SHROPSHIRE STRUCTURE PLAN SHIFNAL LAND EAST OF PARK LANE

RPT Reference: 25/RPT/0954 & 062/98

MAFF Reference: EL35/11859

Agricultural Land Classification ALC Map and Report

June 1999

Resource Planning Team Northern Region FRCA Wolverhampton

AGRICULTURAL LAND CLASSIFICATION REPORT

SHROPSHIRE STRUCTURE PLAN SHIFNAL, LAND EAST OF PARK LANE

INTRODUCTION

- 1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of 6.4 ha of land east of Park Lane, to the south of Shifnal. The survey was carried out in May 1999.
- 2. The survey was undertaken by the Farming and Rural Conservation Agency (FRCA)¹ on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF). This survey was carried out in connection with MAFF's statutory input to the Shropshire Structure Plan. This survey supersedes any previous ALC information for this land.
- 3. The work was conducted by members of the Resource Planning Team in the Northern Region of FRCA. The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF, 1988). A description of the ALC grades and subgrades is given in Appendix I.
- 4. At the time of survey the site was under grass.

SUMMARY

- 5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:10 000. It is accurate at this scale but any enlargement would be misleading.
- 6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1.

Table 1: Area of grades and other land

Grade/Other land	Area (hectares)	% Total agricultural land area	% Total survey area
1	-	-	-
2	-	-	-
3a	2.9	52	45
3b	2.7	48	42
4	-	-	-
5	-	-	-
Agricultural land not surveyed	-		-
Other land	0.8	-	13
Total agricultural land area	5.6	100	-
Total survey area	6.4	-	100

¹ FRCA is an executive agency of MAFF and the Welsh Office

- 7. The fieldwork was conducted at an average density of 1 boring per hectare of agricultural land. In total 6 borings and 1 soil pit were described.
- 8. The agricultural land on this site has been classified as Subgrade 3a (good quality) and Subgrade 3b (moderate quality). The principal limitation to the agricultural use of this land is soil wetness.
- 9. Land of good quality (Subgrade 3a) is found on the slightly higher ground around the edge of the site (excluding the site's northern boundary). Soil wetness is the main limitation to the agricultural use of this land.
- 10. Land of moderate quality (Subgrade 3b) is found on the slightly lower land across the middle of the site. Soil wetness is the main limitation to the agricultural use of this land.

FACTORS INFLUENCING ALC GRADE

Climate

- 11. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.
- 12. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5km grid datasets using the standard interpolation procedures (Met. Office, 1989).

Factor Values Units Grid reference N/A SJ750069 Altitude m, AOD 95 Accumulated Temperature day°C (Jan-June) 1378 Average Annual Rainfall 730 mm Field Capacity Days 174 days Moisture Deficit, Wheat 93 mm Moisture Deficit, Potatoes mm 81 Overall climatic grade Grade 1 N/A

Table 2: Climatic and altitude data

- 13. The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions.
- 14. The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR), as a measure of overall wetness, and accumulated temperature (ATO, January to June), as a measure of the relative warmth of a locality.
- 15. The combination of rainfall and temperature at this site mean that there is no overall climatic limitation. The site is climatically Grade 1.

Site

16. The site lies at an altitude of 95m AOD. Slightly lower lying ground lies down the centre of the site. The site is bordered to the west by Park Lane and associated dwellings, to the north up The Uplands, and to the west by Beech House and agricultural land. Areas marked as 'Other Land' include gardens associated with Beech House, a small pond, and an area of scrubby woodland along the field boundary to the north-east of the pond.

Geology and soils

- 17. Lower Mottled Sandstone comprises the underlying solid geology for this area (BGS, 1958). The overlying drift comprises boulder clay (BGS, 1959).
- 18. The most detailed published soils information for this area (SSEW, 1983 & 1984) maps the soils as being the 'typical stagnogley soils' of the Clifton association.
- 19. Upon detailed field examination, soil profiles broadly similar to the descriptions of the above association were found.

AGRICULTURAL LAND CLASSIFICATION

20. The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1, page 1.

Subgrade 3a

- 21. Land of good quality occupies 2.9 ha (45%) of the total survey area, and is found along the site's western and south-eastern boundaries. The principal limitation to the agricultural use of this land is soil wetness.
- 22. Within the Subgrade 3a mapping unit, soils comprise stoneless or very slightly stony medium clay loam topsoils, which overlie stoneless or very slightly stony sandy clay loam upper subsoils, and heavy clay loam lower subsoils. In the north of the mapping unit, medium sandy loam lower subsoil horizons were also recorded. Observed depths of gleying and the slowly permeable layer in relation to the local climatic regime, place these soils into either Wetness Classes II and III and Subgrade 3a.

Subgrade 3b

- 23. Land of moderate quality occupies 2.7 ha (42%) of the total survey area, and is found on the lower lying ground through the middle of the site. The principal limitation to the agricultural use of this land is soil wetness.
- 24. Within the Subgrade 3b mapping unit, soils comprise very slightly stony medium clay loam topsoils, which overlie very slightly stony sandy clay loam upper subsoils. These overlie heavy clay loam and clay lower subsoils. In the north of the mapping unit, loamy medium sand and medium sand lower subsoil horizons were also recorded. All

profiles were gleyed from the surface, and were waterlogged within the upper subsoils, and on the basis of the estimated depth and duration of waterlogging were allocated to Wetness Class IV and Subgrade 3b.

William Fearnehough Resource Planning Team Northern Region FRCA Wolverhampton

SOURCES OF REFERENCE

British Geological Survey (1958) Sheet No. 153, Wolverhampton. Solid Edition (1:63630). BGS: London.

British Geological Survey (1959) Sheet No. 153, Wolverhampton. Drift Edition (1:63630). BGS: London.

Ministry of Agriculture, Fisheries and Food (1988) Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land.

MAFF: London.

Met. Office (1989) Climatological Data for Agricultural Land Classification.

Met. Office: Bracknell.

Soil Survey of England and Wales (1983) Sheet 3, Soils of Midland and Western England. (1:250 000).

SSEW: Harpenden.

Soil Survey of England and Wales (1984) Soils and their use in Midland and Western England.

SSEW: Harpenden.

06298wf.doc 5 28/07/99

APPENDIX I

DESCRIPTIONS OF THE GRADES AND SUBGRADES

Grade 1: Excellent Quality Agricultural Land

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

Grade 2: Very Good Quality Agricultural Land

Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural or horticultural crops can usually be grown but on some land of this grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1 land.

Grade 3: Good to Moderate Quality Land

Land with moderate limitations which affect the choice of crops, the timing and type of cultivation, harvesting or the level of yield. When more demanding crops are grown, yields are generally lower or more variable than on land in Grades 1 and 2.

Subgrade 3a: Good Quality Agricultural Land

Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

Subgrade 3b: Moderate Quality Agricultural Land

Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass, or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

Grade 4: Poor Quality Agricultural Land

Land with severe limitations which significantly restrict the range of crops and/or the level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

Grade 5: Very Poor Quality Agricultural Land

Land with severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

					10TTLES		PED			-STO	NES-		STRUCT	/ SU	BS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2 >	-6 L	ITH T	тот	CONSIST	r st	r por	IMP	SPL CALC	
1	0-26	lms	75YR34 00						0	0 н	२	1						
	26-60	lms	25YR34 00						0	0 н	₹	1		М				
	60-70	ms	25YR34 00							0 н		1		М				
1P	0-31	scl	10YR42 00						2	0 H	२	5						
	31-43	scl	75YR52 00	75YR56	5 00 C			Y	0	O H	R	3	MDCAB	FR M				
	43–67	hcl	25YR34 52					Υ	0	0 H	R	1	MDCPR	FM P				
	67–100	hc1	25YR36 54					Υ	0	0 H	R	1	MASS	FM P	Υ		Y	MN concretions
2	0-30	lms	75YR33 00						0	0 H	D	3						
۲	30-65	ms	10YR56 00							0 H		1		М				
	65-70	ms	10YR56 00						ō	0 H		1		М				
	70-80	scl	05YR46 00						0	0		0		M				
	70-00	301	05110.00						•	•		•		•				
2P	0-31	mc1	10YR33 00						0	0 H	R	2						
	31-53	scl	75YR43 00						0	0 н	R	2	MDCAB	FR M				
	53-88	lms	75YR46 00						0	0 H	R	2	MDCAB	FR G				
=	88-120	hc1	05YR44 00	75YR58	3 00 C			Y	0	0 H	R	1	WKMPL	FM P	Υ		Υ	
_		_	~~~~						_	•		_						
3	0-36	ms1	75YR42 00	05.4056						0 H		5						
	36-56	lms	05YR53 54	USYKS	3 UU F					0 H		2		M				
	56-75	lcs	05YR44 00	05,405						0 H	٠ ١	5		М				
	75–110	ms	05YR53 00	USYRS	3 00 C			Y	0	0		0		М				
3P	0-32	msl	10YR32 00						0	0 H	R	5						
	32-50	msl	75YR44 43						0	0 H	R	5	MDMSAB	FR G				
	50-65	lms	75YR43 00						0	0 H	R	5	MDMSAB	FR G				
	65–120	ms	75YR56 00						0	0 H	R 2	0	WKMSAB	VF M				
									_		_	_						
4	0-35	lms	75YR42 00	10,4000						0 H		3						
	35-47	1ms	10YR63 00					Y		0		0		M				00: 1.67
	47-80	hc1	05YR54 00					Y		0 H		5		P				SPL at 67cm as in 1P
	80–110	hc1	05YR44 58	U5YR58	3 00 C			Y	Ü	0 H	Κ	5		Р	Υ		Υ	
5	0-34	msl	75YR32 00						0	0 н	ર	5						
-	34-65	msl	75YR44 00						0	0 н	₹	2		M				
	65–80	lms	10YR56 00	10YR56	00 C			γ	0	0 H		1		М				
	80-90	scl	75YR54 00					Υ	0	0 н	र	1		М				

					MOTTLES	; 	- PED		-		-STON	ES	- STRUCT/	SUBS	3								
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	. COL.	GLI	EY >	>2	>6 LI	TH T0	CONSIST	STR	POR	IMP	SPL (CALC					
6	0-45	msl	10YR33 00							0	0 HR	5											
	45–90	scl	75YR44 00							0	0 HR	5		M									
	90–100	hc1	05YR46 00							0	0 HR	1		P									
		_								_		_											
7	0-30	scl	75YR32 00							0	0 HR												
	30-45	scl	75YR43 00				75YR54		,		O HR			M									
	45-70	scl	05YR54 00	001110	0.00		05YR53				0 HR			M									
	70~100	hcl	05YR46 00	UUMNU	0 00			·	4	Ų	0 HR	1		Р	Υ		Υ						
8	0-29	msl	75YR32 00							۵	0 HR	1											
_	29-50	lms	75YR43 00							0	0 HR			М									
	50-110	ms	75YR44 00							0		0		M									
~))		, , , , , , , , , , , , , , , , , , , ,							Ī		·		•••									
9	/ 0-27	scl	75YR32 00							0	0 HR	1											
	27–45	scl	75YR43 00							0	O HR			М									
	45-85	hc1	05YR43 00	10YR5	8 00 F					0	0	0		Р									
	85-100	hc1	05YR44 00	OOMNO	0 00 C			•	1	0	0	0		Р	Υ		Υ						
10	0-23	sc1	75YR43 00							0	0 HR	5											
	23–27	scl	75YR43 56							0	0 HR	2		M									
	27-48	hc1	25YR54 00	05YR5	8 00 C			,	1	0	0	0		P									
	48–55	hc1	25YR54 00					•	1	0	0	0		Р									
_	55–110	hc1	25YR54 00					,	1	0	0	0		Р					SPL a	t 67cm	n as	in 19	
	0.00		754704 00									_											
(")	0-28	scl	75YR34 00								0 HR												
	28-58	sc1	05YR44 00								0 HR			М									
	58–110	hc1	05YR44 00							U	0 HR	5		Р									
11A	0-35	scl	75YR25 01							Λ	O HR	5											
1115	35–46	scl	10YR53 00	10YR5	6 00 C			,			O HR			М									
	46-55	scl	10YR63 00					١			O HR			М									
	55-90	ms1	05YR46 00	101110	0 00 0			,			O HR			M									
	90–110	ms.	05YR46 00								O HR	1		M									
								,		•	•	·		•••									
12	0-35	mcl	75YR42 00							0	0 HR	10											
	35-55	scl	75YR54 00							0	0	0		М									
	55-60	msl	75YR53 00	75YR5	B 00 C			١	1	0	0	0		M									
	60-75	lms	75YR44 00					1	1	0	0	0		М									
	75–90	hc1	75YR44 00					١	,	0	0	0		P	Υ		Y		SPL at	t 67 a	ıs in	1P	

Y 0 0 0 P Y Y MN concretions

•

					MOTTLES	S	PED			5	STONES-		STRUCT/	SUB	S				
SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN	CONT							CONSIST			IMP	SPL	CALC	
		_							_			_							
13	0-37	sc1	75YR32 00) HR	3							
	37-46	lms	10YR53 00					Y) HR	5		M					
	46-65	hc1	05YR54 00	75YR5	8 00 C			Y) HR	3		P					
	65–110	hc1	05YR44 00					Υ	0	C	0	0		Р	Υ		Υ		SPL at 67cm as in 1P
14	0-25	scl	10YR33 00						0	C) HR	3							
	25-35	scl	10YR42 00	10YR5	6 00 C			Υ	0	C) HR	2		M					
	35-50	sc1	05YR46 00					γ	0	C) HR	2		M					
	50-80	С	05YR44 00	OOMNO	0 00 C			Υ	0	C	AH C	1		Ρ	Υ		Υ		
15	0-31	ms1	75YR32 00						0	C) HR	1							
	31-50	ms1	75YR43 00) HR	1		М					
	50-65	lms	75YR43 00) HR	1		М					
	65–105	ms	75YR44 00						0) HR	1		М					
	105-120	lms	75YR44 00) HR	1		М					
16	0-30	mc1	75YR32 00						0	C) HR	1							
	30-60	scl	75YR44 00						0	C) HR	1		M					
	60-75	scl	75YR44 00			(00MN00	00	0	Ç) HR	1		М					
17	0-30	scl	75YR32 00						0	C) HR	1							
	30-50	scl	75YR43 00						0	0		Ó		М					
	50-75	scl	05YR43 00						0	0		0		M					
	75–100	hc1	25YR34 00						0		HR	1		Р					
		_								_		_							
18	0-28	mcl	75YR42 00								HR	5							
	28-33	hcl	05YR54 00					Y	0		HR	2		М					
	33-40	hc1	25YR54 00					Y	0	0		0		М					
	40-65	hcl	25YR54 00	25YR5	R 00 C			Y	0	0		0		Р					
	65–75	hcl	25YR54 00					Y	0	0		0		Р					SPL at 67cm as in 1P
	75–90	hcl	25YR54 00					Y	0	O	HR	5		Р	Y		Υ		
20	0-25	scl	10YR32 00						0	0	HR	8							
	25–110	hc1	25YR44 00	10YR5	B 00 C			Y	0	0)	0		P					SPL at 67cm as in 1P

35-80

hcl

05YR46 00 10YR56 00 C

SPL at 67cm as in 1P

----MOTTLES---- PED ----STONES---- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 21 0-25 10YR32 00 0 0 HR 5 sc1 25-30 ms 1 10YR53 00 10YR58 00 C Y 0 0 HR 2 М 30-45 10YR73 00 10YR68 00 C 0 0 0 ms 45-110 hc1 0 25YR54 00 10YR58 00 C Y 0 0 SPL at 67cm as in 1P 22 0-33 scl 10YR34 00 0 0 HR 33-50 ms l 75YR52 00 75YR56 00 C Y 0 0 HR М 50-75 1ms 05YR46 00 Y 0 0 HR М 75-90 ms 05YR44 00 Y 0 0 HR М 23 0-28 75YR32 00 0 0 HR mcl 28-70 75YR44 00 0 0 HR 2 sc1 P Y Υ 70-100 hc1 05YR44 00 75YR58 00 C Y 0 0 HR 1 24 0-35 mc1 75YR32 00 0 0 HR 5 35-45 sc1 75YR43 53 0 0 HR 3 М 45-100 sc1 05YR44 00 05YR58 00 C Y 0 0 HR 2 SCL / HCL 25 0-30 mc1 75YR32 00 0 0 HR 5 30-60 05YR44 00 75YR58 00 C 00MN00 00 Y 0 0 HR 1 P Y Υ С 0-28 5 26 75YR42 43 5 0 HR scl 28-35 0 0 HR 3 scl 10YR42 43 35-88 hc1 25YR44 00 0 0 HR 2 Ρ 88-110 hc1 25YR44 00 0 0 HR 2 27 0-28 75YR32 00 0 0 HR 5 scl 28-40 scl 05YR42 00 75YR56 00 C Y 0 0 HR 2 40-90 25YR46 00 10YR56 00 C Y 0 0 HR P Y Υ С 0-30 10YR42 00 0 0 HR scl 2 30-42 scl 75YR53 00 75YR56 00 C Y 0 0 HR М 42-110 hc1 25YR44 00 05YR68 00 C Y 0 0 0 Р SPL at 67cm as in 1P 0 0 HR 5 0-22 sc1 10YR32 00 10YR44 00 22-35 sçl 0 0 HR 1 М

Y 0 0 HR

1

Ρ

				M	OTTLES		PED			–s	TONES:		STRUCT/	SUBS	3			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL		CONT	COL.	GLEY					CONSIST	STR	POR	IMP	SPL C	ALC
30	0-30	scl	75YR32 00							0		5						
	30–40	scl	75YR43 00						0		HR	3		М				
	40–47	lms	05YR43 00						0		HR	2		М	Y			
	47–80	ms	05YR44 00	OOMNOO	00 F				0	0	HR	2		М	Υ			
	80-95	ms	10YR53 63						0	0		0		M	Υ			
	95–110	hc1	25YR34 00	75YR58	00 C	0	OMNOO	00 Y	0	0		0		Р	Υ		Y	
31	0-30	mcl	10YR32 00						0	0	HR	5						
	30-55	scl	10YR53 00	10YR58	00 C			γ	0	0	HR	3		М				
	55-70	lms	05YR44 00	10YR46	00 F			Υ	0	0	HR	3		М				
	70-110	ms	05YR43 00					γ	0	0	HR	1		М				
33	0-28	scl	10YR33 00						0	0	HR	5						
	28-38	scl	75YR42 00	75YR56	00 C			Υ	0	0	HR	2		М				
	38–100	hc1	05YR44 00	00MN00	00 C			Υ	0	0	HR	2		Р				SPL at 67cm as in 1P
34	0-20	scl	10YR33 00								HR	5						
	20-30	scl	75YR56 00					Y		0		1		M				_
	30–80	hc1	05YR46 00	OOMNOO	00 C			Υ	0	0	HR	2		Р				SPL at 67cm as in 1P
35	0-33	scl	75YR32 00						0	n	HR	4						
	33-45	scl	75YR42 53	75VR56	on c			Υ	0		HR	1		М				
	45-50	hc1	05YR44 00					Y		0		2		P				
	50-100	hcl	25YR34 00					· Y		0		1		Р	Y		Υ	
		,						,	•	-		·		,	•		•	
36	0-10	mcl	75YR32 00						0	0	HR	3						
	10-22	mcl	75YR42 00	10YR46	00 C			Y	0	0	HR	1		М				
	22-58	hcl	25YR34 00	75YR58	00 C			Υ	0	0	HR	1		Þ	Υ		Υ	SPL AT 67cm as in 1P
37	0-34	mcl	75YR43 00						0	0	HR	2						
3/	34-55	hc]	05YR44 00	10VD50	00 5			Υ		0		1		м				
	55–110		051R44 00			O	OMNOO			0		1		M P	Υ		Υ	CDI at 67 1- 10
	JJ-110	hc1	001K44 00	TOTROO	00 C	U	OFINUU	JU T	U	U	חה	ı		~	ī		T	SPL at 67m as in 1P
38	0-33	mcl	10YR41 00	10YR58	00 C			Υ	0	0	HR	1						
	33-47	scl	10YR53 00	10YR58	00 C			Y	0		HR	1		М				
	47-110	hc1	25YR44 00	10YR58	00 C			Υ	0	0		1		Р				SPL at 67cm as in 1P

.....

SAMP	LÉ	А	SPECT			WETI	NESS	–₩H	EAT-	-P0	TS-	М.	REL	EROSN	FR	OST	CHEM	ALC	
NO.	GRID REF	USE		GRDNT	GLEY SPL	CLASS	GRADE	ΑP	MB	AP	MB	DRT	FLOOD	E	ΧP	DIST	LIMIT		COMMENTS
												_							
1	SJ75300750			01		1	2	59	-35		-19	3B					DR	ЗА	AWP recalculated
1P	SJ75400710		NW	02	031 067	3	3A	111		100	18	2					WE	ЗА	Boring 26, Mn at 67
2	SJ75400750			01		1	2	67	-2 7		-22						DR	ЗА	AWP recalculated
2P	SJ75300720	PGR			088 088	1	1	133		103	21	1						1	Boring 17
3	SJ75200740	CER	N₩	03	075	1	1	93	-1	80	2	ЗА					DR	2	AWP recalculated
3P	SJ75100730	PGR			000	1	1	109	15	097	15	2					DR	2	Boring 8
4	SJ75300740	FB	NW	01	035 067	3	2	94	0	77	-5	ЗА					DR	2	AWP recalculated
5	SJ75400740	SB		01	065	1	1	112	18	104	22	2						1	AWP recalculated
6	SJ75500740	CER		01		1	1	125	31	109	27	1						1	AWP recalculated
7	SJ75600740	CER		01	045 070	2	2	119	25	108	26	2					WD	2	
8	SJ75100730	PGR	NW	01		1	1	88	-6	75	- 7	3A					DR	2	AWP recalculated
9	SJ75200730	PGR			085 085	1	1	113	19	102	20	2					DR	2	
10	SJ75300730	CER	NW		027 067	3	3A	113	19	95	13	2					WE	3A	Mn 55cm
11	SJ75400730	SB		01		1	1	119	25	102	20	2					DR	2	
11A	SJ75400730	SB		01	035	2	2	130	36	109	27	1					WE	2	
	0.125500200	orn			055 075	•	•	104	20	100	00						. 15	_	
12	SJ75500730		NW		055 075	2	2	124		102	20						WE	2	Mn 90cm
13	SJ75600730		NW		037 067	3	3A	114		95	13						WE	3A	
14	SJ75700730			01	025 050	3	3A	99		104	22						WE	3A	
15	SJ75100720		NW			1	1	111	17	-	12						DR	2	
16	SJ75200720	PGR	NW			1	1	108	14	113	31	2					DR	2	Mn 60cm
17	SJ75300720	PGR				1	1	123	29	111	29	2						1	
18	SJ75400720	CER	NW	01	028 067	3	ЗА	107	13	103	21	2					WE	3A	
20	SJ75600720	CER	NW		025 067	3	3A	111	17	93	11	2					WE	ЗА	Mn 55cm
21	SJ75700720	PL0	NW		025 067	3	ЗА	104	10	86	4	2					WE	ЗА	
22	SJ75800720	POT		01	033	1	1	97	3	93	11	3A					WD	2	Sat 60, AWP recalc
23	SJ75100710	PGR	NW	01	070 070	2	2	123	29	112	30	2					WD	2	
24	SJ75200710		NW	01	045	1	1	131	37	111	29	1						1	nearly Grade 2 wet
25	SJ75300710		NW	01	030 030	4	3B	84	-10	90	8	3A					WE	3B	•
26	SJ75400710	-	NW	01	_	1	1	114		97	15	2					DR	2	
27	SJ75500710			01	028 040	4	3B	104		102	20	2					WE	3B	
20	C 175600710	CED	A.W. I	03	020 067	2	24	110	24	100	10	2					ы	24	
28	SJ75600710		NW	01	030 067	3	3A	118		100	18	2					WE	3A	
29	SJ75700710	МІ		01	035 067	3	ЗА	94	U	97	15	JA					WE	ЗА	

SAMP	LE	Α	SPECT				WETI	NESS	-WHI	EAT-	-P(DTS-	M.	REL	EROSN	FROST	CHEM	ALC	
NO.	GRID REF	USE		GRDNT	GLEY	' SPL	CLASS	GRADE	AP	MB	ΑP	MB	DRT	FLOOD	EX	P DIST	LIMIT		COMMENTS
	a.=======	000				005	_	_										_	
30	SJ75200700	CER	NW		040	095	1	1	98	4	81	-1	ЗА				DR	2	AWP recalculated
31	SJ75300700	CER	NW		030		2	2	108	14	98	16	2				DR	2	
33	SJ75500700	CER		01	028	067	3	3A	109	15	98	16	2				WE	ЗА	
34	SJ75600700	POT		01	020	067	3	3A	91	-3	94	12	ЗА				WE	ЗА	
35	SJ75200690	CER	NM	01	033	067	3	3 A	112	18	101	19	2				WE	ЗА	
36	SJ75300690	FB	NW		010	067	3	3A	75	-19	79	-3	3A				WE	3B	
37	SJ75400690	PGR			034	067	3	ЗА	128	34	111	29	1				WE	ЗА	Gleyed at 55cm
38	SJ75400680	PGR			001	067	3	3A	125	31	107	25	1				WE	ЗА	SPL 67cm
999										0		0					DR	ЗА	

▼. program: ALC012

LIST OF BORINGS HEADERS 28/05/99 SHIFNAL B BEECH HOUSE

SAMF	LE	ASPECT	•			WETI	NESS	-WHE	EAT-	-P0	ots-	M	.REL	EROSN	FROST	CHEM	ALC	
NO.	GRID REF	USE	GRDNT	GLEY	/ SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	E>	P DIST	LIMIT		COMMENTS
1	SJ75100680	PGR		042	067	2	2	107	14	113	32	2				₩E	2	
1 F	SJ75100680	PGR		025	057	3	3A	118	25	107	26	2				WE	ЗА	
2	SJ75200680	PGR		000	095	2	2	131	38	111	30	1				WE	3B	restricted drainage
3	SJ75100670	PGR		000	035	4	38	091	-2	100	19	3A				WE	3B	restricted drainage
4	SJ75200670	PGR		000	048	3	ЗА	125	32	107	26	1				WE	3B	restricted drainage
5	SJ75100660	PGR		000	048	3	ЗА	121	28	103	22	2				WE	3B	restricted drainage
5A	SJ75050655	PGR		033	077	2	2	135	42	115	34	1				WE	2	

062/98

page 1

					1 01TI	ES	PED				-S1	ONES-		STRUCT	/ 5	SUBS	6			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABU	1 0	ONT COL.	GL	.EY	>2 :	>6	LITH	TOT	CONSIST	ΓS	STR	POR	IMP	SPL	CALC
1	0-28	mcl	10YR32 00							0	0	HR	1							
	28-42	mcl	75YR42 00							0	0	HR	1			М				
	42-54	scl	75YR53 00	75YR5	3 00	С			Υ	0	0		0			М				
	54-67	msl	75YR51 00	75YR58	3 00	С			Υ	0	0		0			М				
_	67-74	hc1	05YR44 00	05YR4	5 00	M			Υ	0	0		0			Р	Υ		Υ	
1D	0-25	mcl	10YR42 00							0	Λ	HŘ	2							
**	25-50	scl	10YR52 00	10005	5 00	C			Υ	0		HR		MDCSAB	£D	м				
)	50-57	scl	10YR64 00						Ÿ	0		HR		MDCPR						
	57 – 100	hcl	05YR44 00				00MN00			0		HR	1	WKMASS			Y		Υ	
		_		40.454		_				_	_		_							
2	0-23	mcl	10YR41 00						Y	0		HR	1							
	23-55	mcl	75YR53 00						Υ	0		HR	5			M				
	55-70	msl	10YR53 00 10YR53 00						Y			HR	5			M				
	70-80	lms							Y	_	0		0			M				
	80-95 95-120	ms	10YR53 00 25YR44 00						Y Y	-	0		0			M P	v		Y	
	95-120	С	251K44 UU	IUTKS	5 00	C			T	U	v		U			٢	Y		Y	
3	0-23	mcl	10YR41 00	10YR46	00	С			Y	0	0	HR	1							
	23-35	scl	10YR53 00	10YR68	3 00	М			Υ	0	0	HR	1			М				
	35–70	hc1	25YR44 00	10YR58	3 00	С			Y	0	0	HR	1			Ρ	Υ		Y	
4	0-23	mc1	10YR41 00	10YR5	3 00	С			Υ	0	0	HR	1							
·	23-48	mcl	10YR52 00						Y		0		0			М				
	48-110	hcl	25YR44 00						Y	_	0		0			P	Y		Y	
_		_	40/044 00	4 OV DE		_				^	_		_							
5	0-23	mc]	10YR41 00						Y			HR	5							
	23-37	scl	10YR53 00						Υ	0		HR	2			M				
	37-48	scl	75YR53 00						Y	0	-	HR	1			M	.,		.,	
	48-100	hcl	25YR44 00						Y	0	0		0			P P	Y		Y	
	100110	С	25YR55 00	IUYKS	, UU	C			Υ	0	0		0			۲	Υ		Y	
	0-33	mcl	10YR41 00							0	0		0							
)	33-77	scl	10YR53 00	10YR56	3 00	С			Y	0	0		0			М				
	77-110	hcl	25YR44 00	10YR58	3 00	С			Y	0	0		0			P	Υ		Υ	

```
reddish fine leany drift with siliceous stones
          Old series included ABER: HAYMORE: LLANASA: MARSHPIELD: MICHAELWOOD(rare):
                             KITCHBLDBAN:
                                          * denotes data not available
                                            125 mm : grass 125 mm
          Available water (AP)
                                - cereals
                                  sugar beet 155 nm
                                                          : potatoes 110 nm
)
                                                           : rock > 100 cm
                                              60 cm
          Depth to
                                - gleying
                                  slowly-permeable layer
                                                          50 cm :
          Integrated air capacity - 92 mm/100cm
          PC zones (days) ; 100 ; 125 ; 150 ; 175 ; 200 ; 225 ; 250 ;
          wetness class { II ; II ; II ; III ; IV ; IV ;
                             | | b | bc | c | c | c |
)
          Brief Profile Description to follow
          Bater any character (and press (RBTURN)) to continue:
          Salwick series
          0-20 cm Ap
          Dark brown, slightly stony sandy loam or sandy clay loam.
          20-35 cm Bb(g)
          Brown, slightly mottled, slightly stony sandy loam or clay
          hom; weak subangular blocky structure.
          35-70 cm Bt(g)
          Reddish brown, slightly mottled, slightly stony clay loam;
          weak coarse prisnatic structure.
          70-100 cm BCtg
          Reddish brown, nottled, slightly stony clay loam; massive.
          Soil physical properties for all representative horizons to follow
```

4

Enter any character (and press (RETURN)) to continue:

SALWICK 05.72 So

CLIFTON 07.11 Cu reddish fine loamy drift with siliceous stones

Old series included ABER: HAYMORE: KIDDENS(rare): WILLAND(rare):

* denotes data not available

Available water (AP) - cereals 125 mm : grass 125 mm

sugar beet 155 mm : potatoes 110 mm

Depth to - gleying 25 cm : rock > 100 cm

slowly-permeable layer 47 cm:

Integrated air capacity - 62 mm/100cm

FC zones (days) 100 125 150 175 200 225 250 wetness class III III III III I٧ I٧ I٧ workability class cď đ C ¢

Brief Profile Description to follow Enter any character (and press <RETURN>) to continue:

Clifton series

0-25 cm Ap

ì

)

)

)

Dark greyish brown slightly stony clay loam or sandy clay oam.

25-35 cm Eg

Greyish brown, mottled, slightly stony sandy loam or sandy .ay loam; weak medium subangular blocky structure.

35-80 cm Btg

Reddish brown, mottled, slightly stony clay loam or sandy clay loam; moderate coarse prismatic structure.

80-100 cm BCtg

Reddish brown, mottled, slightly stony clay loam; weak coarse prismatic or massive structure; high packing density.

Soil physical properties for all representative horizons to follow Enter any character (and press (RETURN>) to continue: