SHROPSHIRE STRUCTURE PLAN SHIFNAL LAND AT NEW PARK FARM

Agricultural Land Classification ALC Map and Report

July 1999

Resource Planning Team Northern Region FRCA Wolverhampton

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AGRICULTURAL LAND CLASSIFICATION REPORT

SHROPSHIRE STRUCTURE PLAN SHIFNAL, LAND AT NEW PARK FARM

INTRODUCTION

- 1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of 39.0 ha of land at New Park Farm, to the east of Shifnal. The survey was carried out in between May and July 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 permanent grass, potatoes and cereals.

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.

Grade/Other land	Area (hectares)	% Total agricultural land area	% Total survey area
1	-	-	
2	15.8	46	41
3a	17.3	51	44
3b	0.9	3	2
4	-		-
5	-	-	-
Agricultural land not surveyed	-	-	-
Other land	5.0	-	13
Total agricultural land area	34.0	100	-
Total survey area	39.0	-	100

Table 1: Area of grades and other land

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 37 borings and 3 soil pits were described.
- 8. The agricultural land on this site has been classified as Grade 2 (very good quality), Subgrade 3a (good quality) and Subgrade 3b (moderate quality). The principal limitations to the agricultural use of this land are soil droughtiness and soil wetness.
- 9. Land of very good quality (Grade 2) is found across the north-western half of the survey area. Soil wetness and droughtiness are the main limitations to the agricultural use of this land.
- 10. Land of good quality (Subgrade 3a) is found across the south-eastern half of the survey area. Soil wetness is the main limitation to the agricultural use of this land. A small area of Subgrade 3a land is found in the north of the site. Soil droughtiness constitutes the principal limiting factor to the agricultural use of this land.
- 11. A small area of land of moderate quality (Subgrade 3b) is found in the south west of the site. Soil wetness is the main limitation to the agricultural use of this land.

FACTORS INFLUENCING ALC GRADE

Climate

- 12. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.
- 13. 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	Units	Values
Grid reference	N/A	SJ750072
Altitude	m, AOD	85
Accumulated Temperature	day ^o C (Jan-June)	1389
Average Annual Rainfall	mm	723
Field Capacity Days	days	172
Moisture Deficit, Wheat	mm	94
Moisture Deficit, Potatoes	mm	82
Overall climatic grade	N/A	Grade 1

Table 2: Climatic and altitude data

14. 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.

- 15. 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 (AT0, January to June), as a measure of the relative warmth of a locality.
- 16. The combination of rainfall and temperature at this site means that there is no overall climatic limitation. The site is climatically Grade 1.

Site

17. The site lies at an altitude of 83-98m AOD, and slopes from south-east to north-west. The site is bordered to the north by the railway line, to the west by residential development and the A464, and to the east by Lamledge Lane and agricultural land. Areas marked as 'Other Land' include New Park Farm and associated outbuildings, a caravan storage area, an area of wood known as Revell's Rough, and several ponds.

Geology and soils

- Lower Mottled Sandstone comprises the underlying solid geology for this area (BGS, 1958). The overlying drift comprises boulder clay, with some sand and gravel in the north of the site (BGS, 1959).
- 19. 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.
- 20. Upon detailed field examination, soil profiles broadly similar to those described for the Clifton association were found. In the north of the site however, soil profiles were not typical of those described for the Clifton association.

AGRICULTURAL LAND CLASSIFICATION

21. 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.

Grade 2

- 22. Land of very good quality occupies 15.8 ha (41%) of the total survey area, and is found in the north-west half of the site. The principal limitations to the agricultural use of this land are soil wetness and soil droughtiness.
- 23. Within the Grade 2 mapping unit, two main soil profiles were found. Along the north-western boundary of the site, soils comprise a very slightly stony medium sandy loam topsoil, which overlies medium sandy loam or loamy sand upper subsoils and medium sand lower subsoils. These soils are well drained and are placed into Wetness Class I. The agricultural use of the land is limited by soil droughtiness. Over the remainder of the mapping unit soils generally consist of a very slightly stony sandy clay loam, medium clay loam or medium sandy loam topsoil. This overlies sandy clay loam upper subsoils and heavy clay loam lower subsoils. Observed depths of gleying and the slowly permeable layer in relation to the local climatic regime, place these soils into either

Wetness Classes I, II or III. The agricultural use of the land is limited by soil wetness and soil droughtiness.

Subgrade 3a

- 24. Land of good quality occupies 17.3 ha (44%) of the total survey area, and is found in the south east half of the site, and in the north of the site. The principal limitations to the agricultural use of this land are soil wetness and soil droughtiness.
- 25. Within the Subgrade 3a mapping unit, two main soil profiles are found. In the north of the site, soils comprise a very slightly stony loamy medium sand topsoil, over a medium sand or loamy medium sand upper subsoils, and a medium sand lower subsoil. These soils are well drained and are placed into Wetness Class I. The agricultural use of the land is limited by soil droughtiness. To the south east of the survey area, soils comprise a very slightly stony sandy clay loam or medium clay loam topsoil over a sandy clay loam or medium clay loam (occasionally clay) lower subsoils. In several profiles a sandier horizon (sandy loam, loamy medium sand and medium sand) is found immediately below the topsoil. Observed depths of gleying and the slowly permeable layer in relation to the local climatic regime, generally places these soils into Wetness. Occasional boring of Subgrade 3b and Grade 2 quality are found throughout this mapping unit.

Subgrade 3b

- 26. Land of moderate quality occupies 0.9 ha (2%) of the total survey area, and is found in a small area to the south-west of the site. The principal limitation to the agricultural use of this land is soil wetness.
- 27. Within the Subgrade 3b mapping unit, soil consists of a very slightly stony medium clay loam topsoil, over a heavy clay loam subsoil. Gleying was recorded within the topsoil and waterlogging lower in the profile. On the basis of the estimated depth and duration of waterlogging this soil was allocated to Wetness Class IV and Subgrade 3b.

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SOURCES OF REFERENCE

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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.

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.

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COMPLETE LIST OF PROFILES 15/07/99 NEW PARK FARM SHIFNAL

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33 0-28 sc1 10VR33 00 0		55–70	lms	05YR44 00	10YR46	5 00 F			Ŷ	0	0	HR	3		М						
28-38 sc1 75YR42 00 75YR56 00 C Y 0 0 HR 2 P SPL at 67cm as in 1P 34 0-20 sc1 10YR33 00 V 0 0 HR 2 P SPL at 67cm as in 1P 34 0-20 sc1 75YR56 00 C Y 0 0 HR 5 M SPL at 67cm as in 1P 34 0-20 sc1 75YR56 00 C Y 0 0 HR 1 M SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 0 HR 2 P SPL at 67cm as in 1P 35 0-33 sc1 75YR42 375YR56 00 C Y 0 0 HR 1 M SPL at 67cm as in 1P 36 0-10 hc1 25YR34 00 00MN00 0 Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 36 0-10 mc1 75YR32 00 C		70-110	ms	05YR43 00					Ŷ	0	0	HR	1		м						
28-38 sc1 75YR42 00 75YR56 00 C Y 0 0 HR 2 P SPL at 67cm as in 1P 34 0-20 sc1 10YR33 00 V 0 0 HR 2 P SPL at 67cm as in 1P 34 0-20 sc1 75YR56 00 C Y 0 0 HR 5 M SPL at 67cm as in 1P 34 0-20 sc1 75YR56 00 C Y 0 0 HR 1 M SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 0 HR 2 P SPL at 67cm as in 1P 35 0-33 sc1 75YR42 375YR56 00 C Y 0 0 HR 1 M SPL at 67cm as in 1P 36 0-10 hc1 25YR34 00 00MN00 0 Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 36 0-10 mc1 75YR32 00 C																					
38-100 hc1 05YR44 00 00MN00 00 C Y 0 0 HR 2 P SPL at 67cm as in 1P 34 0-20 sc1 10YR33 00 Y 0 0 HR 5 M P SPL at 67cm as in 1P 34 0-20 sc1 75YR56 00 10YR35 00 C Y 0 0 HR 1 M P SPL at 67cm as in 1P 30-80 hc1 05YR46 00<00MN00	33	0–28	scl	10YR33 00						0	0	HR	5								
34 0-20 sc1 10YR33 00 0 0 0 HR 5 20-30 sc1 75YR56 00 10YR56 00 C Y 0 0 HR 1 M 30-80 hc1 05YR46 00 00MN00 00 C Y 0 0 HR 1 M 35 0-33 sc1 75YR32 00 0 0 HR 4 H H 35 0-33 sc1 75YR32 00 0 0 HR 4 H H 36 0-10 hc1 05YR44 075YR56 00 C Y 0 0 HR 1 H 36 0-10 hc1 25YR34 00 00VN00 Q Y 0 0 HR 1 M 22-58 hc1 25YR34 00 75YR58 00 C Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34		28-38	scl	75YR42 00	75YR56	5 00 C			Y	0	0	HR	2		Μ						
20-30 sc1 75YR56 00 10YR56 00 Y 0 0 HR 1 M P SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 0 HR 4 M P SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 0 HR 4 M P SPL at 67cm as in 1P 36 0-33 sc1 75YR32 00 V 0 0 HR 1 M P Y <td></td> <td>38-100</td> <td>hc1</td> <td>05YR44 00</td> <td>00MN00</td> <td>00 C</td> <td></td> <td></td> <td>Ŷ</td> <td>0</td> <td>0 </td> <td>HR</td> <td>2</td> <td></td> <td>Ρ</td> <td></td> <td></td> <td></td> <td></td> <td>SPL at 67cm as in 1</td> <td>P</td>		38-100	hc1	05YR44 00	00MN00	00 C			Ŷ	0	0	HR	2		Ρ					SPL at 67cm as in 1	P
20-30 sc1 75YR56 00 10YR56 00 Y 0 0 HR 1 M P SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 Y 0 0 HR 1 M P SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 Y 0 0 HR 4 M P SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 Y 0 0 HR 1 M P Y																					
30-80 hc1 05YR46 00 00MN00 00 Y 0 0 HR 2 P SPL at 67cm as in 1P 35 0-33 sc1 75YR32 00 0 HR 4 H	34																				
35 0-33 sc1 75YR32 00 <																					
33-45 sc1 75YR42 53 75YR56 00 C Y 0 0 HR 1 M 45-50 hc1 05YR44 00 75YR56 00 C Y 0 0 HR 2 P 36 0-10 mc1 75YR32 00 0 HR 1 M P Y Y 36 0-10 mc1 75YR32 00 0 HR 3 M P Y Y 37 0-34 mc1 75YR43 00 75YR58 00 C Y 0 0 HR 1 M P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 75YR58 00 C Y 0 0 HR 1 M P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 F Y 0 0 HR 1 M P Y Y SPL AT 67cm as in 1P SSF=110<		30-80	hc1	05YR46 00	OOMNOC	00 C			Ŷ	0	0	HR	2		Р					SPL at 67cm as in 1	Р
33-45 sc1 75YR42 53 75YR56 00 C Y 0 0 HR 1 M 45-50 hc1 05YR44 00 75YR56 00 C Y 0 0 HR 2 P 36 0-10 mc1 75YR32 00 0 HR 1 M P Y Y 36 0-10 mc1 75YR32 00 0 HR 3 M P Y Y 37 0-34 mc1 75YR43 00 75YR58 00 C Y 0 0 HR 1 M P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 75YR58 00 C Y 0 0 HR 1 M P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 F Y 0 0 HR 1 M P Y Y SPL AT 67cm as in 1P SSF=110<	25	0.22	1	750000 00						~	~ .										
45-50 hc1 05YR44 00 75YR56 00 C Y 0 0 HR 2 P 36 0-10 mc1 75YR32 00 0 0 HR 3 1 P Y Y 36 0-10 mc1 75YR32 00 0 0 HR 1 P Y Y 36 0-10 mc1 75YR42 00 10YR46 00 C Y 0 0 HR 1 M Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 00 TOYR58 00 F Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 00 TOYR58 00 F Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 05YR44 00 10YR58 00 F OMN00 00 Y 0 0 HR 1 P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 M H 38 0-33 mc1 10YR53 00 10YR58	35								v						ы						
50-100 hcl 25YR34 00 00MN00 00 C Y 0 0 HR 1 P Y Y 36 0-10 mcl 75YR32 00 10/R46 00 C Y 0 0 HR 3 10-22 mcl 75YR42 00 10/R46 00 C Y 0 0 HR 1 M P Y Y SPL AT 67cm as in 1P 37 0-34 mcl 75YR43 00 75YR58 00 F Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mcl 75YR43 00 10/YR58 00 F Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mcl 75YR43 00 10/YR58 00 F Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 38 0-33 mcl 10/YR1 00 10/YR58 Y 0 0 HR 1 M H H H <																					
36 0-10 mc1 75YR32 00 0 0 0 HR 3 10-22 mc1 75YR42 00 10YR46 00 C Y 0 0 HR 1 M 22-58 hc1 25YR34 00 75YR58 00 C Y 0 0 HR 1 M 37 0-34 mc1 75YR43 00 75YR58 00 C Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 75YR58 00 F Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 05YR44 00 10YR58 00 C 00MN00 0 HR 1 M P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 Y 0 0 HR 1 M H																v		v			
10-22 mc1 75YR42 00 10YR46 00 C Y 0 0 HR 1 M 22-58 hc1 25YR34 00 75YR58 00 C Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 05YR44 00 10YR58 00 F Y 0 0 HR 1 M P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 M H 33-47 sc1 10YR53 00 10YR58 00 C Y 0 0 HR 1 M H		30-100		201804 00	oormot				T	Ŭ	01		'		r	T		r			
10-22 mc1 75YR42 00 10YR46 00 C Y 0 0 HR 1 M 22-58 hc1 25YR34 00 75YR58 00 C Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 05YR44 00 10YR58 00 F Y 0 0 HR 1 M P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 M H 33-47 sc1 10YR53 00 10YR58 00 C Y 0 0 HR 1 M H	36	0-10	mc]	75YR32 00						0	0 1	HR	3								
22-58 hc1 25YR34 00 75YR58 00 C Y 0 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 HR 1 P Y Y SPL AT 67cm as in 1P 37 0-34 mc1 75YR43 00 0 HR 1 M P Y Y SPL AT 67cm as in 1P 34-55 hc1 05YR44 00 10YR58 0 F Y 0 0 HR 1 M P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 Y 0 0 HR 1 M H H H H H H H H H H H H H H	•••				10YR46	5 00 C			Ŷ						м						
37 0-34 mc1 75YR43 00 0 0 HR 2 34-55 hc1 05YR44 00 10YR58 00 F Y 0 0 HR 1 M 55-110 hc1 05YR44 00 10YR58 00 00MN00 00 Y 0 0 HR 1 P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 33-47 sc1 10YR53 00 10YR58 Y 0 0 HR 1 M																Y		Y		SPL AT 67cm as in 1	Р
34-55 hc1 05YR44 00 10YR58 Y 0 0 HR 1 M 55-110 hc1 05YR44 00 10YR58 00 0 0 HR 1 P Y Y SPL at 67m as in 1P 38 0-33 mc1 10YR41 101YR58 00 C Y 0 0 HR 1 38 0-33 mc1 10YR41 101YR58 00 C Y 0 0 HR 1 33-47 sc1 10YR53 00 10YR58 Y 0 0 HR 1 M																					
55-110 hcl 05YR44 00 10YR58 00 C 00MN00 00 HR 1 P Y Y SPL at 67m as in 1P 38 0-33 mcl 10YR41 00 10YR58 00 C Y 0 0 HR 1 1 1 33-47 scl 10YR53 00 10YR58 0 C Y 0 0 HR 1 M	37	0-34	mcl	75YR43 00						0	0 1	HR	2								
38 0-33 mc1 10YR41 00 10YR58 00 C Y 0 0 HR 1 33-47 sc1 10YR53 00 10YR58 00 C Y 0 0 HR 1		34-55	hc1	05YR44 00	10YR58	3 00 F			Y	0	01	HR	1		м						
33-47 sc1 10YR53 00 10YR58 00 C Y 0 0 HR 1 M		55-110	hc1	05YR44 00	10YR58	3 00 C	(000000	00 Y	0	01	HR	1		Ρ	Y		Y		SPL at 67m as in 1P	,
33-47 sc1 10YR53 00 10YR58 00 C Y 0 0 HR 1 M																					
	38	0-33	mcl	10YR41 00	10YR58	3 00 C			Y	0	01	HR	1								
47-110 hc1 25YR44 00 10YR58 00 C Y 0 0 HR 1 P SPL at 67cm as in 1P									Y				1		М						
		47–110	hc1	25YR44 00	10YR58	00 C			Y	0	0 1	HR	1		Ρ					SPL at 67cm as in 1	Р

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program: ALCO12

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page 1

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NO. GRID REF USE GRONT GLEY SPL CLASS GRADE AP MB AP MB DRT FLOOD EXP DIST LIMIT COMMENTS 1 SJ75300750 SB 01 1 2 59 -35 63 -19 3B DR AWP recalculated 1P SJ75400710 CER NW 02 031 067 3 3A 111 17 100 18 2 2 SJ75400750 SB 01 1 2 67 -27 60 -22 3B DR 3A AWP recalculated 2P SJ75400750 SB 01 1 1 133 39 103 21 1 Boring 17 3 SJ75200740 CER NW 03 075 1 1 93 -1 80 -2 3A DR 2 AWP recalculated 3P SJ75100730 PGR 000 1 1 109 15 097 15 2 DR 2 AWP recalculate	
1P SJ75400710 CER NW 02 031 067 3 3A 111 17 100 18 2 WE 3A Boring 26, Mn at 2 SJ75400750 SB 01 1 2 67 -27 60 -22 3B DR 3A AWP recalculated 2P SJ75300720 PGR 088 088 1 1 133 39 103 21 1 Boring 17 3 SJ75200740 CER NW 03 075 1 1 93 -1 80 -2 3A DR 2 Boring 17 3 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 3A DR 2 AWP recalculated 1 AWP recalculated 1 AWP recalculated 1 AWP recalculated 1 105	
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7 SJ75600740 CER 01 045 070 2 2 119 25 108 26 2 WD 2	d
	d
8 SJ75100730 PGR NW 01 1 1 88 -6 75 -7 3A DR 2 AWP recalculated	d
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	
12 SJ75500730 CER NW 055 075 2 2 124 30 102 20 1 WE 2 Mn 90cm	
13 SJ75600730 CER NW 037 067 3 3A 114 20 95 13 2 WE 3A	
14 SJ75700730 CER 01 025 050 3 3A 99 5 104 22 2 WE 3A	
15 SJ75100720 PGR NW 1 1 111 17 94 12 2 DR 2	
16 SJ75200720 PGR NW 1 1 1 108 14 113 31 2 DR 2 Mn 60cm	
17 SJ75300720 PGR 1 1 1 123 29 111 29 2 1	
18 SJ75400720 CER NW 01 028 067 3 3A 107 13 103 21 2 WE 3A	
20 SJ75600720 CER NW 025 067 3 3A 111 17 93 11 2 WE 3A Mn 55cm	
21 SJ75700720 PLO NW 025 067 3 3A 104 10 86 4 2 WE 3A	
22 SJ75800720 POT 01 033 1 1 97 3 93 11 3A WD 2 Sat 60, AWP recal	alc
23 SJ75100710 PGR NW 01 070 070 2 2 123 29 112 30 2 WD 2	
24 SJ75200710 CER NW 01 045 1 1 131 37 111 29 1 1 nearly Grade 2 we	wet
25 SJ75300710 CER NW 01 030 030 4 3B 84 -10 90 8 3A WE 3B	
26 SJ75400710 CER NW 01 1 1 114 20 97 15 2 DR 2	
27 SJ75500710 CER 01 028 040 4 3B 104 10 102 20 2 WE 3B	
28 SJ75600710 CER NW 01 030 067 3 3A 118 24 100 18 2 WE 3A	
29 SJ75700710 POT 01 035 067 3 3A 94 0 97 15 3A WE 3A	

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SAMPI	E	A	SPECT				WETN	VESS	-WHE	EAT-	-P	ots-	M.:	REL	EROSN	FROST	CHEM	ALC	
NO.	GRID REF	USE		GRDNT	GLEY	' SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D	E>	P DIST	LIMIT		COMMENTS
30	SJ75200700	CER	NW		040	095	1	1	98	4	81	-1	3A				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	ЗA	
34	SJ75600700	POT		01	020	067	3	3A	91	-3	94	12	ЗА				WE	ЗА	
35	SJ75200690	CER	NW	01	033	067	3	3A	112	18	101	19	2				WE	3A	
36	SJ75300690	FB	NW		010	067	3	3A	75	-19	79	-3	ЗА				WE	3B	
37	SJ75400690	PGR			034	067	3	3A	128	34	111	29	1				WE	3A	Gleyed at 55cm
38	SJ75400680	PGR			001	067	3	3A	125	31	107	25	1				WE	ЗА	SPL 67cm
999										0		0					DR	3A	

★. program: ALCO12

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

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SAMP	LE	ASPECT				WETN	NESS	-WHE	AT–	-PC	TS-	М.	REL	EROSN	FROST	CHEM	ALC	
NO.	GRID REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EX	P DIST	LIMIT		COMMENTS
1	SJ75100680	PGR		042	067	2	2	107	14	113	32	2				WE	2	
1P	SJ75100680	PGR		025	057	3	3A	118	25	107	26	2				WE	3A	
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	ЗА				WE	3B	restricted drainage
4	SJ75200670	PGR		000	048	3	3A	125	32	107	26	1				WE	3B	restricted drainage
5	SJ75100660	PGR		000	048	3	3A	121	28	103	22	2				WE	3B [·]	restricted drainage
5A	SJ75050655	PGR		033	077	2	2	135	42	115	34	1				WE	2	



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COMPLETE LIST OF PROFILES 28/05/99 SHIFNAL B BEECH HOUSE

						10 171	.ES-		PED			S	TONES		STRUCT/	SL	BS				
Sampi	LE (DEPTH	TEXTURE	COLOUR	COL	ABUN	1	CONT	COL.	GLEY	(>2	>6	LITH	TOT	CONSIST	ST	R	por	IMP	SPL	CALC
	1	028	mcl	10YR32 00							0	0	HR	1							
	:	28-42	mcl	75YR42 00							0	0	HR	1		M	I				
· •		42-54	scl	75YR53 00	75YR58	3 00	С			Y	0	0		0		м					
	;	54-67	สรไ	75YR51 00	75YR58	3 00	С			Y	0	0		0		M					
	_ (6774	hc1	05YR44 00	05YR46	6 00	М			Y	0	0		0		P	1	Ŷ		Y	
	1P	0-25	mcl	10YR42 00							0	0	HR	2							
		25-50	scl	10YR52 00	10YR56	5 00	с			Y	0		HR		MDCSAB	FR M	I				
)		50-57	scl	10YR64 00						Ý	0		HR	1	MDCPR						
		57-100	hcl	05YR44 00				C	OOMNOO	00 Y			HR	1	WKMASS			Y		Y	
	2	0-23	mcl	10YR41 00	107846	5 00	c			Y	0	ń	HR	1							
		23-55	mcl	75YR53 00			-			Ý	ō	-	HR	5		۲	1				
		55-70	msl	10YR53 00						Y			HR	5		M					
		70-80	lms	10YR53 00						Ý	0	0	,,,,,	0		M					
		30-95	ms	10YR53 00						Ý	Ō	Ő		õ		M					
		95-120	c	25YR44 00						Ŷ	Ō	0		0		P		Y		Y	
	3	0-23	mcl	10YR41 00	107046	. 00	c			Y	0	0	HR	1							
•	-	23-35	scl	10YR53 00						Ý	0		HR	1		M					
		35–33 35–70	hcl	25YR44 00						Ý	ō		HR	ì		P		Ŷ		Y	
							~							_							
4	4	0-23	mc1	10YR41 00						Y	0	-	HR	1							
		23-48	mcl	10YR52 00			-			Y	0	0		0		M					
	4	48-110	hcl	25YR44 00	107856	5 00	Ç			Ŷ	0	0		0		P	•	Y		Y	
!	5	0-23	mcl	10YR41 00	10YR58	3 00	С			Ŷ	0	0	HR	5							
	:	23-37	scl	10YR53 00						Y	0	0	HR	2		M					
		37-48	scl	75YR53 00	75YR58	3 00	С			Y	0	0	HR	1		M	I				
	4	48-100	hcl	25YR44 00	10YR58	00	С			Y	0	0		0		Ρ		Y		Y	
	<u> </u>	00110	c	25YR55 00	10YR58	00	С			Y	0	0		0		P		Y		Y	
ļ	5A	0-33	mcl	10YR41 00							0	0		0							
)		33-77	scl	10YR53 00	10YR58	00	С			Y	0	0		0		М					
	-	77-110	hcl	25YR44 00	10YR58	00	С			Y	0	0		0		Ρ		Y		Y	

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SALWICK 05.72 So reddish fine loany drift with siliceous stones Old series included ABER: HATMORE: LLANASA: MARSHPIBLD: MICHABLWOOD(rare): MITCHBLDBAN: N * denotes data not available 125 mm : grass 125 mm Available water (AP) - cereals sugar beet 155 mm : potatoes 110 mm) : 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 | workability class | | b | bc | c | c | c | 5) Brief Profile Description to follow Bater any character (and press (RBTURN)) to continue:)) Salwicit 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 hen; weak subangular blocky structure. 35-70 cm Bt(g) Reddish brown, slightly mottled, slightly stony clay loam; weak coarse prisnatic structure. J 70-100 cm BCtg) Reddish brown, nottled, slightly stony clay loam; nassive. j) Soil physical properties for all representative horizons to follow Enter any character (and press (RETURN)) to continue:)

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 155 mm sugar beet : potatoes 110 mm Depth to - gleying 25 cm rock > 100 cm 1 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 I۷ I٧ I٧ workability class сd đ d С ¢ Brief Profile Description to follow Enter any character (and press <RETURN>) to continue: Clifton series 0-25 cm Ap 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:

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