



Ministry of
Agriculture
Fisheries
and Food

AGRICULTURAL LAND CLASSIFICATION
LEEDS UDP, TOPIC 839
LEEDS ROAD
COLLINGHAM, WEST YORKSHIRE
JANUARY 1995

ADAS
Leeds Statutory Group

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2 fcs 10357

SUMMARY

A detailed Agricultural Land Classification survey of 6.4 ha of land ½ km west of Collingham, south of the A659 (Topic 839 Leeds UDP) was carried out in January 1995.

At the time of survey 6.0 ha of land was in agricultural use and 5.3 ha falls into Grade 2. Soils consist of well to moderately well drained medium clay loam and medium sandy loam topsoils over sometimes gleyed medium sandy loam and loamy medium sand upper subsoils, in turn over slowly permeable clay at 70cm depth. Slight soil wetness limits this land to Grade 2.

0.7 ha of land falls into Subgrade 3b. Profiles are poorly drained, with heavy silty clay loam topsoils overlying slowly permeable silty clay subsoils. Severe soil wetness and topsoil workability restrictions limit this land to Subgrade 3b.

The remainder of the site (0.4 ha) consists of non agricultural, land, scrub and trees, south of the stream.

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT ON LAND AT LEEDS ROAD
COLLINGHAM, WEST YORKSHIRE, TOPIC 839 LEEDS UDP

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site lies approximately ½ km west of Collingham, directly south of the A659, and is centred around National Grid reference SE 381 456. The site covers a total area of 6.4 ha. Survey work was carried out in January 1995 when the soils were examined by hand auger borings at 100m intervals predetermined by the National Grid. Two soil pits were dug to allow profiles to be described in greater detail. The 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 6.0 ha of the site were under permanent grass and arable, with the remaining 0.4 ha being Non Agricultural. The site is level at an altitude of 30 m AOD.

1.3 Climate

Grid Reference	: SE 381 456
Altitude (m)	: 30
Accumulated Temperature above 0°C (January - June)	: 1377 day °C
Average Annual Rainfall (mm)	: 672
Climatic Grade	: 1
Field Capacity Days	: 172
Moisture Deficit (mm) Wheat	: 100
Moisture Deficit (mm) Potatoes	: 89

1.4 Geology, Soils and Drainage

The area is underlain by Lower Magnesian Limestone with a drift cover of Fluvoglacial terrace and alluvium to the south.

Soils to the far south near the river consist of poorly drained (Wetness Class IV), very slightly stony heavy silty clay loam topsoils over gleyed slowly permeable silty clay subsoils.

The remaining soils consist of well, moderately well and occasionally imperfectly drained (Wetness Class I, II & III) medium clay loam and medium sandy loam topsoils, over sometimes gleyed, medium sandy loam and loamy medium sand upper subsoils in turn over slowly permeable clay at 70 cm depth.

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	5.3	82.8
3a		
3b	0.7	10.9
4		
5		
(Sub total)	(6.0)	(93.7)
Urban		
Non Agricultural	0.4	6.3
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.4)	(6.3)
 TOTAL	 <u>6.4</u>	 <u>100</u>

2.1 Grade 2

Grade 2 land covers the majority of the site. Soil profiles are well, moderately well drained and occasionally imperfectly drained (Wetness Class I, II & III). Topsoils consist of very slightly stony (1-2% small to medium hard stones) medium clay loams and medium sandy loams. Upper subsoils are gleyed, permeable medium sandy loam and loamy medium sand with 4% medium/large hard stones in turn over gleyed permeable stoneless sandy clay loam with occasional slowly permeable clay at 70cm depth. This land is limited to Grade 2 by a slight soil wetness restriction.

2.2 Subgrade 3b

The remaining agricultural land is Subgrade 3b. Soils consist of very slightly stony (1% small/medium hard stones) heavy silty clay loam topsoils overlying stoneless, gleyed, slowly permeable silty clay subsoils. These soils are poorly drained (Wetness Class IV) and the land is limited to Subgrade 3b by severe soil wetness and topsoil workability restrictions.

2.3 Non Agricultural

Land in this category occurs south of the river and consists of dense scrub and trees.

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MAP