

SITE NAME		PROFILE NO.	SLOPE AND ASPECT		LAND USE		Av Rainfall: 787 mm		PARENT MATERIAL			
Rockbere		Pit 1	0°		Grass Ley		ATO: 1557 day °C		Marls & Sandstone			
JOB NO.		DATE	GRID REFERENCE		DESCRIBED BY		FC Days: 167		SOIL SAMPLE REFERENCES			
84/94		13/7/94	SY 011 955		N A Done		Climatic Grade: 1		T/S NAD 143			
							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	7.5YR44	4% HR Visual est	-	-	-	-	-	G	M Fine	-	Clear/ smooth
2	55	C	2.5YR46 (2.5YR44)	None	cdom 5YR58	None	MDCAB	Firm	P	P (occ. large earth worm channels)	C Fine	-	Gradual/ smooth
3	80+	C	2.5YR44 + 46	-	ffom + fd pale mottles 5Y56	Common	Marl parent material	Friable	M	(Well fissured)	V. Few	-	

Profile Gleyed From: 25  
Depth to Slowly Permeable Horizon: 25  
Wetness Class: III  
Wetness Grade: 3a

Available Water Wheat: 131 mm  
Potatoes: 106 mm  
Moisture Deficit Wheat: 111 mm  
Potatoes: 105 mm  
Moisture Balance Wheat: +20 mm  
Potatoes: +1 mm  
Droughtiness Grade: 2 (Calculated to 120 cm)

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

Remarks:  
V. dry to 40 cm.

NL3361

SITE NAME		PROFILE NO.	SLOPE AND ASPECT		LAND USE		Av Rainfall: 787 mm		PARENT MATERIAL			
Rockbere		Pit 2	2° N		PGR		ATO: 1557 day °C		Marls and Sandstones			
JOB NO.		DATE	GRID REFERENCE		DESCRIBED BY		FC Days: 162		SOIL SAMPLE REFERENCES			
84/94		13/7/94	ASP 8: SY 013 957		PB/NAD		Climatic Grade: 1		T/S PB 156 T/3 NAD 144			
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	MSZL	75YR43	1% >2cm (vis) 9 <2cm (vis) 10 HR	FFFOM	0	-	-	-	G	MF	0	Clear/ Smooth
2	65	HCL	05YR54 (05YR53)	1% >2cm (S) 14% <2cm (S+D) 15 HR	CDMOM	C	MCSAB	Fm	M	G	CF	0	Grad/ smooth
3	95+	SCL	25YR46 (05YR54)	15% HR/vis	CDFOM	M	MCAB	Fr	M	G	FF	0	

Profile Gleyed From: 25

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: II

Wetness Grade: I

NL336j

Available Water Wheat: 135 mm

Potatoes: 102 mm

Moisture Deficit Wheat: 111 mm

Potatoes: 105 mm

Moisture Balance Wheat: +24 mm

Potatoes: -3 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Drought

Remarks:

SITE NAME Rockbere		PROFILE NO. Pit 3	SLOPE AND ASPECT 3° W	LAND USE Barley	Av Rainfall: 787 mm ATO: 1557 day °C	PARENT MATERIAL Marls & Sandstone	
JOB NO. 84/94		DATE 14/7/94	GRID REFERENCE SY 005 451	DESCRIBED BY GMS HLJ	FC Days: 167 Climatic Grade: 1 Exposure Grade: 1	SOIL SAMPLE REFERENCES T/S GMS 423	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Cones	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	20	MCL	5YR43	1% HR >2cm 4% HR <2cm 5% HR Total (S)	None	None	-	-	-	G	FF	None	Abrupt/ smooth
2	90	C	2.5YR46 (2.5YR54)	0%	FFFO	C	SCP <sub>r</sub>	VM	P	P	FF	None	Abrupt/ smooth
3	120	C	2.5YR44	0%	None	F	-	-	P (Assumed)	P	None	None	-

Profile Gleyed From: N/A  
Depth to Slowly Permeable Horizon: 20 cm  
Wetness Class: III  
Wetness Grade: 3a

NL336j

Available Water Wheat: 122 mm  
Potatoes: 99 mm  
Moisture Deficit Wheat: 111 mm  
Potatoes: 105 mm  
Moisture Balance Wheat: 11 mm  
Potatoes: -6 mm  
Droughtiness Grade: 2 (Calculated to 120 cm)

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

Remarks:  
H3 is Keuper Marl parent material.

SITE NAME Rockbere		PROFILE NO. Pit 4	SLOPE AND ASPECT 0°	LAND USE Ley	Av Rainfall: 787 mm ATO: 1557 day °C		PARENT MATERIAL Alluvium					
JOB NO. 84/94		DATE 14/7/93	GRID REFERENCE ASP 77 SY 015 949	DESCRIBED BY NAD/PB	FC Days: 167 Climatic Grade: 1 Exposure Grade: 1		SOIL SAMPLE REFERENCES T/S PB 157					

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	30	C	75YR44	10% HR (Vis)	0	F	-	-	-	G	MF	0	Clear/ smooth
2	55	C	75YR43	10% HR (Vis)	CDFOM	F	MCSAB	Fm	M	G	CF	0	Clear/ smooth
3	90	SC	75YR42	25% >2cm (S) 17% <2cm (S+D) 42% HR	FFFOM	0	WCSAB	Fr	M	P	CF	0	Abrupt/ smooth
4	95+	C	25YR46	10% HR Vis	MDFO and GM	C	WCSAB	FM	P	P	Fr	0	

Profile Gleyed From: 55cm

Depth to Slowly Permeable Horizon: 90cm

Wetness Class: I

Wetness Grade: 3a

NL336i

Available Water Wheat: 119 mm

Potatoes: 96 mm

Moisture Deficit Wheat: 111 mm

Potatoes: 105 mm

Moisture Balance Wheat: +8 mm

Potatoes: -9 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 3a

Main Limiting Factor(s): Workability

Remarks:

SITE NAME Rockbere		PROFILE NO. Pit 5	SLOPE AND ASPECT 3° W	LAND USE Maize	Av Rainfall: 787 mm ATO: 1557 day °C	PARENT MATERIAL Marls & Sandstone	
JOB NO. 84/94		DATE 15/7/94	GRID REFERENCE ASP 104 SX 999 944	DESCRIBED BY GMS	FC Days: 167 Climatic Grade: 1 Exposure Grade: 1	SOIL SAMPLE REFERENCES H3 GMS 425 H2 GMS 426 T/S GMS 429	

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	30	MSL	5YR43	<1% HR >2cm 2% HR >2mm 2% HR Total (S+D)	none	none	-	-	-	Good	FVF	none	Clear/ smooth
2	63	MSL	5YR44	<1% HR >2cm 4% HR >2cm 4% HR Total (S+D)	none	none	MCAB	F	M	Good	FVF	none	Clear/ smooth
3	120	LFS	2.5YR46	0% Visual	none	none	MCSAB breaking into MMSAB	VF	G	Good	0	none	

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: I

Available Water Wheat: 134 mm

Potatoes: 104 mm

Moisture Deficit Wheat: 111 mm

Potatoes: 105 mm

Moisture Balance Wheat: 23 mm

Potatoes: -1 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Droughtiness

Remarks:

SITE NAME Rockbere		PROFILE NO. Pit 6	SLOPE AND ASPECT 0°	LAND USE PGR	Av Rainfall: 787 mm ATO: 1557 day °C	PARENT MATERIAL Marls & Sandstones	
JOB NO. 84/94		DATE 15/7/94	GRID REFERENCE SY 008 944	DESCRIBED BY GMS HLJ	FC Days: 167 Climatic Grade: 1 Exposure Grade: 1	SOIL SAMPLE REFERENCES T/S GMS 428 H2 GMS 427	

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	SCL	7.5YR44	<1% HR >2cm 2% HR <2cm 3% HR Total (S)	None	F	-	-	-	G	CVF	None	Gradual smooth
2	75	MCL	05YR46	5% HR Total (Vis)	None	C	MCSAB	FR	M	G	FVF	None	Clear wavy
3	95+	C	2.5YR44 (05YR54/64)	0% (Vis)	FFFO+G	C	WCSAB + MCAB	Fm	P	P	FVF	None	-

Profile Gleyed From: 75  
 Depth to Slowly Permeable Horizon: 75  
 Wetness Class: II  
 Wetness Grade: 2

Available Water Wheat: 135 mm  
 Potatoes: 110 mm  
 Moisture Deficit Wheat: 111 mm  
 Potatoes: 105 mm  
 Moisture Balance Wheat: 24 mm  
 Potatoes: 5 mm  
 Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 2  
 Main Limiting Factor(s): Wetness

Remarks:

SITE NAME Rockbere		PROFILE NO. Pit 7	SLOPE AND ASPECT 4°S	LAND USE Ley	Av Rainfall: 787 mm ATO: 1557 day °C	PARENT MATERIAL Marls & Sandstone	
JOB NO. 64/94		DATE 15/7/94	GRID REFERENCE ASP 133 SY 009 942	DESCRIBED BY N A Done + P Barnett	FC Days: 167 Climatic Grade: 1 Exposure Grade: 1	SOIL SAMPLE REFERENCES NAD 145	

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	20	HCL	75YR44	5% HR Vis	0	0	-	-	-	G	MF	0	Clear/ smooth
2	30	C	25YR46 (25YR54)	0%	CDFPM	C	MVCPr	VFm	P	P	CF	0	Clear/ smooth
3	80+	C	25YR36 (25YR54) (05Y64)	0%	CDFOM	C	WCSAB	Fr	M	P	CF	0	

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: 20cm

Wetness Class: 4

Wetness Grade: 3b

NL336j

Available Water Wheat: 129 mm

Potatoes: 105 mm

Moisture Deficit Wheat: 111 mm

Potatoes: 105 mm

Moisture Balance Wheat: 18 mm

Potatoes: 0 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 3b

Main Limiting Factor(s): We

Remarks: