



AGRICULTURAL LAND CLASSIFICATION
BEVERLEY BOROUGH LOCAL PLAN
SITE 18, CASTLE HILL HOSPITAL,
COTTINGHAM
DECEMBER 1992

ADAS
Leeds Statutory Group

Job No:- 146/92
MAFF Ref:-

site18.alc.mp

SUMMARY

An Agricultural Land Classification survey of approximately 13ha of land north of Castle Hill Hospital was carried out in December 1992.

12ha of this is in Agricultural use, of which 5.6ha falls into Grade 2. Soils within this grade are well drained and consist of medium clay loam topsoils over sandy clay loam subsoils. These soils are limited to Grade 2 by slight droughtiness.

Subgrade 3a land covers 6.7ha. Soils are imperfectly drained and consist of medium clay loam topsoils over heavy clay loam subsoils which become slowly permeable at about 40cm depth. Profiles of this type are limited to Subgrade 3a by slight soil wetness.

Subgrade 3b land covers 1.0ha. Profiles are poorly drained and consist of medium clay loam topsoils over slowly permeable heavy clay loam subsoils. This land is limited to Subgrade 3b by soil wetness and workability problems.

CONTENTS

1. INTRODUCTION AND SITE CHARACTERISTICS
2. AGRICULTURAL LAND CLASSIFICATION GRADES

MAP

1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT: BEVERLEY BOROUGH LOCAL PLAN,
SITE 18, CASTLE HILL HOSPITAL, COTTINGHAM

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods.

The site lies 2Km west of Cottingham immediately north of Castle Hill Hospital and is centred on National Grid Reference TA 026327. It covers a total of 13.42ha. Survey work was carried out in December 1992 when soils were examined by hand auger borings at a density of one boring per hectare at points predetermined 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 the survey 99% of the site was in permanent pasture or arable production. The remainder consisted of woodland. The site is gently to moderately sloping with an overall aspect to the north.

1.3 Climate

Grid Reference	:	TA 026327
Altitude (m)	:	25
Accumulated Temperature above 0°C (January-June)	:	1378 day°C
Average Annual Rainfall (mm)	:	650
Climatic Grade	:	1
Field Capacity Days	:	141
Moisture Deficit (mm) Wheat	:	108
Moisture Deficit (mm) Potatoes	:	100

1.4 Geology, Soils and Drainage

The area is underlain with chalk over which there is a cover of till (boulder clay) and post glacial drift. Soils consist of stoneless or very slightly stony medium clay loam topsoils over heavy clay loam, sandy clay loam or medium sandy loam subsoils. The lighter subsoils are most common on the post glacial drift on the lower lying ground adjoining Eppleworth Road. Drainage varies from well drained (Wetness Class I) on the lighter drift in the north to poorly drained (Wetness Class IV) where slowly permeable boulder clay occurs close to the surface along the southern edge of the site.

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		
2	5.60	41.70
3a	6.72	50.04
3b	1.00	7.44
4		
5		
(Sub total)	(13.32)	(99.18)
Urban		
Non Agricultural	0.11	0.82
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
	_____	_____
TOTAL	13.43	100
	_____	_____

2.1 Grade 2

Grade 2 land occurs in the northern part of the site. Soils consist of stoneless to very slightly stony medium clay loam topsoils overlying subsoils of stoneless sandy clay loam. Profiles are well drained (Wetness Class I). This land is limited to Grade 2 by slight droughtiness.

2.2 Subgrade 3a

Land within this subgrade occurs in a broad band running from west to east across the centre of the site. Topsoils consist of stoneless medium clay loam and overlie topsoils formed of stoneless to slightly stony heavy clay loam which become slowly permeable at depth. Profiles are imperfectly drained (Wetness Class III) and wetness is the main limiting factor restricting this land to Subgrade 3a.

2.3 Subgrade 3b

Subgrade 3b land occurs on the southern edge of the site. Profiles consist of stoneless medium clay loam topsoils overlying slightly stony mottled, slowly permeable heavy clay loam subsoils. Soils are poorly drained (Wetness Class IV) and soil wetness and workability problems are the main factors restricting this land to Subgrade 3b.

2.4 Non Agricultural

This consists of five small areas of woodland.

RPT File: 2 FCS 6293
Leeds Statutory Group

MAP