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**South Somerset Local Plan  
Crewkerne and Misterton  
Agricultural Land Classification**

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Ministry of Agriculture, Fisheries and Food  
Land Use Planning Unit



**SOUTH SOMERSET LOCAL PLAN**  
**CREWKERNE AND MISTERTON**  
**AGRICULTURAL LAND CLASSIFICATION**

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## SOUTH SOMERSET LOCAL PLAN

### CREWKERNE AND MISTERTON

#### AGRICULTURAL LAND CLASSIFICATION SURVEY

##### SUMMARY

The survey was carried out by ADAS on behalf of MAFF as part of its statutory role in the preparation of the South Somerset Local Plan. The fieldwork at Crewkerne and Misterton was completed in August and September 1995 at a scale of 1:10,000. Data on climate, soils, geology and from previous Agricultural Land Classification (ALC) Surveys was used and is presented in the report. The distribution of grades is shown on the accompanying ALC maps at 1:15,000 scale and summarised below. Information is correct at this scale but could be misleading if enlarged. Results from a survey of the land on the eastern side of Crewkerne, between the A30 and Hellings Farm, carried out in 1993, are also shown on the accompanying ALC map. The data from the 1993 survey are presented elsewhere (MAFF, 1993) and this report details the findings of the most recent work

##### Distribution of ALC grades: Crewkerne and Misterton

Grade	Area (ha)	% of Survey Area	% of Agricultural Land (294.2 ha)
1	40.7	11.0	13.8
2	49.5	13.3	16.8
3a	95.9	25.7	32.6
3b	66.1	17.7	22.5
4	33.6	9.0	11.4
5	8.4	2.3	2.9
Disturbed Land	1.1	0.3	0.0
Urban	56.2	15.1	0.0
Non Agricultural	18.5	5.0	0.0
Agricultural Buildings	2.4	0.6	0.0
TOTAL	372.4	100.0	100.0

50% of the land surveyed at Crewkerne and Misterton is "best and most versatile". The Grade 1 and Grade 2 land both have deep well drained sandy loam profiles but the grade 2 mapping units have slightly heavier topsoils (medium clay loam) causing a moderate workability limitation. Most of the Subgrade 3a land is well drained but where it is shallow there is a moderate drought limitation and in other areas there is a moderate workability limitation due to the heavy clay loam topsoils. There are a few areas which have a moderate wetness limitation due to the presence of slowly permeable layers in the subsoils. Some small areas of land mapped as Subgrade 3b and Grade 4 also have poor drainage and respectively have moderate and severe wetness limitations depending on the interaction of their topsoil texture and the depth at which gleying and their slowly permeable layers start. Most of the land mapped as Subgrade 3b and Grade 4, and all of the land mapped as Grade 5 has a limitation to its agricultural use because of steep gradients.

## 1. INTRODUCTION

An Agricultural Land Classification (ALC) Survey was carried out in August and September 1995 at Crewkerne and Misterton, Somerset on behalf of MAFF as part of its statutory role in the preparation of the South Somerset Local Plan. The 1995 fieldwork covering 297.6 ha of land was conducted by ADAS at a scale of 1:10,000 with approximately one boring per hectare of agricultural land. A total of 225 auger borings were examined and eight soil profile pits used to assess subsoil conditions.

The published provisional one inch to the mile ALC map of this area (MAFF 1974) shows the grade of the site at a reconnaissance scale. This shows most of the site as Grade 3. There is a small area of Grade 1 land mapped to the north of Crewkerne, near Broadshard. To the south of this area is an area of Grade 2 land between Broadshard and the A30. Another area of Grade 2 land is mapped between Hewish Lane and Curriot Hill to the south of Crewkerne. The steep sided valleys at Misterton, Curriot Hill, Bincombe and below Crow Castle are mapped as Grade 4.

The area was also surveyed in 1979 at a scale of 1:25,000. This showed the area to have a mixture of Grade 2, Subgrade 3a, 3b and 3c and Grade 4 land. The land on the eastern side of Crewkerne, between the A30 and Hellings Farm, was surveyed in 1993 at a scale of 1:10,000. The results from this survey are shown on the accompanying ALC map.

This recent survey supersedes the 1974 and 1979 maps having been carried out at a more detailed level and using the Revised Guidelines and Criteria for grading the quality of agricultural land (MAFF 1988). These guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose long-term limitations on agricultural use. The grading takes account of the top 120 cm of the soil profile. A description of the grades used in the ALC system can be found in Appendix 2.

## 2. CLIMATE

The grade of the land is determined by the most limiting factor present. The overall climate is considered first because it can have an overriding influence on restricting land to a lower grade despite other favourable conditions.

Estimates of climatic variables were interpolated from the published agricultural climate dataset (Meteorological Office 1989). The parameters used for assessing overall climate are accumulated temperature, a measure of the relative warmth of a locality, and average annual rainfall, a measure of overall wetness. The results shown in Table 1 indicate there is no overall climatic limitation.

**Table 1: Climatic Interpolations: Crewkerne and Misterton**

Grid Reference	ST 433 090	ST 455 107	ST 439 102
Altitude (m)	134	55	77
Accumulated Temperature (day °)	1428	1517	1492
Average Annual Rainfall (mm)	971	858	882
Overall Climatic Grade	1	1	1
Field Capacity Days	196	179	183
Moisture deficit (mm):			
Wheat	84	98	94
Potatoes	71	89	84

Grid Reference	ST 450 087	ST 458 078	ST 464 085
Altitude (m)	82	95	55
Accumulated Temperature (day °)	1487	1472	1518
Average Annual Rainfall (mm)	903	954	899
Overall Climatic Grade	1	1	1
Field Capacity Days	186	194	186
Moisture deficit (mm):			
Wheat	93	90	97
Potatoes	82	79	88

Grid Reference	ST 458 082
Altitude (m)	65
Accumulated Temperature (day °)	1506
Average Annual Rainfall (mm)	912
Overall Climatic Grade	1
Field Capacity Days	188
Moisture deficit (mm):	
Wheat	96
Potatoes	86

Climatic data on Field Capacity Days (FCD) and Moisture Deficits for wheat and potatoes are shown. These data are used in assessing the soil wetness and droughtiness limitations referred to in later sections.

### 3. RELIEF AND LANDCOVER

The site covers land surrounding Crewkerne and Misterton. The relief of the site is relatively complicated with areas of high land to the north and west of Crewkerne, and between Crewkerne and Misterton at altitudes of 90-135 m Above Ordnance Datum (AOD). There are valleys with gradients greater than 7° and smaller areas which have gradients greater than 11° and 18° to the south and west of Crewkerne and to the south of Misterton. At the time of the survey landuses included cereal and maize cultivation and permanent pasture.

### 4. GEOLOGY AND SOILS

The geology of the site is shown on the published 1:50,000 scale solid and drift geology map, Sheet 312 (Institute of Geological Sciences, 1973). This shows that most of the site is underlain by Yeovil Sands. Within the site however there are areas underlain by Inferior Oolite (limestone) on the relatively flat land to the east of Broadshard, on the southern edge of Crewkerne and between Crewkerne and Misterton. Fullers Earth (clay) is mapped in patches to the east of Broadshard and around Misterton. There is also a small area of head mapped to the north-east of Misterton.

The soils were mapped by the Soil Survey of England and Wales in 1983 at a reconnaissance scale of 1:250,000. Land on the western edge of Crewkerne, from Broadshard to the B3165, is shown to belong to the South Petherton Association which is described as being deep well drained silty soils, some over soft rock. The area of land between the A30 and Broadshard is mapped as belonging to the Evesham 1 Association. This is described as being slowly permeable calcareous clayey soils associated with shallow well drained brashy calcareous soils over limestone. The land on the south side of Crewkerne is shown to belong to the Middleton Association which are described as reddish, fine silty soils with slowly permeable subsoils and slight seasonal waterlogging over shale and siltstone. There are some similar fine loamy soils and seasonally waterlogged fine silty soils in places. The land between Crewkerne and Misterton and around Misterton is mapped as the Elmtun 1 Association which are described as shallow, well drained brashy calcareous fine loamy soils over limestone.

There may be some similar deeper soils and some non-calcareous and calcareous clayey soils. There is a band of the Denchworth Association running through Misterton along the valley from Mill Farm to Bullring Farm. These are described as being slowly permeable seasonally waterlogged clayey soils with similar fine loamy over clayey soils. Some fine loamy over clayey soils with only slight seasonal waterlogging and some slowly permeable calcareous clayey soils may also occur.

The soils found during the current survey were similar to those described by the Soil Survey. The three main types of profile were: deep, well drained sandy loams to the west of Crewkerne; shallow, well drained clay loams over limestone to the south of Crewkerne, around Misterton and in patches to the north of Crewkerne; and clay loam over slowly permeable clay soils in patches to the north of Crewkerne and around Misterton.

## 5. AGRICULTURAL LAND CLASSIFICATION

The distribution of ALC grades is shown in Table 2 and on the accompanying ALC map. This information could be misleading if shown at a larger scale.

Table 2: Distribution of ALC grades: Crewkerne and Misterton

Grade	Area (ha)	% of Survey Area	% of Agricultural Land (294.2 ha)
1	40.7	11.0	13.8
2	49.5	13.3	16.8
3a	95.9	25.7	32.6
3b	66.1	17.7	22.5
4	33.6	9.0	11.4
5	8.4	2.3	2.9
Disturbed Land	1.1	0.3	0.0
Urban	56.2	15.1	0.0
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### Grade 1

The two areas of Grade 1 land that have been mapped at Bincombe and to the north of the A30 consist of deep, well drained profiles which were assessed as Wetness Class I (see Appendix 3). They have coarse sandy loam and fine sandy silt loam topsoils over fine sandy loam subsoils with negligible stone contents and no limitation to their agricultural use.

### Grade 2

The profiles mapped as Grade 2 consist of deep, well drained profiles which were assessed as Wetness Class I. The profiles are similar to those in the Grade 1 mapping units but they have medium clay loam topsoils which cause a minor workability limitation.

### Subgrade 3a

There are two types of profile in this mapping unit. The areas to the south and north of Crewkerne, and the areas to the north-west and south-west of Misterton have a moderate drought limitation. These profiles have medium clay loam and medium sandy loam topsoils over clay loam subsoils. They are well drained but are shallow over weathered limestone. Stone contents by volume of 10%, 32-49% and more than 70% hard rock were found in the topsoil, and upper and lower subsoils respectively. The other areas mapped as Subgrade 3a, to the east of Broadshard in the valley bottom and on the south-east side of Misterton have moderate wetness and workability limitations. Some of the profiles have slowly permeable layers starting above 70 cm but are not gleyed above 40 cm so they were assessed as Wetness

Class III and as they have medium clay loam topsoils they are mapped as Subgrade 3a. Other profiles are well drained and were assessed as Wetness Class I but they have heavy clay loam topsoils which leads to a moderate workability limitation.

#### Subgrade 3b

The land mapped as Subgrade 3b to the north and east of Misterton has a moderate wetness limitation to its agricultural versatility. The profiles have heavy clay loam topsoils over clay subsoils and slowly permeable layers starting above 70 cm but are not gleyed above 40 cm so they were assessed as Wetness Class III. The small area of flat land to the east of Broadshard has profiles which were assessed as Wetness Class IV due to the gleying starting above 40 cm and slowly permeable layers starting above 50 cm but they have medium clay loam topsoils over the clay subsoils and so are were mapped as Subgrade 3b. The other areas of land mapped as Subgrade 3b, to the south of Misterton, on the southern and western edges of Crewkerne and the steeper land to the east of Broadshard have a moderate limitation to their agricultural use due to their gradients of 8-11° which restrict the safe use of certain agricultural machinery.

#### Grade 4

The small areas of land mapped as Grade 4 to the west and north of Crewkerne and on the south-east edge of Crewkerne have a severe limitation to their agricultural use caused by steep gradients of 12-18°. These limit the range of agricultural machinery which can be safely used. The two areas of land to the north of Misterton and to the north-east of Hellings Farm have a severe wetness limitation. The profiles have clay and heavy clay loam topsoils over slowly permeable clay subsoils. They are gleyed above 40 cm and the slowly permeable layers start above 50 cm so they were assessed as Wetness Class IV.

#### Grade 5

The small areas of land mapped as Grade 5 have a very severe limitation to their agricultural use due to their steep gradients. These are over 18° and limit the type of agricultural machinery which can be safely used.

#### Other land

Land mapped as urban includes gardens, roads and hard-core tracks. The areas of non-agricultural land include sports field and large areas of residential grassland while agricultural buildings have been mapped as such.

Resource Planning Team  
Taunton Statutory Unit  
October 1995

## APPENDIX 1

### REFERENCES

INSTITUTE OF GEOLOGICAL SCIENCES (1973) Solid and Drift Edition, Sheet 312, Yeovil, 1:50,000.

MAFF (1974) Agricultural Land Classification Map, Sheet 177, Provisional 1:63,360 scale.

MAFF (1988) Agricultural Land Classification of England and Wales (Revised Guidelines and Criteria for grading the quality of agricultural land), Alnwick.

METEOROLOGICAL OFFICE (1989) Climatological Data for Agricultural Land Classification.

MAFF (1993) Agricultural Land Classification, Crewkerne Local Plan, 1:10,000

SOIL SURVEY OF ENGLAND AND WALES (1983) Sheet 5, Soils of South West England, 1:250,000 scale.

## **APPENDIX 2**

### **DESCRIPTION OF GRADES AND SUBGRADES**

#### **Grade 1 - excellent quality agricultural land**

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly include top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

#### **Grade 2 - very good quality agricultural land**

Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

#### **Grade 3 - good to moderate quality agricultural land**

Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

##### **Subgrade 3a - good quality agricultural land**

Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

##### **Subgrade 3b - moderate quality agricultural land**

Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass, or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

#### **Grade 4 - poor quality agricultural land**

Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In most climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

#### **Grade 5 - very poor quality agricultural land**

Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

### **Descriptions of other land categories used on ALC maps**

#### **Urban**

Built-up or 'hard' uses with relatively little potential for a return to agriculture including: housing, industry, commerce, education, transport, religious buildings, cemeteries. Also, hard-surfaced sports facilities, permanent caravan sites and vacant land; all types of derelict land, including mineral workings which are only likely to be reclaimed using derelict land grants.

### **Non-agricultural**

'Soft' uses where most of the land could be returned relatively easily to agriculture, including: private park land, public open spaces, sports fields, allotments and soft-surfaced areas on airports/airfields. Also active mineral workings and refuse tips where restoration conditions to 'soft' after-uses may apply.

### **Agricultural buildings**

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses. Temporary structures (e.g. polythene tunnels erected for lambing) may be ignored.

### **Open water**

Includes lakes, ponds and rivers as map scale permits.

### **Land not surveyed**

Agricultural land which has not been surveyed.

Where the land use includes more than one of the above landcover types, e.g. buildings in large grounds, and where may be shown separately. Otherwise, the most extensive cover type will usually be shown.

**Source:** MAFF (1988) Agricultural Land Classification of England and Wales (Revised Guidelines and Criteria for Grading the Quality of Agricultural Land), Alnwick.

## **APPENDIX 3**

### **DEFINITION OF SOIL WETNESS CLASSES**

#### **Wetness Class I**

The soil profile is not wet within 70 cm depth for more than 30 days in most years.

#### **Wetness Class II**

The soil profile is wet within 70 cm depth for 31-90 days in most years or, if there is no slowly permeable layer within 80 cm depth, it is wet within 70 cm for more than 90 days, but not wet within 40 cm depth for more than 30 days in most years.

#### **Wetness Class III**

The soil profile is wet within 70 cm depth for 91-180 days in most years or, if there is no slowly permeable layer within 80 cm depth, it is wet within 70 cm for more than 180 days, but only wet within 40 cm depth for between 31 and 90 days in most years.

#### **Wetness Class IV**

The soil profile is wet within 70 cm depth for more than 180 days but not within 40 cm depth for more than 210 days in most years or, if there is no slowly permeable layer within 80 cm depth, it is wet within 40 cm depth for 91-210 days in most years.

#### **Wetness Class V**

The soil profile is wet within 40 cm depth for 211-335 days in most years.

#### **Wetness Class VI**

The soil profile is wet within 40 cm depth for more than 335 days in most years.

**Notes:** The number of days specified is not necessarily a continuous period. 'In most years' is defined as more than 10 out of 20 years.

**Source:** Hodgson, J M (in preparation), Soil Survey Field Handbook (revised edition).

SITE NAME		PROFILE NO.	SLOPE AND ASPECT		LAND USE		Av Rainfall: 903 mm		PARENT MATERIAL			
Crewkerne		Pit 1 (ASP 56)	0°		Stubble		ATO: 1487 day °C		Yeovil Sands			
JOB NO.		DATE	GRID REFERENCE		DESCRIBED BY		FC Days: 186		SOIL SAMPLE REFERENCES			
41/95		31/8/95	ST 447 105		GMS/NAD		Climatic Grade: 1		RPT/GMS/511			
							Exposure Grade: -					

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	27	MCL	10YR42	3% SLST > 2cm (S) 7% SLST < 2cm (VIS) 10% SLST TOTAL	None	None	-	-	-	-	MVF	-	Clear Smooth
2	50	HCL	10YR43	20% SLST > 2cm (S) 12% SLST < 2cm (S+D) 32% SLST TOTAL	FFFO (10YR66)	None	WCSAB	Friable	Moderate	Good	CVF	-	Wavy Gradual
3	70	HCL	10YR43	> 70% SLST (VIS)	-	-	-	-	Moderate	-	FVF (passing through crack)	-	-

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: 1

Wetness Grade: 2

Available Water Wheat: 79 mm

Potatoes: 81 mm

Moisture Deficit Wheat: 93 mm

Potatoes: 82 mm

Moisture Balance Wheat: -14 mm

Potatoes: -1 mm

Droughtiness Grade: 3a (Calculated to 70 cm)

Final ALC Grade: 3a

Main Limiting Factor(s): Drought

Remarks:

SITE NAME Crewkerne		PROFILE NO. Pit 2 (ASP 46/47)	SLOPE AND ASPECT 0°	LAND USE Cereal	Av Rainfall: 903 mm ATO: 1487 day °C	PARENT MATERIAL Inferior Oolite (Limestone)	
JOB NO. 41/95		DATE 31/8/95	GRID REFERENCE ST 452 106	DESCRIBED BY GMS/NAD	FC Days: 186 Climatic Grade: 1 Exposure Grade: -	SOIL SAMPLE REFERENCES RPT/GMS/512	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	25	FSZL	10YR43	neg (visual)	None	None	-	-	-	-	CF	-	Clear Smooth
2	65	FSL	10YR54	None	FFFO 10YR44	None	MCSAB	Friable	Mod	Good	FVF	-	Clear Wavy
3	120	FSL	10YR53, 54 (Large lenses of 05Y53)	None	RRC	None	MCSAB	Friable	Mod	Good	FVF	-	-

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 191 mm

Potatoes: 136 mm

Moisture Deficit Wheat: 93 mm

Potatoes: 82 mm

Moisture Balance Wheat: 98 mm

Potatoes: 54 mm

Droughtiness Grade: 1 (Calculated to 120 cm)

Final ALC Grade: 1

Main Limiting Factor(s): None

Remarks: Last part of field to be drained. Rest of field now drained and no wetness left. Drainage would work here since adequate slope. Ditch described.

SITE NAME Crewkerne		PROFILE NO. Pit 3 (ASP 138)	SLOPE AND ASPECT 0°	LAND USE Permanent Grass	Av Rainfall: 903 mm ATO: 1487 day °C	PARENT MATERIAL Clay (Fullers Earth)	
JOB NO. 41/95		DATE 1/9/95	GRID REFERENCE ST 457 091	DESCRIBED BY HLJ	FC Days: 186 Climatic Grade: 1 Exposure Grade: -	SOIL SAMPLE REFERENCES RPT/HLJ/180	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	23	C	10YR43	5% HR TOTAL (VIS)	None	None	-	-	-	Good	MF + VF	-	Gradual Smooth
2	47	C	10YR56	1% HR TOTAL (VIS)	CDFO (10YR66)	Few	WCSAB	Firm	Moderate	Poor	FF + VF	-	Clear Smooth
3	80 +	C	10YR53	1% HR TOTAL (VIS)	CDFO (10YR66)	Few	WCPr (breaking to WCAB)	Firm	Poor	Poor	FVF	-	-

Profile Gleyed From: 47 cm

Depth to Slowly Permeable Horizon: 23 cm

Wetness Class: III

Wetness Grade: 4

Available Water Wheat: 130 mm

Potatoes: 107 mm

Moisture Deficit Wheat: mm

Potatoes: mm

Moisture Balance Wheat: 37 mm

Potatoes: 25 mm

Droughtiness Grade: 1 (Calculated to 120 cm)

Final ALC Grade: 4

Main Limiting Factor(s): Wetness

Remarks:

SITE NAME Crewkerne		PROFILE NO. Pit 4 (ASP 145)	SLOPE AND ASPECT 0°	LAND USE Permanent Grass	Av Rainfall: 903 mm ATO: 1487 day °C	PARENT MATERIAL Inferior Oolite (Limestone)	
JOB NO. 41/95		DATE 1/9/95	GRID REFERENCE ST 450 090	DESCRIBED BY HLJ	FC Days: 186 Climatic Grade: 1 Exposure Grade: -	SOIL SAMPLE REFERENCES RPT/HLJ/181	

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	25	HCL	10YR44	2% SLST > 2cm (S) 9% SLST < 2cm (S+D) 11% TOTAL	None	None	-	-	-	Good	CF + VF	-	Clear Smooth
2	62	HCL	10YR44	30% SLST > 2cm (S) 19% SLST < 2cm (S+D) 49% TOTAL	None	None	WCSAB	Friable	Moderate	Good	FF + VF	-	Clear Smooth
3	140	HCL	10YR54	80% SLST (VIS)	None	None	WMSAB	Friable	Moderate	Good	FVF	-	-

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 3a

Available Water Wheat: 71 mm

Potatoes: 73 mm

Moisture Deficit Wheat: 93 mm

Potatoes: 82 mm

Moisture Balance Wheat: - 1 mm

Potatoes: 0 mm

Droughtiness Grade: 3a (Calculated to 120 cm)

Final ALC Grade: 3a

Main Limiting Factor(s): Drought and Workability

Remarks: Open face of old quarry.

SITE NAME Crewkerne		PROFILE NO. Pit 5 (ASP 127/139)	SLOPE AND ASPECT 0°	LAND USE Permanent Grass	Av Rainfall: 903 mm ATO: 1487 day °C FC Days: 186 Climatic Grade: 1 Exposure Grade: -	PARENT MATERIAL Yeovil Sands
JOB NO. 41/95		DATE 5/9/95	GRID REFERENCE ST 432 091	DESCRIBED BY HLJ		SOIL SAMPLE REFERENCES RPT/HLJ/182

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	25	MCL	10YR44	5% HR TOTAL (VIS)	None	None	-	-	-	Good	CF + VF	-	Clear Smooth
2	73	FSL	10YR54	< 1% HR TOTAL (VIS)	FFVFO (10YR46)	Few	MCSAB	Friable	Moderate	Good	FF + VF	-	Clear Smooth
3	80 +	FSL	10YR53	< 1% HR TOTAL (VIS)	None	None	MCSAB	Friable	Moderate	Good	FVF	-	-

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 2

Available Water Wheat: 178 mm

Potatoes: 123 mm

Moisture Deficit Wheat: 93 mm

Potatoes: 82 mm

Moisture Balance Wheat: 85 mm

Potatoes: 41 mm

Droughtiness Grade: 1 (Calculated to 120 cm)

Final ALC Grade: 2

Main Limiting Factor(s): Workability

Remarks: Augured to 120cm

<b>SITE NAME</b> Crewkerne		<b>PROFILE NO.</b> Pit 6 (ASP 96)	<b>SLOPE AND ASPECT</b> 0°	<b>LAND USE</b> Permanent Grass	Av Rainfall: 903 mm ATO: 1487 day °C	<b>PARENT MATERIAL</b> Yeovil Sands
<b>JOB NO.</b> 41/95		<b>DATE</b> 5/9/95	<b>GRID REFERENCE</b> ST 436 098	<b>DESCRIBED BY</b> HLJ	FC Days: 186 Climatic Grade: 1 Exposure Grade: -	<b>SOIL SAMPLE REFERENCES</b> RPT/HLJ/183

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Concs	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	30	CSL	10YR43	< 1% HR TOTAL (VIS)	None	None	-	-	-	Good	CF + VF	-	Clear Wavy
2	56	FSL	10YR46	< 1% HR TOTAL (VIS)	None	Few	MCSAB	Friable	Moderate	Good	FF + VF	-	Clear Smooth
3	80 +	FSL	25Y66	< 1% HR TOTAL (VIS)	None	None	MCSAB	Friable	Good	Good	FVF	-	-

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: No SPL

Wetness Class: I

Wetness Grade: 1

Available Water Wheat: 202 mm

Potatoes: 127 mm

Moisture Deficit Wheat: 93 mm

Potatoes: 82 mm

Moisture Balance Wheat: 109 mm

Potatoes: 45 mm

Droughtiness Grade: 1 (Calculated to 120 cm)

Final ALC Grade: 1

Main Limiting Factor(s):

Remarks: Augured to 120