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Ministry of
Agriculture
Fisheries
and Food

AGRICULTURAL LAND CLASSIFICATION
LEEDS UDP, TOPIC 870
HAREWOOD ROAD
COLLINGHAM, WEST YORKSHIRE
FEBRUARY 1995

ADAS
Leeds Statutory Group

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SUMMARY

A detailed Agricultural Land Classification survey of 4.5 ha of land on the western edge of Collingham was carried out in February 1995.

All of the land on the site was in agricultural use and of Subgrade 3b quality. Soils are shallow and well drained. They generally consist of slightly stony, medium clay loam topsoils overlying very stony sandy clay loam subsoils with hard rock at approximately 50cm depth. Severe soil droughtiness and, in places, slope steepness limit land on this site to Subgrade 3b.

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1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site lies on the western edge of Collingham, directly south of the A659 Harewood Road and is centred around National Grid reference SE 375 455. The site covers a total of 4.5 ha. Survey work was carried out in February 1995. Soils were examined by hand auger borings at 100m intervals predetermined by the National Grid. One soil pit was dug to allow more detailed description of a soil profile. The land quality was assessed using the methods described in "Agricultural Land Classification of England and Wales. Revised guidelines and criteria fro grading the quality of agricultural land" (MAFF, 1988).

1.2 Land Use and Relief

At the time of survey, all of the site was in agricultural use for winter cereals. The site lies between 40m and 60m AOD. It is moderately to strongly sloping (6-8°) with a southerly aspect.

1.3 Climate

Grid Reference	: SE 375 455
Altitude (m)	: 50m
Accumulated Temperature above 0°C (January - June)	: 1348 day °C
Average Annual Rainfall (mm)	: 701
Climatic Grade	: 1
Field Capacity Days	: 178
Moisture Deficit (mm) Wheat	: 95
Moisture Deficit (mm) Potatoes	: 83

1.4 Geology, Soils and Drainage

The site is underlain by Lower Magnesian Limestone. There are no drift deposits. Soils are shallow and well drained (Wetness Class I). Profiles generally consist of slightly stony medium clay loam topsoils overlying very stony sandy clay loam subsoils with hard rock at 50cm depth.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	4.5	100
4		
5		
(Sub total)	(4.5)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	4.5	100

2.1 Subgrade 3b

All of the site is Subgrade 3b. Soil profiles are shallow and well drained (Wetness Class I). Topsoils are slightly stony (10-12% total small and medium angular and subangular limestones) and overlie very stony (50-70% total,angular and subangular small, medium and large limestones), sandy clay loam and medium clay loam subsoils. Hard rock lies at 40 to 60 cm depth. This land is limited to Subgrade 3b by severe soil droughtiness and, in the centre of the site, by steepness of slope.

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MAP