AGRICULTURAL LAND CLASSIFICATION

BIDFORD-ON-AVON
(STRATFORD UPON AVON LOCAL PLAN)

Resource Planning Team
ADAS Statutory Group
WOLVERHAMPTON

Job No: 049/93
MAFF Ref: EL43/00021

AGRICULTURAL LAND CLASSIFICATION REPORT FOR BIDFORD-UPON-AVON

1 SUMMARY

1.1 The Agricultural Land Classification (ALC) Survey for this site shows that the following proportions of ALC grades are present:

Grade 2	33.5 ha	(75.6% of the site)
Agricultural buildings	0.4 ha	(0.9% of the site)
Non-agricultural	2.6 ha	(5.9% of the site)
Land not surveyed	7.8 ha	(17.6% of the site)

1.2 The main limitation to the agricultural use of land in Grade 2 droughtiness.

2 INTRODUCTION

2.1 The site was surveyed by the Resource Planning Team in September 1993. An Agricultural Land Classification (ALC) survey was undertaken according to the guidelines laid down in the "Agricultural Land Classification of England and Wales - Revised Guidelines and Criteria for Grading the Quality of Agricultural Land" (MAFF 1988).

2.2 The 44.3 ha site is situated 5 miles west of Stratford-upon-Avon. The land immediately to the north is in agricultural use, the remaining land is in urban use.

2.3 The survey was requested by MAFF in connection with the Stratford Upon Avon local plan.

2.4 At LUPU's request this was a detailed grid survey at 1:10000 with a minimum auger boring density of 1 per hectare. The attached map is only accurate at the base map scale and any enlargement would be misleading.

2.5 At the time of the survey the site was under various horticultural crops, cereals, maize, orchard, potatoes and grass.

3 CLIMATE

3.1 The following interpolated data are relevant for the site:

Average Annual Rainfall	633 mm
Accumulated Temperature above 0°C January to June	1460 day °C
Field Capacity Days	137 days
Moisture Deficit Wheat	108 mm
Moisture Deficit Potatoes	100 mm

3.2 There is no overall climatic limitation on the site.

4 SITE

4.1 The assessment of site factors is primarily concerned with the way in which topography influences the use of agricultural machinery. These include gradient, microrelief and flooding.

4.2 Gradient, microrelief and flooding do not impose any limitations on the agricultural use of the land.

5 GEOLOGY AND SOILS

5.1 The solid geology of the area is Keuper Marl overlain by river gravel deposits - British Geological Survey Sheet 200 Stratford-upon-Avon 1:50000.

5.2 The underlying geology influences the soils which typically have a sandy texture.

6 AGRICULTURAL LAND CLASSIFICATION

6.1 Grade 2 - occupies 33.5 ha (75.6%) of the survey area.

6.1.1 These soils typically have a sandy loam or sandy silt loam topsoil overlying a sandy loam and sandy clay loam to depth. Occasionally there is a lower subsoil of clay.

6.1.2 Topsoil stones are few to common in quantity with subsoil stones becoming abundant in places.

6.1.3 The main limitation to the agricultural use of this land is droughtiness.

6.2 Other land includes agricultural buildings which occupy 0.4 ha (0.9%) of the survey area and are found to the west of the site; non-agricultural land which occupies 2.6 ha (5.9%) of the survey area and land not survey which occupies 7.8 ha (17.6%) of the survey area. .

6.3 SUMMARY OF AGRICULTURAL LAND CLASSIFICATION GRADES

Grade/Subgrade	Area in Hectares	% of Survey Area	% of Agricultural Land
2	33.5	75.6	100
Other land			
Agricultural Buildings	0.4	0.9	-
Non-Agricultural	2.6	5.9	-
Land not surveyed	7.8	17.6	-
Total:	44.3	100.0	100.0

Resource Planning Team
ADAS Statutory Group
Wolverhampton
September 1993

AGRICULTURAL LAND CLASSIFICATION OF LAND AT BIDFORD ON AVON (STRATFORD UPON AVON LOCAL PLAN)

EXCHANGE DOCUMENT

(AUGERING DETAIL OF HBID1)

Resource Planning Team
ADAS Statutory Group
WOLVERHAMPTON

ADAS Ref : 25/RPT/0295
Job No : 049/93
MAFF Ref : EL43/00021B

SOIL NOTES FOR BIDFORD ON AVON

BORING	TEXTURE	COLOUR	DEPTH	ST >2CM	ST-TOT	GLEY	SPL	W CLASS	W GDE	DRGHT	ALC
1	msl	75YR32 00	0-28	1	2						
	scl	75YR32 00	28-60	0	2						
	msl	75YR44 00	60-85	0	35						
	c	25YR34 00	85-120	0	2			1	1	2	2
2	msl	10YR43 00	0-35	4	5						
	fsl	10YR44 00	35-50	0	1						
	scl	05YR44 00	50-80	0	5			1	1	2	2
3	fsl	75YR43 00	20	0	5			NA	NA	NA	DRY CONDITIONS PROHIBITED AUGERING TO DEPTH
4	msl	10YR43 00	30	4	5			NA	NA	NA	

PIT DETAILS FOR AUGER BORING ONE

BORING	TEXTURE	COLOUR	DEPTH	ST >2CM	ST-TOT	GLEY	SPL	W CLASS	W GDE	DRGHT	STRUCTURE	CONSIS	DT STRUC	ALC GRADE
1P	msl	75YR32 00	0-28	1	2	N								
	scl	75YR32 00	28-60	0	2	N					WK C SB	FIRM	M	
	msl	75YR44 00	60-85	0	35	N					WK F SB	FRIABLE	M	
	c	25YR34 00	85-120	0	2	N	N	1	1	2	MD M/C SB	FIRM	M	2

PIT DETAILS FOR AUGER BORING ONE

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1P	msl	75YR32 00	0-28	1	2	N								
	scl	75YR32 00	28-60	0	2	N					WK C SB	FIRM	M	
	msl	75YR44 00	60-85	0	35	N					WK F SB	FRIABLE	M	
	c	25YR34 00	85-120	0	2	N	N	1	1	2	MD M/C SB	FIRM	M	2

PIT DETAILS FOR AUGER BORING ONE

BORING	TEXTURE	COLOUR	DEPTH	ST >2CM	ST-TOT	GLEY	SPL	W CLASS	W GDE	DRGHT	STRUCTURE	CONSIS	DT STRUC	ALC GRADE
1P	msl	75YR32 00	0-28	1	2	N								
	scl	75YR32 00	28-60	0	2	N					WK C SB	FIRM	M	
	msl	75YR44 00	60-85	0	35	N					WK F SB	FRIABLE	M	
	c	25YR34 00	85-120	0	2	N	N	1	1	2	MD M/C SB	FIRM	M	2

BORING	TEXTURE	COLOUR	DEPTH	ST >2CM	ST-TOT	MOTTLES	AB	PED COL	POR	STRUC	CON	DGT	GLEY	SPL	W GRDE	DRGHT	ALC
2P	mszl	10YR43 00	0-30	1	3												
2P	scl	75YR53 00	30-45	0	1	75YR56 00	M	75YR52 00	Y	MDCSB	FR	M	Y	N			
2P	scl	75YR53 00	45-81	0	1	75YR56 00	M	75YR52 00	Y	MDCSB	FR	M	Y	N			
2P	sc	05YR52 43	81-120	0	3	75YR58 00	M		Y	WKMSB	FM	M	Y	N	1	2	2
3P	msl	10YR32 00	0-22	0	1				Y								
3P	msl	75YR46 00	22-40	0	1				Y	WKFSB	FR	G	N	N			
3P	msl	75YR56 00	40-58	0	25				Y	WKFSB	FR	G	N	N			
3P	scl	75YR56 00	58-110	0	40				Y	STONE		M	N	N	1	2	2