 Main Limiting Factor(s) We

Remarks

SITE NAME		PROFILE NO	SLOPE AND ASPECT		LAND USE		Av Rainfall 1335 mm		PARENT MATERIAL			
Yealmpton		Pt5(Asp157211)	3 S		Cereals		ATO 1495 day °C		Igneous tuffs etc			
JOB NO		DATE	GRID REFERENCE		DESCRIBED BY		FC Days 255		PSD SAMPLES TAKEN			
61 98		5 11 98	SX 5855 5321		PB		Climatic Grade 3a		TS 0 25 cm MCL (S40 Z38 C22%)			
Exposure Grade 2												

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	26	HCL	75YR46	4%>HR (s) 24% < 2 cm (s+d) 28% HR	0	0					CF VF		Clear Smooth
2	60	C	75YR54	18%HR > 2 cm (s) 33% < 2 cm (s+d) 51% HR	FDFO*	0	WKFSAB (Det by stones)	FR	M	G	FF VF		Grad Smooth
3	83+	C	10YR54,63	40%> 2 cm (s) 25% < 2 cm (s+d) 65% HR S1	FDFO*	0	Too stony		(M)	G	O*		Grad Wavy

Profile Gleyed From	Available Water	Wheat	77 mm	Final ALC Grade 3b
Slowly Permeable Horizon From		Potatoes	69 mm	
Wetness Class I	Moisture Deficit	Wheat	96 mm	Main Limiting Factor(s) Wk
Wetness Grade 3b		Potatoes	88 mm	
	Moisture Balance	Wheat	19 mm	Remarks Mottles associated with weathering stones H2 mottles common 26 30 cm Roots sparse because pit located in a bare patch
		Potatoes	19 mm	
	Droughtiness Grade 3a		(Calculated to 120 cm)	