MAFF Ministry of Agriculture Fisheries and Food

# AGRICULTURAL LAND CLASSIFICATION
# LEEDS UDP
# WEST YORKSHIRE
# TOPIC 706
# NOVEMBER 1994

ADAS
Leeds Statutory Group
2FCS 10355

Job No:- 144/94
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2FCS 10355

# SUMMARY

A detailed Agricultural Land Classification survey of 5.9 ha of land at Carlton, was carried out in November 1994.

At the time of survey 73% of the site was in agricultural use and all of this land (4.3 ha) falls in Subgrade 3a. The soils are moderately drained with medium clay loam or topsoils and upper subsoils overlying gleyed and slowly permeable heavy clay loam, heavy silty clay loam or silty clay lower subsoils. All of the land is restricted to Subgrade 3a by soil wetness and topsoil workability limitations.

In addition to the agricultural land, 1.6 ha of Agricultural Buildings occur on this site.

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# AGRICULTURAL LAND CLASSIFICATION REPORT ON LAND AT CARLTON (TOPIC 706), LEEDS UDP

## 1. INTRODUCTION AND SITE CHARACTERISTICS

### 1.1 Location and Survey Methods

The site lies approximately 7km south of Leeds city centre, to the south east of Carlton village. It covers a total of 5.9 ha and lies around Grid Reference SE 338 271. Survey work was carried out in November 1994 when soils were examined by hand auger borings at 100m intervals predetermined by the National Grid. In addition a soil pit was dug to allow the soils 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 73% of the site was in agricultural use with most of the land being either fallow or growing fruit crops.

The site is level to very gently sloping with an average altitude of 50m AOD.

### 1.3 Climate

| | |
|---|---|
| Grid Reference | : SE 338 271 |
| Altitude (m) | : 50 |
| Accumulated Temperature above 0°C (January - June) | : 1363 day °C |
| Average Annual Rainfall (mm) | : 640 |
| Climatic Grade | : 1 |
| Field Capacity Days | : 150 |
| Moisture Deficit (mm) Wheat | : 103 |
| Moisture Deficit (mm) Potatoes | : 93 |

1.4 Geology, Soils and Drainage

This site is underlain by Carboniferous Coal Measures consisting of interbedded sandstones and shales. The soils on the site are mostly derived from weathering shale but some profiles have developed from sandstone.

Generally the soils are moderately drained, falling in Wetness Class III, with medium clay loam top and upper subsoils overlying slowly permeably heavy clay loam, heavy silty clay loam or silty clay subsoils.

## 2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

| Grade/Subgrade | Hectares | Percentage of Total Area |
|---|---|---|
| 1 | | |
| 2 | | |
| 3a | 4.3 | 73 |
| 3b | | |
| 4 | | |
| 5 | | |
| (Sub total) | (4.3) | (73) |
| Urban | | |
| Non Agricultural | | |
| Woodland - Farm | | |
| - Commercial | | |
| Agricultural Buildings | 1.6 | 27 |
| Open Water | | |
| Land not surveyed | | |
| (Sub total) | (1.6) | (27) |
| TOTAL | 5.9 | 100 |

2.1 Subgrade 3a

All of the agricultural land on this site falls in Subgrade 3a. The soils are moderately drained, falling in Wetness Class III, with medium clay loam or topsoils and upper subsoils overlying gleyed and slowly permeable heavy clay loam, heavy silty clay loam or silty clay subsoils.

This land is restricted to Subgrade 3a by soil wetness and workability problems.

2.2 Agricultural Buildings

Agricultural Buildings occur in the north of the site.

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MAP