

AGRICULTURAL LAND CLASSIFICATION

WAKEFIELD VDP SITE W/I/12:-
LODGE HILL, OSSETT

MAFF
Leeds Regional Office

November 1991
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lds.ali.Lodge.H11

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT,

1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:-

SE 285218

Location Details:-

4km east of Dewsbury

Site Size:-

79 ha

1.2 Survey Methods

Date Surveyed:-

November 1991

Boring Density and Spacing Basis:-

At 100m intervals on a
grid pattern
predetermined by the
national grid

Sampling Method:-

By hand auger borings
to a depth of 1m

Number of Borings:-

72

All land quality 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)".

This detailed survey supercedes the previous "1" to one mile" survey of the area.

1.3 Land Use:-

At the time of the
survey most land was in
arable use

1.4 Climate and Relief

Average Annual Rainfall (AAR):-	690 mm
Accumulated Temperature above 0°C (January-June):-	1321 day °C
Field Capacity Days:-	167 days
Altitude average:-	90 m a.o.d.
maximum:-	117 m a.o.d.
minimum:-	70 m a.o.d.
Climatic limitation (based on interaction of rainfall and temperature values):-	Grades 1/2 boundary
Relief:-	Land slopes generally from west to east
Slopes (°):-	2° - 9°
Gradient Limitations:-	yes
Limiting gradient(s):-	9°
Grade(s)/subgrade(s):-	3b
Occurrence on site:-	Near Lodge Hill Farm

1.5 Geology and Soil

Solid Strata:-	Carboniferous Coal Measures
Depth of solid rock from surface:-	Generally more than 1m with the exception of land near Lodge Hill Farm where sandstone bedrock is recorded at approx 70 cm depth

Drift types:-

Boulder clay

**Thickness of drift
and distribution:-**

Occurs only locally as
thin patches over Coal
Measure clays

Soil Types and Distribution:-

Mainly poorly drained
heavy coal measures
shale soils. Some
freely drained light
soils over sandstone
occur around Lodge Hill
Farm

Soil Textures (topsoils and subsoils):-

Topsoils with few
exceptions consist of
medium clay loam over
heavy clay loam, silty
clay or clay subsoils.
There are also
occasional patches of
sandy clay loam

Soil Series/Associations:-

On 1/250000 map:-

Rivington 1 and Dale

Identified on site:-

Rivington and Dale

1.6 Drainage

Soil type and Wetness Class:-

Medium and heavy soils
Wetness Class III & IV
Light textured soils
Wetness Class I

Drainage Limitations:-

Slowly permeable
subsoils in the heavy
soils

2.0 Agricultural Land Classification Grades

The ALC grades occurring on the site are as follows:-

<u>Grade/Subgrade</u>	<u>Hectares</u>	<u>Percentage of</u>	<u>Percentage of</u>
		<u>Agricultural Area</u>	<u>Total Area</u>
3a	11.76	16	15
3b	62.31	84	79
Non Agricultural	0.01	-	-
Agricultural Buildings	2.85	-	4
Urban	1.97	-	2
	-----	-----	-----
Total	78.90	100	100
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Subgrade 3a

Distribution on site:-

Two areas occur on the site, one running west from Owlars Farm and a small area to the east of Lodge Hill Farm

Soil Type(s) and Texture(s):-

Medium clay loam topsoils over similar subsoils which are occasionally heavier at depth

Depth to Slowly Permeable Layers:-

Slowly permeable layers occur in a few places between 40-60 cm depth

Wetness and Drainage Class:-

Generally Wetness Class I

Stone Percentage and Type:-

2-10% medium soft sandstone in the topsoil reaching shattered bedrock at between 40-100 cm depth

Grade Limiting Factors:-

Soil droughtiness

Subgrade 3b

Distribution on site:-

This subgrade covers the greater part of the site

Soil Type(s) and Texture(s):-

Generally medium clay loams over similar or heavier subsoils. Light soils over sandstone occur locally around Lodge Hill

Depth to Slowly Permeable Layers:-

30 - 40 cm

Wetness and Drainage Class:-

Wetness Class IV - poorly drained

Stone Percentage and Type:-

A few medium soft sandstones

Grade Limiting Factors:-

Soil wetness and associated workability problems. Occasionally soil droughtiness on localised areas of shallow stony soil

Grade 4

Distribution on site:-

Restricted to an area of restored land south of New Park Grange

Soil Type(s) and Texture(s):-

There is a little or no topsoil on this part of the site. The subsoil consists of shaly silty clay

Depth to Slowly Permeable Layers:-

Soils are slowly permeable from the surface to depth

Wetness and Drainage Class:-

Wetness Class IV - poorly drained

Stone Percentage and Type:-

Many small and medium angular shale and mudstone fragments and few angular coal fragments

Grade Limiting Factors:-

Lack of topsoil

Non Agricultural

Type and location of land included:-

A small patch of
woodland east of Lodge
Hill

Agricultural Buildings

Type and location of building included:-

Farm buildings at Lodge
Hill and Owlars Farms

Urban

Type of land use included:-

Roads and access tracks
crossing the site

Resource Planning Group
Leeds Regional Office
November 1991

MAP