

SITE NAME Poltimore		PROFILE NO. Pit 1	SLOPE AND ASPECT 0°		LAND USE Winter cereals		Av Rainfall: 814 mm ATO: 1545°		PARENT MATERIAL Lower Sandstone			
JOB NO. 109/93		DATE 10/12/93	GRID REFERENCE ASP 177 SX 967 953		DESCRIBED BY PB/GMS		FC Days: 171 Climatic Grade: 1		TOPSOIL SAMPLE RPT/GC 137			

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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	30	5YR43	MCL	None visual	None					Common fine	None	None	Clear smooth
2	50	5YR56 ped face 5YR54	HCL	None visual	None	MCSAB	Good	Moderate	Firm	Few fine	None	Few	Diffuse smooth
3	70	5YR54 ped 5YR53	HCL	15%	Common 7.5YR58	MCSAB tending to prismatic		Moderate	Firm	Few v fine	None	Common	Clear smooth
4	85+	2.5YR46	C	15%	None	Massive	Low	Poor	Firm	None	None	Common	

Profile Gleyed From: 50 cm

Depth to Slowly Permeable Horizon: 70 cm

Wetness Class: II

Wetness Grade: 2

Available Water Wheat: 133 mm

Potatoes: 114 mm

Moisture Deficit Wheat: 109 mm

Potatoes: 102 mm

Moisture Balance Wheat: +24 mm

Potatoes: +12 mm

Droughtiness Grade: 2 (to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Wetness

Remarks:

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 814 mm			PARENT MATERIAL		
Poltimore		Pit 2		2° South		Ley		ATO: 1545°			Lower Sandstone		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 171					
109/93		14/12/93		ASP 79 SX 971 960		N A Done/HLJ		Climatic Grade: 1					
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	40	7.5YR43	MSL	Neg	-	-	-	-	-	Many fine few med		None	Gradual/ clear smooth
2	67	7.5YR44	FSL	Neg	-	WCSAB	>0.5%	Good	V friable	Many fine + v fine		None	Sharp/ smooth
3	120+	5YR56	LFS	-	-	WMSAB	>0.5%	Moderate	V friable	Few fine		None	

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 188 mm  
Potatoes: 132 mm

Moisture Deficit Wheat: 109 mm  
Potatoes: 102 mm

Moisture Balance Wheat: 79 mm  
Potatoes: 30 mm

Droughtiness Grade: 1 (to 120 cm)

Final ALC Grade: 1

Main Limiting Factor(s):

Remarks:

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 814 mm			PARENT MATERIAL		
Poltimore		Pit 3		0° (Top of spur)		Grass ley		ATO: 1545°			Culm Measures		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 171					
109/93		15/12/93		ASP 108 SX 960 957		N A Done		Climatic Grade: 1					
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	25	05YR44	HZCL	2% ZR	-	-	-	-	-	Many fine + v fine	-	-	Sharp/ smooth
2	55	05YR48	C	2% ZR	CDOM 7.5YR78	WD adherent CAB	<0.5%	Poor	Firm	Many fine (around peds)	-	Few conc	Clear/ smooth
3	70+	2.5YR48	C	8% ZR	MDOM 7.5YR78, 64	WD adherent CAB	<0.5%	Poor	Firm	Com fine	-	Few	

Profile Gleyed From: 25

Depth to Slowly Permeable Horizon: 25

Wetness Class: IV

Wetness Grade: 3b

Available Water Wheat: 93 mm  
Potatoes: 105 mm

Moisture Deficit Wheat: 109 mm  
Potatoes: 102 mm

Moisture Balance Wheat: -16 mm  
Potatoes: +3 mm

Droughtiness Grade: 3A (to 70 cm)

Final ALC Grade: 3b

Main Limiting Factor(s): Wetness

Remarks:

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 814 mm			PARENT MATERIAL		
Poltimore		Pit 4		1° North		CER		ATO: 1545°			Lower Sandstone		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 171			TOPSOIL SAMPLE		
109/93		22/12/93		ASP 204 SX 967 951		GMS/HLJ		Climatic Grade: 1			RPT/GMS 331		
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	45	2.5YR46	SCL/MCL	>1% HR >2cm 4% HR >2mm 4% HR Total sieved/displ	None					Common fine	None	None	Gradual smooth
2	120+	2.5YR36	MCL	8% HR >2mm Sieved/displ	None	MCSAB	Good	Moderate	Friable	Few fine	None	None	

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 150 mm

Potatoes: 115 mm

Moisture Deficit Wheat: 109 mm

Potatoes: 102 mm

Moisture Balance Wheat: +41 mm

Potatoes: +13 mm

Droughtiness Grade: 1

Final ALC Grade: 1

Main Limiting Factor(s):

Remarks:

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 814 mm			PARENT MATERIAL		
Poltimore		Pit 5		2° North		Ley		ATO: 1545°			Lower Sandstone		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 171			TOPSOIL SAMPLE		
109/93		22/12/93		ASP 216 SX 970 950		G Clark/GMS		Climatic Grade: 1			RPT/GMS 329		
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	25	05YR44	MSL	4% HR wet sieve	None	-	>0.5%	-	-	Many fine and v fine		None	Clear/ smooth
2	60	05YR34	FSL	2% HR wet sieve	None	MC/VCSAB	>0.5%	Moderate	Friable	Common fine and v fine		None	Clear/ smooth
3	85	2.5YR46	LFS	None	None	WCSAB	>0.5%	Moderate	V friable	Common fine and v fine		None	Clear/wavy
4	85+	2.5YR46	LFS with clay lenses	None	None	WCSAB matrix MCSAB clay lenses	>0.5%	Moderate Moderate	V Friable Firm	Few v fine		None	

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 176 mm

Potatoes: 118 mm

Moisture Deficit Wheat: 109 mm

Potatoes: 102 mm

Moisture Balance Wheat: +67 mm

Potatoes: +16 mm

Droughtiness Grade: 1 (to 120 cm)

Final ALC Grade: 1

Main Limiting Factor(s): None.

Remarks:

Textures by PSD analysis.

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 814 mm			PARENT MATERIAL		
Poltimore		Pit 6		0°		PGR		ATO: 1545°			Alluvium		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 171			TOPSOIL SAMPLE		
109/93		22/12/93		ASP 40 SX 965 963		G Clark/GMS		Climatic Grade: 1			RPT/GMS/335		
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	30	7.5YR44	ZC	1% MSST visual est	None	-	>0.5%	-	-	Many fine and v fine		None common	Clear/ smooth
2	50	7.5YR64	C	3% MSST visual est	7.5YR58 common	MCSAB	<0.5%	Mod	Firm	Common fine/v fine			
3	85+	10YR62 Ped - 75YR63	C	10% MSST inc with depth, visual est	10YR58 MDOM	W adherent C/(VC)SAB	<0.5%	Poor	Firm	Common fine/v fine		Many	-

Profile Gleyed From: 30

Depth to Slowly Permeable Horizon: 50

Wetness Class: III

Wetness Grade: 4

Available Water Wheat: 105 mm

Potatoes: 106 mm

Moisture Deficit Wheat: 109 mm

Potatoes: 102 mm

Moisture Balance Wheat: -4 mm

Potatoes: +4 mm

Droughtiness Grade: 3A (to 85 cm)

Final ALC Grade: 4

Main Limiting Factor(s): Wetness

Remarks:

Placed in 3B unit.

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 814 mm			PARENT MATERIAL		
Poltimore		Pit 7		1° South		Permanent grass		ATO: 1545°			Alluvium		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 171			TOPSOIL SAMPLE		
109/93		22/12/93		ASP 93 SX 973 959		HLJ/GMS		Climatic Grade: 1			RPT/GMS 332		
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	20	5YR43	FSL	3% >2 2% <2 Total 5% HR visual	None					Many fine v fine	-	-	Smooth sharp
2	50	5YR44	FSL	5% HR visual	None	MCAB	Poor	Mod	Friable	None	None	None	Wavy abrupt
3	75	7.5YR42	MSL	0% visual	None	MCAB	Poor	Mod	Friable	None	None		
4	85	10YR42	Org MZCL	0% visual	None	MCSAB		Mod	Friable	None	None	None	
5	85+	10YR52	Org MZCL	0%	Many	MCAB	Poor	Mod	Friable	None	None	None	

Profile Gleyed From: 85 cm

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 158 mm

Potatoes: 116 mm

Moisture Deficit Wheat: 109 mm

Potatoes: 102 mm

Moisture Balance Wheat: +49 mm

Potatoes: +14 mm

Droughtiness Grade: 1 (to 120 cm)

Final ALC Grade: 1

Main Limiting Factor(s):

Remarks:

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall:		PARENT MATERIAL			
Poltimore		Pit 8		2° North		Permanent grass		814 mm		Alluvium			
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		ATO:		TOPSOIL SAMPLE			
109/93		23/12/93		ASP 64 SX 967 961		GMS/HLJ		1545°		RPT/GMS 338			
								FC Days: 171					
								Climatic Grade: 1					
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	28	5YR44	MSL	0% >2 5% >2mm Total 5% sieved/HR displaced	-	-	-	-	-	Common fine	None	None	Abrupt smooth
2	75	5YR46 No pale ped faces	FSL	0% >2 11% >2mm Total 11% HR sieved/displ	None	MCSAB	Good	Mod	Friable	Common v fine	None	Few	Wavy abrupt
3	120+	2.5YR46	FSL	None	None	MCAB	Good	Mod	Friable	Few v fine	None	Few	

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 168 mm

Potatoes: 113 mm

Moisture Deficit Wheat: 109 mm

Potatoes: 102 mm

Moisture Balance Wheat: +59 mm

Potatoes: +11 mm

Droughtiness Grade: 1 (to 120 cm)

Final ALC Grade: 1

Main Limiting Factor(s):

Remarks:

Textures by PSD analysis.



SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 814 mm			PARENT MATERIAL		
Poltimore		Pit 9		0°		PGR		ATO: 1545°			Lower Sandstone		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 171			TOPSOIL SAMPLE		
109/93		23/12/93		ASP 23 SX 969 965		PB/GMS		Climatic Grade: 1			RPT/GMS 341		
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	Pores and Fissures	Structural Condition	Consistence	Roots: Abundance, Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary: Distinctness and form
1	15	7.5YR43	MSL	None	None	-	Good	-	-	MF-M AbVF		None	Clear smooth
2	40	7.5YR53	MSL	20% >2mm Mn concs etc sieve	C wk med 10YR66	MMSAB	Good	Good	Friable	CF-M MVF		Ab-M	Clear smooth
3	70	10YR73	MSL	11% >2mm Mainly Mn concs sieve	C wk med 10YR66	MCSAB	Good	Mod	Friable	FM		Ab	Clear smooth
4	120	7.5YR66	MS	None	None	WCAB	Good	Mod	V friable	FVF		Few	

Profile Gleyed From: 15 cm

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: III

Wetness Grade: 2

Available Water Wheat: 124 mm

Potatoes: 111 mm

Moisture Deficit Wheat: 109 mm

Potatoes: 102 mm

Moisture Balance Wheat: +15 mm

Potatoes: +9 mm

Droughtiness Grade: 2

Final ALC Grade: 2

Main Limiting Factor(s): Wetness

Remarks: