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AGRICULTURAL LAND CLASSIFICATION
SCARBOROUGH DISTRICT WIDE
LOCAL PLAN
NORTH YORKSHIRE
DECEMBER 1994

ADAS
Leeds Statutory Group
2FCS 10371 - 85

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SUMMARY

A detailed Agricultural Land Classification survey of 14 separate sites within Scarborough District was carried out in December 1994.

The following table summarises the results of the survey:

		Area (ha)				
		Grade 2	Subgrade 3a	Subgrade 3b	Grade 4	Other Land
Land at Hunmanby	Ref R2/6	-	6.7	12.4	-	-
Land at West Ayton	Ref 13/1 and 13/2	3.8	6.1	-	-	-
Land at Seamer	Ref R9/9	8.3	-	-	-	-
Land at Cayton	Ref R8/6	-	10.1	2.0	0	3.6
Land at Cayton Low Road	Ref O.S. 4537	-	-	5.6	-	0.4
Land at Burniston	Ref R20/9 and R20/10	-	2.9	2.8	-	0.5
Land at Hunmanby	Ref 2/4	4.9	-	-	-	-
Land at Filey	Ref 3/4	-	-	8.2	-	-
Land at Cayton	Ref 8/4	-	1.9	0.9	-	-
Land at Burniston	Ref 20/3	-	3.1	0.4	0.3	-
Land at Burniston	Ref 24/1	1.2	3.0	0.8	-	0.3
Land at Seamer	Ref 9/4	11.0	-	-	-	-
Land at Irton	Ref 11/3	5.3	-	-	-	0.4
Land at Scalby	Ref 18/2	2.3	2.8	2.4	-	1.5

AGRICULTURAL LAND CLASSIFICATION SCARBOROUGH DISTRICT WIDE LOCAL PLAN

1. Introduction and Site Characteristics.

1.1 Location and Survey Methods.

Land at 14 locations within the Scarborough District were surveyed in December 1994.

The agricultural land quality of each of these sites is described in detail in the following sections of this report. All the 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 representative soil types 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).

2.1 LAND AT HUNMANBY, Reference R2/6

2.1.1 Location

The site at Hunmanby has a centroid grid reference of TA 103 782 and is located about 1 km north east of the village.

2.1.2 Climate

Grid Reference	: TA 103 782
Altitude (m)	: 45
Accumulated Temperature above 0°C (January - June)	: 1328
Average Annual Rainfall (mm)	: 680
Climate Grade	: 1
Field Capacity Days	: 168
Moisture Deficit (mm) Wheat	: 105
Moisture Deficit (mm) Potatoes	: 96

2.1.3 Land Use & Relief

All the site is under grass. Altitude ranges from 38 m to 46 m AOD. Relief is mostly gentle although some moderate slopes are found on small hills in the north of the site. Aspect is variable.

2.1.4 Geology, Soils and Drainage

Solid Chalk and Lower Cretaceous Clay is covered with thick deposits of Boulder Clay and Glaciofluvial Drift.

Soils are either poorly or imperfectly drained (Wetness Class IV or III) with medium clay loam or sandy clay loam topsoils over similar textured upper subsoils (imperfectly drained) or clayey subsoils (poorly drained).

2.1.5. AGRICULTURAL LAND CLASSIFICATION, LAND AT HUNMANBY, Ref R2/6

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	6.7	35
3b	12.4	65
4		
5	(19.1)	(100)
(Sub total)		
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	19.1	100

2.1.6 Subgrade 3a

Imperfectly drained land (Wetness Class III) is limited to this Subgrade by soil wetness.

2.1.7 Subgrade 3b

This poorly drained land (Wetness Class IV) is limited by soil wetness.

2.2 LAND AT WEST AYTON, Reference R13/1 and R13/2

2.2.1 Location

The site is located about 1 km south west of the village of West Ayton and has a centroid Grid Reference of SE 983 841.

2.2.2 Climate

Grid Reference	: SE 983 841
Altitude (m)	: 35
Accumulated Temperature above 0°C (January - June)	: 1340
Average Annual Rainfall (mm)	: 706
Climatic Grade	: 1
Field Capacity Days	: 175
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 90

2.2.3 Land Use and Relief

The site is level or gently sloping and relief does not limit ALC grade. Average altitude is 35m AOD. At the time of survey all the site was in arable use.

2.2.4 Geology, Soils and Drainage

Solid Jurassic strata are not exposed within a metre of the surface. Soils are all developed from light textured Glaciofluvial Drift. Topsoils are typically medium sandy loam or sandy clay loam over similar textured subsoils. Topsoils and subsoils were very slightly to moderately stony. These soils are well drained but droughty.

2.2 LAND AT WEST AYTON, Reference R13/1 and R13/2

2.2.1 Location

The site is located about 1 km south west of the village of West Ayton and has a centroid Grid Reference of SE 983 841.

2.2.2 Climate

Grid Reference	: SE 983 841
Altitude (m)	: 35
Accumulated Temperature above 0°C (January - June)	: 1340
Average Annual Rainfall (mm)	: 706
Climatic Grade	: 1
Field Capacity Days	: 175
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 90

2.2.3 Land Use and Relief

The site is level or gently sloping and relief does not limit ALC grade. Average altitude is 35m AOD. At the time of survey all the site was in arable use.

2.2.4 Geology, Soils and Drainage

Solid Jurassic strata are not exposed within a metre of the surface. Soils are all developed from light textured Glaciofluvial Drift. Topsoils are typically medium sandy loam or sandy clay loam over similar textured subsoils. Topsoils and subsoils were very slightly to moderately stony. These soils are well drained but droughty.

2.2.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT WEST AYTON, Reference R13/2 and R13/1

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	3.8	38
3a	6.1	62
3b		
4		
5	(9.9)	(100)
(Sub total)		
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	9.9	100

2.2.6 Grade 2

Deep, well drained soils with a medium sandy loam or sandy clay loam top and subsoil are graded 2. Slight droughtiness is the principal limiting factor.

2.2.7 Subgrade 3a

This land contains soils similar to those graded 2. However, subsoils are occasionally shallow over gravelly material increasing the drought limitation to Subgrade 3a.

2.3 LAND AT SEAMER, Reference R9/9

2.3.1 Location

The site at Seamer lies to the south of the village, north of Long Lane and west of Crab Lane. It has a centroid grid reference of TA 026 835.

2.3.2 Climate

Grid Reference	: TA 026 835
Altitude (m)	: 35
Accumulated Temperature above 0°C (January - June)	: 1340
Average Annual Rainfall (mm)	: 675
Climatic Grade	: 1
Field Capacity Days	: 163
Moisture Deficit (mm) Wheat	: 104
Moisture Deficit (mm) Potatoes	: 95

2.3.3 Land Use and Relief

At the time of survey all the site was in arable use, the glasshouses having been removed. The land is level at an altitude of 35 m AOD.

2.3.4 Geology, Soils and Drainage

Solid Jurassic Limestone is covered with thick deposits of Glaciofluvial Drift. Topsoils and subsoils are typically medium sandy loam, occasionally over gravel at about 50 cm depth. These soils are well drained but droughty.

2.3.5 AGRICULTURAL LAND CLASSIFICATION REPORT ON LAND AT SEAMER Reference R9/9

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	8.3	100
3a		
3b		
4		
5		
(Sub total)	(8.3)	(100)
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	8.3	100

2.3.6 Grade 2

All the site is graded 2. Topsoils and subsoils are typically medium sandy loam occasionally over gravel at about 80 cm depth.

Slight droughtiness limits this land to Grade 2.

2.4 LAND AT CAYTON, Reference R8/6

2.4.1 Location

The site lies to the north of Cayton with a centroid grid reference of TA054 840.

2.4.2 Climate

Grid Reference	: TA 054 840
Altitude (m)	: 50
Accumulated Temperature above 0°C (January - June)	: 1321
Average Annual Rainfall (mm)	: 642
Climatic Grade	: 1
Field Capacity Days	: 151
Moisture Deficit (mm) Wheat	: 105
Moisture Deficit (mm) Potatoes	: 95

2.4.3 Land Use and Relief

Most of the agricultural land on the site is in arable use. The site also contains a sports ground towards the south. Slopes are moderate to gentle and do not limit ALC grade. The altitude ranges from 45 m AOD in the south to 70 m AOD in the north and the land has a southerly aspect.

2.4.4 Geology, Soils and Drainage

Solid Jurassic Limestone and Clay strata are not exposed within a metre of the surface. Soils are all developed from Boulder Clay Drift. Topsoils and upper subsoils are typically medium clay loam over a clayey, slowly permeable lower subsoil Most profiles are imperfectly drained (Wetness Class III).

2.4.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT CAYTON, Reference R8/6

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	10.1	53
3b	2.0	10
4		
5		
(Sub total)	(12.1)	(63)
Urban		
Non Agricultural	3.6	19
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed	3.5	18
(Sub total)	(7.1)	(37)
Total	19.2	100

2.4.6 Subgrade 3a

Most of the agricultural land was Subgrade 3a. Top and upper subsoils were typically medium clay loam over a clayey, slowly permeable lower subsoil. Soil wetness and workability limit the ALC grade of this land.

2.4.7 Subgrade 3b

A small area of this subgrade was mapped on poorly drained land with a more severe soil wetness limitation than elsewhere on the site.

2.4.8 Non Agricultural

This includes the sports ground.

2.4.9 Not Surveyed

Access was refused to a portion of the site which remains unsurveyed.

2.5 LAND AT CATON LOW ROAD, Reference O.S. 4537

2.5.1 Location

This site is located south of Eastfield and east of the Plaxton coachworks. It has a centroid Grid Reference of TA 044 834.

2.5.2 Climate

Grid Reference	: TA 044 834
Altitude (m)	: 35
Accumulated Temperature above 0°C (January - June)	: 1339
Average Annual Rainfall (mm)	: 651
Climatic Grade	: 1
Field Capacity Days	: 155
Moisture Deficit (mm) Wheat	: 106
Moisture Deficit (mm) Potatoes	: 97

2.5.3 Land Use and Relief

At the time of survey all the agricultural land was in arable use. A small urban area was identified in the north west of the site. The site has gentle to moderate relief with variable aspect. A number of low lying areas on the site were flooded at the time of survey. Average altitude is 35 m AOD.

2.5.4 Geology, Soils and Drainage

Solid Jurassic strata of Limestone and clay are covered with thick deposits of Boulder Clay Drift. Soils are generally poorly drained with medium clay loam topsoils over clayey, slowly permeable subsoils. Those soils are Wetness Class IV.

2.5.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT CAYTON LOW ROAD
Reference O.S.4537

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	5.6	93
4		
5		
(Sub total)	(5.6)	(93)
Urban	0.4	7
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.4)	(7)
Total	6.0	100

2.5.6 Subgrade 3b

All the agricultural land was Subgrade 3b. Topsoils were usually medium clay loam over a clayey, slowly permeable subsoil. Soil wetness limits the ALC grade of this poorly drained land.

2.5.7 Urban

A small urban area was identified in the north west of the site.

2.6 LAND AT BURNISTON, Reference 20/9 & 20/10

2.6.1 Location

The site at Burniston has a centroid Grid Reference of TA 012 927, and is located approximately 5 km north of Scarborough adjacent to the A171(T).

2.6.2 Climate

Grid Reference	: TA 012 927
Altitude (m)	: 50
Accumulated Temperature above 0°C (January - June)	: 1319
Average Annual Rainfall (mm)	: 734
Climatic Grade	: 2
Field Capacity Days	:183
Moisture Deficit (mm) Wheat:	: 97
Moisture Deficit (mm) Potatoes	: 85

2.6.3 Land Use and Relief

The whole site lies under grass. Altitude varies from 45 m to 53 m AOD. Relief is level to very slightly sloping (0 - 2°), with a mainly southerly aspect.

2.6.4 Geology, Soils and Drainage

Solid geology consists of Jurassic Sandstone and Clay with overlying Boulder Clay drift.

Soils are moderately well drained and poorly drained (Wetness Class II & IV) with medium silty clay loam and medium clay loam topsoils over similar gleyed subsoils (moderately well drained) and clay subsoils (poorly drained).

2.6.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT BURNISTON, Reference 20/9, 20/10

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	2.9	47
3b	2.8	45
4		
5		
(Sub total)	(5.7)	(92)
Urban		
Non Agricultural	0.5	8
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.5)	(8)
Total	6.2	100

2.6.6 Subgrade 3a

Moderately well drained land (Wetness Class II) lies to the north of the site and is limited to Subgrade 3a by moderate soil wetness restrictions.

2.6.7 Subgrade 3b

The remaining agricultural land is poorly drained (Wetness Class IV) and is limited to Subgrade 3b by severe soil wetness and workability restrictions.

2.6.8 Non-Agricultural

This corresponds to area 20/9, is covered by bracken, bushes and small trees.

2.7 LAND AT HUNMANBY, Reference 2/4

2.7.1 Location

The site lies on the north west edge of the village of Hunmanby, west of Muston Road. It has a centroid grid reference of TA 092 779.

2.7.2 Climate

Grid Reference	: TA 092 779
Altitude (m)	: 90
Accumulated Temperature above 0°C (January - June)	: 1278
Average Annual Rainfall (mm)	: 705
Climatic Grade	: 2
Field Capacity Days	: 173
Moisture Deficit (mm) Wheat	: 98
Moisture Deficit (mm) Potatoes	: 86

2.7.3 Land Use and Relief

At the time of survey the site was growing winter cereals. The land slopes moderately with an easterly aspect. Average altitude is 90 m AOD.

2.7.4 Geology, Soils and Drainage

Solid Chalk strata are covered with deposits of Glaciofluvial Drift. Soils are well drained, typically a deep sandy loam. Topsoils and subsoils are generally very slightly stony.

2.7.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT HUNMANBY, Reference 2/4

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	4.9	100
3a		
3b		
4		
5		
(Sub total)	(4.9)	(100)
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	4.9	100

2.7.6 Grade 2

The whole site ie Grade 2. It is well drained (Wetness Class I) typically with a very slightly stony medium sandy loam topsoil and subsoil. Slight droughtiness and the overall climatic limitation restrict the ALC grade of this site.

2.8 LAND AT FILEY, Reference 3/4

2.8.1 Location

The site lies to the west of Filey and south of the Scarborough to Filey Road. It has a centroid Grid Reference of TA 105 813.

2.8.2 Climate

Grid Reference	: TA 105 813
Altitude (m)	: 40
Accumulated Temperature above 0°C (January - June)	: 1333
Average Annual Rainfall (mm)	: 662
Climatic Grade	: 1
Field Capacity Days	: 162
Moisture Deficit (mm) Wheat	: 108
Moisture Deficit (mm) Potatoes	: 99

2.8.3 Land Use and Relief

At the time of survey all the site was under permanent pasture. Slope does not limit ALC grade. Aspect is variable and the average altitude is 40 m AOD.

2.8.4 Geology, Soils and Drainage

Solid Jurassic Clay is covered with thick deposits of Boulder Clay Drift. Topsoils are medium clay loam over clayey, slowly permeable subsoils. These soils are poorly drained and soil Wetness Class IV.

2.8.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT FILEY, Reference 3/4

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	8.2	100
4		
5		
(Sub total)	(8.2)	(100)
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	8.2	100

2.8.1 Subgrade 3b

The whole site is Subgrade 3b. Soil wetness and workability problems limit the ALC grade of this land.

2.9 LAND AT CAYTON, Reference 8/4

2.9.1 The site at Cayton has a centroid Grid Reference of TA 056 830, and is located to the south south east of Cayton approximately 5 km south of Scarborough Centre off the B1261.

2.9.2 Climate

Grid Reference	: TA 056 830
Altitude (m)	: 37
Accumulated Temperature above 0°C (January - June)	: 1336
Average Annual Rainfall	: 650
Climatic Grade	: 1
Field Capacity Days	: 155
Moisture Deficit (mm) Wheat	: 106
Moisture Deficit (mm) Potatoes	: 97

2.9.3 Land Use and Relief

The majority of the site is in arable use with a small central area of ley grass. The site is level to gently sloping (0 - 3°) and lies at an altitude of between 35 m and 40 m AOD.

2.9.4 Geology, Soils and Drainage

Solid geology is mapped as Jurassic Limestone with Boulder Clay drift.

Soils are imperfectly to poorly drained (Wetness Class III and IV), with profiles typically comprising very slightly stony medium clay loam topsoils over similar upper subsoils in turn over slowly permeable clay subsoils (Wetness Class III). Remaining soils are similar with slowly permeable clay occurring at a shallower depth (Wetness Class IV).

2.9.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT CAYTON, Reference 8/4

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	1.9	68
3b	0.9	32
4		
5	(2.8)	(100)
(Sub total)		
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	2.8	100

2.9.6 Subgrade 3a

Subgrade 3a land occurs in the east and west of the site. Soils generally consist of very slightly stoney to stoneless medium clay loam topsoils over similar gleyed permeable upper subsoils in turn over gleyed slowly permeable clay at or below 50 cm depth. These soils are imperfectly drained (Wetness Class III) and are limited by moderate wetness limitations.

2.9.7 Subgrade 3b

This land lies centrally, soil profiles are similar to Subgrade 3a, however the slowly permeable clay layer occurs within 40 cm. The soils fall into Wetness Class IV (poorly drained) and are limited to Subgrade 3b by severe wetness and workability restrictions.

2.10 LAND AT BURNISTON, Reference 20/3

2.10. Location

The site lies east of Burniston and has a centroid grid reference of TA 010 935.

2.10.2 Climate

Grid Reference	: TA 010 935
Altitude (m)	: 50
Accumulated Temperature above 0°C (January - June)	: 1318
Average Annual Rainfall (mm)	: 740
Climatic Grade	: 2
Field Capacity Days	: 186
Moisture Deficit (mm) Wheat	: 96
Moisture Deficit (mm) Potatoes	: 84

2.10.4 Land Use and Relief

Most of the site was in arable use at the time of survey. Relief is mostly gentle, except adjacent to the Burniston Beck where it limits ALC grade. The site has an average altitude of 50 m AOD.

2.10.4 Geology, Soils and Drainage

Solid Jurassic Sandstone and Clay are covered with thick deposits of Boulder Clay Drift. Topsoils are typically medium clay loam over similar textured upper susboils (where present). Lower subsoils are clayey and slowly permeable. Profiles with an upper subsoil are Wetness Class III, imperfectly drained and those with no upper subsoil are Wetness Class IV, poorly drained.

2.10.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT BURNISTON, Reference 20/3

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	3.1	82
3b	0.4	11
4	0.3	7
5		
(Sub total)	(3.8)	(100)
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	3.8	100

2.10.6 Subgrade 3a

Most of the site is Subgrade 3a. Soils are generally imperfectly drained and limited by soil wetness and workability.

2.10.7 Subgrade 3b

A small area of this subgrade was mapped in the south of the site. A more severe soil wetness problem further limits the grade of this land to Subgrade 3b.

2.10.8 Grade 4

This land adjacent to the Burniston Beck is limited by slope.

2.11 LAND AT BURNISTON, Reference 24/1

2.11.1 Location

The site is located to the north of Burniston and east of Mill Lane. It has a centroid Grid Reference of TA 010 938.

2.11.2 Climate

Grid Reference	: TA 010 938
Altitude (m)	: 50
Accumulated Temperature above 0°C (January - June)	: 1318
Average Annual Rainfall (mm)	: 741
Climatic Grade	: 2
Field Capacity Days	: 186
Moisture Deficit (mm) Wheat	: 96
Moisture Deficit (mm) Potatoes	: 83

2.11.3 Land Use and Relief

Most of the site was under grass at the time of survey. A field in the east of the site was arable and a new woodland plantation crossed the site east west. Relief is level or gentle and does not limit ALC grade. The average altitude is 50 m AOD.

2.11.4 Geology, Soils and Drainage

Solid Jurassic Sandstone and Clay are covered with thick deposits of Boulder Clay Drift. Topsoils are either sandy clay loam or medium clay loam, usually over a similar textured upper subsoil. Profiles range from poorly to moderately well drained (Wetness Class II or IV).

2.11.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT BURNISTON, Reference 24/1

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	1.2	23
3a	3.0	56
3b	0.8	15
4		
5		
(Sub total)	(5.0)	(94)
Urban		
Non Agricultural		
Woodland	0.3	6
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.3)	(6)
Total	5.3	100

2.11.6 Grade 2

Moderately well drained soils with a slight wetness problem are graded 2.

2.11.7 Subgrade 3a

This subgrade includes imperfectly drained soils with a soil wetness and workability limitation.

2.11.8 Subgrade 3b

The Subgrade 3b land, found in the north of the site is poorly drained and has a severe soil wetness and workability limitation.

2.11.9 Woodland

This includes a recently planted belt of woodland.

2.12 LAND AT SEAMER, Reference 9/4

2.12.1 Location

The site is located immediately to the south of the B1261 Seamer to Crossgates road. It has a centroid Grid Reference of TA 022 839.

2.12.2 Climate

Grid Reference	: TA 022 839
Altitude (m)	: 40
Accumulated Temperature above 0° (January - June)	: 1334
Average Annual Rainfall (mm)	: 684
Climatic Grade	: 1
Field Capacity Days	: 165
Moisture Deficit (mm) Wheat	: 103
Moisture Deficit (mm) Potatoes	: 93

2.12.3 Land Use and Relief

The site has a south to south westerly aspect and gentle slopes. Average altitude is 40 m AOD. At the time of survey it was growing winter cereals.

2.12.4 Geology, Soils and Drainage

Solid Jurassic Limestone and Clay are covered with thick deposits of light textured Glaciofluvial Drift. Topsoils and subsoils are typically a very slightly stony medium sandy loam, occasionally gravelly below 80 cm depth. Soils are well drained (Wetness Class I) but slightly droughty.

2.12.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT SEAMER, Reference 9/4

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	11.0	100
3a		
3b		
4		
5		
(Sub total)	(11.0)	(100)
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
Total	11.0	100

2.12.6 Grade 2

The whole site is Grade 2. Topsoils and subsoils are typically a very slightly stony medium sandy loam. Occasionally subsoils become gravelly below 80 cm depth imposing a slight droughtiness limitation in some places. This limits the ALC grade of this land to Grade 2.

2.13. LAND AT IRTON, Reference 11/3

2.13.1 Location

The site at Irton has a centroid Grid Reference of TA 007 842, and is located approximately 5 km south west of Scarborough centre off the B1261.

2.13.2 Climate

Grid Reference	: TA 007 842
Altitude (m)	: 30
Accumulated Temperature above 0°C (January - June)	: 1345
Average Annual Rainfall	: 734
Climatic Grade	: 1
Field Capacity Days	: 171
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 93

2.13.3 Land Use and Relief

The majority of the site is in arable use, with a small field south of the road being ploughed. The site is level and lies at an altitude of 30 m AOD.

2.13.4 Geology, Soils and Drainage

Solid geology is mapped as Jurassic Limestone with Alluvium drift.

Soils are well to moderately well drained (Wetness Class I & II), profiles typically comprise, organic medium silty clay loam topsoils with occasional medium clay loam and medium sandy loam topsoils, in turn over similar gleyed subsoils.

2.13.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT IRTON, Reference 11/3

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	5.3	93
3a		
3b		
4		
5		
(Sub total)	(5.3)	(93)
Urban		
Non Agricultural		
Woodland		
Agricultural Buildings	0.4	7
Open Water		
Land not surveyed		
(Sub total)	(0.4)	(7)
Total	5.7	100

2.13.6 Grade 2

The majority of soils on the site are well drained (Wetness Class I) and occasionally moderately well drained (Wetness Class II). Although the majority of profiles satisfy the parameters for Grade 1 the variability over the site consisting of groundwater problems to the west and sporadic stony patches will slightly limit its full agricultural potential and this land to Grade 2.

2.13.7 Farm Buildings

The remainder of the site consists of a farm house and associated buildings.

2.14 LAND AT SCALBY, Reference 18/2

2.14.1 Location

The site is located on the western edge of Scalby and has a centroid grid reference of TA 007 906.

2.14.2 Climate

Grid Reference	: TA 007 906
Altitude (m)	: 55
Accumulated Temperature above 0°C (January - June)	: 1315
Average Annual Rainfall (mm)	: 742
Climatic Grade	: 2
Field Capacity Days	: 183
Moisture Deficit (mm) Wheat	: 96
Moisture Deficit (mm) Potatoes	: 84

2.14.3 Land Use and Relief

Slopes were level or gentle on the site and did not limit ALC Grade. Average altitude was 55 m A.O.D. The agricultural land on the site was in arable use.

2.14.4 Geology, Soils and Drainage

Soils are mostly developed from Boulder Clay Drift, although Jurassic sandstone outcrops close to the surface. Topsoils are generally medium sandy loam or medium clay loam. Upper subsoils, where present, are similar textured and lower subsoils are generally clayey or sandy clay loam. Profiles with an upper subsoil are Wetness Class II or III and those without are Wetness Class IV.

2.14.5 AGRICULTURAL LAND CLASSIFICATION, LAND AT SCALBY, Reference 18/2

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	2.3	26
3a	2.8	31
3b	2.4	
4		27
5		
(Sub total)	(7.5)	(84)
Urban	0.2	2
Non Agricultural	1.3	14
Woodland		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	1.5	(16)
Total	9.0	100

2.14.6 Grade 2

This grade of land contains well or moderately well drained soils. The land is limited to this grade by both the overall climate and soil wetness.

2.14.7 Subgrade 3a

Subgrade 3a land is imperfectly drained and limited by soil wetness.

2.14.8 Subgrade 3b

This contains the worst drained land on the site where soil wetness and workability was a serious limitation on ALC grade.

2.14.9 Non Agricultural

2.14.10 Urban

This includes land development.