

SITE NAME		PROFILE NO.	SLOPE AND ASPECT	LAND USE	Av Rainfall: 791 mm	PARENT MATERIAL	
Clyst St Mary		Pit 1	3° N	FLW	ATO: 1547 day °C	Lower Sandstone	
JOB NO.		DATE	GRID REFERENCE	DESCRIBED BY	FC Days: 168	SOIL SAMPLE REFERENCES	
113/94		12/10/94	ASP 32-33 SX 975 913	PB/HLJ	Climatic Grade: 1	HLJ 72	
					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	28	MSL	5YR43	1% >2cm (S) 5% <2cm (S+D) 6% HR	0	0	-	-	-	Good	MF, VF	-	Clear smooth
2	60	MSL	5YR54	5% >2cm (S) 9% <2cm (S+D) 14% HR	0	F	WCSAB	Friable	Good	Good	FF	-	Clear smooth
3	90+	LMS	2.5YR58	0	0*	0	WCSAB	V Friable	Good	Good	FF	-	Ab smooth

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

NL336k

Available Water Wheat: 132 mm

Potatoes: 102 mm

Moisture Deficit Wheat: 111 mm

Potatoes: 105 mm

Moisture Balance Wheat: +21 mm

Potatoes: -3 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Droughtiness

Remarks:

*Some colour variation H3

SITE NAME Clyst St Mary		PROFILE NO. Pit 2	SLOPE AND ASPECT 0°	LAND USE PGR	Av Rainfall: 791 mm ATO: 1547 day °C	PARENT MATERIAL Alluvium	
JOB NO. 113/94		DATE 12/10/94	GRID REFERENCE SX 972 913	DESCRIBED BY PB/HLJ	FC Days: 168 Climatic Grade: 1 Exposure Grade: 1	SOIL SAMPLE REFERENCES PRT/HLJ 74	

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	10	MZCL	7.5YR43	0%	RRC	none	-	-	-	Good	VMF+VF	-	Clear smooth
2	35	C	7.5YR54 (7.5YR73)	0%	MDFO 2.5YR48	Few	MCPPr	Firm	Poor	Poor	CVF	-	Gradual smooth
3	85+	C	7.5YR72 (7.5YR71)	0%	MDMO 7.5YR58	Common	MCPPr	Firm	Poor	Poor	CVF	-	-

Profile Gleyed From: 10 cm

Depth to Slowly Permeable Horizon: 10 cm

Wetness Class: IV

Wetness Grade: 3b

NL336k

Available Water Wheat: 104 mm

Potatoes: 97 mm

Moisture Deficit Wheat: 112 mm

Potatoes: 106 mm

Moisture Balance Wheat: -8 mm

Potatoes: -9 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 3b

Main Limiting Factor(s): We

Remarks:

PSD to 25 cm = Clay

SITE NAME Clyst St Mary		PROFILE NO. Pit 3	SLOPE AND ASPECT 2° S	LAND USE BRA	Av Rainfall: 791 mm ATO: 1547 day °C	PARENT MATERIAL Lower Sandstone
JOB NO. 113/94		DATE 12/10/94	GRID REFERENCE SX 973 929	DESCRIBED BY PB/HLJ	FC Days: 168 Climatic Grade: 1 Exposure Grade: 1	SOIL SAMPLE REFERENCES RPT/HLJ/73

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	LMS	7.5YR33	1% HR (vis)	none	none	-	-	-	Good	CF+VF	-	Clear smooth
2	60	LMS	7.5YR44	1% HR (S)	none	none	WCSAB	V Friable	Good	Good	FF+VF (in root channels)	-	Clear irregular
3	95+	LMS	7.5YR66	0% (vis)	FDFO 7.5YR58 (at top of horizon)	none	WCSAB	Fr	Good	Good	none	-	-

Profile Gleyed From: N/A

Depth to Slowly Permeable Horizon: N/A

Wetness Class: I

Wetness Grade: 1

NL336k

Available Water Wheat: 107 mm

Potatoes: 76 mm

Moisture Deficit Wheat: 111 mm

Potatoes: 105 mm

Moisture Balance Wheat: -4 mm

Potatoes: -22 mm

Droughtiness Grade: 3a (Calculated to 120 cm)

Final ALC Grade: 3a

Main Limiting Factor(s): Droughtiness

Remarks:

Colour variation in horizon 3.

SOIL PLASTICITY RECORDING SHEET

ANNEX 2

SITE DATA

<u>Grid Ref</u>	<u>Site Name</u> Farrington	<u>LPA</u> E Devon
<u>AAR</u> 791	<u>ATO</u> 1547	<u>FCD</u> 168
	<u>MD (wheat)</u> 111	<u>MD (potatoes)</u> 105

SOIL PIT DATA

<u>PIT FOUR</u> SX 988 920 SOIL SERIES Bridgnorth				<u>PIT FIVE</u> SY 002 918 SOIL SERIES Whimple 3			<u>PIT SEVEN</u> SY 019 906 SOIL SERIES Whimple 3		
DEPTH	TEXTURE	PLASTIC Y/N	COMMENTS	TEXTURE	PLASTIC Y/N	COMMENTS	TEXTURE	PLASTIC Y/N	COMMENTS
10 cm	MSL	N	Ball no worm	MCL	N		MCL	N	No ball
20 cm	MSL	N	"	MCL	N		MCL	N	"
30 cm	MSL	N	"	MSL	N		HCL	N	"
40 cm	MSL	N	"	MSL	N		HCL	N	"
50 cm	MSL	N	"	C	N		HCL	N	Ball no worm
60 cm	MSL	N	"	C	N		HCL	N	"

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SOIL PLASTICITY RECORDING SHEET

ANNEX 2

SITE DATA

<u>Grid Ref</u>	<u>Site Name</u> Farrington 110/94	<u>LPA</u> E Devon
<u>AAR</u> 791	<u>ATO</u> 1547	<u>FCD</u> 168
	<u>MD (wheat)</u> 111	<u>MD (potatoes)</u> 105

SOIL PIT DATA

<u>PIT ONE</u> SY 003 925			<u>PIT ELEVEN</u> SX 9935 9100			<u>PIT THREE</u>			
SOIL SERIES Whimble 3			SOIL SERIES Whimble 3			SOIL SERIES Whimble 3			
DEPTH	TEXTURE	PLASTIC Y/N	COMMENTS	TEXTURE	PLASTIC Y/N	COMMENTS	TEXTURE	PLASTIC Y/N	COMMENTS
10 cm	HCL	N	No ball	C	N	No ball	HCL	N	No worm
20 cm	HCL	N	"	C	N	"	HCL	N	No ball
30 cm	C	N	"	C	N	Ball, no worm	C	N	"
40 cm	C	N		C	N	"	C	N	"
50 cm	C	N		C	N	"	C	N	"
60 cm	C	N	No ball	C	N	"	C	N	"

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