AGRICULTURAL LAND CLASSIFICATION

VILLAGE FARM

WARTHILL

NORTH YORKSHIRE

MAFF

Leeds Regional Office

June 1991

File Ref: 2FCS 5421

Project No: 53/91

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AGRICULTURAL LAND CLASSIFICATION REPORT
ON LAND AT VILLAGE FARM, WARTHILL, NORTH YORKSHIRE

1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:- SE 679 545

Location Details:- 8½ Km NE of York City Centre, at the Southern end of the village of Warthill.

Site Size:- 49 ha

1.2 Survey Methods

Date Surveyed:- 29 May 1991

Boring Density and Spacing Basis:- 1 boring per hectare, at 100 m intervals pre-determined by the National Grid.

Sampling Method:- Hand auger to a depth of 1.00 m.

Number of Borings:- 49

Number of Soil Pits (used for):- One, for assessment of soil structure

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)".

1.3	**Land Use:-**	All land is in arable use.
1.4	**Climate and Relief**	
	Average Annual Rainfall (AAR):-	593 mm
	Accumulated Temperature above 0°C (January-June):-	1,381 day °C
	Field Capacity Days:-	123 days
	Altitude average:-	30 m a.o.d.
	maximum:-	38 m a.o.d.
	minimum:-	23 m a.o.d.
	Climatic limitation (based on interaction of rainfall and temperature values:-	None
	Gradient Limitation	None
1.5	**Geology and Soil**	
	Solid Strata:-	Triassic Sandstone
	Depth of solid rock from surface:-	Greater than 1.00 m
	Drift types:-	Glaciofluvial sand
	Thickness of drift and distribution:-	More than 1 m over the whole site.

Soil Types and Distribution:- Light textured soils predominate although some medium to heavy textured soils also occur in the central and southern parts of the site.

Soil Textures (topsoils and subsoils):- Generally loamy sand or sandy loam topsoils and subsoils. Medium textured topsoils and medium to heavy textured subsoils are found in places in the central and southern parts of the site.

Soil/Associations:-

On 1/250000 map:-

Identified on site:- Brickfield II, Everingham, Newport.

Soil Limitations and type:- Predominantly droughtiness.

1.6 Drainage

Soil type and Wetness Class:- The light textured soils fall into Wetness class I. The medium and heavy textured soils in Wetness Class II.

Drainage Limitations:- None

2.0 Agricultural Land Classification Grades

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

Grade/Subgrade	Hectares	Percentage of Agricultural Area	Percentage of Total Area
2	14.7	30.8	30.8
3a	33.1	69.2	69.2
Non Agricultural			
Agricultural Buildings			
Urban			
Other			
Total	47.8	100	100

Grade 2

Distribution on site:- At higher altitudes in the centre of the site and in a band running along the SE edge.

Soil Type(s) and Texture(s):- Light or medium textured soils - generally medium sandy loam or medium clay loam topsoils overlying medium sandy loam or sandy clay loam subsoils.

Depth to Slowly Permeable Layers: No slowly permeable layers are present.

Wetness and drainage Class:- Wetness Classes I and II.

Stone Percentage and Type:- Stoneless.

Subgrade 3a

Distribution on site:- Widespread throughout the site with the exception of the higher land in the centre and a band along the SE edge.

Soil Type(s) and Texture(s):- Light textured soils - often loamy fine sand or fine sandy loam over loamy sand or sandy loam.

Depth to Slowly Permeable Layers:- No slowly permeable layers present.

Wetness and Drainage Class:- Generally Wetness Class I.

Stone Percentage and Type:- Stoneless.

Grade Limiting Factors:- Droughtiness and wind erosion risk.

Non Agricultural

Type and location of land included:- None

Agricultural Buildings

Type and location of building included:- None

Urban

Type of land use included:- None

Resource Planning Group
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