

**AGRICULTURAL LAND CLASSIFICATION
HARROGATE LOCAL PLAN
BOROUGHBRIDGE SITE 5
JULY 1993**

*ADAS
Leeds Statutory Group*

Job No: 32/93

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SUMMARY

An Agricultural Land Classification survey of approximately 5.6 ha of land between Boroughbridge and the A1 was carried out in June 1993.

4.8 ha of the site was in agricultural use, of which 2.1 ha falls within Grade 2. Soils are well drained (Wetness Class I) and consist of medium sandy loam topsoils over medium sandy loam subsoils. The soils are limited to Grade 2 by slight soil droughtiness.

Subgrade 3a land covers 1.3 ha. Soils are either poorly drained (Wetness Class IV), consisting of medium sandy loam topsoils over clay subsoils, or are imperfectly drained (Wetness Class III), consisting of medium clay loam topsoils over heavy clay loam upper subsoils and slowly permeable heavy clay loam lower subsoils. The land is limited to subgrade 3a by soil wetness.

Subgrade 3b land covers 1.4 ha. Soils are poorly drained (Wetness Class IV) and consist of medium clay loam or sandy clay loam topsoils over slowly permeable heavy clay loam or clay subsoils. This land is limited to subgrade 3b by soil wetness.

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AGRICULTURAL LAND CLASSIFICATION, HARROGATE LOCAL PLAN, BOROUGHBRIDGE SITE 5

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site is located between the A1 and Boroughbridge and is centred on Grid Reference SE 392663. Survey work was carried out in June 1993 when soils were examined by hand auger borings at a density of two 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 criteria for grading the quality of agricultural land" (MAFF 1988).

1.2 Land Use and Relief

At the time of survey 85.7% of the site was in agricultural production, most of which was in arable use. The remainder of the site consisted of non-agricultural land (woods) and urban (a house and garden). Site altitude is 20m AOD. The site is gently sloping.

1.3 Climate (Common data set for all Boroughbridge sites)

Grid Reference (common point for all sites)	: SE 395 665
Altitude (m)	: 20
Accumulated Temperature above °C (January-June)	: 1379 day °C
Average Annual Rainfall (mm)	: 627
Climatic Grade	: 1
Field Capacity Days	: 148
Moisture Deficit (mm) Wheat	: 106
Moisture Deficit (mm) Potatoes	: 97

1.4 Geology, Soils and Drainage

The site is underlain by the Triassic Bunter sandstone which has been covered by till and lighter textured glacial drift. Most soil profiles consist of sandy loam topsoils over sandy loam or loamy sand subsoils which are well drained (Wetness Class I). In places there are heavy clay loam lower subsoils or a medium clay loam topsoil over a heavy clay loam subsoil. These soils are imperfectly or poorly drained (Wetness Classes III and IV).

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	2.1	37.5
3a	1.3	23.2
3b	1.4	25.0
4		
5		
(Sub Total)	(4.8)	(85.7)
Urban	0.6	10.7
Non Agricultural	0.2	3.6
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub Total)	(0.8)	(14.3)
<i>TOTAL</i>	<u>5.6</u>	<u>100</u>

2.1 Grade 2

Grade 2 land covers the eastern side of the site. Profiles consist of very slightly stony medium sandy loam topsoils over similar upper subsoil with, in places, a medium clay loam lower subsoil. Profiles are well drained (Wetness Class I) and limited to Grade 2 by slight soil droughtiness.

2.2 Subgrade 3a

Subgrade 3a land occurs in the west of the site. Typical profiles consist of either medium sandy loam topsoils over slowly permeable clay subsoils, or medium clay loam topsoils over heavy clay loam upper subsoils and slowly permeable heavy clay loam lower subsoils. In the first case the soil is poorly drained (Wetness Class IV) and in the second imperfectly drained (Wetness Class III). Both soils are limited to subgrade 3a by soil wetness.

2.3 Subgrade 3b

Subgrade 3b land is found in the southern part of the site. Profiles consist of medium clay loam or sandy clay loam topsoils over heavy clay loam or clay subsoils. Profiles are poorly drained (Wetness Class IV) and limited to subgrade 3b by soil wetness.

2.4 Urban

This consists of a house and garden.

2.5 Non-agricultural

This consists of a small wooded area.

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MAP