SHROPSHIRE STRUCTURE PLAN WEM LAND NORTHEAST OF LOWE HILL ROAD

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 WEM, LAND NORTHEAST OF LOWE HILL ROAD

INTRODUCTION

- 1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of 12.2 ha of land north-east of Lowe Hill Road, north-west of Wem. The survey was carried out in June 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, and 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. The area marked as 'Other Land' comprises a small pond.

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	-	-	-
3a	9.4	78	77
3b	2.7	22	22
4	-	-	-
5	-	-	-
Agricultural land not surveyed	-	-	-
Other land	0.1	-	1
Total agricultural land area	12.1	100	-
Total survey area	12.2	•	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 13 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 main limitations to the agricultural use of this land are soil wetness and droughtiness.
- 9. Land of good quality (Subgrade 3a) occurs across the site. Soil wetness and droughtiness are the main limitations to the agricultural use of this land.
- 10. Land of moderate quality (Subgrade 3b) occurs in three discrete areas in the north-east, west and south 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	Units	Values
Grid reference	N/A	SJ512299
Altitude	m, AOD	85
Accumulated Temperature	day°C (Jan-June)	1386
Average Annual Rainfall	mm	704
Field Capacity Days	days	158
Moisture Deficit, Wheat	mm	96
Moisture Deficit, Potatoes	mm	86
Overall climatic grade	N/A	Grade 1

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 (AT0, January to June), as a measure of the relative warmth of a locality.

- 15. The combination of rainfall and temperature at this site means that there is no overall climatic limitation. The site is climatically Grade 1.
- Site
- 16. The site lies at an altitude of approximately 85m AOD, and slopes southward. A drain flows south across the centre of the site. To the south the site is bounded by recent residential developments. To the west the site is bounded by Buona Vista (a farmhouse) and Lowe Hill Road. Elsewhere the site is bounded by agricultural land.

Geology and soils

- 17. In the north of the site the underlying solid geology comprises Jurassic Lower Lias (BGS 1967). This is overlain by drift comprising Boulder Clay (BGS 1967).
- 18. The most detailed published soils information (SSEW, 1983 & 1984) maps the 'typical stagnogley soils' of the Salop association across the site.
- 19. Upon detailed field examination, soil profiles closely matching 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.

Grade 3a

- 21. Land of very good quality occupies 9.4 ha (77%) of the total survey area, and occurs across the site. The main limitation to the agricultural use of this land is soil wetness.
- 22. Within the Grade 3a mapping unit, soils comprise a slightly stony medium clay loam topsoil, overlying a medium clay loam, sandy clay loam or heavy clay loam upper subsoil. Within the lower subsoil layers textures are quite variable, with clay, sand or intermediate (medium sandy loam, sandy clay loam, medium clay loam) textures. Depths to gleying in relation to the local climatic regime, place these soils into Wetness Classes I, II and III. In several borings the main limitation to the agricultural use of the land is soil droughtiness due to the coarse texture of the lower subsoil layers. A number of Grade 2 borings were placed within the Subgrade 3a mapping unit, as they were scattered across the site and difficult to map as a discrete unit.

Subgrade 3b

23. Land of moderate quality occupies 2.7 ha (22%) of the total survey area, and occurs in three areas to the north-east, west and south of the site. The main limitation to the agricultural use of this land is soil wetness.

24. In the northern corner of the site, soils comprise a stoneless or very slightly stoneless medium clay loam topsoil, over a medium clay loam or clay upper subsoil and heavy clay loam or clay lower subsoil. Depths to gleying and the slowly permeable layer in relation to the local climatic regime place the land into Wetness Class IV and Subgrade 3b.

William Fearnehough Resource Planning Team Northern Region FRCA Wolverhampton

SOURCES OF REFERENCE

British Geological Survey (1967) Sheet No. 138, Wem, Solid and Drift Edition, 1:63360 scale. 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 No. 3, Soils of Midland and Western England. 1:250 000 scale. 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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