



AGRICULTURAL LAND CLASSIFICATION
SCARBOROUGH BOROUGH WIDE
LOCAL PLAN
NORTH YORKSHIRE
FEBRUARY 1995

ADAS
Leeds Statutory Group

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SUMMARY

A detailed Agricultural Land Classification survey of 2 sites at Whitby was carried out in February 1995.

All the soils on both sites fall into Subgrade 3a. Soils are derived from boulder clay and have medium textured topsoils overlying medium or heavy textured, gleyed, upper subsoils and clayey lower subsoils. Profiles are imperfectly to moderately well drained (Wetness Classes II and III) and the land is restricted to Subgrade 3a by soil wetness limitations.

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AGRICULTURAL LAND CLASSIFICATION REPORT, SCARBOROUGH BOROUGH
WIDE LOCAL PLAN

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

Land at 2 locations near Whitby was surveyed in February 1995.

The agricultural land quality of each site is described in the following sections of this report. Both sites were surveyed in detail when soils were examined by hand auger borings at a density of one boring per hectare, at points predetermined by the National Grid. Soil profile pits were dug to examine the soil in greater detail.

All assessments were made 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).

2. AGRICULTURAL LAND CLASSIFICATION AND MAPS

2.1 LAND WEST OF RUSWARP LANE

2.1.1 Location

The land west of Ruswarp Lane has a centroid grid reference of NZ 885 100, and is located approximately 1½ km south-west of Whitby town centre.

2.1.2 Land Use and Relief

All of the site was under grass at the time of survey. Altitude ranges from 50m to 60m AOD, the land being level to gently sloping with an easterly aspect.

2.1.3 Climate

Grid Reference	: NZ 885 100
Altitude (m)	: 55
Accumulated Temperature above 0°C (January - June)	: 1308 day °C
Average Annual Rainfall (mm)	: 675
Climatic Grade	: 2
Field Capacity Days	: 178
Moisture Deficit (mm) Wheat	: 98
Moisture Deficit (mm) Potatoes	: 87

2.1.4 Geology, Soils and Drainage

Solid Carboniferous Limestone is not exposed within a metre of the surface on the site. Soils are derived from the overlying boulder clay.

Soils are moderately well drained (Wetness Class II) with medium clay loam topsoils over heavy or medium textured upper subsoils and clayey lower subsoils.

2.1.5 AGRICULTURAL LAND CLASSIFICATION
 LAND WEST OF RUSWARP LANE

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	3.4	100
3b		
4		
5		
(Sub total)	(3.4)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
 TOTAL	 3.4	 100

2.1.6 Subgrade 3a

All of the land on this site falls into Subgrade 3a. Medium clay loam topsoils overlie heavy or medium clay loam gleyed upper subsoils. Lower subsoils are heavy textured clay loam or clay, which can be slowly permeable at around 80cm depth. The land is moderately well drained (Wetness Class II), and is limited to Subgrade 3a by soil wetness.

2.2 LAND WEST OF KINGFISHER DRIVE

2.2.1 Location

The land west of Kingfisher Drive has a centroid grid reference of NZ 902 094, and is located approximately 2km south south-east of Whitby town centre.

2.2.2 Land Use and Relief

All of the site was under set-aside at the time of survey. Altitude ranges from 65m to 75m AOD, the land being level or gently sloping with a north-easterly aspect.

2.2.3 Climate

Grid Reference	: NZ 902 094
Altitude (m)	: 70
Accumulated Temperature above 0°C (January - June)	: 1291 day °C
Average Annual Rainfall (mm)	: 677
Climatic Grade	: 2
Field Capacity Days	: 178
Moisture Deficit (mm) Wheat	: 96
Moisture Deficit (mm) Potatoes	: 85

2.2.4 Geology, Soils and Drainage

Solid Carboniferous Limestone is not exposed within a metre of the surface on the site. Soils are derived from the overlying boulder clay.

Soils are imperfectly drained (Wetness Class III), with medium clay loam topsoils overlying heavy or medium textured upper subsoils and clayey lower subsoils.

2.2.5 AGRICULTURAL LAND CLASSIFICATION
 LAND WEST OF KINGFISHER DRIVE

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	1.9	100
3b		
4		
5		
(Sub total)	(1.9)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
 TOTAL	 <u>1.9</u>	 <u>100</u>

2.2.6 Subgrade 3a

All of the land on this site falls into Subgrade 3a. Medium clay loam topsoils overlie gleyed heavy or medium clay loam upper subsoils, and heavy clay loam or clay lower subsoils. Lower subsoils become slowly permeable at around 45cm to 70cm depth.

The land is imperfectly drained (Wetness Class III), and is limited to Subgrade 3a by soil wetness.

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