

AGRICULTURAL LAND CLASSIFICATION  
BOOTHFERRY ROAD, AIRMYN  
HUMBERSIDE  
PROPOSED BUSINESS PARK  
JANUARY 1993

ADAS  
Leeds Statutory Group

Job No:- 38/93  
MAFF Ref:-

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## SUMMARY

An Agricultural Land Classification survey of approximately 36ha of land at Boothferry Road, Airmyn was carried out in January 1993.

All of the land on the site was in agricultural production. 7.28ha of this falls within Grade 1. These soils, formed on medium to light textured warp, are freely drained (Wetness Class I) and consist of medium silty clay loam topsoils over silt loam subsoils. There are no overall limiting factors.

Grade 2 land covers 8.42ha. These soils, formed on sand deposits, are freely drained (Wetness Class I) and consist of sandy clay loam topsoils over medium sandy loam subsoils. Land of this type is limited to Grade 2 by slight soil droughtiness.

Subgrade 3a land covers 7.31ha. Soils are freely drained (Wetness Class I) and consist of sandy clay loam topsoils over medium sandy loam or loamy medium sand subsoils. They are limited to Subgrade 3a by droughtiness.

Subgrade 3b land covers 12.62ha. This land is imperfectly drained (Wetness Class III) and consists mainly of heavy clay loam topsoils over heavy silty clay loam or clay subsoils. Soils are limited to Subgrade 3b by wetness and workability problems.

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT ON LAND AT  
BOOTHFERRY ROAD, PROPOSED BUSINESS PARK

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site lies ½ Km east of Airmyn around National Grid Reference SE 730254. Survey work was carried out in January 1993 when soils were examined by hand auger borings at a density of one boring per hectare at points pre-determined by the National Grid. Land quality was assessed using the methods described in "Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land". (MAFF 1988).

1.2 Land Use and Relief

At the time of survey all land on the site was in arable use.

Site altitude is 4m AOD and the land is level.

1.3 Climate

Grid Reference	: SE 730254
Altitude (m)	: 4
Accumulated Temperature above 0°C (January-June)	: 1407 day°C
Average Annual Rainfall (mm)	: 592
Climatic Grade	: 1
Field Capacity Days	: 125
Moisture Deficit (mm) Wheat	: 111
Moisture Deficit (mm) Potatoes	: 104

#### 1.4 Geology, Soils and Drainage

The site is underlain by Triassic sandstone over which there is a thick covering of lacustrine clay, glacial sand and alluvium including silty warp deposits. Soils vary from well drained (Wetness Class I) medium silty clay loam topsoils over mottled silt loam subsoils on the warp deposits in the north, to imperfectly drained (Wetness Class III) heavy alluvial clays around Towns Drain in the central part of the site. Well drained lighter, sometimes sandy soils, are common in the south near the motorway.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

<u>Grade/Subgrade</u>	<u>Hectares</u>	<u>Percentage of Total Area</u>
1	7.28	20.4
2	8.42	23.6
3a	7.31	20.5
3b	12.62	35.5
4		
5		
(Sub total)	(35.63)	100
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
	<hr/>	<hr/>
TOTAL	35.63	100
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## 2.1 Grade 1

Grade 1 land occurs on warp deposits in the northern part of the site. Profiles consist of stoneless medium silty clay loam topsoils over stoneless silt loam subsoils. Soils are well drained (Wetness Class I) and have no overall limiting factors.

## 2.2 Grade 2

Grade 2 land occurs in the central northern and southern parts of the site. In the north soils consist of moderately well drained (Wetness Class II) heavy silty clay loam warp which is limited to Grade 2 by slight wetness. In the south east stoneless sandy clay loam topsoils overlie stoneless medium sandy loam subsoils. These soils are well drained (Wetness Class I) but are limited to Grade 2 by slight droughtiness.

## 2.3 Subgrade 3a

Subgrade 3a land is common in the south west. Profiles consist of stoneless medium sandy loam, sandy clay loam or medium clay loam topsoils and upper subsoils over loamy medium sand or medium sand lower subsoils. Soils are well drained (Wetness Class I) but limited to Subgrade 3a by droughtiness.

## 2.4 Subgrade 3b

Subgrade 3b land is widespread in the centre of the site around Town Drain. Profiles are imperfectly drained (Wetness Class III) and consist of stoneless heavy clay loam or heavy silty clay loam topsoils over slowly permeable, stoneless heavy clay loam or clay subsoils. Soil wetness is the main factor restricting this land to Subgrade 3b.

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MAP

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