



Ministry of
Agriculture
Fisheries
and Food

AGRICULTURAL LAND CLASSIFICATION
BOOTHFERRY LOCAL PLAN
SNAITH, INDUSTRY
HUMBERSIDE
OCTOBER 1992

ADAS
Leeds Statutory Group

Job No. 110/92
MAFF Ref:

SNAITH.ALC/MP

SITE AT SNAITH

SUMMARY

Land covering a total of 6.55ha was surveyed on 2 adjoining sites at Snaith. 6.40ha of this is in agricultural production, of which approximately 4.55ha has been classified as Grade 2 and 1.85ha as Subgrade 3a.

Grade 2 land occurs over the whole of Site A and the eastern end of Site B and consists typically of medium silty clay loam topsoils overlying permeable heavy silty clay loam subsoils. Slight soil wetness is the main limiting factor.

Subgrade 3a land occurs in the central and western parts of Site B, and consists of heavy silty clay loam topsoils over permeable heavy silty clay loam subsoils. Wetness and workability difficulties with the heavy topsoils are the main limiting factors.

CONTENTS

1. INTRODUCTION AND SITE CHARACTERISTICS

2. AGRICULTURAL LAND CLASSIFICATION

MAP

1. AGRICULTURAL LAND CLASSIFICATION

1. INTRODUCTION AND SITE CHARACTERISTICS

The sites at Snaith are situated around National Grid Reference SE 644224 (Site A) east of Ferry Lane (A1041) and National Grid Reference SE 642225 (Site B) west of Ferry Lane, approximately $\frac{1}{2}$ km north of Snaith centre. The sites cover a total of 6.55ha, the majority of which is in agricultural use.

Survey work was carried out in October 1992 when soils were examined by hand auger borings at a density of 2 per ha predetermined by the National Grid. The land quality was assessed using the methods described in "Agricultural Land Classification of England and Wales, Revised guidelines for assessing the quality of agricultural land" (MAFF 1988).

Climate

Grid Reference (mid point for both sites) :	SE645225
Altitude (m) :	5
Accumulated Temperature above 0°C (January-June) :	1409
Average Annual Rainfall :	593
Climatic Grade :	1
Field Capacity Days :	124
Moisture Deficit (mm) Wheat :	112
Moisture Deficit (mm) Potatoes :	105

Land Use and Relief

At the time of the survey all of the land on both sites was in agricultural production with the exception of a small area on Site A of non-agricultural land (consisting of farm buildings and allotments). The sites are both flat.

Geology and Soils

The area is underlain by Triassic Sherwood (Bunter) Sandstone over which there is a thick cover of drift including alluvium on which the soils on both sites are formed.

Topsoils consist of medium silty clay loam on Site A and the eastern part of Site B, with heavy silty clay loam occurring in the western part of Site B. Subsoils consist of heavy silty clay loam on both sites. There are no slowly permeable layers and profiles are generally moderately well drained (Wetness Class II).

AGRICULTURAL LAND CLASSIFICATION

<u>Grade/Subgrade</u>	<u>Hectares</u>	<u>Percentage of Total Area</u>
2	4.55	69.5
3a	1.85	28.2
(Subtotal)	(6.40)	(97.7)
Non Agricultural	0.08	1.2
Agricultural Buildings	0.07	1.1
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TOTAL	6.55	100.0
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Grade 2

Grade 2 land occurs on the whole of Site A and in the eastern part of Site B. Soils consist of stoneless unmottled, medium silty clay loam topsoils overlying stoneless, gleyed, mottled, but permeable, heavy silty clay loam subsoils.

The absence of slowly permeable layers results in profiles being moderately well drained (Wetness Class II). This land is limited to Grade 2 by slight soil wetness problems.

Subgrade 3a

Subgrade 3a land occurs in the central and western parts of Site B. Soils consist of stoneless, unmottled, heavy silty clay loam topsoils overlying stoneless, mottled, gleyed permeable heavy silty clay loam subsoils. These are also moderately well drained (Wetness Class II), but limited to Subgrade 3a by the increased workability problems caused by the heavier topsoil.

Non-Agricultural

This consists of a small area of allotments.

Agricultural Buildings

These consist of storage facilities.

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