



#### AGRICULTURAL LAND CLASSIFICATION

Wakefield U.D.P Normanton East, Site N/I/5

MAFF Leeds Regional Office March 1992 File Ref: 2FCS 4815 Project No: 29/90

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# 1. AGRICULTURAL LAND CLASSIFICATION

#### AGRICULTURAL LAND CLASSIFICATION REPORT,

#### 1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:-SE 409230Location Details:- $2\frac{1}{2}$  km east of NormantonSite Size:-94 ha of which 4 hawas not surveyed

1.2 Survey Methods

Dates Surveyed:-

Boring Density and Spacing Basis:-

3 December 1991 and 5 March 1992

because ownership

details are not known

At 100m intervals on a grid pattern predetermined by the national grid.

By hand auger borings to a depth of 1 metre

Number of Borings:-

Sampling Method:-

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All land quality assessments were made 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)".

Most of the land is in agricultural use (mainly winter cereals). There are also areas of urban and non-agricultural land, farm woodland and agricultural buildings

1.4 Climate and Relief

Average Annual Rainfall (AAR):-619 mmAccumulated Temperature above<br/>0°C (January-June):-1375 day °CField Capacity Days:-135 daysAltitude average:-40 m a.o.d.maximum:-45 m a.o.d.minimum:-20 m a.o.d.

Climatic limitation (based on interaction of rainfall and temperature values:- There is no limitation

There is no limitation on ALC grade

The area surveyed slopes gently from east to west 0° - 7° None

### Relief:-

Slopes (° ):-Gradient Limitations:-

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#### 1.5 Geology and Soil

Solid Strata:-

Depth of solid rock from surface:-

Drift types:-

Thickness of drift and distribution:-

Soil Types and Distribution:-

Soil Textures (topsoils and subsoils):-

Soil Series/Associations:-On 1/250000 map:-Identified on site:- Coal measures

> 1 metre

Heavy clay formed from weathering coal measure shales.

1 metre over the whole site

Mainly pelo-stagnogley soils (poorly drained heavy soils) with some areas of medium and light textured material in the north with some areas of medium and light-textured material in the north.

Topsoils consist of medium or heavy clay loam over subsoils generally of heavy clay loam, silty clay or clay with occasional patches of lighter sandy material.

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Soil Limitations and type:-

1.6 Drainage

Soil type and Wetness Class:-

Heavy topsoil textures, especially in the Southern part of the site.

The heavy soils fall mainly in wetness class IV. The medium textured soils fall within wetness classes II & III

Drainage Limitations:-

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Slowly permeable subsoils

# 2.0 Agricultural Land Classification Grades

The ALC grades occurring on the site are as follows:-

Grade/Subgrade	Hectares	Percentage of
		Total Area
1	-	
2	-	
3a	21.4	22.8
3b	56.6	60.4
4	1.3	1.4
5	-	-
Non Agricultural	8.6	9.2
Agricultural Buildings	0.9	0.96
Urban	1.2	1.3
Not surveyed (Ownership Unknown)	3.7	3.94
Total	93.7	100

# Subgrade 3a

## Distribution on site:-

Soil Type(s) and Texture(s):-

Depth to Slowly Permeable Layers:-

Wetness and Drainage Class:-

Stone Percentage and Type:-

Grade Limiting Factors:-

This subgrade occurs in the northern part of the site and in the separate areas in the South.

Soils are generally medium textured with medium clay loam topsoils over sandy clay loam or medium sandy loam subsoils often with clay at depth.

35 - 70 cm

Profiles fall within wetness classes II and III where slowly permeable layers are present making them imperfectly drained. The occasional lighter soils in the North are freely drained (wetness class I)

0 - 5% hard rocks and Stones

Soil wetness is limiting on the imperfectly drained areas. The light, sandy soils are limited by soil droughtness.

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Subgrade 3b

Distribution on site:-

Soil Type(s) and Texture(s):-

Depth to Slowly Permeable Layers:-

Wetness and Drainage Class:-

Stone Percentage and Type:-

Grade Limiting Factors:-

much of the central and southern parts of the site.

Soils of this subgrade are heavy and consist of heavy clay loam over similar or heavier subsoils.

Subgrade 3b land covers

25 - 45 cm

Wetness Classes III and IV imperfectly and poorly drained soils

0 ~ 4%

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Soil wetness and workability

Grade 4

Distribution on site:-

Soil Type(s) and Texture(s):-

Depth to Slowly Permeable Layers:-

Wetness and Drainage Class:-

Stone Percentage and Type:-

Grading Limiting Factors:-

An area of restored land to the east of Don Pedro cottages.

Medium textured soils, consisting of a thin medium clay loam topsoil, over shaley overburden to depth.

Greater than 1 metre.

Wetness Class 1

15-20% small and medium shales and soft sandstones

Soil stoniness workability and subsoil compaction problems. Non Agricultural

Type and location of land included:- Farm woodland to the east of Don Pedro Cottages and north of Loscoe Grange; gardens at Loscoe Grange and scrubland along Loscoe Lane and south of Wood House Farm.

#### Agricultural Buildings

Type and location of buildings included:- The farmhouse and outbuildings at Loscoe Grange, in the west.

Urban

Type of land use included:-

The access road to Wood House Farm, the houses and roads around Loscoe Grange.

Resource Planning Group Leeds Regional Office March 1992

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