

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 781			PARENT MATERIAL		
Lympstone		Pit 5		4° W		Grass ley		ATO: 1562			Exmouth Mudstone		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 165					
110/93		20/1/94		ASP 15		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	35	>5YR44	MCL	2% HR estimate	-	-	-	-	-	Many fine	none	none	Gradual/ smooth
2	120	75YR46	MSL	15% HR mainly >2cm	-	MDCSAB	V porous earth worm	M	Friable	Common	none	Common many below 45cm	

Profile Gleyed From: -

Depth to Slowly Permeable Horizon: -

Wetness Class: 1

Wetness Grade: 1

Available Water Wheat: 141

Potatoes: 107

Moisture Deficit Wheat: 110

Potatoes: 105

Moisture Balance Wheat: 32

Potatoes: 4

Droughtiness Grade: 2

Final ALC Grade: 2

Main Limiting Factor(s): Drought

Remarks:

Water table at 70 cm

SITE NAME Lympstone		PROFILE NO. Pit 4	SLOPE AND ASPECT 4° West		LAND USE PGR		Av Rainfall: 781 ATO: 1562 FC Days: 165 Climatic Grade: 1		PARENT MATERIAL Exmouth Mudstone TopSoil Sample Reference RFT/NAD <del>139</del> <sup>139 (changed due to duplication in numbering).</sup>			
JOB NO. 110/93		DATE 20/1/94	GRID REFERENCE ASP 167 SX 998 826		DESCRIBED BY HLJ/NAD							

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	14	0.5YR44	HCL	<1% >2cm HR (visual)	None	-	-	-	-	Many fine + very fine	none	none	Abrupt smooth
2	24	2.5YR46	HCL/C	5% HR Total (visual)	None	MCSAB	Good	M	Friable	Common fine	None	Few	Clear wavy
3	80+	2.5YR44 Ped faces are 2.5YR54	C	<1% HR Total (visual)	None	MCP	<0.5%	P	Very firm	Common fine (between peds)	None	Common	-

Profile Gleyed From: 24  
Depth to Slowly Permeable Horizon: 24  
Wetness Class: IV  
Wetness Grade: 3B

Available Water Wheat: 122 mm  
Potatoes: 99 mm  
Moisture Deficit Wheat: 110 mm  
Potatoes: 105 mm  
Moisture Balance Wheat: +12 mm  
Potatoes: -6 mm calculated to 120 cm  
Droughtiness Grade: 2A

Final ALC Grade: 3B  
Main Limiting Factor(s): Wetness

Remarks:

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 781			PARENT MATERIAL		
Lympstone		Pit 3		South 2°		PGR		ATO: 1562			Exmouth Mudstone		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 165					
110/93		19/1/94		ASP 141		R Jackson 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	20	7.5YR43	MCL	1% HR	-	-	-	-	-	Many fine friable	none	none	Gradual/ smooth
2	60	7.5YR44	MCL	12% HR	-	MDCP	>0.5% earthworm	M	Friable	Many fine	none	none	Gradual/ smooth
3	90	7.5YR53	ZC	8% HR		WDCSAB (adherent)	<0.5%	P	Firm	Common fine	none	many	Gradual/ smooth
4	90+	10YR64	C	0%	C Distinct 10YR618	Assume massive	<0.5%	P	Firm	Few fine	none	Common Mn	

Profile Gleyed From: 60

Depth to Slowly Permeable Horizon: 60 cm

Wetness Class: II

Wetness Grade: 2

Available Water Wheat: 131

Potatoes: 104

Moisture Deficit Wheat: 110

Potatoes: 105

Moisture Balance Wheat: 21

Potatoes: -1

Droughtiness Grade: 2

Final ALC Grade: 2

Main Limiting Factor(s): Wetness/Drought

Remarks:

SITE NAME		PROFILE NO.		SLOPE AND ASPECT		LAND USE		Av Rainfall: 781			PARENT MATERIAL		
Lympstone		Pit 2		2° West		Grass ley		ATO: 1562			Exmouth Mudstone		
JOB NO.		DATE		GRID REFERENCE		DESCRIBED BY		FC Days: 165					
110/93		19/1/93		Nr ASP 106		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	35	10YR43	MSZL	3% >2cm 2% <2cm 5% HR (estimate)	-	-	-	-	-	Many fine	-	-	Clear/ smooth
2	50	7.5YR54	HZCL	40% HR (ed)	cdom below 40 cm (2.4YR48)	WDCSAB	Well fissured	M	Friable	Common fine		few fine	Gradual/ smooth
3	120	5YR46	C	15% HR	2.5YR48 many distinct	WDCSAB	few pores	P	Friable	Common fine		Common	

Profile Gleyed From: 50

Depth to Slowly Permeable Horizon: 50

Wetness Class: III

Wetness Grade: 2

Available Water Wheat: 118

Potatoes: 98

Moisture Deficit Wheat: 110

Potatoes: 105

Moisture Balance Wheat: +8

Potatoes: -7

Droughtiness Grade: 2

Final ALC Grade: 2

Main Limiting Factor(s): Wet

Remarks:

Pit dug to 90cm water table at 70cm

SITE NAME		PROFILE NO.	SLOPE AND ASPECT		LAND USE		Av Rainfall: 781			PARENT MATERIAL			
Lympstone		Pit 1	0		Ley		ATO: 1562			Exmouth Mudstone			
JOB NO.		DATE	GRID REFERENCE		DESCRIBED BY		FC Days: 165			Climatic Grade: 1			
110/93		19/1/93	ASP 87		N A Done + H L Jones								
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	7.5YR34	MSL	Est 3% HR	none	-	-	-	-	Many fine	none	none	Clear/ smooth
2	55	7.5YR46	MSZL	20% >2cm 36% <2cm 56% Total HR sieved	none	WDCSAB	Many pores	M	Friable	Common fine	none	none	Gradual/ smooth
3	80	7.5YR44	MSL	4% >2cm 21% <2cm 25% Total HR sieved + displaced		WDCSAB	Many pores	W	Friable	Common fine	-	Few	Clear/ smooth
4	120	0.5YR46	SCL	25% Total HR	None	WDCSAB	Well fissured	M	Friable	Few fine		C	

Profile Gleyed From: 80

Depth to Slowly Permeable Horizon:

Wetness Class: 1

Wetness Grade: 1

Available Water Wheat: 119

Potatoes: 91

Moisture Deficit Wheat: 110

Potatoes: 105

Moisture Balance Wheat: +9

Potatoes: -14

Droughtiness Grade: 3a

Final ALC Grade: 3A

Main Limiting Factor(s): Drought

Remarks:

SITE NAME Lympstone		PROFILE NO. 6	SLOPE AND ASPECT 0° East		LAND USE PP		Av Rainfall: 781 ATO: 1562 FC Days: 165 Climatic Grade: 1			PARENT MATERIAL Exmouth Mudstone			
JOB NO. 110/93		DATE 20/1/94		GRID REFERENCE ASP 14197		DESCRIBED BY R Jackson G M Shaw							
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	10YR4/3	MSL	5% HR	-	-	-	-	Friable	Few fine + v fine	none	no	Clear smooth
2	45	75YR54	HCL	8% HR	-	MDCSAB	70.5%	M	Friable	Few fine + v fine	none	no	Abrupt smooth
3	85	5YR574	C	10%	-	MDCSAB	good	M	Friable	Few fine	none	no	Clear smooth
4	120	5YR573	C	0%	2.5YR4/4	WCSAB	<0.5%	P	Firm	none	none		

Profile Gleyed From: -

Depth to Slowly Permeable Horizon: 85cm

Wetness Class: 1

Wetness Grade: 1

Available Water Wheat: 127

Potatoes: 106

Moisture Deficit Wheat: 110

Potatoes: 105

Moisture Balance Wheat: 17

Potatoes: 1

Droughtiness Grade: 2

Final ALC Grade: 2

Main Limiting Factor(s): Drought

Remarks: