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**Wokingham District Local Plan
Site SH01 - Grazeley, Berkshire**

**Agricultural Land Classification
Semi-Detailed Survey
January 1996**

**Resource Planning Team
Guildford Statutory Group
ADAS Reading**

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AGRICULTURAL LAND CLASSIFICATION REPORT

WOKINGHAM DISTRICT LOCAL PLAN SITE SH01 - GRAZELEY, BERKSHIRE

Introduction

1. This report presents the findings of a semi-detailed Agricultural Land Classification (ALC) survey of 357.7 hectares of land to the south of Reading around the village of Grazeley in Berkshire. The survey was carried out during December 1995 and January 1996.
2. The survey was commissioned by the Ministry of Agriculture, Fisheries and Food (MAFF) from its Land Use Planning Unit in Reading in connection with the Wokingham District Local Plan. Some of the land to the north of the site was surveyed in 1988 under the previous ALC guidelines, (MAFF, 1977). However, the results of the most recent survey supersede the previous ALC information for this land. Land at the south of the site was surveyed at a detailed level in 1994, (ADAS Ref: 0202/001/94), under the revised ALC guidelines, (MAFF, 1988), in connection with the Newbury District Local Plan. This land has not therefore been resurveyed on this occasion.
3. The work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS. The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF, 1988). A description of the ALC grades and subgrades is given in Appendix I.
4. At the time of survey the agricultural land was mostly under cereal cropping, with smaller areas of permanent pasture. The areas shown as 'Other Land' include the village of Grazeley, a number of farms and associated buildings, areas of woodland and scrub, roads, allotment gardens and ponds. Land in the south-east of the site was not surveyed since permission to enter onto the land had not been obtained.

Summary

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:15,000. It is accurate at this scale, but any enlargement would be misleading.
6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1 overleaf.
7. The fieldwork was conducted at an average density of approximately 1 boring every 2-3 hectares. A total of 130 borings and 5 soil inspection pits were described.
8. Land across the site comprises soils derived from either valley gravels, plateau gravels, alluvium or London Clay. Consequently soils were found to be either stony over gravelly horizons and variably affected by groundwater, or clayey and poorly drained, or commonly to exhibit a combination of these characteristics.

Table 1: Area of grades and other land

Grade/Other land	Area (hectares)	% Total site area	% Agricultural land
3a	144.6	40.4	47.1
3b	162.7	45.5	52.9
Other land	35.4	9.9	
Not surveyed	15.0	4.2	
Total agricultural land	307.3	85.9	100.0
Total site area	357.7	100.0	

9. Land quality on the site ranges from Subgrade 3a, good quality, to Subgrade 3b, moderate quality. The land is restricted in its agricultural use by soil wetness and/or soil droughtiness. Where soils are clayey and poorly drained, soil wetness limits land quality to Subgrade 3a or 3b depending upon the degree of impeded drainage. Soil wetness is also a problem where a fluctuating groundwater table affects the land. Soil droughtiness occurs where soils are stony and rest upon gravelly horizons at varying depths. The extent of droughtiness, and therefore the resultant ALC grade, is determined by the relative stone contents and depths of the soil profiles.

Factors Influencing ALC Grade

Climate

10. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.

11. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5km grid datasets using the standard interpolation procedures (Met. Office, 1989).

Table 2: Climatic and altitude data

Factor	Units	Values		
Grid reference	N/A	SU 705 672	SU 695 665	SU 693 657
Altitude	m, AOD	45	50	55
Accumulated Temperature	day°C (Jan-June)	1474	1470	1464
Average Annual Rainfall	mm	662	663	664
Field Capacity Days	days	139	139	139
Moisture Deficit, Wheat	mm	114	113	112
Moisture Deficit, Potatoes	mm	109	107	106

12. The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions.

13. The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR), as a measure of overall wetness, and accumulated temperature (AT0, January to June), as a measure of the relative warmth of a locality.

14. The combination of rainfall and temperature at this site means that there is no overall climatic limitation; the site is climatically grade 1. However, climatic factors will interact with soil properties to influence the grading. The climate is relatively warm and dry at this locality which will increase the likelihood of soil droughtiness problems. Local climatic factors such as frost risk and exposure are not believed to affect this site.

Site

15. The site is very gently undulating, lying at an altitude of 40-60 m AOD. Nowhere on the site do gradient or microrelief affect land quality. Localised areas of land adjacent to Foudry Brook may be prone to flooding, although this was not assessed as being of sufficient significance to influence the land classification.

Geology and Soils

16. The most detailed published geological information for the site (BGS, 1971) shows most of the northern part of the site, (north of the village of Grazeley), to be underlain by deposits of valley gravel, with a band of alluvium adjoining the Foudry Brook. South of Grazeley and to the east of the site alongside the A33 the land is underlain by London Clay, with small areas overlain by plateau gravel, chiefly to the far south-west of the site.

17. The most detailed published soils information for the site (SSEW, 1983) shows a distribution which is broadly consistent with the underlying geology. The northern part of the site is mapped as the Hurst association, these soils being described as 'coarse and fine loamy permeable soils mainly over gravel and variably affected by groundwater' (SSEW, 1983). The southern part of the site comprises soils of the Wickham 4 association. These are described as 'slowly permeable seasonally waterlogged fine loamy over clayey and fine silty over clayey soils' (SSEW, 1983).

18. Detailed field examination found soils to broadly correspond with those mapped by the Soil Survey, although the more clayey variant was found to be more extensive than the published soil map suggests.

Agricultural Land Classification

19. The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1, page 2.

20. The location of the auger borings and pits is shown on the attached sample location map and the details of the soils data are presented in Appendix III.

Subgrade 3a.

21. Almost half of the agricultural land on this site has been mapped as Subgrade 3a, good quality land. Soils can be broadly divided into two main types; those which are clayey and affected by soil wetness, and those derived from gravel deposits which are affected by soil droughtiness. A number of profiles are equally limited by soil wetness and soil droughtiness.

22. Profiles affected by soil wetness typically comprise non-calcareous and relatively stonefree topsoils of medium clay loam, or occasionally sandy clay loam or medium sandy silt loam. These overlie similar textures or heavy clay loam upper subsoils which are usually gleyed but not slowly permeable as a result of being moderately well structured. Poorly structured, gleyed clay subsoils were encountered at depths greater than about 38 cm, but commonly around 50-55 cm. These clayey lower subsoils impede soil drainage such that Wetness Class III (see Appendix II) is appropriate. Soil pit 1, (see Appendix III), is representative of these soils. The combination of soil drainage status and the prevailing climate results in a soil wetness restriction consistent with Subgrade 3a. Excessive soil wetness will adversely affect seed germination and root development, as well as influencing the flexibility of the land by reducing the opportunities for cultivations, trafficking by machinery or grazing by livestock.

23. Soils affected by droughtiness and classified as Subgrade 3a comprise medium clay loam, sandy clay loam or medium sandy silt loam topsoils which may contain 2-10% total flints by volume ($2-3\% > 2\text{cm}$ in size). These overlie similarly textured subsoils which become progressively more stony and/or sandy with depth. Many of these soils were found to be impenetrable to the soil auger at depths between 50 and 80 cm. However, evidence from soil pits 2 and 5 proved the existence of lower subsoils containing 30-65% flints by volume. Most of these soils had evidence of imperfect drainage in the form of gleying from below the topsoil, but this can be attributed to a fluctuating watertable, rather than slowly permeable horizons. Wetness Class II, or occasionally I is thereby appropriate. The interaction between these stony soils and the prevailing climate means that there may not be sufficient profile available water for crop growth throughout the season. A soil droughtiness restriction therefore exists. This will have the effect of reducing the range of crops which can be grown and the yield potential of those which are grown.

24. A considerable number of the soil profiles within the Subgrade 3a mapping unit are equally limited by both soil wetness and soil droughtiness. Soil pit 3 is typical of such soils. Occasional borings of better quality are included within the 3a mapping unit. These were not mapped separately due to their limited number and distribution.

Subgrade 3b.

25. The majority of the land mapped as Subgrade 3b, moderate quality land, is limited by soil wetness. Profiles typically comprise non-calcareous topsoils of medium clay loam which are generally stoneless. These occasionally pass to thin upper subsoil horizons of heavy clay loam, but more usually pass directly to poorly structured, gleyed clay which was found to be slowly permeable (see pit 4, and pit 2 on the land to the south-west of the site previously surveyed in 1994 [ADAS Ref. 0202/001/94], Appendix III). Wetness Class IV is appropriate for these soils. The soil wetness restriction which exists is more severe than that described in

paragraph 22 above since the clay horizons occur at shallower depths. As a result the land is classified as Subgrade 3b.

26. A limited number of the soils within the 3b mapping unit are affected by soil droughtiness, where very stony soils have developed from valley gravel or plateau gravel deposits. Profiles are similar to those described in paragraph 23 above, the difference being that soils are shallower over gravelly horizons and/or more stony. Soil pit 1 from the 1994 survey (ADAS Ref: 0202/001/94) is representative of such soils. Profile available water in these soils is likely to be severely restricted in most years, such that plants will suffer significant drought stress.

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SOURCES OF REFERENCE

British Geological Survey (1971) *Sheet No. 268, Reading.*
BGS: London.

Ministry of Agriculture, Fisheries and Food (1988) *Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land.* MAFF: London.

Met. Office (1989) *Climatological Data for Agricultural Land Classification.*
Met. Office: Bracknell.

Soil Survey of England and Wales (1983) *Sheet 6, Soils of South-East England.*
SSEW: Harpenden.

Soil Survey of England and Wales (1984) *Soils and their Use in South East England*
SSEW: Harpenden

APPENDIX I

DESCRIPTIONS OF THE 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 includes 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 or horticultural crops can usually be grown but on some land of this 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 land.

Grade 3: Good to Moderate Quality Land

Land with moderate limitations which affect the choice of crops, the timing and type of cultivation, harvesting or the level of yield. When 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 the 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 moist 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 severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

APPENDIX II

SOIL WETNESS CLASSIFICATION

Definitions of Soil Wetness Classes

Soil wetness is classified according to the depth and duration of waterlogging in the soil profile. Six soil wetness classes are identified and are defined in the table below.

Wetness Class	Duration of waterlogging ¹
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years. ²
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 only wet within 40 cm depth for 30 days in most years.
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 present within 80 cm depth, it is wet within 70 cm for more than 180 days, but only wet within 40 cm depth for between 31-90 days in most years.
IV	The soil profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for more than 210 days in most years or, if there is no slowly permeable layer present within 80 cm depth, it is wet within 40 cm depth for 91-210 days in most years.
V	The soil profile is wet within 40 cm depth for 211-335 days in most years.
VI	The soil profile is wet within 40 cm depth for more than 335 days in most years.

Assessment of Wetness Class

Soils have been allocated to wetness classes by the interpretation of soil profile characteristics and climatic factors using the methodology described in *Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land* (MAFF, 1988).

¹ The number of days is not necessarily a continuous period.

² 'In most years' is defined as more than 10 out of 20 years.

APPENDIX III

SOIL DATA

Contents:

- Sample location map**
- Soil abbreviations - Explanatory Note**
- Soil Pit Descriptions**
- Soil boring descriptions (boring and horizon levels)**
- Database Printout - Horizon Level Information**

SOIL PROFILE DESCRIPTIONS: EXPLANATORY NOTE

Soil pit and auger boring information collected during ALC fieldwork is held on a computer database. This uses notations and abbreviations as set out below.

Boring Header Information

1. **GRID REF:** national 100 km grid square and 8 figure grid reference.
2. **USE:** Land use at the time of survey. The following abbreviations are used.

ARA:	Arable	WHT:	Wheat	BAR:	Barley
CER:	Cereals	OAT:	Oats	MZE:	Maize
OSR:	Oilseed rape	BEN:	Field Beans	BRA:	Brassicae
POT:	Potatoes	SBT:	Sugar Beet	FCD:	Fodder Crops
LIN:	Linseed	FRT:	Soft and Top Fruit	FLW:	Fallow
PGR:	Permanent Pasture	LEY:	Ley Grass	RGR:	Rough Grazing
SCR:	Scrub	CFW:	Coniferous Woodland	DCW:	Deciduous Wood
HTH:	Heathland	BOG:	Bog or Marsh	FLW:	Fallow
PLO:	Ploughed	SAS:	Set aside	OTH:	Other
HRT: Horticultural Crops					

3. **GRDNT:** Gradient as estimated or measured by a hand-held optical clinometer.
4. **GLEY/SPL:** Depth in centimetres (cm) to gleying and/or slowly permeable layers.
5. **AP (WHEAT/POTS):** Crop-adjusted available water capacity.
6. **MB (WHEAT/POTS):** Moisture Balance. (Crop adjusted AP - crop adjusted MD)
7. **DRT:** Best grade according to soil droughtiness.
8. If any of the following factors are considered significant, 'Y' will be entered in the relevant column.

MREL:	Microrelief limitation	FLOOD:	Flood risk	EROSN:	Soil erosion risk
EXP:	Exposure limitation	FROST:	Frost prone	DIST:	Disturbed land
CHEM:	Chemical limitation				

9. **LIMIT:** The main limitation to land quality. The following abbreviations are used.

OC:	Overall Climate	AE:	Aspect	EX:	Exposure
FR:	Frost Risk	GR:	Gradient	MR:	Microrelief
FL:	Flood Risk	TX:	Topsoil Texture	DP:	Soil Depth
CH:	Chemical	WE:	Wetness	WK:	Workability
DR:	Drought	ER:	Erosion Risk	WD:	Soil Wetness/Droughtiness
ST:	Topsoil Stoniness				

Soil Pits and Auger Borings

1. **TEXTURE:** soil texture classes are denoted by the following abbreviations.

S:	Sand	LS:	Loamy Sand	SL:	Sandy Loam
SZL:	Sandy Silt Loam	CL:	Clay Loam	ZCL:	Silty Clay Loam
ZL:	Silt Loam	SCL:	Sandy Clay Loam	C:	Clay
SC:	Sandy Clay	ZC:	Silty Clay	OL:	Organic Loam
P:	Peat	SP:	Sandy Peat	LP:	Loamy Peat
PL:	Peaty Loam	PS:	Peaty Sand	MZ:	Marine Light Silts

For the sand, loamy sand, sandy loam and sandy silt loam classes, the predominant size of sand fraction will be indicated by the use of the following prefixes:

- F:** Fine (more than 66% of the sand less than 0.2mm)
M: Medium (less than 66% fine sand and less than 33% coarse sand)
C: Coarse (more than 33% of the sand larger than 0.6mm)

The clay loam and silty clay loam classes will be sub-divided according to the clay content: **M:** Medium (<27% clay) **H:** Heavy (27-35% clay)

2. **MOTTLE COL:** Mottle colour using Munsell notation.
3. **MOTTLE ABUN:** Mottle abundance, expressed as a percentage of the matrix or surface described.
F: few <2% **C:** common 2-20% **M:** many 20-40% **VM:** very many 40% +
4. **MOTTLE CONT:** Mottle contrast
F: faint - indistinct mottles, evident only on close inspection
D: distinct - mottles are readily seen
P: prominent - mottling is conspicuous and one of the outstanding features of the horizon
5. **PED. COL:** Ped face colour using Munsell notation.
6. **GLEY:** If the soil horizon is gleyed a 'Y' will appear in this column. If slightly gleyed, an 'S' will appear.
7. **STONE LITH:** Stone Lithology - One of the following is used.

HR:	all hard rocks and stones	SLST:	soft oolitic or dolimitic limestone
CH:	chalk	FSST:	soft, fine grained sandstone
ZR:	soft, argillaceous, or silty rocks	GH:	gravel with non-porous (hard) stones
MSST:	soft, medium grained sandston	GS:	gravel with porous (soft) stones
SI:	soft weathered igneous/metamorphic rock		

Stone contents (>2cm, >6cm and total) are given in percentages (by volume).

8. **STRUCT:** the degree of development, size and shape of soil peds are described using the following notation:

<u>degree of development</u>	WK: weakly developed ST: strongly developed	MD: moderately developed
<u>ped size</u>	F: fine C: coarse	M: medium VC: very coarse
<u>ped shape</u>	S : single grain GR: granular SAB: sub-angular blocky PL: platy	M: massive AB: angular blocky PR: prismatic

9. **CONSIST:** Soil consistence is described using the following notation:

L: loose **VF:** very friable **FR:** friable **FM:** firm **VM:** very firm
EM: extremely firm **EH:** extremely hard

10. **SUBS STR:** Subsoil structural condition recorded for the purpose of calculating profile droughtiness: **G:** good **M:** moderate **P:** poor

11. **POR:** Soil porosity. If a soil horizon has less than 0.5% biopores >0.5 mm, a 'Y' will appear in this column.

12. **IMP:** If the profile is impenetrable to rooting a 'Y' will appear in this column at the appropriate horizon.

13. **SPL:** Slowly permeable layer. If the soil horizon is slowly permeable a 'Y' will appear in this column.

14. **CALC:** If the soil horizon is calcareous, a 'Y' will appear in this column.

15. Other notations

APW: available water capacity (in mm) adjusted for wheat
APP: available water capacity (in mm) adjusted for potatoes
MBW: moisture balance, wheat
MBP: moisture balance, potatoes

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM LP, SH01, GRAZLY Pit Number : 1P

Grid Reference: SU69706640 Average Annual Rainfall : 662 mm
Accumulated Temperature : 1474 degree days
Field Capacity Level : 139 days
Land Use : Permanent Grass
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 30	MCL	10YR32/00	0	1	HR					
30- 52	HCL	10YR64/63	0	0		C	MDCSAB	FR	M	
52-100	C	10YR62/00	0	2	HR	M	MDCAB	FR	M	

Wetness Grade : 3A Wetness Class : III
Gleying : 030 cm
SPL : 052 cm

Drought Grade : 2 APW : 125mm MBW : 11 mm
APP : 117mm MBP : 8 mm

FINAL ALC GRADE : 3A
MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM LP,SH01,GRAZLY Pit Number : 2P

Grid Reference: SU70206590 Average Annual Rainfall : 662 mm
Accumulated Temperature : 1474 degree days
Field Capacity Level : 139 days
Land Use : Ploughed
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 24	MCL	10YR42/00	2	5	HR					
24- 48	MCL	25 Y62/00	0	7	HR	C	STCSAB	FR	M	
48- 66	SCL	10YR62/00	0	40	HR	M	WKMSAB	FR	G	
66- 80	LMS	10YR62/00	0	60	HR	M	LOOSE	VF	M	

Wetness Grade : 2 Wetness Class : II
Gleying : 024 cm
SPL : No SPL

Drought Grade : 3A APW : 096mm MBW : -17 mm
APP : 100mm MBP : -7 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM LP, SH01, GRAZLY Pit Number : 3P

Grid Reference: SU69976720 Average Annual Rainfall : 662 mm
Accumulated Temperature : 1474 degree days
Field Capacity Level : 139 days
Land Use : Cereals
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 32	MSZL	10YR41 00	1	2	HR					
32- 55	SCL	10YR62 00	0	5	HR	C	MDCSAB	FR	M	
55- 75	C	25 Y62 00	0	20	HR	M	WKCSAB	FM	P	
75- 90	C	25 Y62 00	0	50	HR	M			P	
90-120	C	25 Y62 00	0	50	HR	M			P	

Wetness Grade : 2 Wetness Class : III
Gleying : 032 cm
SPL : 055 cm

Drought Grade : 3A APW : 118mm MBW : 4 mm
APP : 108mm MBP : -1 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM LP, SH01, GRAZLY Pit Number : 4P

Grid Reference: SU69306700 Average Annual Rainfall : 662 mm
Accumulated Temperature : 1474 degree days
Field Capacity Level : 139 days
Land Use : Set-aside
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 22	MCL	10YR41 42	0	0						
22- 37	HCL	10YR51 00	0	0	C	MDCSAB	FR	M		
37- 56	C	25 Y62 00	0	0	M	WKCSAB	FM	P		
56- 76	C	25 Y61 00	0	0	M	MDCOPR	VM	P		

Wetness Grade : 3B Wetness Class : IV
Gleying : 022 cm
SPL : 037 cm

Drought Grade : APW : mm MBW : 0 mm
APP : mm MBP : 0 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM LP,SH01,GRAZLY Pit Number : 5P

Grid Reference: SU70106730 Average Annual Rainfall : 662 mm
Accumulated Temperature : 1474 degree days
Field Capacity Level : 139 days
Land Use : Cereals
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 31	MSZL	10YR41/00	2	7	HR					
31- 45	SCL	10YR52/53	0	14	HR	C	MDCOAB	FR	M	
45- 55	SCL	10YR52/00	0	28	HR	C	WKMEPL	FR	P	
55- 62	HCL	10YR52/00	0	45	HR	M			M	
62-120	HCL	10YR52/00	0	65	HR	M			M	

Wetness Grade : 1 Wetness Class : II
Gleying : 0.31 cm
SPL : No SPL

Drought Grade : 3A APW : 110mm MBW : -4 mm
APP : 097mm MBP : -12 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness

SAMPLE NO.	GRID REF	ASPECT USE	GRDN	GLEY	SPL	CLASS	GRADE	--WETNESS--	-WHEAT-	-POTS-	M. REL	EROSN	FROST	CHEM	ALC LIMIT	COMMENTS	
						AP	MB	AP	MB	DRT	FLOOD	EXP	DIST				
1	SU70106800	CER	050	090	1	1	127	13	110	1	2				DR	2	IMP 100
1P	SU69706640	PGR	030	052	3	3A	125	11	117	8	2				WE	3A	
2	SU70306800	PGR	030	030	4	3B	080	-34	080	-29	3B				WE	3B	IMP 50
2P	SU70206590	PLO	024		2	2	096	-17	100	-7	3A				DR	3A	
3	SU70506800	SAS	030	050	3	3A	000	0	000	0					WE	3A	IMP 100
3P	SU69976720	CER	032	055	3	2	118	4	108	-1	3A				DR	3A	BEST
4	SU69406790	PGR	020	070	2	2	000	0	000	0					WE	3B	GROUNDWATER
4P	SU69306700	SAS	022	037	4	3B		0		0					WE	3B	
5	SU69606790	CER	025	050	3	3A	102	-12	107	-2	3A				WE	3A	IMP 80
5P	SU70106730	CER	031		2	1	110	-4	097	-12	3A				DR	3A	BEST
6	SU70206790	CER	025		2	1	083	-31	083	-26	3B				DR	3A	IMP 50, SEE 5P
7	SU70406790	SAS	035		2	2	112	-2	112	3	3A				DR	3A	
8	SU69506780	CER	030		2	2	080	-34	080	-29	3B				DR	3A	IMP 50, SEE 5P
9	SU69706780	CER	030	060	3	2	121	8	112	5	2				WD	2	IMP 100
10	SU69906780	CER	030		2	1	084	-30	084	-25	3B				DR	3A	IMP 50, SEE 5P
11	SU70106780	CER	030		2	1	088	-26	090	-19	3B				DR	3A	IMP 55, SEE 5P
12	SU70306780	PGR	030	030	4	3B	079	-35	079	-30	3B				WE	3B	IMP 50
13	SU70506780	PGR	005	060	3	2	123	9	105	-4	2				WD	2	IMP 110
14	SU69606770	CER	030		2	2	066	-48	066	-43	3B				DR	3B	IMP 40
15	SU69806770	CER	030		2	2	082	-32	082	-27	3B				DR	3A	IMP 50, SEE 5P
16	SU70006770	LEY	035	050	3	3A	000	0	000	0					WE	3A	
17	SU70206770	PGR	025		2	2	111	-3	111	2	3A				DR	3A	IMP 80, POSS 2
18	SU70406770	PGR	030		2	1	069	-45	069	-40	3B				DR	3B	IMP 40
19	SU70606770	PLO	030	050	3	2	105	-9	110	1	3A				DR	3A	IMP 80, POSS 2
20	SU69506760	CER	030	040	3	3A	087	-27	093	-16	3B				WD	3A	IMP 60, SEE 5P
21	SU69706760	CER	035		2	2	079	-35	079	-30	3B				DR	3A	IMP 50, SEE 5P
22	SU69906760	PGR	030		2	2	083	-31	083	-26	3B				DR	3A	IMP 50, SEE 5P
23	SU70106760	LEY	030		2	1	113	-1	105	-4	3A				DR	3A	IMP 90
24	SU70306760	PGR	0		2	1	098	-16	107	-2	3A				DR	3A	IMP 70, POSS 2
25	SU70506760	PGR	0		2	1	104	-10	112	3	3A				DR	3A	IMP 75, POSS 2
26	SU69806750	CER	035		2	2	095	-19	101	-8	3A				DR	3A	IMP 60
27	SU70006750	CER	048	1	1	084	-30	084	-25	3B				DR	3A	IMP 50, SEE 5P	
28	SU70206750	PGR	025	050	3	3A	118	4	110	1	3A				WE	3A	POSS 3B
29	SU70406750	PGR	035	050	3	3A		0		0					WE	3A	
30	SU70606750	CER	030	050	3	3A	107	-7	109	0	3A				WE	3A	IMP 85
31	SU69406740	CER			1	1	097	-17	103	-6	3A				DR	3A	IMP 60, POSS 2
32	SU69506740	CER	030	050	3	2	127	13	107	-2	2				WD	2	
33	SU69706740	CER			1	1	074	-40	074	-35	3B				DR	3A	IMP 50, SEE 5P
34	SU70106740	PGR	0		2	2	100	-14	109	0	3A				DR	3A	POSS 3B, WET
35	SU70306740	PGR	035	035	4	3B	085	-29	092	-17	3B				WE	3B	IMP 65
36	SU70406740	CER	030	060	3	2	120	6	112	3	2				WD	2	
37	SU70506740	CER	030	030	4	3B		0		0					WE	3B	IMP 50

SAMPLE NO.	GRID REF	ASPECT USE	GRDN T	GLEY SPL	SPL CLASS	GRADE	--WETNESS--		-WHEAT-		-POTS-		M. REL	EROSN	FROST	CHEM	ALC LIMIT	COMMENTS
38	SU70706740	CER	025	050	3	3A			0		0					WE	3A	
39	SU69406730	CER	030	055	3	3A	108	-6	114	5	3A					WD	3A	IMP 80
40	SU69606730	CER N	02	030	040	3	2	082	-32	082	-27	3B				DR	3A	IMP 50, SEE SP
41	SU69806730	CER S	01	038	2	1	088	-26	092	-17	3B					DR	3A	SEE 3P
42	SU70406730	CER	030	055	3	2			0		0					WD	2	IMP 80
43	SU70606730	CER E	030	040	3	3A			0		0					WE	3A	
44	SU69306720	PGR	023		2	2	065	-49	065	-44	3B					DR	3B	IMP 45
45	SU69506720	CER W	02	025	050	3	2	097	-17	102	-7	3A				DR	3A	IMP 78, POSS
46	SU69706720	CER	035	050	3	2	115	1	114	5	3A					DR	3A	IMP 90 POSS 2
47	SU69906720	CER	030		2	1	100	-14	109	0	3A					DR	3A	IMP 70, SEE 3P
48	SU70106720	CER	025		2	1	072	-42	072	-37	3B					DR	3B	IMP 45 PROB 3A
49	SU70306720	CER	025		2	1	101	-13	106	-3	3A					DR	3A	IMP 75, SEE 3P
50	SU70506720	CER	030	040	3	3A			0		0					WE	3A	
51	SU70706720	CER	030	040	3	2			0		0					WE	2	
52	SU69406710	CER W	02	0	030	4	3B	100	-14	105	-4	3A				WE	3B	
53	SU69606710	CER	030	045	3	3A	124	10	102	-7	2					WE	3A	
54	SU69806710	CER	025	045	3	2	093	-21	104	-5	3B					DR	3A	IMP 68, SEE 3P
55	SU70006710	CER	025	055	3	2	114	0	103	-6	3A					DR	3A	IMP 100 POSS 2
56	SU70206710	PGR	035		2	2	067	-47	067	-42	3B					DR	3B	IMP 45 PROB 3A
57	SU70406710	CER	038	065	3	3A	122	8	110	1	2					WE	3A	
58	SU69306700	PGR	025	025	4	3B			0		0					WE	3B	SEE 4P
59	SU69506700	CER W	03	0	030	4	3B		0		0					WE	3B	
60	SU69706700	CER E	01	030	030	4	3B		0		0					WE	3B	QSPL 30
61	SU70306700	CER	030		2	2	096	-18	106	-3	3A					DR	3A	IMP 70
62	SU70506700	CER	025	033	4	3B			0		0					WE	3B	
63	SU69206690	PGR	0	060	3	3B	114	0	112	3	3A					WE	3B	
64	SU69406690	PGR	0	028	4	3B			0		0					WE	3B	
65	SU69606690	PGR	0	035	4	3B			0		0					WE	3B	
66	SU69806690	PGR N	02	0	035	4	3B		0		0					WE	3B	
67	SU70206690	STB	025	025	4	3B	068	-46	068	-41	3B					WE	3B	IMP 48
68	SU70406690	CER S	01	030	030	4	3B	087	-27	095	-14	3B				WE	3B	QSPL 30
69	SU70606690	CER	030	030	4	3B			0		0					WE	3B	
70	SU69306680	PGR	028	028	4	3B			0		0					WE	3B	
71	SU69506680	PGR W	03	030	030	4	3B		0		0					WE	3B	
72	SU69706680	PGR E	02	030	030	4	3B		0		0					WE	3B	
73	SU70106680	LEY		045	1	1	097	-17	105	-4	3A					DR	3A	
74	SU70306680	FCD		035	2	2	074	-40	074	-35	3B					DR	3B	POSS 3A
75	SU70506680	CER W	01	025	040	3	3A	108	-6	106	-3	3A				WE	3A	
76	SU69206670	SAS	0	045	3	3B			0		0					WE	3B	
77	SU69406670	SAS	0	025	4	3B			0		0					WE	3B	
78	SU69606670	PGR		030	030	4	3B		0		0					WE	3B	
79	SU69806670	PGR E	02	0	030	4	3B		0		0					WE	3B	

SAMPLE NO.	GRID REF	ASPECT USE	GRDNT	GLEY SPL	CLASS	GRADE	--WETNESS--	-WHEAT-	-POTS-	M. REL	EROSN	FROST	CHEM	ALC LIMIT	COMMENTS
					AP	MB	AP	MB	DRT	FLOOD	EXP	DIST			
80	SU70006670	CER		028	2	2	091	-23 099	-10 3B				DR	3A	IMP 70, SEE 3P
81	SU70206670	CER E	01	030 030	4	3B	075	-39 075	-34 3B				WE	3B	
82	SU70406670	FCD		035 035	4	3B	094	-20 106	-3 3A				WE	3B	Q SPL 35
83	SU70506670	FCD W	02	0 035	4	3B		0	0				WE	3B	
84	SU69306660	PGR		030 035	4	3B		0	0				WE	3B	
85	SU69506660	PGR SE	02	030 030	4	3B		0	0				WE	3B	
86	SU69706660	PGR		030 060	3	3A		0	0				WE	3A	
87	SU69906660	CER E	01	030 050	3	3A		0	0				WE	3A	
88	SU70106660	CER E	01	030 030	4	3B	091	-23 099	-10 3B				WE	3B	
89	SU70306660	FCD W	01	030	2	2	060	-54 060	-49 4				DR	3B	IMP 40
90	SU70506660	FCD W	02	030 048	3	3A		0	0				WE	3A	
91	SU69206650	PGR		0 030	4	3B		0	0				WE	3B	
92	SU69606650	PGR NW	01	030 050	3	3A		0	0				WE	3A	QSPL-30
93	SU69806650	PGR		035 055	3	3A		0	0				WE	3A	QSPL-35
94	SU70006650	CER E	02	030 060	3	3A	108	-6 114	5 3A				WE	3A	
95	SU70206650	CER			1	1	072	-42 072	-37 3B				DR	3A	IMP 50, SEE 5P
96	SU70406650	FCD W	02	035	2	2	085	-29 085	-24 3B				DR	3A	IMP 50, SEE 5P
97	SU69106640	PGR		0 035	4	3B		0	0				WE	3B	
98	SU69706640	PGR		035 055	3	3A		0	0				WE	3A	SEE 1P
99	SU69906640	LEY E	01	025 045	3	3A		0	0				WE	3A	
100	SU70106640	CER E	01	030 050	3	3A		0	0				WE	3A	
101	SU70306640	LEY		035	2	2	099	-14 108	1 3A				DR	3A	POSS 2
102	SU70506640	LEY		025 035	4	3B		0	0				WE	3B	
103	SU69606630	PGR NE	01	025 025	4	3B		0	0				WE	3B	
104	SU69806630	CER E	01	030 035	4	3B		0	0				WE	3B	
105	SU70006630	CER E	01	028 042	3	3A		0	0				WE	3A	
106	SU70206630	STB		030	2	2	097	-17 105	-4 3A				DR	3A	IMP 70, SEE 2P
107	SU70406630	LEY		030	2	2	132	19 117	10 2				WD	2	
108	SU69506620	PGR		030 030	4	3B		0	0				WE	3B	
109	SU69706620	PGR		030 030	4	3B		0	0				WE	3B	
110	SU69906620	CER E	01	025 045	3	3A		0	0				WE	3A	
111	SU70106620	CER		030	2	2	083	-31 083	-26 3B				DR	3B	POSS 3A SEE 5P
112	SU70306620	STB		025 025	4	3B		0	0				WE	3B	IMP 60
113	SU69606610	PGR SE	02	030 030	4	3B		0	0				WE	3B	
114	SU69806610	CER E	01	030 030	4	3B		0	0				WE	3B	
115	SU70006610	CER E	01	030 055	3	3A		0	0				WE	3A	
116	SU70206610	STB E	01	030	2	2	062	-52 062	-47 4				DR	3B	IMP 40
117	SU70406610	PGR		030	2	2	094	-20 102	-7 3A				DR	3A	IMP 65, SEE 2P
118	SU69706600	PGR SE	02	030 030	4	3B		0	0				WE	3B	
119	SU69906600	CER E	01	030 030	4	3B		0	0				WE	3B	
120	SU70106600	STB		030 045	3	3A		0	0				WE	3A	
121	SU70306600	CER		035	2	2	079	-35 079	-30 3B				DR	3B	POSS 3A SEE 2P

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--				-WHEAT-		-POTS-		M.REL	EROSN	FROST	CHEM	ALC	COMMENTS
			GRDN	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EXP	DIST	
122	SU69806590	CER N	01	030 050	3	3A			0	0					WE 3A	
123	SU70006590	CER		030 030	4	3B			0	0					WE 3B	
124	SU70206590	STB		025	2	2	101	-13	110	1	3A				DR 3A	IMP 70, SEE 2P
125	SU69906580	CER NE	02	030 035	4	3B			0	0					WE 3B	
126	SU70106580	CER E	01	030 030	4	3B			0	0					WE 3B	
127	SU70306580	CER E	01	030 055	3	3A			0	0					WE 3A	IMP 90
128	SU70206570	CER E	01	030	2	2	061	-53	061	-48	4				DR 3B	IMP 40
129	SU70306570	CER		030 030	4	3B			0	0					WE 3B	IMP 70
130	SU70306560	CER		030 055	3	3A			0	0					WE 3A	Q SPL 30

SAMPLE	DEPTH	TEXTURE	COLOUR	---MOTTLES---			PED COL.	---STONES---			STRUCT/ TOT CONSIST	SUBS			
				COL	ABUN	CONT		GLEY	>2	>6	LITH	STR	POR	IMP	
1	0-30	ms1	10YR43 00					0	0	HR	2				
	30-50	ms1	10YR54 00					0	0		0	M			
	50-75	sc1	10YR63 00 75YR58 00 C					Y	0	0	0	M			
	75-90	hc1	10YR63 00 75YR58 00 C					Y	0	0	0	M			
	90-100	c	10YR63 00 75YR58 00 C					Y	0	0	0	P		Y	
														IMP 100, GRAVELLY	
1P	0-30	mc1	10YR32 00					0	0	HR	1				AT BORING 98
	30-52	hc1	10YR64 63 10YR72 00 C					Y	0	0	0	MDCSAB FR M			
	52-100	c	10YR62 00 75YR68 62 M				00MN00 00	Y	0	0	HR	2 MDCAB FR M	Y	Y	
2	0-30	hc1	10YR52 00 75YR46 00 F					0	0		0				
	30-50	c	10YR62 00 75YR58 00 M					Y	0	0	0	P		Y	IMP 50, GRAVELLY
2P	0-24	mc1	10YR42 00					2	0	HR	5				AT BORING 124
	24-48	mc1	25 Y62 00 75YR58 00 C				25 Y72 00	Y	0	0	HR	7 STCSAB FR M			
	48-66	sc1	10YR62 00 75YR68 00 M					Y	0	0	HR	40 WKMSAB FR G			
	66-80	1ms	10YR62 00 75YR68 00 M					Y	0	0	HR	60 LOOSE VF M			
3	0-30	sc1	10YR42 00					0	0	HR	1				
	30-40	sc1	10YR53 00 75YR58 00 C				10YR71 00	Y	0	0		0 M			
	40-50	hc1	10YR53 00 75YR58 00 C				10YR71 00	Y	0	0		0 M			
	50-100	c	10YR62 63 75YR58 00 C					Y	0	0		0 P		Y	IMP 100, GRAVELLY
3P	0-32	msz1	10YR41 00					1	0	HR	2				NEAR BORING 47
	32-55	sc1	10YR62 00 75YR58 00 C					Y	0	0	HR	5 MDCSAB FR M			
	55-75	c	25 Y62 00 75YR68 00 M					Y	0	0	HR	20 WKCSAB FM P	Y	Y	
	75-90	c	25 Y62 00 75YR68 00 M					Y	0	0	HR	50 P		Y	
	90-120	c	25 Y62 00 75YR68 00 M					Y	0	0	HR	50 P		Y	
4	0-20	mc1	10YR42 00 75YR46 00 F					3	0	HR	3				
	20-30	mc1	10YR42 00 75YR46 00 C					Y	0	0	HR	5 M			
	30-40	mc1	10YR52 00 75YR58 00 C					Y	0	0	HR	5 M			
	40-70	hc1	10YR52 00 75YR58 00 C					Y	0	0	HR	10 M			
	70-100	c	10YR52 00 75YR58 00 C					Y	0	0	HR	10 P		Y	IMP 100, GRAVELLY
4P	0-22	mc1	10YR41 42					0	0		0				AT BORING 58
	22-37	hc1	10YR51 00 75YR46 00 C					Y	0	0		0 MDCSAB FR M			
	37-56	c	25 Y62 00 75YR58 00 M					Y	0	0		0 WKCSAB FM P	Y	Y	
	56-76	c	25 Y61 00 75YR78 00 M					Y	0	0		0 MDCOPR VM P	Y	Y	
5	0-25	mc1	10YR42 00					0	0	HR	2				
	25-50	mc1	10YR52 00 75YR58 00 C					Y	0	0	HR	2 M			
	50-80	c	10YR61 00 75YR58 00 M					Y	0	0	HR	10 P		Y	IMP 80, GRAVELLY
5P	0-31	msz1	10YR41 00					2	0	HR	7				AT BORING 11
	31-45	sc1	10YR52 53 10YR58 00 C					Y	0	0	HR	14 MDCOAB FR M			
	45-55	sc1	10YR52 00 75YR58 00 C					Y	0	0	HR	28 WKMEPL FR P			
	55-62	hc1	10YR52 00 75YR58 00 M					Y	0	0	HR	45 M			
	62-120	hc1	10YR52 00 75YR58 00 M					Y	0	0	HR	65 M			

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	---STONES----			STRUCT/	SUBS						
				COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC
6	0-25	msz1	10YR42 00						1	0	HR	5						
	25-50	mc1	10YR52 00 75YR58 00 C				10YR71 00 Y		0	0	HR	5	M				IMP 50, GRAVELLY	
7	0-35	sc1	10YR42 00						0	0		0	M					
	35-80	sc1	10YR52 00 75YR58 00 C				10YR71 00 Y		0	0		0	M				IMP 80, GRAVELLY	
8	0-30	mc1	10YR42 00						3	0	HR	7						
	30-50	hc1	10YR52 00 75YR58 00 C				10YR71 00 Y		0	0	HR	7	M				IMP 50, GRAVELLY	
9	0-30	msz1	10YR42 00						3	1	HR	10						
	30-60	hc1	10YR62 00 75YR56 00 C					Y	0	0	HR	2	M					
	60-100	c	10YR51 00 75YR58 00 M					Y	0	0		0	P		Y			
10	0-30	msz1	10YR42 00						3	0	HR	7						
	30-45	mc1	10YR52 00 75YR58 00 C					Y	0	0	HR	5	M					
	45-50	hc1	10YR52 00 75YR58 00 C					Y	0	0	HR	5	M				IMP 50, GRAVELLY	
11	0-30	msz1	10YR42 00						0	0	HR	3						
	30-55	sc1	10YR53 00 75YR58 00 C				10YR71 00 Y		0	0	HR	7	M				IMP 55, GRAVELLY	
12	0-30	hc1	10YR52 00 75YR46 00 F						0	0		0						
	30-40	hc1	10YR62 00 75YR58 00 M					Y	0	0		0	P		Y			
	40-50	c	10YR61 00 75YR58 00 M					Y	0	0		0	P		Y		IMP 50, GRAVELLY	
13	0-5	msz1	10YR43 00						0	0		0						
	5-55	ms1	10YR52 00 75YR56 00 C				10YR71 00 Y		0	0		0	M					
	55-60	sc1	10YR52 00 75YR56 00 C				10YR71 00 Y		0	0		0	M					
	60-90	c	10YR62 00 75YR68 00 M					Y	0	0		0	P		Y			
	90-110	sc	10YR62 00 75YR68 00 M					Y	0	0	HR	10	P		Y		IMP 110, GRAVELLY	
14	0-30	mc1	10YR42 00						2	0	HR	5						
	30-40	mc1	10YR52 00 75YR58 00 C					Y	0	0	HR	10	M				IMP 40, GRAVELLY	
15	0-30	mc1	10YR42 00						2	0	HR	5						
	30-50	mc1	10YR52 00 75YR58 00 C					Y	0	0	HR	5	M				IMP 50, GRAVELLY	
16	0-35	mc1	10YR42 00						0	0	HR	5						
	35-50	hc1	10YR53 00 10YR58 00 C				10YR61 00 Y		0	0	HR	5	M					
	50-120	c	10YR62 00 75YR58 00 M					Y	0	0	HR	2	P		Y			
17	0-25	mc1	10YR42 00						0	0	HR	2						
	25-50	mc1	10YR53 00 10YR58 00 C				10YR61 00 Y		0	0	HR	2	M					
	50-80	sc1	10YR53 00 10YR58 00 C				10YR61 00 Y		0	0	HR	10	M				IMP 80, GRAVELLY	
18	0-30	msz1	10YR41 00 10YR58 00 F						0	0	HR	4						
	30-40	sc1	10YR52 00 75YR46 00 C					Y	0	0	HR	6	M				IMP 40, GRAVELLY	
19	0-30	msz1	10YR42 00						1	0	HR	5						
	30-50	mc1	10YR53 00 75YR58 00 C				10YR71 00 Y		0	0	HR	5	M					
	50-80	c	10YR62 00 75YR68 00 C					Y	0	0	HR	2	P		Y		IMP 80, GRAVELLY	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	----STONES----			STRUCT/	SUBS							
				COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC	
20	0-30	mc1	10YR42 00						2	0	HR	5							
	30-40	hc1	10YR52 00 75YR58 71 C					Y	0	0	HR	5	M						
	40-60	c	10YR53 00 75YR68 00 M					Y	0	0	HR	3	P		Y			IMP 60, GRAVELLY	
21	0-20	mc1	10YR41 00						3	0	HR	7							
	20-35	mc1	10YR42 00						0	0	HR	7	M						
	35-50	hc1	10YR53 00 75YR58 00 C				10YR71 00 Y	0	0	HR	5	M						IMP 50, GRAVELLY	
22	0-30	mc1	10YR41 00						0	0	HR	2							
	30-50	hc1	10YR53 00 75YR58 00 C				10YR71 00 Y	0	0	HR	5	M						IMP 50, GRAVELLY	
23	0-30	msz1	10YR41 42						3	0	HR	7							
	30-50	sc1	10YR52 00 10YR58 00 C					Y	0	0	HR	10	M						
	50-90	sc1	10YR52 00 10YR58 00 C					Y	0	0	HR	20	M						IMP 90, GRAVELLY
24	0-30	msz1	10YR42 00 75YR46 00 C					Y	0	0	HR	5							
	30-50	sc1	10YR62 00 75YR58 00 C					Y	0	0	HR	10	M						
	50-60	sc1	10YR62 00 75YR58 00 C					Y	0	0	HR	10	M						
	60-70	sc	10YR62 00 75YR58 00 C					Y	0	0	HR	10	P						IMP 70, GRAVELLY
25	0-28	msz1	10YR42 52 10YR46 00 C					Y	0	0	HR	5							
	28-60	mc1	25Y 61 62 10YR58 00 M					Y	0	0	HR	10	M						
	60-70	hc1	25Y 62 00 75YR58 00 M					Y	0	0	HR	10	M						
	70-75	hc1	25Y 61 00 75YR58 00 M					Y	0	0	HR	40	M						IMP 75, GRAVELLY
26	0-35	mc1	10YR42 00						0	0	HR	2							
	35-60	hc1	10YR52 00 75YR58 00 C				10YR71 00 Y	0	0	HR	2	M						IMP 60, GRAVELLY	
27	0-20	msz1	10YR42 00						2	0	HR	5							
	20-48	mc1	10YR54 00						0	0	HR	5	M						
	48-50	mc1	10YR53 00 75YR58 00 C					Y	0	0	HR	5	M						IMP 50, GRAVELLY
28	0-25	mc1	10YR41 00						0	0		0							
	25-50	hc1	10YR61 00 75YR56 00 C					Y	0	0		0	M						POSS SPL
	50-100	c	10YR61 00 75YR56 00 M					Y	0	0	HR	5	P		Y				
29	0-25	msz1	10YR42 00						0	0	HR	5							
	25-35	mc1	10YR43 00						0	0	HR	5	M						
	35-50	sc1	10YR62 00 10YR58 00 M					Y	0	0	HR	10	M						
	50-80	c	25Y 62 00 10YR68 00 M					Y	0	0	HR	10	P		Y				
	80-85	c	25Y 62 00 10YR68 00 M					Y	0	0	HR	30	P		Y				
30	0-30	mc1	10YR43 00						0	0	HR	2							
	30-50	hc1	10YR52 00 75YR58 00 C				10YR72 00 Y	0	0	HR	2	M							
	50-80	c	25Y 52 00 75YR68 00 M				10YR71 00 Y	0	0	HR	5	P		Y					
	80-85	c	25Y 52 00 75YR68 00 M				10YR71 00 Y	0	0	HR	15	P		Y				IMP 85, GRAVELLY	
31	0-30	msz1	10YR42 00						0	0	HR	2							
	30-60	mc1	10YR53 00						0	0	HR	2	M						IMP 60, GRAVELLY

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	----STONES----			STRUCT/	SUBS						
				COL	ABUN	CONT	COL.	GEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC
32	0-30	ms1	10YR43 00						0	0	HR	2						
	30-50	hc1	10YR53 52 75YR58 00 C					Y	0	0	HR	2	M					
	50-60	c	10YR62 00 75YR58 00 M					Y	0	0	HR	2	P		Y			
	60-100	c	10YR62 72 75YR58 00 M					Y	0	0	HR	5	P		Y			
	100-120	hc1	10YR62 72 75YR58 00 M					Y	0	0	HR	15	P		Y			
33	0-30	msz1	10YR43 00						2	0	HR	5						
	30-40	msz1	10YR42 00						0	0	HR	10	M					
	40-50	lms	10YR63 00						0	0	HR	45	M					IMP 50, GRAVELLY
34	0-35	mc1	10YR51 00 75YR46 00 C					Y	0	0		0						
	35-65	hc1	10YR52 00 75YR58 00 M					Y	0	0	HR	5	M					IMP 65, GRAVELLY
35	0-25	mc1	10YR42 43						0	0	HR	5						
	25-35	mc1	10YR44 00						0	0	HR	5	M					
	35-60	c	10YR53 52 75YR56 00 M				00MN00 00 Y	0	0	HR	10	P		Y				
	60-65	c	10YR52 00 75YR58 00 M					Y	0	0	HR	30	P		Y			IMP 65, GRAVELLY
36	0-30	msz1	10YR42 00						0	0	HR	2						
	30-60	mc1	10YR53 00 75YR58 00 C					Y	0	0	HR	5	M					
	60-90	hc1	10YR63 00 75YR58 00 C					Y	0	0	HR	15	P		Y			-HEAVY, Q SPL
	90-100	hc1	10YR63 00 75YR58 00 C					Y	0	0	HR	20	P		Y			-HEAVY, Q SPL
37	0-30	mc1	10YR42 00						0	0	HR	2						
	30-50	c	10YR52 53 75YR58 00 C			10YR51 00 Y	0	0	HR	5	P		Y					IMP 50, GRAVELLY
38	0-25	mc1	10YR43 00						0	0	HR	1						
	25-50	hc1	10YR53 00 75YR58 00 C					Y	0	0	HR	2	M					
	50-100	c	10YR63 00 75YR58 00 M					Y	0	0	HR	5	P		Y			
39	0-30	msz1	10YR43 00						0	0	HR	2						
	30-55	hc1	10YR53 00 75YR58 00 C					Y	0	0	HR	2	M					
	55-70	c	10YR62 00 75YR58 00 M					Y	0	0	HR	5	P		Y			
	70-80	c	10YR62 00 75YR58 00 M					Y	0	0	HR	15	P		Y			IMP 80, GRAVELLY
40	0-30	msz1	10YR43 00						0	0	HR	2						
	30-40	mc1	10YR62 63 75YR58 00 M			00MN00 00 Y	0	0	HR	2	M							
	40-50	hc1	10YR62 72 75YR58 00 M			00MN00 00 Y	0	0	HR	15	P		Y				IMP 50, GRAVELLY	
41	0-28	msz1	10YR42 00						1	0	HR	2						
	28-38	mc1	10YR53 00						0	0	HR	5	M					
	38-55	hc1	10YR63 00 75YR58 00 C					Y	0	0	HR	10	P		Y			
	55-60	hc1	10YR63 00 75YR58 00 C					Y	0	0	HR	25	M		Y			IMP 60, GRAVELLY
42	0-30	msz1	10YR42 00						1	0	HR	5						
	30-55	sc1	10YR53 00 75YR58 00 C					Y	0	0	HR	5	M					
	55-80	c	25 Y62 00 75YR58 00 M					Y	0	0	HR	5	P		Y			IMP 80, GRAVELLY

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	----STONES----			STRUCT/	SUBS						
				COL	ABUN	CONT	COL.	GEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC
43	0-30	mc1	10YR42 00						0	0	HR	2						
	30-40	hc1	10YR53 00 75YR58 00 C				10YR61 00 Y		0	0	HR	2		M				
	40-80	c	10YR62 00 75YR58 00 M					Y	0	0	HR	2		P			Y	
44	0-23	mc1	10YR42 00						0	0	HR	5						
	23-35	mc1	10YR42 52 10YR46 00 C					Y	0	0	HR	10		M				
	35-40	mc1	25Y 62 00 10YR66 00 C					Y	0	0	HR	10		M				
	40-45	gh	10YR53 00					Y	0	0		0		P				
45	0-25	ms1	10YR43 00						0	0	HR	2						
	25-50	mc1	10YR63 00 10YR58 00 M					Y	0	0	HR	5		M				
	50-78	c	75YR58 00 75YR58 00 M				00MN00 00 Y		0	0	HR	15		P		Y		
46	0-35	msz1	10YR43 00						0	0	HR	2						
	35-50	mc1	10YR62 63 75YR58 00 M					Y	0	0	HR	2		M				
	50-90	c	10YR62 72 75YR58 00 M				00MN00 00 Y		0	0	HR	5		P		Y		
47	0-30	msz1	10YR32 00						0	0	HR	2						
	30-40	mc1	10YR52 00 10YR51 56 C					Y	0	0	HR	2		M				
	40-50	mc1	10YR62 00 10YR61 68 C					Y	0	0	HR	10		M				
	50-70	mc1	10YR51 00					Y	0	0	HR	30		M				
48	0-25	msz1	10YR42 00						4	1	HR	6						
	25-45	sc1	10YR52 00 10YR58 51 C					Y	0	0	HR	10		M				
49	0-25	msz1	10YR42 00						0	0	HR	5						
	25-35	msz1	10YR52 00 10YR58 00 C					Y	0	0	HR	10		M				
	35-65	sc1	25Y 61 62 10YR68 00 C				00MN00 00 Y		0	0	HR	10		M				
	65-75	sc1	40YR52 00 10YR56 00 C					Y	0	0	HR	40		M				
50	0-30	mc1	10YR43 00						0	0	HR	2						
	30-40	mc1	10YR62 00 75YR58 00 C					Y	0	0	HR	2		M				
	40-75	c	10YR61 00 75YR68 00 M					Y	0	0		0		P		Y		
51	0-30	msz1	10YR42 00						1	0	HR	1						
	30-40	hc1	10YR62 00 75YR68 00 C					Y	0	0		0		M				
	40-80	c	10YR52 00 75YR58 00 M					Y	0	0		0		P		Y		
52	0-30	hc1	10YR42 00 75YR58 00 C					Y	0	0	HR	2						
	30-80	c	10YR72 00 10YR58 00 M					Y	0	0		0		P		Y		
53	0-30	mc1	10YR43 00						0	0	HR	2						
	30-45	hc1	10YR62 72 10YR58 00 C					Y	0	0	HR	2		M				
	45-120	c	10YR72 62 75YR58 00 M					Y	0	0	HR	5		P		Y		
54	0-25	ms1	10YR43 00						0	0	HR	1						
	25-45	mc1	10YR63 62 10YR56 00 C					Y	0	0		0		M				
	45-68	c	10YR71 72 75YR58 00 M				00MN00 00 Y		0	0		0		P		Y		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	----STONES----			STRUCT/	SUBS					
				COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL
55	0-25	ms1	10YR42 00						4	1	HR	4					
	25-55	sc1	10YR52 00	10YR58	51	C		Y	0	0	HR	2	M				
55-90	c		10YR63 00	10YR66	61	C		Y	0	0	HR	9	P			Y	
90-100	sc1		10YR63 00	10YR66	61	C		Y	0	0	HR	10	M				IMP 100, GRAVELLY
56	0-25	mc1	10YR33 43						0	0	HR	5					
	25-35	mc1	10YR44 00						0	0	HR	10	M				
35-45	hc1		10YR52 00	10YR56	00	C		Y	0	0	HR	40	M				IMP 45, GRAVELLY
57	0-30	msz1	10YR42 43						0	0	HR	5					
30-38	msz1		10YR44 00						0	0	HR	5	M				
38-65	sc1		25Y 62 00	10YR58	00	C	00MN00	00	Y	0	0	HR	10	M			
65-100	c		10YR62 00	10YR58	00	M	00MN00	00	Y	0	0	HR	10	P		Y	
100-105	sc1		10YR62 00	10YR58	00	M			Y	0	0	HR	40	M			
58	0-25	mc1	10YR42 00						0	0	HR	3					
	25-50	hc1	10YR62 00	10YR58	00	M		Y	0	0	HR	5	M		Y		BORDERLINE CLAY
50-70	c		25Y 62 00	10YR68	00	M		Y	0	0	HR	5	P		Y		
59	0-30	mc1	10YR42 00	10YR58	00	C		Y	0	0		0					
30-60	c		10YR71 72	75YR58	00	C		Y	0	0		0	P		Y		
60	0-30	mc1	10YR43 00						0	0		0					
30-75	hc1		10YR63 62	10YR58	00	M		Y	0	0		0	M		Y		BORDERLINE CLAY
75-90	c		10YR71 72	75YR58	00	M		Y	0	0		0	P		Y		
61	0-30	mc1	10YR42 00						2	0	HR	6					
30-65	hc1		10YR53 52	10YR56	58	C	00MN00	00	Y	0	0	HR	10	M			
65-70	hc1		10YR53 00	10YR58	00	C		Y	0	0	HR	50	M				IMP 70, GRAVELLY
62	0-25	mc1	10YR42 00						0	0	HR	2					
25-33	hc1		10YR53 00	10YR56	00	M		Y	0	0	HR	2	M				
33-70	c		25Y 52 00	10YR58	00	M	00MN00	00	Y	0	0	HR	2	P		Y	
63	0-30	hc1	10YR42 52	10YR66	00	C		Y	0	0	HR	3					
30-60	hc1		10YR62 63	10YR58	68	C		Y	0	0	HR	3	M				
60-90	c		10YR53 00	75YR58	00	M		Y	0	0		0	P		Y		
64	0-28	mc1	10YR42 00	10YR56	00	C		Y	0	0	HR	5					
28-70	c		25Y 52 00	75YR58	00	M		Y	0	0	HR	5	P		Y		
65	0-35	mc1	10YR42 00	10YR58	00	C		Y	0	0	HR	1					
35-60	c		10YR71 72	75YR58	00	M		Y	0	0	HR	1	P		Y		
66	0-35	mc1	10YR42 00	10YR58	00	C		Y	0	0	HR	1					
35-60	c		10YR71 72	75YR58	00	M	00MN00	00	Y	0	0	HR	1	P		Y	
67	0-25	mc1	10YR42 00						2	0	HR	5					
25-48	hc1		10YR62 63	75YR56	00	C		Y	0	0	HR	10	P		Y		IMP 48, GRAVELLY

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED COL.	----STONES----			STRUCT/ LITH TOT CONSIST	SUBS STR POR IMP SPL CALC
				COL	ABUN	CONT		GLEY	>2	>6		
68	0-30	mc1	10YR42 00					Y	0	0	HR	2
	30-50	hc1	25Y 63 00	10YR58 00	C			Y	0	0	HR	2
	50-65	c	10YR72 62	75YR58 00	M			Y	0	0	HR	5
69	0-30	mc1	10YR42 00					Y	0	0	HR	2
	30-48	c	25Y 63 00	10YR68 62	C			Y	0	0	HR	2
	48-80	c	25Y 62 00	75YR58 00	M			Y	0	0	HR	2
70	0-28	mc1	10YR42 00					Y	0	0	HR	5
	28-70	c	25Y 62 00	75YR68 00	M			Y	0	0	HR	5
71	0-30	mc1	10YR42 00					Y	0	0		0
	30-60	c	75YR71 72	75YR58 00	M			Y	0	0		0
72	0-30	mc1	10YR42 00					Y	0	0		0
	30-60	c	10YR71 72	75YR58 00	M			Y	0	0	HR	2
73	0-30	mc1	10YR32 00						2	1	HR	2
	30-45	hc1	10YR53 00						0	0	HR	2
	45-60	hc1	10YR52 00	10YR56 00	C			Y	0	0	HR	3
	60-65	c	10YR53 00	10YR56 00	C			Y	0	0	HR	30
74	0-25	mc1	10YR43 00						2	0	HR	2
	25-35	hc1	10YR53 00						0	0	HR	2
	35-42	c	10YR53 00	10YR53 58	C			Y	0	0	HR	6
	42-45	c	10YR53 00	10YR52 58	C			Y	0	0	HR	30
75	0-25	mc1	10YR43 00						2	0	HR	2
	25-40	mc1	10YR53 00	10YR58 00	C			Y	0	0	HR	1
	40-60	c	10YR53 00	10YR68 61	C			Y	0	0	HR	4
	60-90	c	10YR63 00	10YR68 61	C			Y	0	0		0
76	0-25	hc1	10YR42 00	75YR46 00	C			Y	0	0		0
	25-45	hc1	10YR53 00	75YR58 00	C			Y	0	0		0
	45-70	c	10YR61 00	75YR58 00	M			Y	0	0		0
77	0-10	mc1	10YR41 00	75YR46 00	C			Y	0	0		0
	10-25	hc1	10YR41 00	75YR46 00	C			Y	0	0		0
	25-70	c	10YR62 00	75YR58 00	M			Y	0	0		0
78	0-30	mc1	10YR42 00						0	0		0
	30-60	c	10YR71 00	75YR58 00	C			Y	0	0	HR	1
79	0-30	mc1	10YR42 00	10YR58 00	C			Y	0	0	HR	2
	30-50	c	75YR71 72	75YR58 00	M			Y	0	0	HR	5
80	0-28	mc1	10YR42 00						2	0	HR	8
	28-45	hc1	10YR53 52	10YR58 00	C	00MN00 00	Y	0	0	HR	10	M
	45-65	hc1	10YR53 52	10YR58 00	C			Y	0	0	HR	25
	65-70	sc1	10YR52 00	10YR58 00	C			Y	0	0	HR	60

IMP 70, GRAVELLY

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED COL.	----STONES----			STRUCT/ SUBS							
				COL	ABUN	CONT		GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC
81	0-30	mc1	10YR42 00						2	1	HR	7						
	30-45	c	10YR64 00 10YR58 00 C					Y	0	0	HR	5		P		Y		
	45-50	c	10YR64 00 10YR58 00 C					Y	0	0	HR	15		P		Y		IMP 50, GRAVELLY
82	0-35	mc1	10YR42 00						0	0		0						
	35-48	hc1	10YR62 00 75YR58 00 C					Y	0	0	HR	2		P		Y		
	48-70	c	10YR62 00 75YR58 00 C					Y	0	0	HR	5		P		Y		
83	0-35	mc1	10YR42 00 10YR58 00 C					Y	0	0		0						
	35-60	c	10YR62 72 75YR58 00 M					Y	0	0	HR	2		P		Y		
84	0-30	mzcl	10YR42 00						0	0		0						
	30-35	hc1	10YR53 00 75YR58 00 C				10YR71 00	Y	0	0		0		M				
	35-70	c	10YR63 00 75YR58 00 C					Y	0	0		0		P		Y		
85	0-30	mc1	10YR42 00						0	0	HR	1						
	30-60	c	10YR71 72 75YR58 00 M					Y	0	0	HR	1		P		Y		
86	0-30	mc1	10YR43 00						0	0	HR	1						
	30-60	mc1	10YR53 63 10YR56 00 C					Y	0	0	HR	1		M				
	60-80	c	10YR62 72 75YR58 00 M					Y	0	0	HR	1		P		Y		
87	0-30	mzcl	10YR43 00						1	0	HR	1						
	30-50	mc1	10YR63 00 10YR66 00 C					Y	0	0		0		M				
	50-80	c	10YR63 00 10YR68 00 C					Y	0	0	HR	2		P		Y		
	80-90	c	10YR63 00 10YR68 71 C					Y	0	0	HR	2		P		Y		
	90-100	c	10YR64 00 10YR68 72 C					Y	0	0		0		P		Y		
88	0-30	mzcl	10YR43 00						3	1	HR	3						
	30-60	c	10YR63 00 10YR68 00 C					Y	0	0	HR	2		P		Y		
	60-65	c	10YR63 00 10YR68 00 C					Y	0	0	HR	15		P		Y		
89	0-30	mc1	10YR32 00						2	0	HR	8						
	30-40	hc1	10YR63 00 10YR58 00 C					Y	0	0	HR	40		M				IMP 40, GRAVELLY
90	0-30	mc1	10YR42 00						0	0		0						
	30-48	hc1	10YR53 52 10YR58 00 C					Y	0	0		0		M				
	48-70	c	10YR62 72 75YR58 00 M					Y	0	0	HR	2		P		Y		
91	0-20	mzcl	10YR42 00 75YR46 00 C					Y	0	0		0						
	20-30	hc1	10YR52 00 75YR46 00 C					Y	0	0		0		M				
	30-60	c	10YR52 00 75YR58 00 M				10YR71 00	Y	0	0		0		P		Y		
92	0-30	mc1	10YR43 00						0	0	HR	1						
	30-50	hc1	10YR62 63 10YR58 00 C					Y	0	0		0		M				
	50-70	c	10YR62 72 75YR58 00 M					Y	0	0		0		P		Y		
93	0-35	mc1	10YR42 00						0	0	HR	1						
	35-55	hc1	10YR56 00 10YR56 00 C					Y	0	0	HR	1		M				
	55-75	c	10YR63 00 75YR58 61 M				00MN00 00	Y	0	0		0		P		Y		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	---STONES---			STRUCT/	SUBS						
				COL	ABUN	CONT	COL.	GEYL	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC
94	0-30	mc1	10YR42 00						0	0	HR	1						
	30-60	mc1	10YR62 00 75YR46 00 M				00MN00 00 Y		0	0		0		M				
	60-78	c	10YR63 62 75YR58 00 M					Y	0	0	HR	2		P			Y	
95	0-35	mc1	10YR42 00						6	0	HR	10			M			
	35-50	hc1	10YR63 00						0	0	HR	40						IMP 50, GRAVELLY
96	0-35	mc1	10YR32 00						0	0	HR	2			M			
	35-50	mc1	10YR32 00 75YR58 00 C					Y	0	0	HR	5						IMP 50, GRAVELLY
97	0-20	mc1	10YR41 00 75YR46 00 C					Y	0	0		0						
	20-35	hc1	10YR52 00 75YR58 00 C				10YR71 00 Y		0	0	HR	6		M				
	35-70	c	10YR62 00 75YR58 00 M					Y	0	0		0		P			Y	
98	0-35	mc1	10YR42 00						0	0	HR	1						
	35-55	hc1	10YR53 00 10YR56 00 C					Y	0	0	HR	1		M				
	55-80	c	10YR63 00 75YR58 61 M				00MN00 00 Y		0	0		0		P			Y	
99	0-25	mc1	10YR42 00						2	1	HR	2						
	25-45	hc1	10YR63 00 10YR66 00 C					Y	0	0	HR	1		M				
	45-60	c	10YR63 00 10YR66 62 C					Y	0	0		0		P			Y	
	60-65	c	10YR63 00 10YR66 62 C					Y	0	0	HR	10		P			Y	
100	0-30	mc1	10YR42 00						0	0		0						
	30-40	mc1	10YR63 00 10YR58 00 C					Y	0	0	HR	1		M				
	40-50	hc1	10YR63 00 10YR58 00 C					Y	0	0	HR	1		M				
	50-80	c	10YR63 00 10YR58 00 C					Y	0	0		0		P			Y	
	80-90	c	10YR63 00 10YR58 00 C					Y	0	0	HR	10		P			Y	
101	0-30	mc1	10YR43 00						2	1	HR	2						
	30-35	hc1	10YR54 00 10YQ58 00 F						0	0	HR	1		M				
	35-65	hc1	10YR53 00 75YR58 00 C					Y	0	0	HR	5		M			IMP 65, GRAVELLY	
102	0-25	mc1	10YR42 00						1	0	HR	1						
	25-35	hc1	10YR53 00 75YR58 00 C				10YR71 00 Y		0	0	HR	1		M				
	35-70	c	10YR62 00 75YR56 00 C					Y	0	0		0		P			Y	
103	0-25	mc1	10YR43 00						0	0		0						
	25-55	hc1	10YR71 72 75YR58 00 M					Y	0	0		0		P			Y	
	55-80	c	75YR71 72 75YR58 00 M					Y	0	0		0		P			Y	
104	0-30	mc1	10YR42 00						0	0	HR	1						
	30-35	hc1	10YR63 00 75YR58 00 C					Y	0	0		0		M				
	35-70	c	10YR62 00 75YR68 00 M					Y	0	0		0		P			Y	
105	0-28	mc1	10YR42 00						0	0	HR	1						
	28-42	hc1	10YR53 00 75YR58 00 C				10YR71 00 Y		0	0		0		M				
	42-70	c	10YR62 00 75YR58 00 C					Y	0	0		0		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	----STONES----			STRUCT/ SUBS							
				COL	ABUN	CONT		COL.	GEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL
106	0-30	mc1	10YR43 00							3	0	HR	7					
	30-40	hc1	10YR53 00	10YR58 00	C				Y	0	0	HR	5		M			
	40-60	sc1	10YR62 00	10YR58 00	C				Y	0	0	HR	5		M			
	60-70	sc1	10YR62 00	10YR58 00	C				Y	0	0	HR	30		M			IMP 70, GRAVELLY
107	0-30	mc1	10YR43 00							1	0	HR	1					
	30-75	hc1	10YR53 00	10YR58 71	C				Y	0	0	HR	1		M			
	75-85	c	10YR62 00	75YR58 00	C				Y	0	0	HR	2		M			
	85-100	sc1	10YR62 00	75YR56 00	C				Y	0	0	HR	5		M			
108	0-30	mc1	10YR43 00							0	0	HR	1					
	30-60	c	10YR62 00	75YR58 00	C		00MN00 00	Y	0	0			0		P		Y	
	60-75	c	75YR71 72	75YR58 00	M				Y	0	0		0		P		Y	
109	0-30	mc1	10YR43 00	10YR56 00	F					0	0		0					
	30-45	c	10YR62 72	75YR58 00	C		00MN00 00	Y	0	0			0		P		Y	
	45-70	c	10YR71 72	75YR58 00	M		00MN00 00	Y	0	0	HR	1		P		Y		
110	0-25	mc1	10YR42 00							0	0	HR	1					
	25-45	hc1	10YR63 00	75YR58 00	C		10YR71 00	Y	0	0			0		M			
	45-65	c	10YR62 00	75YR68 00	M				Y	0	0		0		P		Y	
	65-70	c	10YR62 00	75YR68 00	M				Y	0	0	HR	10		P		Y	
111	0-30	mc1	10YR42 00							0	0	HR	1					
	30-45	hc1	10YR63 00	75YR58 00	C		10YR71 00	Y	0	0			0		M			
	45-50	c	10YR62 00	75YR68 00	M				Y	0	0	HR	10		P			IMP 50, GRAVELLY
112	0-25	hc1	10YR43 00							0	0	HR	1					
	25-50	c	10YR62 00	75YR46 00	M		00MN00 00	Y	0	0			0		P		Y	
	50-60	c	10YR61 00	75YR56 00	M				Y	0	0	HR	10		P		Y	IMP 60, GRAVELLY
113	0-30	mc1	10YR43 00							0	0		0					
	30-40	c	10YR62 72	75YR58 00	C		00MN00 00	Y	0	0			0		P		Y	
	40-60	c	75YR71 72	75YR58 00	M				Y	0	0		0		P		Y	
114	0-30	mc1	10YR42 00							0	0	HR	1					
	30-70	c	10YR53 00	75YR58 00	M		10YR71 00	Y	0	0			0		P		Y	
115	0-30	mc1	10YR42 00							2	0	HR	2					
	30-45	mc1	10YR63 00	75YR58 00	C		10YR71 00	Y	0	0			0		M			
	45-55	hc1	10YR63 00	75YR58 00	C		10YR71 00	Y	0	0			0		M			
	55-80	c	10YR62 00	75YR68 00	M				Y	0	0		0		P		Y	
116	0-30	mc1	10YR42 00							4	0	HR	12					
	30-40	mc1	10YR63 00	75YR58 00	C				Y	0	0	HR	10		M			IMP 40, GRAVELLY
117	0-30	mc1	10YR43 00							2	0	HR	3					
	30-40	hc1	10YR63 00	10YR58 00	C				Y	0	0	HR	2		M			
	40-55	sc1	10YR62 00	75YR58 00	C				Y	0	0	HR	2		M			
	55-65	c	10YR62 00	75YR58 00	C				Y	0	0	HR	8		P			IMP 65, GRAVELLY

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	----STONES----			STRUCT/		SUBS				
				COL	ABUN	CONT		GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL
118	0-30	mc1	10YR42 00	10YR68 00	F				0	0	HR	1					
	30-55	c	10YR63 00	10YR56 00	C			Y	0	0	HR	1	P			Y	
	55-70	c	75YR71 72	75YR58 00	M			Y	0	0		0	P			Y	
119	0-30	hc1	10YR42 00						3	0	HR	7					
	30-70	c	10YR52 00	75YR58 00	M			Y	0	0		0	P			Y	
120	0-30	mc1	10YR43 00						1	0	HR	3					
	30-45	hc1	10YR53 00	75YR58 00	C			Y	0	0		0	M				
	45-70	c	10YR62 00	75YR58 00	M			Y	0	0		0	P			Y	
121	0-35	mc1	10YR43 00						3	0	HR	10					
	35-50	hc1	10YR42 00	75YR58 00	C			Y	0	0	HR	10	M				IMP 50, GRAVELLY
122	0-30	mc1	10YR42 00						0	0	HR	1					
	30-50	hc1	10YR52 00	75YR58 00	C	10YR71 00	Y	0	0		0		M				
	50-75	c	10YR71 00	75YR58 00	M			Y	0	0		0	P			Y	
123	0-30	hc1	10YR42 00						0	0	HR	2					
	30-75	c	10YR62 00	75YR58 00	C	10YR71 00	Y	0	0		0		P			Y	
	75-76	c	10YR62 00	75YR58 00	C			Y	0	0		0	P			Y	
124	0-25	mc1	10YR43 00						1	0	HR	5					
	25-40	mc1	10YR53 00	10YR58 00	C			Y	0	0		0	M				
	40-60	sc1	10YR52 00	75YR58 00	M			Y	0	0		0	M				
	60-70	sc1	10YR52 00	75YR58 00	C			Y	0	0	HR	10	M				IMP 70, GRAVELLY
125	0-30	mc1	10YR42 00						0	0	HR	2					
	30-35	hc1	10YR53 00	75YR58 00	C			Y	0	0		0	M				
	35-70	c	10YR52 00	75YR58 00	M			Y	0	0		0	P			Y	
126	0-30	mc1	10YR42 00						0	0	HR	2					
	30-70	c	10YR62 00	75YR58 00	C	10YR71 00	Y	0	0		0		P			Y	
127	0-30	mc1	10YR42 00						2	0	HR	5					
	30-50	sc1	10YR53 00	10YR58 00	C			Y	0	0	HR	2	M				
	50-55	sc1	10YR62 00	75YR58 00	C			Y	0	0	HR	2	M				
	55-90	sc	10YR52 00	75YR58 00	M			Y	0	0	HR	7	P			Y	IMP 90, GRAVELLY
128	0-30	sc1	10YR42 00						2	0	HR	5					
	30-40	sc1	10YR53 00	75YR58 00	C	10YR61 00	Y	0	0	HR	20		M				IMP 40, GRAVELLY
129	0-30	mc1	10YR43 00						0	0	HR	2					
	30-65	c	10YR52 00	75YR56 00	C	10YR71 00	Y	0	0		0		P			Y	
	65-70	c	10YR52 00	75YR56 00	C	10YR71 00	Y	0	0	HR	20		P			Y	IMP 70, GRAVELLY
130	0-30	mc1	10YR42 00						2	0	HR	5					
	30-55	hc1	10YR62 00	75YR58 00	C			Y	0	0	HR	7	M				
	55-80	c	10YR41 00	75YR58 00	M			Y	0	0		0	P			Y	

SOIL PIT DESCRIPTION

Site Name : TEWBURY LP SITE 10 Pit Number : 1P

Grid Reference: SU68906568 Average Annual Rainfall : 0 mm
Accumulated Temperature : 0 degree days
Field Capacity Level : 0 days
Land Use : Permanent Grass
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MCL	10YR42 00	0	10	HR					
25- 47	MCL	10YR53 00	0	50	HR					M
47- 78	GH	10YR53 00	0	0						P
78- 85	C	25Y 53 00	0	60	HR	C				P

Wetness Grade : 1 Wetness Class : I
Gleying : 078 cm
SPL : No SPL

Drought Grade : 3B APW : 65 mm MBW : -47 mm
APP : 64 mm MBP : -42 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : NEWBURY LP SITE 10 Pit Number : 2P

Grid Reference: SU69506580 Average Annual Rainfall : 0 mm
Accumulated Temperature : 0 degree days
Field Capacity Level : 0 days
Land Use : Permanent Grass
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 26	HCL	10YR42 00	0	1	HR					
26- 35	C	25Y 53 00	0	0		M	MDCSAB	FM	M	
35- 60	C	25Y 53 63	0	0		M	STCAB	FM	P	

Wetness Grade : 3B Wetness Class : IV
Gleying : 026 cm
SPL : 035 cm

Drought Grade : 3B APW : 87 mm MBW : -25 mm
APP : 93 mm MBP : -13 mm

FINAL ALC GRADE : 3B
MAIN LIMITATION : Wetness

SAMPLE NO.	GRID REF	ASPECT USE	GRDNT	GLEY	SPL	CLASS	GRADE	--WETNESS--	-WHEAT-	-POTS-	M. REL	EROSN	FROST	CHEM	ALC LIMIT	COMMENTS	
								AP	MB	AP	MB	DRT	FLOOD	EXP	DIST		
1	SU69106630	STB	025	035	4	3B	85	-27	91	-15	3B			WE	3B		
1P	SU68906568	PGR	078		1	1	65	-47	64	-42	3B			DR	3B	PIT85	
2	SU69006620	PGR	030	045	3	3B	95	-17	104	-2	3A			WE	3B		
2P	SU69506580	PGR	026	035	4	3B	87	-25	93	-13	3B			WE	3B		
3	SU69106620	STB	030	030	4	3B	83	-29	89	-17	3B			WE	3B		
4	SU69206620	STB	028	028	4	3B	84	-28	90	-16	3B			WE	3B		
5	SU69306620	STB	025	030	4	3B	84	-28	90	-16	3B			WE	3B		
6	SU69006610	PGR	030	040	3	3A	90	-22	96	-10	3B			WE	3A		
7	SU69106610	PGR	030	040	3	3B	90	-22	96	-10	3B			WE	3B		
9	SU69206610	STB	025	040	3	3B	89	-23	95	-11	3B			WE	3B		
10	SU69306610	STB	025	030	4	3B	86	-26	92	-14	3B			WE	3B		
11	SU68906600	PGR	035	035	4	3B	85	-27	90	-16	3B			WE	3B		
12	SU69006600	PGR	030	030	4	3B	84	-28	87	-19	3B			WE	3B		
13	SU69106600	CER	026	036	4	3B	86	-26	92	-14	3B			WE	3B		
14	SU69806600	CER	025	045	3	3B	89	-23	95	-11	3B			WE	3B		
15	SU69306600	STB	022	038	4	3B	88	-24	94	-12	3B			WE	3B		
16	SU69406600	STB	025	025	4	3B	85	-27	91	-15	3B			WE	3B		
17	SU69506600	CER	022	040	3	3B	88	-24	94	-12	3B			WE	3B		
18	SU69606600	CER	025	025	4	3B	79	-33	82	-24	3B			WE	3B		
19	SU68906590	PGR	030	040	3	3B	90	-22	96	-10	3B			WE	3B		
20	SU69006590	CER	030	030	4	3B	86	-26	92	-14	3B			WE	3B		
21	SU69206590	CER	027	035	4	3B	87	-25	93	-13	3B			WE	3B		
22	SU69206590	CER	028	035	4	3B	87	-25	93	-13	3B			WE	3B		
23	SU69306590	CER	029	029	4	3B	86	-26	92	-14	3B			WE	3B		
24	SU69406590	STB	026	055	3	3A	99	-13	111	5	3A			WE	3A		
25	SU69506590	CER	028	035	4	3B	86	-26	92	-14	3B			WE	3B		
26	SU69606590	CER	030	035	4	3B	86	-26	92	-14	3B			WE	3B		
27	SU68806580	PGR	050	050	2	2	81	-31	85	-21	3B			DR	3B	IMPEN 60	
28	SU68906580	PGR	026	2	2	95	-17	102	-4	3A			DR	3A	IMPEN 65		
29	SU69006580	PGR	030	2	2	95	-17	101	-5	3A			DR	3A	IMPEN 60		
30	SU69106580	PGR	032	032	4	3B	84	-28	87	-19	3B			WE	3B		
31	SU69206580	PLO	028	045	3	3B	91	-21	97	-9	3B			WE	3B		
32	SU69306580	CER	028	040	3	3B	89	-23	94	-12	3B			WE	3B		
33	SU69406580	CER	025	025	4	3B	83	-29	88	-18	3B			WE	3B		
34	SU69506580	PGR	028	040	3	3B	90	-22	96	-10	3B			WE	3B		
35	SU69606580	CER	045	045	3	3B	93	-19	102	-4	3A			WE	3B		
36	SU68806570	PGR	0	2	3A	78	-34	78	-28	3B			DR	3B	IMP50 SEE 1P		
37	SU68906570	PGR		1	1	64	-48	64	-42	3B			DR	3B	IMP40 SEE 1P		
38	SU69006570	PGR		1	1	63	-49	63	-43	3B			DR	3B	IMP38 SEE 1P		
39	SU69106570	PGR	0	048	3	3A	132	20	109	3	2			WE	3A		
40	SU69206570	CER	035	045	3	3B	97	-15	109	3	3A			WE	3B		
41	SU69306570	CER	E	02	025	4	3B	82	-30	88	-18	3B			WE	3B	

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--				-WHEAT-		-POTS-		M.REL	EROSN	FROST	CHEM	ALC	COMMENTS
			GRDN	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EXP	DIST	
42	SU69406570	CER E	02	027	027	4	3B	84	-28	90	-16	3B			WE	3B
43	SU69506570	PGR		030	070	2	2	133	21	112	6	2			WD	2
44	SU68906560	PGR		030	055	3	3A	90	-22	102	-4	3B			WE	3A
45	SU69006560	PGR				1	1	71	-41	73	-33	3B			DR	3B
46	SU69106560	CER S	02	025	025	4	3B	86	-26	95	-11	3B			WE	3B
47	SU69206560	CER SE	02	035	035	4	3B	87	-25	96	-10	3B			WE	3B
48	SU69306560	CER E	01	025	035	4	3B	85	-27	91	-15	3B			WE	3B
49	SU69406560	PGR E	01	025	055	3	3A	107	-5	109	3	3A			WE	3A
50	SU69506580	PGR		030	030	4	3B	93	-19	105	-1	3A			WE	3B
51	SU69206550	CER SE	01	030	030	4	3B	86	-26	92	-14	3B			WE	3B
52	SU69306550	PGR SE	01	025	048	3	3A	98	-14	110	4	3A			WE	3A
53	SU69406550	PGR		035	035	4	3B	87	-25	93	-13	3B			WE	3B
54	SU69506550	PGR N	01	0	070	2	2	115	3	114	8	3A			DR	3A
55	SU69406640	PGR		025		2	2	96	-16	106	0	3A			DR	3A
56	SU69506640	PGR N	01	025	040	3	3A	93	-19	105	-1	3A			WE	3A
57	SU69506630	PGR N	01	0	025	4	3B	80	-32	86	-20	3B			WE	3B
58	SU69026564	PGR		038	038	4	3B	87	-25	93	-13	3B			WE	3B

SAMPLE	DEPTH	TEXTURE	COLOUR	---MOTTLES---			PED	---STONES---			STRUCT/	SUBS					
				COL	ABUN	CONT	COL.	GEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL
1	0-25	hc1	10YR42 00					0	0	HR	5						
	25-35	hc1	10YR53 00	10YR58	61	C		Y	0	0	0			M			
	35-60	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
1P	0-25	mc1	10YR42 00					0	0	HR	10						
	25-47	mc1	10YR53 00					0	0	HR	50			M			
	47-78	gh	10YR53 00					0	0		0			P			
	78-85	c	25Y 53 00	75YR56	00	C	00MN00	00	Y	0	0	HR	60		P		
2	0-30	hc1	10YR42 00					0	0		0						
	30-45	hc1	10YR63 00	10YR58	61	C		Y	0	0	0			M			
	45-65	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
2P	0-26	hc1	10YR42 00					0	0	HR	1						
	26-35	c	25Y 53 00	75YR58	00	M		Y	0	0	0	MDCSAB	FM	M			
	35-60	c	25Y 53 63	75YR58	00	M		Y	0	0	0	STCAB	FM	P	Y		Y
3	0-30	hc1	10YR42 00					0	0	HR	5						
	30-60	c	10YR52 00	10YR58	61	M		Y	0	0	HR	5		P	Y		Y
4	0-28	hc1	10YR42 00					0	0	HR	5						
	28-60	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
5	0-25	hc1	10YR42 00					0	0	HR	5						
	25-30	hc1	10YR51 00	10YR58	00	C		Y	0	0	0			M			
	30-60	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
6	0-30	mc1	10YR42 00					0	0		0						
	30-40	hc1	10YR53 00	10YR58	61	C		Y	0	0	0			M			
	40-60	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
7	0-30	hc1	10YR42 00					0	0		0						
	30-40	hc1	10YR53 00	10YR58	00	C		Y	0	0	0			M			
	40-60	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
9	0-25	hc1	10YR42 00					0	0		0						
	25-40	hc1	10YR53 00	10YR58	61	C		Y	0	0	0			M			
	40-60	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
10	0-25	hc1	10YR42 00					0	0		0						
	25-30	hc1	10YR53 00	10YR58	61	M		Y	0	0	0			M			
	30-60	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y
11	0-24	hc1	10YR42 00					0	0		0						
	24-35	hc1	10YR53 00					0	0		0			M			
	35-60	c	10YR52 00	10YR58	61	M		Y	0	0	HR	10		P	Y		Y
12	0-30	hc1	10YR42 00					0	0		0						
	30-55	c	10YR52 00	10YR58	61	M		Y	0	0	0			P	Y		Y

SAMPLE	DEPTH	TEXTURE	COLOUR	---MOTTLES---			PED	---STONES---			STRUCT/	SUBS						
				COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC
13	0-26	hc1	10YR42 00						0	0	HR	2						
	26-36	hc1	10YR53 00	10YR58	61	C		Y	0	0		0		M				
	36-60	c	10YR52 00					Y	0	0	HR	5		P	Y		Y	
14	0-25	hc1	10YR42 00						0	0	HR	2						
	25-45	hc1	10YR53 00	10YR58	00	C		Y	0	0		0		M				
	45-60	c	10YR52 00	10YR58	61	M		Y	0	0	HR	5		P	Y		Y	
15	0-22	hc1	10YR43 00						0	0		0						
	22-38	hc1	10YR52 00	10YR58	00	C		Y	0	0		0		M				
	38-60	c	10YR52 00	10YR58	61	M		Y	0	0		0		P	Y		Y	
16	0-25	hc1	10YR42 00						0	0		0						
	25-60	c	10YR52 00	10YR58	61	M		Y	0	0		0		P	Y		Y	
17	0-22	hc1	10YR42 00						0	0	HR	2						
	22-40	hc1	75YR52 00	10YR58	61	M		Y	0	0		0		M				
	40-60	c	10YR53 00	10YR58	61	M		Y	0	0		0		P	Y		Y	
18	0-25	hc1	10YR42 00						0	0	HR	2						
	25-55	c	10YR52 00	10YR58	61	C		Y	0	0	HR	2		P	Y		Y	
19	0-30	hc1	10YR42 00						0	0		0						
	30-40	hc1	10YR53 00	10YR58	61	M		Y	0	0		0		M				
	40-60	c	10YR52 00	10YR58	61	M		Y	0	0		0		P	Y		Y	
20	0-30	hc1	10YR42 00	10YR56	00	F			0	0	HR	1						
	30-60	c	25Y 53 00	75YR58	00	M		Y	0	0		0		P			Y	
21	0-27	hc1	10YR42 00						0	0	HR	2						
	27-30	c	10YR42 00	10YR56	00	C		Y	0	0		0		M				
	30-35	c	10YR53 00	75YR56	00	C.		Y	0	0		0		M				
	35-60	c	25Y 53 00	75YR58	00	M		Y	0	0		0		P			Y	
22	0-28	mcl	10YR42 00						0	0	HR	2						
	28-35	c	10YR53 00	10YR56	00	C		Y	0	0		0		M				
	35-60	c	25Y 53 00	75YR58	00	M		Y	0	0		0		P			Y	
23	0-29	hc1	10YR42 00						0	0	HR	2						
	29-60	c	25Y 53 00	75YR58	00	M		Y	0	0		0		P			Y	
24	0-26	mcl	10YR42 00						0	0	HR	2						
	26-55	hc1	10YR53 00	10YR56	00	C		Y	0	0	HR	2		M				
	55-70	c	25Y 53 00	75YR56	58	M		Y	0	0	HR	2		P			Y	
25	0-28	mcl	10YR42 00						0	0	HR	2						
	28-35	hc1	25Y 63 00	10YR56	00	C		Y	0	0	HR	2		M				
	35-60	c	25Y 62 00	75YR58	00	M		Y	0	0	HR	2		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED COL.	----STONES----			STRUCT/ LITH TOT CONSIST	SUBS		
				COL	ABUN	CONT		GLEY	>2	>6		STR POR	IMP SPL	CALC
26	0-30	mc1	10YR42 00						0	0	HR	3		
	30-35	hc1	10YR53 00	10YR56 00	C			Y	0	0	HR	2	M	
	35-60	c	25Y 62 00	75YR58 00	M			Y	0	0	HR	2	P	Y
27	0-28	mc1	10YR42 00						0	0	HR	2		
	28-50	c	10YR52 00						0	0	HR	10	P	
	50-60	c	10YR52 00	10YR58 61	M			Y	0	0	HR	25	P	Y
28	0-26	mc1	10YR42 00						0	0	HR	2		
	26-45	mc1	10YR52 00	10YR58 61	C			Y	0	0	HR	5	M	
	45-65	mc1	10YR52 00	10YR58 61	C			Y	0	0	HR	15	M	
29	0-30	mc1	10YR42 00						0	0		0		
	30-45	mc1	10YR52 00	10YR58 61	C			Y	0	0	HR	5	M	
	45-60	hc1	75YR52 00	10YR58 00	M			Y	0	0		0	M	
30	0-32	hc1	10YR42 00						0	0		0		
	32-55	c	10YR53 00	10YR58 61	M			Y	0	0	HR	2	P	Y
31	0-28	hc1	10YR42 00						0	0		0		
	28-45	hc1	10YR53 00	10YR58 61	C			Y	0	0		0	M	
	45-60	c	10YR52 00	10YR58 61	M			Y	0	0		0	P	Y
32	0-28	hc1	10YR42 00						0	0		0		
	28-40	hc1	10YR43 00	10YR58 61	C			Y	0	0		0	M	
	40-60	c	10YR52 00	10YR58 61	M			Y	0	0	HR	5	P	Y
33	0-25	hc1	10YR42 00						0	0		0		
	25-60	c	10YR52 00	10YR58 61	C			Y	0	0	HR	5	P	Y
34	0-28	hc1	10YR42 00						0	0		0		
	28-40	hc1	10YR43 00	10YR58 00	C			Y	0	0		0	M	
	40-60	c	10YR52 00	10YR58 61	M			Y	0	0		0	P	Y
35	0-27	hc1	10YR42 00						0	0	HR	2		
	27-45	hc1	75YR43 00						0	0		0	M	
	45-65	c	10YR52 00	10YR58 61	M			Y	0	0	HR	2	P	Y
36	0-27	hc1	25Y 53 00	75YR56 00	C			Y	0	0	HR	5		
	27-40	hc1	10YR53 00	75YR56 00	C			Y	0	0	HR	5	M	
	40-50	hc1	25Y 53 00	10YR56 00	C			Y	0	0	HR	25	M	
37	0-28	mc1	10YR42 00						0	0	HR	5		
	28-40	hc1	10YR53 00						0	0	HR	20	M	
38	0-32	mc1	10YR42 00						0	0	HR	5		
	32-38	hc1	10YR53 00						0	0	HR	20	M	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED COL.	---STONES---			STRUCT/ TOT CONSIST	SUBS			
				COL.	ABUN	CONT		GEY	>2	>6	LITH	STR	POR	IMP	SPL
39	0-28	mc1	10YR42 00	10YR56 00	C			Y	0	0	HR	3			
	28-36	hc1	10YR53 00	10YR56-00	C			Y	0	0	HR	3	M		
	36-48	hc1	10YR53 00	10YR56 00	C			Y	0	0	HR	1	M		
	48-120	c	25Y 61 62	75YR58 00	M			Y	0	0		0	P		Y
40	0-35	hc1	10YR42 00						0	0	HR	3			
	35-45	hc1	10YR53 00	10YR56 00	C			Y	0	0	HR	2	M		
	45-70	c	25Y 62 00	75YR56 58	M	00MN00 00	Y	0	0	HR	2	P		Y	
41	0-25	hc1	10YR42 00						0	0	HR	3			
	25-60	c	25Y 62 00	75YR58 00	M			Y	0	0	HR	2	P		Y
42	0-27	hc1	10YR53 00	10YR56 00	F				0	0	HR	3			
	27-60	c	25Y 62 00	75YR58 00	M			Y	0	0		0	P		Y
43	0-30	mc1	10YR42 00	10YR56 00	F				0	0	HR	5			
	30-70	hc1	25Y 62 63	75YR56 00	C			Y	0	0	HR	5	M		
	70-120	c	25Y 62 63	75YR56 58	M			Y	0	0	HR	8	P		Y
44	0-30	mc1	10YR42 00	10YR56 00	F				0	0	HR	10			
	30-45	mc1	10YR53 00	10YR58 00	C			Y	0	0	HR	10	M		
	45-55	c	10YR53 00	10YR56 00	C			Y	0	0	HR	20	M		
	55-70	c	10YR52 00	10YR58 00	M			Y	0	0	HR	5	P	Y	Y
45	0-25	mc1	10YR43 00						0	0	HR	10			
	25-55	mc1	10YR43 00						0	0	HR	35	M		
46	0-25	mc1	10YR43 00						0	0	HR	5			
	25-65	c	10YR53 00	10YR58 51	M			Y	0	0		0	P	Y	Y
47	0-35	mc1	10YR43 00						0	0	HR	10			
	35-65	c	10YR52 00	10YR58 00	M			Y	0	0		0	P	Y	Y
48	0-25	mc1	10YR43 00						0	0	HR	5			
	25-35	hc1	10YR53 00	10YR56 00	C			Y	0	0		0	M		
	35-60	c	10YR52 00	10YR58 00	M			Y	0	0		0	P	Y	Y
49	0-25	mc1	10YR43 00						0	0	HR	5			
	25-55	mc1	10YR53 52	10YR56 00	C			Y	0	0	HR	2	M	Y	
	55-80	sc1	10YR52 00	10YR58 00	M			Y	0	0	HR	1	P	Y	Y
50	0-30	hc1	10YR42 00						0	0	HR	2			
	30-50	c	10YR42 00	10YR58 52	C			Y	0	0	HR	2	P	Y	Y
	50-70	c	10YR52 00	10YR58 00	M	00MN00 00	Y	0	0		0	P	Y	Y	
51	0-30	mc1	10YR43 00						0	0	HR	2			
	30-60	c	10YR53 00	10YR58 52	M			Y	0	0		0	P	Y	Y

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED	---STONES----			STRUCT/	SUBS				
				COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP
52	0-25	mcl	10YR43 00					0	0	0						
	25-48	hc1	10YR53 00	10YR56 00	C			Y	0	0	HR	2		M		
	48-70	c	10YR52 00	10YR58 00	M			Y	0	0		0		P	Y	Y
53	0-25	hc1	10YR42 00	10YR56 00	F				0	0		0				
	25-35	hc1	10YR54 00						0	0		0		M		
	35-60	c	10YR53 00	10YR58 52	M	00MN00 00	Y	0	0	HR	2		P	Y	Y	
54	0-30	mcl	10YR42 41	10YR58 00	M			Y	0	0	HR	5				
	30-70	mcl	10YR53 00	10YR56 52	C			Y	0	0	HR	2		M		
	70-90	c	10YR52 00	10YR58 00	M			Y	0	0	HR	10		P	Y	Y
55	0-25	mcl	10YR43 00					0	0	HR	5					
	25-50	mcl	10YR53 00	10YR56 00	C			Y	0	0	HR	5		M		
	50-70	mcl	10YR53 00	10YR56-00	C			Y	0	0	HR	25		M		
56	0-25	mcl	10YR43 00					0	0	HR	2					
	25-40	hc1	10YR56 00	10YR56 00	C			Y	0	0	HR	2		M		
	40-55	hc1	10YR53 00	10YR58 52	C			Y	0	0	HR	2		P	Y	Y
	55-70	c	10YR52 00	10YR58 00	M			Y	0	0		0		P	Y	Y
57	0-25	mcl	10YR42 00	10YR58 00	C			Y	0	0	HR	4				
	25-40	hc1	10YR53 00	10YR56 00	M			Y	0	0	HR	4		P	Y	Y
	40-60	c	10YR53 00	10YR58 00	M			Y	0	0	HR	2		P	Y	Y
58	0-30	mcl	10YR42 00					0	0	HR	2					
	30-38	hc1	10YR53 00	10YR56 00	F				0	0		0		M		
	38-60	c	25Y 53 00	75YR58 00	C			Y	0	0	HR	5		P		Y