

AGRICULTURAL LAND CLASSIFICATION

SOUTH TYNESIDE UDP

SITE Y, LAND AT WEST HOUSE FARM, HEBBURN
TYNE AND WEAR

MAFF
Leeds Regional Office

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lds.AL5Hebb.urn

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT, LAND AT WEST HOUSE FARM, HEBBURN,
TYNE AND WEAR.

1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:- NZ 326611
Location Details:- 3½ km, south-east of
Hebburn town centre to
the west of the A19(T)

Site Size:- 70 ha

1.2 Survey Methods

Date Surveyed:- 12 February 1992

Boring Density and Spacing Basis:- One per hectare carried
out at 100m intervals
at points predetermined
by the National Grid.

Sampling Method:- By hand auger to a
depth of 1.00m

Number of Borings:- 57

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 supersedes the previous "1" to one mile" survey of
the area.

1.3 Land Use:- Mainly arable and permanent grazing but with significant areas of urban and non-agricultural land and a small area of agricultural buildings

1.4 Climate and Relief

Average Annual Rainfall (AAR):-	635 mm
Accumulated Temperature above 0°C (January-June):-	1322 day °C
Field Capacity Days:-	156 days
Moisture Deficit:	
wheat:-	97 mm
potatoes:-	84 mm
Altitude average:-	38 m a.o.d.
maximum:-	40 m a.o.d.
minimum:-	36 m a.o.d.
Climatic limitation (based on interaction of rainfall and temperature values):-	None
Relief:-	Flat to gently sloping
Slopes (°):-	0° to 2°
Gradient Limitations:-	None

1.5 Geology and Soil

Solid Strata:-

Carboniferous Coal
Measures

Depth of solid rock from surface:-

Greater than 1.00m
across the whole site

Drift types:-

Lacustrine Clay

Thickness of drift

Greater than 1.00m
across the whole site

and distribution:-

Soil Types and Distribution:-

Medium to
heavy-textured soils
cover the whole site.

Soil Textures (topsoils and subsoils):-

Generally medium to
heavy clay loam
topsoils over clay
subsoils

Soil Series/Associations:-

On 1/250000 map:-

Foggathorpe I

Identified on site:-

Foggathorpe I

Soil Limitations and type:-

Soil wetness and
workability are the
main factors limiting
ALC grade on the site

1.6 Drainage

Soil type and Wetness Class:-

Soils are poorly drained (Wetness Class IV)

Drainage Limitations:-

Slowly permeable layers generally start at around 30 cm depth and soils are thus poorly drained.

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 Total</u>
		<u>Agricultural Area</u>	<u>Area</u>
1			
2			
3a			
3b	58.0	100	82.5
4			
5			
Non Agricultural	8.4		11.9
Agricultural Buildings	0.3		0.4
Urban	3.6		5.2
Other	_____	_____	_____
Total	70.3	100	100
	_____	_____	_____

Subgrade 3b

Distribution on site:- Land in this subgrade includes all of the agricultural land on the site

Soil Type(s) and Texture(s):- Medium to heavy-textured soils, generally consisting of medium clay loam or heavy clay loam topsoils, overlying clay subsoils

Depth to Slowly Permeable Layers:- Slowly permeable layers generally start at around 30 cm depth

Wetness and Drainage Class:- Soils are all poorly drained, falling in Wetness Class IV

Stone Percentage and Type:- Generally stoneless

Grade Limiting Factors:- Soil wetness and workability problem

Non Agricultural

Type and location of land included:-

Scrubland, principally in the north of the site but also in the north-west and south-east

Agricultural Buildings

Type and location of building included:-

A number of small agricultural buildings to the north of West House Farm

Urban

Type of land use included:-

A new housing development in the north-east of the site, West House Farm and Colin House in the south-east. Also farm tracks in the south-east

MAP