



AGRICULTURAL LAND CLASSIFICATION
DONCASTER UNITARY DEVELOPMENT
PLAN
SITE PH 1,2/12 DONCASTER COMMON
JANUARY 1993

ADAS
Leeds Statutory Centre

Job No: 7/93
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2 FCS 634

SITEPH12.ALC.MP

SUMMARY

An Agricultural Land Classification of approximately 6.5ha of land near Doncaster Common was carried out in January 1993.

All of this is in agricultural use of which 1.37ha falls within Subgrade 3a. Soils on this land are freely drained (Wetness Class I) and consist of medium sandy loam topsoils over medium sandy loam or medium clay loam subsoils. These soils are limited to Subgrade 3a by droughtiness.

Subgrade 3b land covers the remaining 5.1ha. Soils are freely drained (Wetness Class I) and consist of loamy medium sand and medium sandy loam topsoils over loamy medium sand and medium sand subsoils. These soils are limited to Subgrade 3b by severe droughtiness.

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT: DONCASTER UDP,
SITE PH 1, 2/12 DONCASTER COMMON

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site lies 3Km east of Doncaster centre adjacent to the racecourse, and is centred on Grid Reference SE 606027. Survey work was carried out in January 1993 when soils were examined by hand auger borings at a density of 2 borings 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 all of the site was in arable use. Site altitude is 10m AOD and the land is level.

1.3 Climate

Grid Reference	: SE 606027
Altitude (m)	: 10
Accumulated Temperature above 0°C (January-June)	: 1413 Day°C
Average Annual Rainfall (mm)	: 583
Climatic Grade	: 1
Field Capacity Days	: 120
Moisture Deficit (mm) Wheat	: 112
Moisture Deficit (mm) Potatoes	: 105

1.4 Geology, Soils and Drainage

The area is underlain at depth by Bunter Sandstone. Drift cover consists of glacial sand and gravel deposits. Soils formed on this material consist of loamy medium sand or occasionally medium sandy loam topsoils, over loamy medium sand and sand subsoils, passing occasionally to sandy clay at depth. All soils are well drained (Wetness Class I) and are similar to those within the Newport Association as mapped by the Soil Survey and Land Resource Centres.

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		
3a	1.37	21.1
3b	5.12	78.9
4		
5		
(Sub total)	(6.49)	(100.0)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
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TOTAL	6.49	100
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2.1 Subgrade 3a

Soils in this subgrade occur in the north eastern part of the site. Topsoils consist of stoneless or very slightly stony unmottled medium sandy loam and overlie faintly mottled very slightly stony medium sandy loam or sandy clay loam subsoils. Profiles are freely drained (Wetness Class I) and are limited to Subgrade 3a by droughtiness.

2.2 Subgrade 3b

Soils in this subgrade occur over the remainder of the site. Topsoils are stoneless or very slightly stony and consist of loamy medium sand or medium sandy loam over stoneless or very slightly stony unmottled loamy medium sand or medium sand subsoils. Profiles are freely drained (Wetness Class I) and are limited to Subgrade 3a by severe droughtiness.

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MAP