

Canterbury District Local Plan
Land South-East of
Canterbury, Kent
Agricultural Land Classification
ALC Map and Report
April 1993

AGRICULTURAL LAND CLASSIFICATION

CANTERBURY LOCAL PLAN

LAND SOUTH-EAST OF CANTERBURY

1. Introduction

1.1 In February and March 1993, an Agricultural Land Classification, (ALC) survey was carried out on approximately 275 hectares of land to the immediate south-east of Canterbury in Kent. ADAS was commissioned by MAFF to determine the quality of land identified for possible inclusion in the Canterbury District Draft Local Plan.

1.2 The survey was undertaken at a detailed level of approximately one boring per hectare. A total of 254 borings and ten soil inspection pits were described in accordance with MAFF's 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 its agricultural use.

At the time of survey the land was in a variety of uses including intensive horticultural cropping (hop gardens and top fruit orchards), arable cropping (winter cereals and oilseed rape), fallow and small areas of permanent pasture.

1.3 The distribution of grades and subgrades is shown on the attached ALC map and the areas and extent are given in the table below. The map has been drawn at a scale of 1:10,000. It is accurate at this scale, but any enlargement may be misleading.

Distribution of Grades and Subgrades

	<u>Area (ha)</u>	<u>% total agricultural area</u>
Grade 1	62.2	24.3
2	130.8	51.1
3a	30.4	11.9
3b	32.5	12.7
Total agricultural area	<u>255.9</u>	<u>100</u>
Woodland	7.6	
Urban	6.4	
Non-agricultural	3.7	
Farm Buildings	<u>1.0</u>	
Total area of site	<u>274.6</u> ha	

1.4 Appendix 1 gives a general description of the grades and land use categories identified in this survey.

1.5 Overall, land quality across the site is very good to excellent with much of the site having been graded 1 and 2. Land assigned to these grades has very minor or no limitations to agricultural use, the soils generally being deep, well drained clay loams or silty clay loams some of which have a slight wetness and/or droughtiness limitation. The

remainder of the site has been assigned to subgrades 3a or 3b where soils with more serious wetness and/or drought risk problems impose more of a limitation on the agricultural use of the land. Locally, steep slopes or high topsoil stone contents may also act to limit the land quality.

2. PHYSICAL FACTORS AFFECTING LAND QUALITY

Relief

- 2.1 The site ranges in altitude from a minimum of 30 m AOD to a maximum of about 60 m AOD. The lowest land occurs towards the north-west rising very gradually towards the south and east, the land generally being gently undulating. In the south-eastern part of the site, small areas of land either side of New Dover Road are more steeply sloping and as a result act as a limitation to land quality. Elsewhere, gradient is not limiting in terms of agricultural land quality.

Climate

- 2.2 Estimates of climatic variables relevant to the assessment of agricultural land quality were obtained by interpolation from a 5 km grid point dataset, (Met. Office, 1989) for representative locations in the survey area.

Climatic Interpolation

Grid Reference	TR177568	TR173574	TR157554
Altitude (m, AOD)	30	45	60
Accumulated Temperature (° days, Jan-June)	1463	1445	1430
Average Annual Rainfall (mm)	680	679	713
Field Capacity Days	141	140	148
Moisture deficit, wheat (mm)	119	117	113
Moisture deficit, potatoes (mm)	115	113	107

- 2.3 Climate is considered first when classifying land since climatic factors can be overriding in the sense that adverse climatic conditions may cause downgrading irrespective of favourable site and soil conditions. In this instance, there is no overall climatic limitation affecting land quality.
- 2.4 However, climatic factors, specifically field capacity days and crop adjusted moisture deficits do interact with soil factors to affect soil wetness and droughtiness limitations. In this locality field capacity days are moderately low and moisture deficits correspondingly high, in a national context. As a consequence, soil droughtiness may be a problem whilst soil wetness limitations are less likely to be significant.

Geology and Soils

- 2.5 British Geological Survey (1982) Sheet 289, Canterbury shows a progression of geological deposits, passing from relatively young Pleistocene and Palaeocene deposits in the north to older Cretaceous rocks towards the south of the site. Much of the northern and western

parts of the site are underlain by Thanet Beds with overlying drift deposits of Head Brickearth and less extensively, River Terrace Gravels, extending south-eastwards. Cretaceous deposits of Upper Chalk outcrop towards the far south-eastern boundaries. The Chalk is overlain by Clay - with - flints north of Milestone.

- 2.6 Soil Survey of England and Wales (1983) Sheet 6, Soils of South-East England shows the site to comprise a number of soil associations. Most extensive is the Hamble 1 Association, these being described as 'well drained, silty soils' (SSEW, 1984). Less extensive are the Hamble 2, 'deep, stoneless silty soils' and Sonning 1, 'stony, coarse textured and well drained soils' Associations, (SSEW, 1984). These are associated with the gravelly deposits on the site. Small areas of the Coombe 1 and Andover 1 Associations are related to the Upper Chalk deposits towards the south and south-east of the site. These soils are described as 'fine silty typical brown calcareous earths' and 'variably flinty and chalky silty brown rendzinas over chalk', (SSEW, 1984), respectively.
- 2.7 Detailed field examination of the soils on the site broadly confirms the presence of soil types similar to those described by the Soil Survey.

3. AGRICULTURAL LAND CLASSIFICATION

- 3.1 The majority of the land surveyed has been classified as being Grades 1, 2 or Subgrade 3a, ('best and most versatile' agricultural land). Smaller areas of Subgrade 3b have been mapped. A number of factors are acting to limit land quality across those parts of the site not assigned to Grade 1. Soil wetness and/or droughtiness are the most widespread of limitations, whilst gradient and topsoil stone content act as localised limitations across parts of the site.

Grade 1

- 3.2 A considerable proportion of the southern section of the survey area has been assigned to Grade 1, excellent quality land with no or very minor limitations to its agricultural use.
- 3.2.1 Profiles typically comprise medium silty clay loam or very occasionally silt loam topsoils which may be calcareous but are more usually non-calcareous. These overlie medium or heavy silty clay loam subsoils which occasionally pass to silty clay at depth. Profiles are generally deep and free of stones but may sometimes contain 1-3% total flints by volume.
- 3.2.2 These soils are well drained, Wetness Class I, there being no evidence of impeded drainage or high ground water levels. They also have good reserves of available water for crop growth, profiles being moderately well structured and of medium silty textures.
- 3.2.3 This land is capable of supporting a very wide range of crops, including the most demanding horticultural crops, and consistently high yields would be expected under a good standard of management.

Grade 2

- 3.3 Very good quality land assigned to this grade accounts for the majority of the area surveyed. It represents land which has minor limitations to its agricultural use but is nevertheless capable of growing a wide range of agricultural and horticultural crops. The land may be slightly less flexible than Grade 1 and yields, although high, may be slightly lower and more variable than on land as described in paragraph 3.2 above.
- 3.3.1 Land mapped as Grade 2 is slightly limited by one or more of the interactive limitations of soil wetness, workability or droughtiness.
- 3.3.2 Soil wetness may be limiting where drainage is impeded by slowly permeable subsoil horizons or the ground watertable rises into the profile causing waterlogging. Such conditions are evidenced by mottling and gleying in the subsoil and/or identification of poorly structured clay horizons which are slowly permeable. Given the prevailing climate at this locality, notably a field capacity range of 140 - 148 days, land is assigned to Grade 2 on the basis of soil wetness in the following circumstances.
- where gleying is evident within 40 cm and the subsoil is slowly permeable below about 65-68 cm depth or slowly permeable horizons are absent, thus equating to Wetness Class II.
 - where gleying occurs below 40 cm and slow permeability is evident from 48-52 cm, again resulting in a Wetness Class of II being assigned.
- 3.3.3 Occasionally, a slight soil workability limitation may be acting where well drained soils, (ie, Wetness Class I) have heavy topsoil textures which interact with climatic factors to result in slightly reduced flexibility of the land. Opportunities for landwork and grazing by livestock may be slightly restricted.
- 3.3.4 A slight soil droughtiness limitation may exist for a number of reasons:
- Across the northern section of the area surveyed profiles contain horizons with sandy textures, such as sandy clay loam, sandy loam and loamy sand. These freely draining soils have slightly reduced reserves of available water for crop growth and there may therefore be a slight risk of drought stress.
 - Many of the profiles within Grade 2 mapping units, are very similar to those described in paragraph 3.2.1 above. The differences giving rise to the slight downgrading of land on the basis of soil droughtiness include, slightly heavier and more poorly structured profiles, soils which are less silty, (ie, clay loam textures are more typical), and profiles which are slightly more stony. All these characteristics result in slightly reduced profile available water capacities such that Grade 2 is appropriate.
- 3.3.5 To summarise, land graded 2 is subject to slight soil wetness, workability or droughtiness limitations acting singly or in combination.

Subgrade 3a

- 3.4 Subgrade 3a, good quality land, represents almost 12% of the agricultural land surveyed. The principal limitations acting to restrict the use of this land are soil wetness and droughtiness.
- 3.4.1 Profiles are similar to those described previously. Clay loam or silty clay loam topsoils overlie similarly textured subsoils which tend to become heavier with depth, passing to clay or silty clay at variable depths. Occasional profiles may contain sandier horizons, whilst a number rest over chalk deposits at moderate depth. There are a number of variants of those described giving rise to a variety of circumstances and reasons for the allocation to Subgrade 3a.
- 3.4.2 Much of the land graded Subgrade 3a is thus assigned on the basis of soil wetness, where soil drainage status is characteristic of Wetness Class III. If gleying is evident above 40 cm then typically subsoils which are slowly permeable from about 38-41 cm and within 65-68 cm would result in a soil Wetness Class of III. The combination of gleying below 40 and slow permeability within 48-52 cm, also gives rise to Wetness Class III. Profiles with these drainage characteristics limit the land quality in the sense that plant growth, ie, germination and root development, may be adversely affected. In addition, cultivations and grazing by livestock may be restricted.
- 3.4.3 Soil droughtiness is the main limiting factor in one of two situations.
- Where clay loam or silty clay loam profiles overlie chalk deposits at depths between 45 and 55 cm. Soil water availability is restricted by the shallow soil depth over chalk. As a result there is a moderate risk of soil droughtiness.
 - Where subsoil horizons are moderately to extremely stony having between 25 and 65% total flints by volume. This also has the effect of creating drought stress due to inadequate reserves of available water for healthy crop growth.

Subgrade 3b

- 3.5 Land is assigned to Subgrade 3b, moderate quality agricultural land, for a number of reasons, most significantly due to soil wetness and droughtiness limitations, but also as a result of relatively steep gradients or high topsoil stone contents across small parts of the site.
- 3.5.1 Soil wetness is the main limitation where gleying and slowly permeable horizons occur high in the soil profile. Drainage of the profile is severely impeded such that Wetness Class IV is appropriate. This soil water regime combines with climatic factors to result in a Subgrade of 3b.
- 3.5.2 Soil droughtiness may be severely limiting where profiles are similar to those described in paragraph 3.4.3 above, but are shallower over chalk or are more stony. Thus, available water capacity is more restricted than for land mapped as Subgrade 3a and soil droughtiness may be a serious problem.

- 3.5.3 Small units of Subgrade 3b, notably south of The Hoath Farm and east of Appledown Way are limited by high topsoil stone contents in the range 15-25% flints >2 cm, by volume. Such stone volumes in the topsoil will act as an impediment to cultivation, harvesting and crop growth and may increase production costs and affect crop quality.
- 3.5.4 Either side of New Dover Road, small areas of land are limited by gradients in the range 7-9°, as measured by an optical reading clinometer. These slopes will have the effect of restricting the safe and efficient operation of farm machinery.

April 1993
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MAFF Ref: EL 1102B

Resource Planning Team
Guildford Statutory Group
ADAS Reading

SOURCES OF REFERENCE

- British Geological Survey (1982) Sheet 289, Canterbury.
- MAFF (1988) Agricultural Land Classification of England and Wales : Revised guidelines and criteria for grading the quality of agricultural land.
- Meteorological Office (1989) Climatic datasets for Agricultural Land Classification.
- Soil Survey of England and Wales (1983) Sheet 6, Soils of South-East England.
- Soil Survey of England and Wales (1984) Bulletin 15, Soils of their use in South-East England.

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--		-WHEAT-		-POTS-		M.REL		EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
			GRDNT	GLEY SPL	CLASS	GRADE	AP	MB	AP	MB					
1	TR17305750	TFT N		025	2	2	159	40	123	8	2		WD	2	NO SPL
1P	TR15805560	CER			1	1	173	57	137	26	1			1	
2	TR16905740	TFT		048	1	1	171	52	111	-4	2		DR	2	
2P	TR16505570	PL0 N	01	045 045	3	3A	134	18	111	0	2		WE	3A	SPL 45
3	TR17005740	TFT N	02	050	1	1	168	49	114	-1	2		DR	2	
3P	TR16805540	PL0 NW	02		1	1	098	-18	100	-11	3A		DR	3A	ROOT 75
4	TR17105740	TFT N	02	045 045	3	3A	000	0	000	0			WE	3A	
4P	TR16805680	CER		025 025	4	3B	000	0	000	0			WE	3B	
5	TR17205740	TFT N	02	025 060	3	3A	107	-12	114	-1	3A		WE	3A	
5P	TR17455670	CER			1	1	120	2	107	-7	3A		DR	3A	
6	TR17305740	TFT N		025	2	2	170	51	122	7	2		WD	2	
6P	TR16405670	OSR W	02	042 055	2	2	000	0	000	0			WE	2	
7	TR16905730	TFT		070	1	1	211	92	136	21	1			1	
7P	TR16855650	FLW NE	01		1	1	143	25	117	3	2		DR	2	
8	TR17005730	TFT		028	2	2	147	28	118	3	2		WD	2	NO SPL
8P	TR17155600	PGR		046 060	2	2	123	5	099	-15	3A		DR	3A	
9	TR17105730	TFT		0	2	2	162	43	117	2	2		WD	2	
9P	TR17205730	FRT		038	2	1	167	48	111	-4	2		DR	2	
10	TR17205730	TFT		065	1	1	163	44	114	-1	2		DR	2	
10P	TR17305720	PL0		042 065	2	2	150	31	113	-2	2		WD	2	
11	TR17305730	PL0 N		065	1	1	175	56	135	20	1			1	NO SPL
14	TR17055720	ORC S	01	045	1	1	143	24	110	-5	2		DR	2	
15	TR17105720	ORC S	01	020	2	1	155	36	108	-7	2		DR	2	
16	TR17205720	ORC S	01	035	2	1	127	8	111	-4	2		DR	2	
17	TR17305720	PL0 E	01	042 065	2	2	151	32	111	-4	2		WD	2	
18	TR17405720	PL0 E	02	065	1	1	151	32	111	-4	2		DR	2	
19	TR17505720	PL0 W	01		1	1	160	41	124	9	2		DR	2	
20	TR16905710	STU S	02	0 064	3	3A	142	23	119	4	2		WE	3A	
21	TR17005710	CER S	01	028 078	2	2	142	23	114	-1	2		WD	2	
22	TR17105710	CER S	01	028	2	2	159	40	117	2	2		WD	2	
23	TR17205710	CER		047 065	2	2	139	20	109	-6	2		WD	2	
24	TR17305710	PL0 SE	03	0	2	2	143	24	110	-5	2		WD	2	
25	TR17405710	PL0 SE		070	1	1	141	22	118	3	2		DR	2	
26	TR17505710	PL0 W	05	028	2	3A	159	40	113	-2	2		WE	3A	
27	TR17605710	PL0 W	01		1	1	000	0	000	0			ST	3B	IMP 35
28	TR17005700	CER S	02	029 045	3	3A	000	0	000	0			WE	3A	
29	TR17105700	CER S	02	028	2	2	160	41	132	17	1		WE	2	
30	TR17205700	CER S	03	027 045	3	3A	000	0	000	0			WE	3A	SPL 45
31	TR17305700	CER SE	04		1	1	153	34	113	-2	2		DR	2	
32	TR17405700	PL0 W	03	058	1	1	153	34	114	-1	2		DR	2	
33	TR17505700	PL0 S	02		1	1	000	0	000	0			ST	3B	IMP 35
34	TR17605700	PL0			1	1	000	0	000	0			ST	3B	IMP 35

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--		-WHEAT-		-POTS-		M.REL		EROSN EXP	FROST DIST	CHEM LIMIT	ALC COMMENTS
			GRDNT	GLEYSPL	CLASS	GRADE	AP	MB	AP	MB				
35	TR17705700	PLO			1	1	000	0	000	0			ST	3B IMP 35
36	TR17305690	CER W	02	045 070	2	2	145	26	124	9	2		WD	2
37	TR17405690	PLO W	02		1	1	160	41	124	9	2		DR	2
38	TR17505690	PLO SE	03		1	1	000	0	000	0			ST	3B IMP 30
39	TR17605690	PLO S	01		1	1	000	0	000	0			ST	3B IMP 30
40	TR17705690	PLO W	01		1	1	000	0	000	0			ST	3B IMP 32
41	TR17805690	PLO W	02		1	1	000	0	000	0			ST	3B IMP 30
44	TR16605700	ORC SE		055 065	2	2	000	0	000	0			WE	2
45	TR16705700	ORC NE	01	062 075	2	2	000	0	000	0			WD	2
46	TR16505690	RAP N	02	045 058	2	2	136	18	113	-1	2		WD	2
47	TR16605690	BRA W	04	025 075	2	2	141	23	116	2	2		WD	2
48	TR16905690	CER S	02	035 040	3	3B	000	0	000	0			WE	3B SPL-40
49	TR17005690	CER S	02	028 039	3	3B	000	0	000	0			WE	3B SPL 39
50	TR17105690	CER SE	02	028 032	4	3B	000	0	000	0			WE	3B SPL 32
51	TR16405680	OSR NW	02	068 075	2	2	142	24	118	4	2		WD	2
52	TR16505680	RAP N	02	025 025	4	3B	000	0	000	0			WE	3B SPL 25
53	TR16605680	BRA N	03	028 040	3	3B	000	0	000	0			WE	3B SPL 40
54	TR16705680	CER S	02	030 055	3	3A	135	17	112	-2	2		WE	3A
55	TR16805680	CER		028 040	3	3B	000	0	000	0			WE	3B SPL 40
56	TR16905680	CER		028 050	3	3B	106	-12	111	-3	3A		WE	3B SPL 50
57	TR17005680	AR		038 052	3	3A	000	0	000	0			WE	3A SPL 52
58	TR17105680	AR SE	02	030 030	4	3B	000	0	000	0			WE	3B SPL 30
59	TR17205680	AR E	01	020 020	4	3B	000	0	000	0			WE	3B SPL 20
60	TR17305680	AR E		025 045	3	3A	000	0	000	0			WE	3A
61	TR17405680	AR E			1	1	137	19	112	-2	2		DR	2
62	TR16405670	OSR SW	03	055 055	2	2	000	0	000	0			WE	2
63	TR16505670	CER W	2	000	4	3B	000	0	000	0			WE	3B
64	TR16605670	BRA E	03	025 040	3	3B	000	0	000	0			WE	3B SPL 40
65	TR16705670	CER S	02	065 075	2	2	141	23	117	3	2		WD	2
66	TR16805670	CER S	01	029 035	4	3B	129	11	106	-8	2		WE	3B
67	TR16905670	CER SE		028 040	3	3A	000	0	000	0			WE	3A SPL 40
68	TR17005670	CER SE		029	2	2	000	0	000	0			WE	2
69	TR17105670	CER SE		055 055	2	2	000	0	000	0			WE	2 SPL 55
70	TR17205670	CER SE			1	1	159	41	121	7	2		DR	2
70A	TR17305670	CER SE		000	1	1	110	-8	122	8	3A		DR	3A IMP70 PROB 3A
71	TR17405670	CER SE			1	1	078	-40	078	-36	3B		DR	3B PROB 3A
72	TR17505670	CER SE			1	1	083	-35	083	-31	3B		DR	3B PROB 3A
73	TR17605670	CER SE			1	1	106	-12	113	-1	3A		DR	3A IMP 60
75	TR16405660	OSR SW	05	028 028	4	3B	000	0	000	0			WE	3B
76	TR16505660	RAP N		035 035	4	3B	000	0	000	0			WE	3B
77	TR16605660	CER S	02	038 062	3	3A	137	19	114	0	2		WE	3A SPL 62
78	TR16705660	CER S	01	055	1	1	156	38	118	4	2		DR	2

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--		-WHEAT-		-POTS-		M.REL		EROSN	FROST	CHEM	ALC	COMMENTS
			GRDNT	GLEYSPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EXP	DIST	
79	TR16805660	CER			1	1	159	41	123	9	2			DR 2	
80	TR16905660	STU NE	01		1	1	135	17	118	4	2			DR 2	
81	TR17005660	AR E	03		1	1	102	-16	114	0	3A			DR 3A	IMP 70
82	TR17105660	CER SE			1	1	155	37	117	3	2			DR 2	
83	TR17205660	AR E			1	1	083	-35	083	-31	3B			DR 3B	IMP 50
84	TR17305660	CER SE			1	1	071	-47	071	-43	3B			DR 3B	PROB 3A
85	TR17405660	AR E			1	1	112	-6	118	4	3A			DR 3A	IMP 60
87	TR16305650	OSR SW	01	075	2	2	134	16	118	4	2			WD 2	
88	TR16405650	OSR SW	04	028	2	2	140	22	118	4	2			WD 2	
89	TR16505650	RAP SE	02	027 027	4	3B	000	0	000	0				WE 3B	SPL 27
90	TR16605650	CER S		035 040	3	3A	000	0	000	0				WE 3A	SPL 40
91	TR16705650	CER N	01		1	1	157	39	119	5	2			DR 2	
92	TR16805650	FLW N	01		1	1	144	26	118	4	2			DR 2	
93	TR16905650	STU NW	02	075 075	2	2	125	7	117	3	2			WD 2	
94	TR17005650	ARA N	03		1	2	150	32	117	3	2			WD 2	
95	TR17105650	GR N	02		1	2	155	37	117	3	2			WD 2	
96	TR17205650	CER SE			1	1	120	2	116	2	3A			DR 3A	PROB 2
97	TR17305650	STU			1	1	152	34	116	2	2			DR 2	
98	TR16305640	OSR SW	02	062 062	2	2	130	12	117	3	2			WD 2	
99	TR16405640	OSR SW	03	065 065	2	2	115	-3	116	2	3A			WD 2	
100	TR16505640	RAP SE		080	1	1	128	10	105	-9	2			DR 2	
101	TR16605640	CER S		068	1	1	143	25	117	3	2			DR 2	
102	TR16705640	ORC NE	01		1	1	154	36	116	2	2			DR 2	
103	TR16805640	ORC NE	01		1	1	140	22	116	2	2			DR 2	
104	TR16905640	ORC NW	02	085	1	1	135	17	119	5	2			DR 2	
105	TR17005640	ARA		035 035	4	3B	000	0	000	0				WE 3B	SPL 35
106	TR17105640	CER E		035 045	3	3B	000	0	000	0				WE 3B	SPL 45
107	TR17205640	CER			1	1	113	-5	117	3	3A			DR 3A	PROB 2
108	TR16405630	OSR S	01	025 025	4	3B	092	-26	104	-10	3B			WE 3B	
109	TR16505630	RAP SE		055 055	2	2	000	0	000	0				WE 2	
110	TR16605630	CER N	02	070 070	2	3A	136	18	117	3	2			WE 3A	
111	TR16705630	ORC SW	01	065	1	1	152	34	117	3	2			DR 2	NO SPL
112	TR16805630	OSR E	01	072 072	2	2	144	26	117	3	2			WD 2	
113	TR16905630	ORC N	02		1	1	148	30	118	4	2			DR 2	
114	TR17005630	ORC			1	2	155	37	117	3	2			WD 2	
115	TR17105630	CER E	05		1	2	101	-17	117	3	3A			DR 3A	IMP 70
116	TR17205630	CER			1	1	121	3	114	0	3A			DR 3A	IMP 90
117	TR17305630	STU N	02		1	1	155	37	120	6	2			DR 2	
118	TR16505620	AR		050 050	2	3A	000	0	000	0				WE 3A	SPL 50
119	TR16605620	ORC NE	02	080	1	1	141	23	117	3	2			DR 2	
120	TR16705620	OSR NE	01	055 055	2	2	138	20	112	-2	2			WD 2	
121	TR16805620	ORC SE	01		1	1	154	36	116	2	2			DR 2	

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--		-WHEAT-		-POTS-		M.REL		EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
			GRDNT	GLEYSPL	CLASS	GRADE	AP	MB	AP	MB					
122	TR16905620	ORC N	01	080	1	1	119	1	122	8	3A		DR	2	IMP 82
123	TR17005620	ARA		060	1	2	156	38	118	4	2		WD	2	
124	TR17105620	CER N			1	1	158	40	120	6	2		DR	2	
125	TR17205620	STU NE		070 070	2	2	120	2	097	-17	3A		ST	3B	
126	TR17305620	STU NE	02	088	1	1	155	37	119	5	2		DR	2	
127	TR16605610	ORC N	02	028 045	3	3B	000	0	000	0			WE	3B	SPL 45
128	TR16705610	OSR NE	01	090	1	1	140	22	116	2	2		DR	2	
129	TR16805610	ORC SE	01		1	1	146	28	119	5	2		DR	2	
130	TR16905610	ORC E	01	070 070	2	2	142	24	118	4	2		WD	2	
131	TR17005610	CER E	01	062	1	1	158	40	120	6	2		DR	2	
132	TR17105610	CER N			1	1	149	31	113	-1	2		DR	2	IMP 100
134	TR17305610	ARA NE	03		1	1	155	37	117	3	2		DR	2	
135	TR16705600	ORC SE	01	070 070	2	2	139	21	116	2	2		WD	2	
136	TR16805600	ORC SE	01	045 045	3	3A	133	15	110	-4	2		WE	3A	
137	TR16905600	ORC E	02		1	1	154	36	116	2	2		DR	2	
138	TR17005600	CER E	03		1	1	095	-23	100	-14	3B		DR	3B	PROB 3A
140	TR17205600	PGR E			1	1	092	-26	098	-16	3B		DR	3A	IMP 60
141	TR17305600	ORC NE	03		1	1	154	36	116	2	2		DR	2	
142	TR16805590	ORC E	01	055 055	2	2	135	17	112	-2	2		WD	2	
143	TR16905590	CER E	02		1	1	155	37	117	3	2		DR	2	
145	TR17105590	ORC		065	1	1	144	26	118	4	2		DR	2	
146	TR17205590	ORC		042	1	1	122	4	115	1	3A		DR	3A	IMP 90
147	TR17305590	ORC N	01		1	1	156	38	118	4	2		DR	2	
148	TR17405590	STU N			1	1	155	37	118	4	2		DR	2	
149	TR16905580	CER E		075	2	2	130	12	119	5	2		WD	2	
150A	TR17005580	PAS SW	05		1	1	100	-18	103	-11	3A		DR	3A	CHALK 50
151	TR17105580	FLW NW	01		1	1	137	19	115	1	2		DR	2	
152	TR17205580	ORC			1	1	000	0	000	0			DR	3A	IMP 50
153	TR17205570	CER			1	1	146	28	116	2	2		DR	2	
154	TR15705610	HOP			1	1	159	43	123	12	1			1	
155	TR15805610	HOP			1	1	159	43	123	12	1			1	
156	TR15905610	HOP			1	1	147	31	121	10	1			1	
157	TR15605600	HOP			1	1	161	45	125	14	1			1	
158	TR15705600	HOP		085	1	1	160	44	124	13	1			1	
159	TR15805600	HOP			1	1	158	42	122	11	1			1	
160	TR15905600	HOP			1	1	158	42	122	11	1			1	
161	TR16005600	ORC NW			1	1	157	41	121	10	1			1	
162	TR16105600	ORC NW		035	2	2	159	43	123	12	1		WE	2	
163	TR15605590	FLW E		045	1	1	126	10	108	-3	2		DR	2	
164	TR15705590	HOP			1	1	160	44	124	13	1			1	
165	TR15805590	HOP			1	1	158	42	122	11	1			1	
166	TR15905590	HOP			1	1	159	43	123	12	1			1	

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--		-WHEAT-		-POTS-		M.REL		EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS	
			GRDNT	GLEYSPL	CLASS	GRADE	AP	MB	AP	MB						DRT
167	TR16005590	HOP			1	1	161	45	125	14	1			1		
168	TR16105590	HOP			1	1	159	43	123	12	1			1		
169	TR16205590	ORC		024	2	2	147	31	123	12	1		WE	2		
170	TR16305590	ORC	NW	022	2	2	133	17	115	4	2		WD	2		
171	TR16405590	XOC		028	2	2	146	30	124	13	1		WE	2		
172	TR16505590	FLW		048	1	1	146	30	124	13	2		DR	2		
173	TR16505590	FLW	E	01	1	1	161	45	125	14	1			1		
174	TR16605590	PLO	E	01	1	1	160	44	124	13	1			1		
175	TR16705590	PLO	SE	01	1	1	161	45	125	14	1			1		
176	TR15605580	PLO			1	1	156	40	120	9	2		DR	2		
177	TR15705580	HOP			1	1	161	45	125	14	1			1		
178	TR15805580	CER		000	1	1	000	0	000	0	1			1		
179	TR15905580	ORC			1	1	162	46	127	16	1			1		
180	TR16005580	ORC		060	1	1	139	23	115	4	2		DR	2		
181	TR11605580	ORC		035 040	3	3A	131	15	108	-3	2		WE	3A	SPL 40	
182	TR16205580	ORC		055 060	2	2	136	20	113	2	2		WD	2		
184	TR16405580	PLO		065 065	2	2	122	6	116	5	2		WD	2		
185	TR16505580	PLO		075	1	1	156	40	119	8	2		DR	2		
186	TR16605580	PLO			1	1	158	42	120	9	2		DR	2		
187	TR16705580	ORC			1	1	160	44	122	11	1			1		
188	TR16805580	LEY			1	1	155	39	117	6	2		DR	2		
189	TR15605570	PLO			1	1	121	5	121	10	2		DR	2	IMP 90	
190	TR15705570	PLO	NW	01	1	1	160	44	124	13	1			1		
191	TR15805570	HOP			1	1	158	42	123	12	1			1		
192	TR15905570	ORC			1	1	162	46	126	15	1			1		
193	TR16005570	ORC			1	1	156	40	118	7	2		DR	2		
194	TR16105570	SFT			1	1	155	39	117	6	2		DR	2		
195	TR16205570	TFT		0 050	3	3A	113	-3	111	0	3A		WE	3A		
196	TR16305570	TFT		045 060	2	2	000	0	000	0			WE	2		
197	TR16405570	TFT		0 070	2	2	000	0	000	0			WE	2		
198	TR16505570	PLO	SE	01	038	2	2	000	0	000	0		WE	2		
199	TR16605570	ORC	SE	01		1	1	159	43	123	12	1		1		
200	TR16705570	LEY	NW			1	1	148	32	119	8	2		DR	2	
201	TR16805570	LEY	SE	02		1	1	157	41	119	8	2		DR	2	
202	TR16905570	AR				1	1	158	42	120	9	2		DR	2	
203	TR15605560	PAS	NW			1	1	108	-8	121	10	3A		DR	3A	IMP 68
204	TR15705560	ARA				1	1	160	44	124	13	1		1		
205	TR15805560	ARA				1	1	161	45	125	14	1		1		
206	TR15905560	ORC				1	1	161	45	125	14	1		1		
207	TR16005560	ORC				1	1	161	45	125	14	1		1		
208	TR16105560	ORC				1	1	161	45	125	14	1		1		
209	TR16205560	TFT				1	1	157	41	119	8	2		DR	2	

SAMPLE NO.	GRID REF	ASPECT		---WETNESS---		-WHEAT-		-POTS-		M.REL		EROSN	FROST	CHEM	ALC	COMMENTS
		USE	GRDNT	GLEYS	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EXP	DIST	
210	TR16305560	TFT				1	1	157	41	119	8	2			DR 2	
211	TR16405560	TFT			070	1	1	156	40	118	7	2			DR 2	NO SPL
212	TR16505560	TFT				1	1	155	39	117	6	2			DR 2	
213	TR16605560	TFT				1	1	158	42	120	9	2			DR 2	
214	TR16705560	AR	E	01		1	1	158	42	120	9	2			DR 2	
215	TR16805560	AR	W			1	1	155	39	117	6	2			DR 2	
216	TR16905560	PLO	W	05		1	1	102	-14	103	-8	3A			DR 3A	ROOT 78
217	TR17005560	PLO	NW	02		1	1	102	-14	105	-6	3A			DR 3A	CHALK 45
218	TR15605550	PAS	NW			1	1	092	-24	094	-17	3B			DR 3B	PROB 3A
219	TR15705550	AR				1	1	161	45	125	14	1			1	
220	TR15805550	AR				1	1	161	45	125	14	1			1	
221	TR15905550	ORC				1	1	169	53	133	22	1			1	
222	TR16005550	ORC				1	1	161	45	125	14	1			1	
223	TR16105550	ORC				1	1	175	59	139	28	1			1	
224	TR16205550	ORC				1	1	175	59	139	28	1			1	
225	TR16305550	ORC				1	1	161	45	125	14	1			1	
226	TR16405550	ORC				1	1	160	44	124	13	1			1	
227	TR16505550	ORC				1	1	160	44	124	13	1			1	
228	TR16605550	ORC	S	02		1	1	152	36	125	14	1			1	
229	TR16705550	CER	E	03		1	1	161	45	125	14	1			1	
230	TR16805550	CER	E			1	1	156	40	120	9	2			DR 2	
231	TR16905550	PLO	W	05		1	1	083	-33	089	-22	3B			DR 3B	ROOT 70
232	TR17005550	LEY				1	1	106	-10	113	2	3A			DR 3A	IMP 75 CH
233	TR17105550	LEY				1	1	143	27	119	8	2			DR 2	CHALK 95
234	TR15505540	PAS	NW			1	1	086	-30	086	-25	3B			DR 3B	PROB 2/3A
235	TR15605540	PLO	NW			1	1	094	-22	100	-11	3B			DR 3B	PROB 2/3A
236	TR15705540	AR				1	1	154	38	124	13	1			1	
237	TR15805540	AR				1	1	162	46	126	15	1			1	
238	TR15905540	ORC			050 050	2	2	120	4	111	0	3A			DR 3A	CHALK 80
239	TR16005540	TFT				1	1	125	9	117	6	2			DR 2	IMP 90
240	TR16105540	TFT			0	2	2	155	39	117	6	2			WD 2	
241	TR16205540	STU	S	01		1	1	151	35	125	14	1			1	
242	TR16305540	STU				1	1	160	44	124	13	1			1	
243	TR16405540	ORC				1	1	160	44	124	13	1			1	
244	TR16505540	ORC	S	01		1	1	000	0	000	0				1	
245	TR16605540	CER	S	02		1	1	156	40	125	14	1			1	
246	TR16705540	CER	S			1	1	161	45	125	14	1			1	
247	TR16805540	PLO	NW	03		1	1	116	0	109	-2	3A			DR 3A	CHALK 52
248	TR16905540	PAS	NW	02		1	1	094	-22	096	-15	3B			DR 3B	CHALK 35
249	TR17005540	LEY				1	1	152	36	124	13	1			1	
250	TR17105540	LEY				1	1	151	35	122	11	1			1	
251	TR15605530	AR				1	1	142	26	118	7	2			DR 2	

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--		-WHEAT-		-POTS-		M. REL		EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
			GRDNT	GLEYSPL	CLASS	GRADE	AP	MB	AP	MB					
252	TR15705530	AR			1	1	000	0	000	0				1	
253	TR15805530	FAL		060	1	1	000	0	000	0				1	IMP 70
254	TR15905530	ORC			1	1	150	34	124	13	1			1	
255	TR16005530	ORC			1	1	149	33	138	27	1			1	
256	TR16105530	ORC S	01		1	1	137	21	119	8	2		DR	2	
257	TR16205530	STU S	01		1	1	154	38	138	27	1			1	
258	TR16305530	STU S	01		1	1	154	38	125	14	1			1	
259	TR16405530	AR			1	1	141	25	120	9	2		DR	2	SPL 80
260	TR16505530	STU S			1	1	151	35	125	14	1			1	
262	TR15705520	FAL			1	1	097	-19	103	-8	3A		DR	2	
263	TR15805520	FAL			1	1	172	56	136	25	1			1	
264	TR15905520	ORC			1	1	163	47	137	26	1			1	
265	TR16005520	ORC			1	1	114	-2	121	10	3A		DR	3A	PROB 2

SAMPLE	DEPTH	TEXTURE	COLOUR	-----MOTTLES-----			PED		-----STONES-----			STRUCT/ CONSIST	SUBS			CALC	
				COL	ABUN	CONT	COL.	GLEYS	>2	>6	LITH		TOT	STR	POR		IMP
1	0-25	mzc1	10YR42 00						0	0	HR	1					
	25-60	mzc1	10YR53 00	000C00	00	C		Y	0	0	HR	1		M			
	60-120	hzc1	25Y 52 00	000C00	00	M		Y	0	0		0		M			
1P	0-31	z1	10YR42 00						0	0	HR	1					
	31-55	mzc1	75YR54 00						0	0		0	MDCSAB	FR	M		
	55-75	mzc1	75YR54 00						0	0		0	MDCAB	FR	M		
	75-120	mzc1	75YR54 00						0	0		0	MDVCAB	FM	M	Y	
2	0-30	sc1	25Y 63 00						0	0		0					
	30-48	sc	25Y 63 00						0	0		0			M		
	48-80	sc1	25Y 63 00	000C00	00	C		Y	0	0		0			M		
	80-100	fs1	05Y 63 00	000C00	00	C		Y	0	0		0			G		
	100-120	1fs	05Y 63 00	000C00	00	C		Y	0	0		0			G		
2P	0-30	mc1	10YR42 00						0	0		0					
	30-45	hc1	10YR44 00	75YR56	00	M			0	0		0	STCSAB	FM	M		
	45-65	c	25 Y62 00	10YR58	00	M		Y	0	0		0	STCOAB	VM	P	Y	Y
	65-120	c	25 Y62 00	10YR58	00	M		Y	0	0		0	WKVCAB	VM	P	Y	Y
3	0-30	mc1	10YR42 00						0	0		0					
	30-50	sc1	25Y 63 00	000C00					0	0		0			M		
	50-75	sc1	25Y 63 00	000C00	00	M		Y	0	0		0			M		
	75-120	1fs	05Y 63 00	000C00	00	M		Y	0	0		0			G		
3P	0-30	mc1	10YR42 00						0	0		0					Y
	30-40	hc1	10YR53 54						0	0	CH	15	MDCSAB	FM	M		Y + 5% FLINTS
	40-55	hc1	10YR64 00						0	0	CH	70			M		Y + 10% FLINTS
	55-75	ch							0	0	HR	10			M		Y + 10% FLINTS
4	0-30	mzc1	10YR42 00						0	0		0					
	30-45	hc1	10YR53 00						0	0		0			M		
	45-62	c	10YR64 00	000C00	00	C		Y	0	0		0		P	Y		Y
4P	0-25	hc1	25Y 32 00						0	0	HR	1					
	25-40	c	25Y 64 00	10YR56	00	C	25Y 64 00	Y	0	0		0	MDCAB	FM	P	Y	Y
	40-65	c	25Y 52 00	10YR58	00	M	25Y 52 00	Y	0	0		0	MDCAB	FM	P	Y	Y
5	0-25	mc1	10YR42 00						0	0	HR	1					
	25-50	mc1	10YR53 00	000C00	00	C		Y	0	0		0			M		
	50-60	c	25Y 52 00	000C00	00	M		Y	0	0		0			M		
	60-80	c	25Y 52 00	000C00	00	M		Y	0	0		0		P	Y		Y
5P	0-28	fsz1	10YR42 43						0	0	HR	5					
	28-48	mzc1	10YR43 00						0	0	HR	7	MDCSAB	FR	M		
	48-60	hc1	10YR43 00						0	0	HR	50			M		
	60-120	hc1	10YR43 00						0	0	HR	65			M		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES----			STRUCT/ CONSIST	SUBS					
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL	CALC
6	0-25	mc1	10YR42 00						0	0	0							
	25-80	hzc1	10YR53 00	000C00	00	C		Y	0	0	0		M					
	80-120	lfs	10YR56 00					Y	0	0	0		G					
6P	0-25	hc1	10YR41 42						0	0	0							Y
	25-42	mc1	25 Y52 53						0	0	0	MDCSAB	FR	M				Y
	42-55	hc1	25 Y53 00	10YR58	00	C	25 Y60	00	Y	0	0	0	MDCOAB	FM	P			Y
	55-75	c	05 Y61 00	10YR56	58	M			Y	0	0	0	STCOAB	FM	P	Y	Y	Y
7	0-28	ms1	10YR43 00						0	0	HR	1						
	28-60	fs1	10YR54 00						0	0		0		G				
	60-70	fs1	25Y 53 00						0	0		0		M				
	70-120	fs1	05Y 63 00	000C00	00	C		Y	0	0	0	0		G				
7P	0-25	mc1	10YR32 42						0	0	HR	1						
	25-60	hc1	10YR44 54						0	0		0	MDCAB	FR	M	Y		
	60-80	c	75YR54 00				10YR44	00	0	0		0	MDCSAB	FR	M	Y		
	80-120	c	10YR54 00						0	0		0	MDCAB	FM	M			
8	0-28	mc1	10YR32 00						0	0		0						
	28-50	mc1	25Y 52 00	000C00	00	M		Y	0	0	0	0		M				
	50-75	hc1	25Y 63 00	000C00	00	M		Y	0	0	0	0		M				
	75-120	c	25Y 62 00	000C00	00	M		Y	0	0	0	0		M				
8P	0-28	mc1	10YR42 00						3	0	HR	8						
	28-40	fsz1	10YR54 00						0	0	HR	25	MDCAB	FR	M			
	40-46	fsz1	10YR53 00	10YR56	00	F			0	0	HR	55		M				
	46-60	c	75YR64 00	05YR56	58	M		Y	0	0	HR	25	MDMDAB	FM	P	Y		
	60-120	c	10YR52 00	05YR56	58	M		Y	0	0		0	STCOAB	FM	P	Y	Y	
9	0-30	sc1	10YR42 00	000C00	00	C		Y	0	0	0	0						
	30-40	sc1	25Y 52 00	000C00	00	C		Y	0	0	0	0		M				
	40-90	hzc1	25Y 63 00	000C00	00	M		Y	0	0	0	0		M				
	90-120	fs1	25Y 63 00	000C00	00	M		Y	0	0	0	0		M				
9P	0-34	ms1	25Y 42 00						0	0	HR	1						
	34-38	lfs	25Y 42 00						0	0		0	WKCSAB	FR	G			
	38-90	lfs	25Y 52 53	10YR46	00	C		Y	0	0	0	0	WKCSAB	FR	G			
	90-100	sc1	05Y 72 00	75YR58	00	M	05Y 72	00	Y	0	0	0	MDCAB	FM	P	Y		
	100-120	fs1	05Y 72 00	75YR58	00	M	05Y 72	00	Y	0	0	0	MDCAB	FR	M			
10	0-40	ms1	10YR43 00						0	0		0						
	40-50	ms1	10YR43 00						0	0		0		G				
	50-65	lfs	10YR54 00						0	0		0		G				
	65-80	lfs	10YR63 00	000C00	00	C		Y	0	0	0	0		G				
	80-120	sc	25Y 52 00	000C00	00	C		Y	0	0	0	0		M				
10P	0-30	sc1	25Y 42 00						0	0	HR	2						
	30-42	ms1	25Y 53 54						0	0		0	MDCSAB	FR	M			
	42-65	sc1	25Y 64 54	75YR58	00	M		Y	0	0	0	0	MDCSAB	FR	M			
	65-105	sc	05Y 73 00	75YR58	00	M	25Y 64	00	Y	0	0	0	MDCAB	FM	P	Y	Y	
	105-120	fs1	05Y 73 00	75YR58	00	M			Y	0	0	0	MDCSAB	FR	M			

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----			STRUCT/ CONSIST	SUBS				
				COL	ABUN	CONT	COL.	GLEYS	>2	>6	LITH		TOT	STR	POR	IMP	SPL
11	0-40	fs1	10YR42 00						0	0	0						
	40-65	fs1	10YR54 00						0	0	0			G			
	65-90	sc	05Y 63 00 000C00 00 C					Y	0	0	0			M			
	90-120	sc1	10YR56 00 000C00 00 C					Y	0	0	0			M			
14	0-28	sc1	10YR43 00						0	0	HR	1					
	28-45	ms1	10YR54 00 10YR56 58 F						0	0	0			M			
	45-55	ms1	25Y 53 00 10YR56 58 C					Y	0	0	0			M			
	55-85	sc1	05GY61 00 75YR58 00 M					Y	0	0	0			M			
	85-120	sc	05GY71 00 75YR58 00 M					Y	0	0	0			P			
15	0-20	ms1	10YR32 42						0	0	HR	2					
	20-38	ms1	10YR41 51 10YR46 00 C					Y	0	0	0			M			
	38-55	ms1	05GY51 00 10YR56 00 M					Y	0	0	0			M			
	55-120	ms1	05Y 63 00 10YR66 00 M					Y	0	0	0			M			
16	0-35	ms1	10YR42 00						0	0	HR	1					
	35-60	ms1	05Y 41 00 10YR46 00 C					Y	0	0	0			M			
	60-70	ms1	25Y 53 00 10YR56 66 C					Y	0	0	0			M			
	70-120	lms	25Y 73 74 10YR66 76 M					Y	0	0	0			M			
17	0-30	sc1	10YR42 00						0	0	HR	1					
	30-42	sc1	10YR43 00						0	0	0			M			
	42-65	sc1	25Y 53 00 10YR56 00 M					Y	0	0	0			M			
	65-120	sc	25Y 63 00 10YR56 66 M					Y	0	0	0			M			Y
18	0-30	sc1	10YR42 00						0	0	0						
	30-65	sc1	10YR43 00						0	0	0			M			
	65-120	sc1	10YR53 00 10YR56 00 M					Y	0	0	0			M			
19	0-28	mzc1	10YR42 00						0	0	HR	2					
	28-120	hzc1	10YR43 44 10YR53 00 F						0	0	0			M			
20	0-30	mzc1	10YR42 00 10YR56 00 C						Y	0	0	HR	1				
	30-64	hc1	25Y 54 56						Y	0	0	0		M			
	64-120	c	25Y 72 54 75YR58 00 M						Y	0	0	0		P			Y
21	0-28	mzc1	10YR42 00						0	0	HR	3					
	28-40	sc1	10YR53 63 75YR56 00 M						Y	0	0	HR	3		M		
	40-78	sc1	25Y 63 00 75YR58 00 M						Y	0	0	0		M			
	78-120	c	25Y 72 00 75YR58 00 M						Y	0	0	0		P			Y
22	0-28	mzc1	10YR42 00						0	0	HR	3					
	28-45	sc1	25Y 63 00 75YR58 00 C						Y	0	0	HR	3		M		
	45-55	fs1	25Y 72 00 75YR58 00 C						Y	0	0	0		M			
	55-85	lfs	25Y 61 00						Y	0	0	0		M			
	85-120	sc	05Y 72 00 75YR58 00 M						Y	0	0	0		P			

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----				STRUCT/ CONSIST	SUBS			
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH	TOT		STR	POR	IMP	SPL
23	0-29	sc1	10YR42 00						0	0	HR	1					
	29-47	sc1	25Y 53 00						0	0		0		M			
	47-65	sc1	25Y 64 00	10YR56	00	C			Y	0	0	0		M			
	65-120	sc	25Y 63 64	75YR58	00	M			Y	0	0	0		P		Y	
24	0-30	sc1	10YR42 00	10YR56	00	C			Y	0	0	HR	2				
	30-75	sc1	10YR42 00	10YR56	00	F			Y	0	0	0		M			
	75-85	sc1	25Y 63 00	75YR58	00	C			Y	0	0	0		M			
	85-120	sc	25Y 63 00	75YR58	00	M			Y	0	0	0		P			
25	0-34	mc1	10YR42 00						0	0	HR	1					
	34-46	mc1	10YR54 00						0	0		0		M			
	46-65	hc1	10YR54 56						0	0		0		M			
	65-70	c	10YR54 00						0	0		0		M			
	70-80	c	10YR53 54	10YR56	00	C			Y	0	0	0		M			
	80-120	c	10YR53 54	10YR56	00	C			Y	0	0	0		P			
26	0-28	hc1	10YR42 00						0	0	HR	1					
	28-55	sc	25Y 64 66	75YR58	00	C			Y	0	0	0		M			
	55-75	sc1	25Y 63 64	000C00	00	C			Y	0	0	0		M			
	75-85	ms1	25Y 64 00	75YR58	00	C			Y	0	0	0		M			
	85-110	ms1	25Y 64 00	75YR58	00	C			Y	0	0	0		M			
	110-120	lfs	25Y 64 00	75YR58	00	C			Y	0	0	0		M			
27	0-25	mzc1	10YR32 42						5	0	HR	15					
	25-35	hzc1	10YR33 43						0	0	HR	20		M			IMP 35+ STONES
28	0-29	mzc1	10YR42 00						0	0	HR	1					
	29-35	hzc1	25Y 62 00	10YR56	00	C			Y	0	0	0		M			
	35-45	c	25Y 63 00	75YR58	00	C			Y	0	0	0		M			
	45-65	c	25Y 62 63	75YR58	00	M			Y	0	0	0		P		Y	
29	0-28	sc1	10YR42 00						0	0	HR	1					
	28-65	fsz1	25Y 63 00	75YR56	00	C			Y	0	0	0		M			
	65-85	sc1	10YR53 00	75YR58	00	C			Y	0	0	0		M			
	85-120	c	05Y 72 00	75YR58	00	M			Y	0	0	0		P			
30	0-27	sc1	10YR42 00						0	0	HR	1					
	27-45	hc1	25Y 62 63	75YR58	00	C			Y	0	0	0		M			
	45-65	c	25Y 62 63	75YR58	00	M			Y	0	0	0		P		Y	
31	0-30	fs1	10YR42 43						0	0	HR	1					
	30-120	sc1	10YR54 44						0	0	HR	1		M			
32	0-35	mc1	10YR42 00						0	0	HR	2					
	35-48	sc1	10YR42 43						0	0	HR	1		M			
	48-58	sc1	10YR53 00						0	0		0		M			
	58-120	sc1	10YR53 62	75YR56	00	C			Y	0	0	HR	2		M		

SAMPLE	DEPTH	TEXTURE	COLOUR	-----MOTTLES-----			PED		-----STONES-----			STRUCT/ CONSIST	SUBS			CALC		
				COL	ABUN	CONT	COL.	GLEYS	>2	>6	LITH		TOT	STR	POR		IMP	SPL
33	0-35	sc1	10YR42 00						23	0	HR	30						IMP 35+ STONES
34	0-35	fs1	10YR42 00						18	0	HR	25						IMP 35+ STONES
35	0-35	fs1	10YR42 00						20	0	HR	27						IMP 35+ STONES
36	0-30	mzc1	10YR42 00						0	0	HR	2						
	30-45	mzc1	10YR41 42	10YR46 00	F				0	0		0			M			
	45-70	hzc1	25Y 42 00	10YR46 00	C				Y	0	0	0			M			
	70-120	zc	25Y 62 00	10YR56 00	C				Y	0	0	0			P		Y	
37	0-28	mzc1	10YR42 00						0	0	HR	2						
	28-50	hzc1	10YR43 00						0	0		0			M			
	50-120	hzc1	10YR44 54						0	0		0			M			
38	0-30	fs1	10YR32 00						20	0	HR	25						IMP 30+ STONES
39	0-30	fs1	10YR32 00						20	0	HR	25						IMP 30+ STONES
40	0-32	fs1	10YR31 00						20	0	HR	28						IMP 32+ STONES
41	0-30	fsz1	10YR31 00						20	0	HR	25						IMP 30+ STONES
44	0-30	mc1	10YR42 00						0	0	HR	1						
	30-55	mc1	10YR43 44						0	0		0			M			
	55-65	mc1	10YR53 00	75YR56 00	C			00MN00 00	Y	0	0	0			M			
	65-90	mc1	10YR53 54	75YR56 00	M			00MN00 00	Y	0	0	0			P		Y	
45	0-28	mc1	10YR32 42						0	0	HR	2						
	28-62	mc1	10YR43 00						0	0		0			M			
	62-75	hc1	10YR53 00	10YR56 00	M				Y	0	0	0			M			
	75-120	c	10YR53 00	10YR56 58	M				Y	0	0	0			P		Y	
46	0-27	mc1	10YR42 00						0	0	HR	1						
	27-45	hc1	10YR53 00					00MN00 00		0	0	HR	1		M			
	45-58	hc1	10YR63 00	10YR66 00	C				Y	0	0	0			M			
	58-120	c	10YR63 00	10YR66 00	C				Y	0	0	0			P		Y	
47	0-25	mc1	10YR42 00						0	0	HR	1						
	25-40	hc1	10YR53 54	10YR56 00	C				Y	0	0	0			M			
	40-75	mc1	25Y 53 00						Y	0	0	HR	1		M			
	75-120	c	05Y 63 00	75YR58 00	M				Y	0	0	0			P		Y	
48	0-30	mc1	25Y 42 00						0	0	HR	1						
	30-35	c	25Y 53 00	10YR56 00	F				0	0		0			M			
	35-40	c	25Y 63 64	75YR56 58	C				Y	0	0	0			M			
	40-60	c	25Y 63 64	75YR56 58	M				Y	0	0	0			P		Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----				STRUCT/ CONSIST	SUBS			CALC	
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH	TOT		STR	POR	IMP		SPL
49	0-28	hc1	25Y 42 00						0	0	HR	1						
	28-39	c	25Y 64 00	75YR56	00	C		Y	0	0		0		M				
	39-60	c	25Y 63 00	75YR58	00	M		Y	0	0		0		P			Y	
50	0-28	mc1	10YR42 00						0	0		0						
	28-32	c	25Y 64 00	10YR56	00	C		Y	0	0		0		M				
	32-60	c	25Y 63 00	75YR56	58	M		Y	0	0		0		P			Y	
51	0-28	mc1	10YR32 00						0	0		0					Y	
	28-68	hc1	25 Y53 00						0	0		0		M			Y	
	68-75	hc1	10YR53 00	75YR58	00	C	10YR61	00	Y	0	0	0		M			Y	
	75-120	c	10YR53 00	75YR58	00	M	10YR61	00	Y	0	0	0		P		Y	Y	
52	0-25	mc1	10YR41 42						0	0		0						
	25-50	c	25Y 63 00	10YR56	00	C		Y	0	0		0		P			Y	
53	0-28	hc1	10YR42 00						0	0	HR	1						
	28-40	c	25Y 64 00	75YR58	00	C		Y	0	0		0		M				
	40-60	c	25Y 63 00	75YR58	00	M		Y	0	0		0		P			Y	
54	0-30	mc1	10YR32 42						0	0	HR	2						
	30-55	hc1	10YR53 62	10YR56	00	C		Y	0	0		0		M				
	55-120	c	05Y 62 00	10YR58	00	M		Y	0	0		0		P			Y	
55	0-28	hc1	10YR42 00						0	0	HR	1						
	28-40	c	25Y 64 00	10YR56	00	C		Y	0	0		0		M				
	40-60	c	25Y 64 00	75YR56	58	M		Y	0	0		0		P			Y	
56	0-28	hc1	25Y 42 00						0	0	HR	1						
	28-50	hc1	25Y 63 00	10YR56	00	C		Y	0	0		0		M				
	50-60	c	25Y 63 64	75YR56	58	M		Y	0	0		0		P			Y	
	60-80	c	05Y 53 00	75YR56	58	M		Y	0	0		0		P			Y	
57	0-26	mc1	10YR41 42						0	0	HR	1						
	26-38	hc1	25Y 53 00						0	0		0		M				
	38-52	hc1	25Y 63 00	000C00	00	C		Y	0	0		0		M				
	52-80	c	25Y 63 00	000C00	00	M		Y	0	0		0		P			Y	
58	0-30	mc1	10YR42 00						0	0	HR	1						
	30-50	c	25Y 63 00	10YR56	00	C		Y	0	0		0		P			Y	
59	0-20	mc1	10YR42 00						0	0	HR	1						
	20-32	c	10YR42 00	10YR56	00	C		Y	0	0		0		P			Y	
	32-50	c	25Y 52 00	10YR56	00	M		Y	0	0		0		P			Y	
60	0-25	mc1	10YR42 00						0	0	HR	1						
	25-30	mc1	10YR42 00	10YR56	00	C		Y	0	0		0		M				
	30-45	c	10YR64 00	10YR56	00			Y	0	0		0		M				
	45-70	c	10YR64 00	10YR56	00	M		Y	0	0		0		P			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED COL.	----STONES-----			STRUCT/ CONSIST	SUBS STR POR	IMP	SPL	CALC
				COL	ABUN	CONT		GLE	>2	>6					
61	0-25	mc1	10YR42 00					0	0	HR	5				
	25-65	hc1	10YR42 00	000C00	00	F		0	0	HR	3	M			
	65-90	c	10YR54 00	000C00	00	F		0	0	HR	8	M			IMP 90+ STONES
62	0-27	mc1	10YR42 00					0	0		0				Y
	27-35	hc1	25 Y52 00					0	0		0	M			Y
	35-55	hc1	25 Y63 00					0	0		0	M			Y
	55-90	c	25 Y64 00	75YR68	00	C	25 Y71 00	Y	0	0	0	P		Y	Y
63	0-25	hc1	10YR42-00					0	0		0				Y
	25-32	c	25Y 63-00	10YR66-00		C		Y	0	0	0	P		Y	
	32-40	hc1	25Y 63-00	10YR66-00		M		Y	0	0	0	P		Y	
	40-120	c	25Y 63-00	10YR66-00		M		Y	0	0	0	P		Y	
64	0-25	hc1	10YR42 00					0	0	HR	1				
	25-40	c	25Y 64 00	75YR58	00	C		Y	0	0	0	M			
	40-60	c	25Y 63 64	75YR58	00	M		Y	0	0	0	P		Y	
65	0-30	mc1	10YR32 42					0	0	HR	2				
	30-65	mc1	10YR53 00					0	0		0	M			
	65-75	hc1	10YR53 62	10YR56	00	C		Y	0	0	0	M			
	75-120	c	25Y 62 00	10YR58	00	M		Y	0	0	0	P		Y	
66	0-29	mc1	10YR32 42					0	0	HR	2				
	29-35	mc1	10YR53 00	10YR61	56	C		Y	0	0	0	M			
	35-120	c	05Y 62 00	10YR58	00	M		Y	0	0	0	P		Y	
67	0-28	mc1	10YR42 00					0	0	HR	1				
	28-35	hc1	10YR53 54	10YR56	00	C		Y	0	0	0	M			
	35-40	c	25Y 64 00	75YR58	56	C		Y	0	0	0	M			
	40-60	c	25Y 63 64	75YR56	58	M		Y	0	0	0	P		Y	
68	0-25	mc1	10YR42 00					0	0		0				
	25-29	hc1	10YR42 00					0	0		0	M			
	29-45	hc1	10YR53 54	10YR56	00	C		Y	0	0	0	M			
	45-120	hc1	10YR53 00	75YR56	58	M	00MNO0 00	Y	0	0	0	P			
69	0-30	mc1	10YR42 00					0	0		0				
	30-55	c	10YR54 00	10YR56	00	F		0	0		0	M			
	55-120	c	10YR53 54	75YR56	00	M		Y	0	0	0	P		Y	
70	0-35	mzc1	10YR43 00					0	0	HR	1				
	35-70	hc1	75YR44 46					0	0	HR	1	M			IMP 70+ STONES
71	0-30	mzc1	10YR42 00					0	0	HR	4				
	30-45	mzc1	10YR43 00					0	0	HR	10	M			IMP 45+ STONES
72	0-35	fsz1	10YR42 43					0	0	HR	5				
	35-40	fsz1	10YR43 00					0	0	HR	10	M			IMP 40+ STONES

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES----			STRUCT/ CONSIST	SUBS						
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL	CALC	
73	0-35	fsz1	10YR42 43						0	0	HR	4							
	35-60	mzc1	10YR43 00						0	0	HR	10	M						IMP 60+ STONES
75	0-28	hc1	10YR32 00						0	0		0							Y
	28-70	c	25 Y64 00	75YR68 00	M		25 Y71 00	Y	0	0		0	P						Y Y
76	0-25	hc1	10YR41 42						0	0		0							
	25-35	c	10YR64 00						0	0		0	M						
	35-60	c	10YR64 00	10YR56 00	M			Y	0	0		0	P						Y
77	0-26	mc1	10YR42 00						0	0	HR	2							
	26-38	mc1	10YR53 00						0	0		0	M						
	38-50	mc1	10YR53 00	75YR56 00	C		00MNO0 00	Y	0	0		0	M						
	50-62	hc1	10YR53 00	75YR56 00	C		00MNO0 00	Y	0	0		0	M						
	62-120	c	25Y 63 00	75YR58 56	M			Y	0	0		0	P						Y
78	0-35	mc1	10YR32 42						0	0	HR	2							
	35-55	mc1	10YR53 00						0	0		0	M						
	55-120	hc1	10YR62 00	10YR56 00	M			Y	0	0		0	M						
79	0-30	mzc1	10YR32 42						0	0	HR	2							
	30-45	mzc1	10YR53 00						0	0	CH	5	M						
	45-120	mzc1	10YR54 00						0	0		0	M						
80	0-30	mc1	10YR43 00						0	0		0							
	30-55	hc1	10YR44 00						0	0		0	M						
	55-110	c	10YR44 54						0	0		0	M						
81	0-25	mc1	10YR42 00						0	0	HR	4							
	25-70	mc1	10YR54 00						0	0	HR	2	M						IMP 70+ STONES
82	0-30	mc1	10YR42 00						0	0	HR	1							
	30-45	mc1	10YR54 56						0	0		0	M						
	45-120	hc1	10YR54 56	75YR56 00	F				0	0		0	M						
83	0-25	mc1	10YR42 00						0	0	HR	2							
	25-50	mc1	10YR43 00						0	0	HR	2	M						IMP 50+ STONES
84	0-35	mzc1	10YR42 00						0	0	HR	5							
	35-40	mc1	10YR43 00						0	0	HR	10	M						IMP 40+ STONES
85	0-23	mc1	10YR42 00						0	0	HR	2							
	23-60	fsz1	10YR43 00						0	0	HR	1	M						IMP 60+ STONES
87	0-30	mc1	10YR32 00						0	0		0							Y
	30-45	c	25 Y53 00						0	0		0	M						Y
	45-75	c	10YR66 00						0	0		0	M						
	75-110	c	10YR66 00	75YR58 00	F		10YR61 00		0	0		0	M						Y

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED COL.	----STONES-----			STRUCT/ CONSIST	SUBS			CALC
				COL	ABUN	CONT		GLE	>2	>6		LITH	TOT	STR	
88	0-28	hc1	10YR32 00					0	0	0					Y
	28-80	hc1	25 Y63 00	75YR58	00	C		Y	0	0	0	M			Y
	80-100	sc1	05 Y71 00	10YR68	00	M		Y	0	0	0	M			
	100-120	msst	00ZZ00 00					Y	0	0	0	M			IMP 100+ MSST
89	0-27	hc1	10YR41 42					0	0	HR	1				
	27-60	c	25Y 63 00	10YR66	00	C		Y	0	0	0	P			Y
90	0-27	mc1	10YR42 00					0	0	HR	2				
	27-35	hc1	10YR54 00					0	0	0	0	M			
	35-40	c	10YR53 54	75YR56	00	C		Y	0	0	0	M			
	40-60	c	10YR53 00	75YR58	56	M		Y	0	0	0	P			Y
91	0-28	mzc1	10YR42 00					0	0	HR	2				
	28-85	mc1	10YR44 00					0	0	0	0	M			
	85-120	hc1	75YR56 00					0	0	0	0	M			
92	0-33	mc1	10YR42 00					0	0	HR	1				
	33-55	hc1	10YR54 00	10YR58	00	F		0	0	0	0	M			
	55-75	c	10YR54 00					0	0	0	0	M			
	75-120	c	10YR54 00	10YR62	00	F		0	0	0	0	M			
93	0-25	mc1	10YR42 00					0	0	0	0				
	25-45	hc1	10YR44 00					0	0	0	0	M			
	45-75	c	75YR56 00					0	0	0	0	M			
	75-100	c	10YR64 00	75YR68	00	C		Y	0	0	0	M			Y
94	0-28	hc1	10YR42 00					0	0	HR	1				
	28-50	hc1	10YR43 54					0	0	0	0	M			
	50-75	c	75YR56 66					0	0	0	0	M			
	75-120	hc1	75YR56 66	00C00	00	F		0	0	0	0	M			
95	0-26	hc1	10YR42 00					0	0	0	0				
	26-35	hc1	10YR53 00					0	0	0	0	M			
	35-75	hc1	10YR54 00					0	0	0	0	M			
	75-120	mc1	10YR54 00					0	0	0	0	M			
96	0-30	mc1	10YR42 00					0	0	HR	1				
	30-60	mc1	10YR54 56					0	0	0	0	M			
	60-80	hc1	10YR54 56					0	0	HR	10	M			
	80-90	c	10YR54 56					0	0	HR	15	M			IMP 90+ STONES
97	0-23	mc1	10YR42 00					0	0	HR	1				
	23-60	c	10YR53 00					0	0	0	0	M			
	60-120	hc1	10YR54 44					0	0	0	0	M			
98	0-28	hc1	10YR32 00					0	0	0	0				Y
	28-62	c	25 Y63 00					0	0	0	0	M			Y
	62-75	c	25 Y53 00	10YR68	00	C		Y	0	0	HR	2	M		Y
	75-100	hc1	25 Y53 00	10YR68	00	M		Y	0	0	0	M			Y

SAMPLE	DEPTH	TEXTURE	COLOUR	-----MOTTLES-----			PED		-----STONES-----			STRUCT/ CONSIST	SUBS				
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL
99	0-28	hc1	10YR32 00						0	0	0						Y
	28-65	c	25 Y62 00						0	0	0		M				Y
	65-90	c	25 Y62 00	75YR56 00 C			10YR71 00 Y		0	0	0		P		Y	Y	
100	0-28	mc1	10YR41 42						0	0	HR 1						
	28-40	c	25Y 52 53						0	0	0		P				
	40-80	c	25Y 63 00						0	0	0		P				
	80-120	c	25Y 63 00	10YR56 00 C				Y	0	0	0		P				
101	0-28	mc1	10YR42 00						0	0	HR 1						
	28-50	mc1	10YR42 43						0	0	0		M				
	50-68	hc1	10YR54 00	75YR56 00 C					0	0	0		M				
	68-80	hc1	10YR53 54	75YR56 00 M			00MNO0 00 Y		0	0	0		M				
	80-120	c	10YR64 00	75YR56 58 M				Y	0	0	0		P				
102	0-26	mc1	10YR42 00						0	0	HR 2						
	26-85	hc1	10YR54 00						0	0	0		M				
	85-120	hc1	10YR64 54						0	0	0		M				
103	0-25	mc1	10YR42 00						0	0	HR 2						
	25-45	hc1	10YR44 54						0	0	0		M				
	45-75	c	10YR54 00						0	0	0		M				
	75-120	c	10YR54 00	10YR62 00 F					0	0	0		M				
104	0-35	mc1	10YR44 54						0	0	0						
	35-50	hc1	10YR44 54						0	0	0		M				
	50-70	c	75YR56 00						0	0	0		M				
	70-85	c	75YR56 00	75YR58 00 F			10YR63 00		0	0	0		M				
	85-110	c	10YR63 64	75YR58 00 C				Y	0	0	0		M				
105	0-28	hc1	10YR42 00						0	0	HR 1						
	28-35	c	25Y 54 00	10YR56 00 F					0	0	0		M				
	35-60	c	25Y 64 63	75YR58 00 M				Y	0	0	0		P		Y		
106	0-25	hc1	10YR42 00						0	0	HR 1						
	25-35	c	10YR42 00						0	0	0		M				
	35-45	c	25Y 54 00	75YR58 00 C				Y	0	0	0		M				
	45-60	c	25Y 64 00	75YR58 00 M				Y	0	0	0		P		Y		
107	0-35	mc1	10YR42 00						0	0	HR 3						
	35-55	hc1	10YR54 56						0	0	HR 1		M				
	55-65	c	10YR56 54						0	0	0		M				
	65-80	hc1	10YR54 56						0	0	HR 2		M				IMP 80+ STONES
108	0-25	hc1	10YR32 00						0	0	0						Y
	25-70	c	25 Y62 00	10YR58 00 C			10YR71 00 Y		0	0	0		P		Y	Y	
109	0-28	hc1	10YR42 00						0	0	HR 1						Y
	28-55	c	25Y 63 00						0	0	0		P				
	55-80	c	25Y 63 00	10YR56 00 C				Y	0	0	0		P		Y		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED COL.	----STONES-----			STRUCT/ CONSIST	SUBS			CALC
				COL	ABUN	CONT		GLE	>2	>6		LITH	TOT	STR	
110	0-28	hc1	10YR42 00					0	0	HR	1				
	28-70	c	10YR54 00					0	0		0		M		
	70-120	c	10YR53 00 75YR56 00 M					Y	0	0	0		P		Y
111	0-28	mc1	10YR42 00					0	0	HR	2				
	28-33	hc1	10YR42 00					0	0		0		M		
	33-65	hc1	10YR54 00					0	0		0		M		
	65-77	c	10YR53 54 10YR56 00 C					Y	0	0	0		M		
	77-120	hc1	10YR53 00 10YR56 00 M					Y	0	0	0		M		
112	0-28	mc1	10YR42 00					0	0	HR	1				
	28-50	mc1	10YR44 00					0	0		0		M		
	50-72	hc1	10YR54 00					0	0		0		M		
	72-85	c	10YR62 53 75YR56 00 C					Y	0	0	0		P		Y
	85-120	c	10YR54 00					Y	0	0	0		P		Y
113	0-32	mc1	10YR43 00					0	0		0				
	32-50	hc1	10YR44 00					0	0		0		M		
	50-80	hc1	75YR56 00					0	0		0		M		
	80-120	c	75YR56 00 00MN00 00 F					0	0		0		M		
114	0-25	hc1	10YR42 43 00OC00 00 F					0	0		0				
	25-100	mc1	10YR43 00					0	0		0		M		
	100-120	hc1	10YR43 00					0	0		0		M		
115	0-29	hc1	10YR42 43					0	0	HR	1				
	29-70	c	10YR56 00					0	0		0		M		IMP 70+ STONES
116	0-30	mc1	10YR42 43					0	0	HR	4				
	30-60	mc1	10YR54 44					0	0	HR	1		M		
	60-90	mc1	10YR54 44					0	0	HR	10		M		IMP 90+ STONES
117	0-28	mc1	10YR32 00					0	0	HR	2				
	28-120	mzc1	10YR44 54					0	0	HR	2		M		Y
118	0-23	hc1	10YR42 00					0	0	HR	1		M		
	23-50	c	25Y 63 00					0	0		0		M		
	50-80	c	25Y 63 00 10YR56 00 C					Y	0	0	0		P		Y
119	0-28	hc1	10YR42 00					0	0	HR	1				
	28-70	hc1	10YR44 54					0	0		0		M		
	70-80	c	10YR54 44					0	0		0		M		
	80-120	c	10YR53 00 75YR56 00 C					00MN00 00 Y	0	0	0		P		
120	0-27	mc1	10YR42 00					0	0	HR	2				
	27-55	hc1	10YR54 00					0	0		0		M		
	55-90	c	10YR54 62 10YR58 00 C					Y	0	0	0		P		Y
	90-120	c	10YR54 00					Y	0	0	0		P		Y

SAMPLE	DEPTH	TEXTURE	COLOUR	-----MOTTLES-----			PED COL.	-----STONES-----			STRUCT/ CONSIST	SUBS STR	POR	IMP	SPL	CALC
				COL	ABUN	CONT		GLE	>2	>6						
121	0-26	mc1	10YR42 00					0	0	HR	2					
	26-45	mc1	10YR44 54					0	0		0	M				
	45-75	hc1	10YR54 00					0	0		0	M				
	75-120	hc1	10YR54 00	10YR62	00	F		0	0		0	M				
122	0-33	mzc1	10YR43 00					0	0		0					
	33-65	hc1	10YR44 00					0	0		0	M				
	65-80	c	75YR56 00	00MN00	00	F		0	0	HR	5	M				
	80-82	hc1	25 Y62 00	75YR68	00	M		Y	0	0	HR	10	M			IMP 82+ STONES
123	0-28	hc1	10YR43 00					0	0		0					
	28-50	c	10YR44 00					0	0		0	M				
	50-60	hc1	10YR54 00					0	0		0	M				
	60-75	hc1	10YR53 54	75YR56	00	M		Y	0	0	0	M				
	75-120	hc1	75YR54 00					Y	0	0	0	M				
124	0-32	mzc1	10YR42 00					0	0	HR	1					
	32-120	mc1	10YR43 53					0	0	HR	1	M				
125	0-28	mc1	10YR42 00					16	0	HR	21					
	28-65	hc1	10YR54 00					0	0	HR	20	M				
	65-70	c	10YR68 00	75YR58	00	C		0	0		0	M				
	70-120	c	25Y 64 00	75YR58	00	M		Y	0	0	0	P			Y	
126	0-29	mc1	10YR32 00					0	0		0					
	29-50	mc1	10YR44 54					0	0	HR	2	M				Y
	50-88	mzc1	75YR56 00					0	0		0	M				Y
	88-120	hzc1	75YR64 66	05YR58	00	C	10YR63	00	Y	0	0	M				
127	0-28	hc1	10YR42 00					0	0	HR	1					
	28-45	c	25Y 64 00	75YR56	00	C		Y	0	0	0	M				
	45-60	c	25Y 63 00	75YR58	00	M		Y	0	0	0	P			Y	
128	0-26	mc1	10YR32 42					0	0	HR	2					
	26-65	hc1	10YR54 00					0	0		0	M				
	65-90	c	10YR54 00	10YR56	62	F		0	0		0	M				
	90-120	c	10YR54 62	75YR56	00	C		Y	0	0	0	P				
129	0-28	mzc1	10YR42 00					0	0	HR	2					
	28-65	hc1	10YR54 00					0	0		0	M				
	65-120	c	10YR54 00	10YR62	00	F		0	0		0	M				
130	0-30	mc1	10YR43 00					0	0		0					
	30-45	hc1	10YR44 54					0	0		0	M				
	45-70	c	75YR56 00					0	0		0	M				
	70-120	c	10YR54 53	75YR58	00	C	10YR62	00	Y	0	0	P			Y	
131	0-27	mzc1	10YR42 00					0	0	HR	1					
	27-62	hc1	10YR44 46					0	0		0	M				
	62-90	hc1	10YR64 00	10YR56	00	C		Y	0	0	0	M				
	90-120	hc1	10YR44 46					Y	0	0	0	M				

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED COL.	----STONES----			STRUCT/ CONSIST	SUBS STR POR IMP SPL CALC
				COL	ABUN	CONT		GLE	>2	>6		
132	0-28	mc1	10YR42 00					0	0	HR	2	
	28-100	mc1	10YR54 44					0	0	HR	6	M IMP 100+ STONES
134	0-25	mc1	10YR43 00					0	0	HR	1	
	25-90	hc1	75YR46 00					0	0		0	M
	90-120	mc1	75YR46 00					0	0		0	M
135	0-27	mc1	10YR42 00					0	0	HR	2	
	27-55	hc1	10YR54 00					0	0		0	M
	55-70	hc1	10YR53 62	10YR56	66	F		0	0		0	M
	70-120	c	10YR62 53	10YR58	00	C		Y	0	0	0	P Y
136	0-33	mc1	10YR42 00					0	0	HR	2	
	33-45	c	10YR54 00					0	0		0	M
	45-120	c	10YR54 62	10YR56	58	C		Y	0	0	0	P Y
137	0-30	mc1	10YR43 00					0	0	HR	2	
	30-50	mc1	10YR54 00					0	0	HR	2	M
	50-120	hc1	75YR56 00					0	0		0	M Y
138	0-30	mzc1	10YR43 00					0	0	HR	3	
	30-55	mc1	10YR44 00					0	0	HR	4	M
	55-60	mc1	10YR44 00					0	0	HR	20	M IMP 60+ STONES
140	0-28	mc1	10YR42 00					0	0	HR	3	
	28-40	c	10YR56 00					0	0	HR	3	M
	40-60	hc1	10YR56 00	10YR58	00	F		0	0	HR	5	M IMP 60+ STONES
141	0-28	mc1	10YR43 00					0	0	HR	1	
	28-120	hc1	75YR46 56					0	0	HR	1	M
142	0-25	mc1	10YR42 00					0	0	HR	2	
	25-55	hc1	10YR44 54	10YR58	00	F		0	0		0	M
	55-120	c	10YR54 62	10YR56	00	C		Y	0	0	0	P Y
143	0-29	mc1	10YR43 00					0	0	HR	1	
	29-120	hc1	10YR44 54					0	0		0	M Y
145	0-35	mc1	10YR42 00					0	0	HR	1	
	35-65	mc1	10YR56 46					0	0		0	M
	65-80	hc1	10YR64 00	10YR56	00	C		Y	0	0	0	M
	80-120	c	10YR54 00	10YR56	00	C	00M00	00	Y	0	0	0 P
146	0-29	mc1	10YR42 00					0	0	HR	1	
	29-42	hc1	10YR44 00					0	0	HR	2	M
	42-90	hc1	10YR64 00	10YR56	00	C		Y	0	0	HR	5 M IMP 90+ STONES
147	0-30	mc1	10YR42 00					0	0		0	
	30-75	hc1	75YR54 00					0	0		0	M
	75-120	mc1	75YR54 00					0	0		0	M

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----			STRUCT/ CONSIST	SUBS				
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL
148	0-30	mzc1	10YR42 00						0	0	HR	1					
	30-120	mc1	10YR43 00						0	0	HR	4	M				
149	0-35	mc1	10YR42 00						0	0		0					Y
	35-65	hc1	10YR44 00						0	0		0	M				Y
	65-75	c	75YR56 00						0	0		0	M				Y
	75-100	c	75YR56 00	75YR58 00 C			10YR63 00		0	0		0	M			Y	Y
150A	0-30	mc1	10YR42 00						0	0		0					Y
	30-40	mc1	10YR64 00						0	0	CH	5	M				Y
	40-50	mc1	10YR64 00						0	0	CH	50	M				Y
	50-75	ch							0	0		0	M				Y
151	0-28	mc1	10YR32 42						0	0	HR	3					
	28-60	c	10YR56 00						0	0		0	M				
	60-80	c	10YR54 00						0	0	HR	5	M				
	80-100	c	10YR54 00						0	0		0	M				
	100-120	c	10YR44 00				00MNO0 00		0	0		0	P				
152	0-28	mc1	10YR42 00						0	0	HR	2					
	28-50	mc1	10YR54 00						0	0	HR	5	M				IMP 50+ STONES
153	0-28	mc1	10YR42 00						0	0	HR	1					
	28-45	hc1	10YR54 00						0	0		0	M				
	45-55	c	10YR54 00						0	0		0	M				
	55-90	c	10YR54 00	000C00 00 F					0	0	HR	5	M				
	90-120	hc1	10YR54 00						0	0		0	M				
154	0-30	mzc1	10YR32 00						1	0	HR	3					
	30-120	hzc1	10YR44 54						0	0		0	M				
155	0-25	mzc1	10YR32 00						1	0	HR	3					
	25-58	mzc1	10YR43 00						0	0		0	M				
	58-120	hzc1	10YR44 46						0	0		0	M				
156	0-25	mzc1	10YR31 32						1	0	HR	3					Y
	25-45	mzc1	10YR42 00						0	0	CH	2	M				Y
	45-65	hzc1	10YR42 00						0	0	CH	1	M				Y
	65-120	zc	10YR43 00						0	0	CH	2	M				
157	0-28	mzc1	10YR42 00						0	0		0					
	28-55	mzc1	10YR43 00						0	0		0	M				
	55-70	hzc1	10YR44 00						0	0		0	M				
	70-120	hzc1	10YR44 54						0	0		0	M				
158	0-32	mzc1	10YR32 00						0	0	HR	2					
	32-50	mzc1	10YR43 00						0	0		0	M				
	50-85	hzc1	10YR44 00						0	0		0	M				
	85-120	mzc1	10YR52 00	10YR56 00 C				Y	0	0		0	M				

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----			STRUCT/ CONSIST	SUBS					
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL	CALC
159	0-23	mzc1	10YR32 00						0	0	HR	3						
	23-120	mzc1	10YR43 00						0	0	CH	1		M				
160	0-20	mzc1	10YR32 00						0	0	HR	2						Y
	20-47	mzc1	10YR43 00						0	0		0		M				
	47-120	mzc1	10YR44 00						0	0	CH	2		M				
161	0-25	mzc1	10YR32 00						0	0	HR	2						
	25-45	mzc1	10YR42 00						0	0	CH	10		M				
	45-80	mzc1	10YR53 00						0	0	CH	2		M				
	80-120	hzc1	10YR53 00	10YR56 00	F				0	0		0		M				
162	0-23	mzc1	10YR32 00						0	0	HR	1						
	23-35	mzc1	10YR53 00	10YR56 00	F				0	0		0		M				
	35-85	hzc1	25Y 61 00	10YR58 00	C			Y	0	0		0		M				
	85-120	mzc1	10YR52 00	10YR56 00	C			Y	0	0		0		M				
163	0-28	mc1	10YR42 00						0	0	HR	2						
	28-45	mzc1	10YR53 00						0	0		0		M				
	45-80	hzc1	25Y 62 00	10YR58 00	M			Y	0	0		0		M				
	80-120	hzc1	05Y 52 00	10YR56 00	M			Y	0	0		0		M				
164	0-30	mzc1	10YR42 00						1	0	HR	2						
	30-48	mzc1	10YR44 00						0	0		0		M				
	48-85	hzc1	10YR46 56						0	0		0		M				
	85-120	hzc1	10YR56 00						0	0		0		M				
165	0-29	mzc1	10YR42 00						0	0	HR	2						
	29-120	mzc1	10YR44 00						0	0	HR	2		M				
166	0-27	mzc1	10YR42 00						0	0	HR	1						
	27-80	mzc1	10YR44 00						0	0	HR	1		M				
	80-120	hzc1	10YR44 00						0	0		0		M				
167	0-35	mzc1	10YR42 00						0	0	HR	1						Y
	35-120	mzc1	10YR44 00						0	0		0		M				
168	0-25	mzc1	10YR42 00						0	0	HR	1						
	25-46	mzc1	10YR44 00						0	0	HR	1		M				
	46-120	hzc1	10YR44 00						0	0		0		M				
169	0-24	mzc1	10YR42 00						0	0	HR	2						
	24-57	mzc1	10YR53 00	10YR56 00	M			Y	0	0		0		M				
	57-90	mzc1	25Y 62 00	10YR56 00	C			Y	0	0		0		M				
	90-120	hzc1	05Y 62 00	10YR56 00	C			Y	0	0		0		M				
170	0-22	mzc1	10YR42 00						0	0	HR	2						Y
	22-55	mzc1	10YR53 63	10YR56 00	C			Y	0	0		0		M				
	55-75	mzc1	25Y 62 00	10YR56 00	C			Y	0	0		0		M				
	75-120	hzc1	25Y 62 00	10YR58 00	M			Y	0	0		0		M				

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED		----STONES----			STRUCT/ CONSIST	SUBS						
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL	CALC	
171	0-28	mzc1	10YR42 00						0	0	CH	2							Y
	28-85	mzc1	10YR53 00	10YR66	62	M		Y	0	0		0		M					
	85-120	hzc1	25Y 52 62	10YR56	00	M		Y	0	0		0		M					
172	0-28	mzc1	10YR32 42						0	0	HR	2							
	28-48	mzc1	10YR53 00						0	0		0		M					
	48-85	hzc1	10YR62 00	10YR56	00	C		Y	0	0		0		M					
	85-120	hzc1	25Y 62 00	10YR58	00	C		Y	0	0		0		M					
173	0-35	mzc1	10YR42 00						0	0	HR	1							
	35-120	mzc1	10YR54 44						0	0		0		M					
174	0-30	mzc1	10YR42 00						0	0	HR	2							
	30-50	mzc1	10YR43 00						0	0		0		M					
	50-80	mzc1	10YR54 56	10YR62	00	F	10YR56 00		0	0		0		M					
	80-120	mzc1	10YR54 00						0	0		0		M					
175	0-35	mzc1	10YR42 00						0	0	HR	1							
	35-120	mzc1	10YR54 00						0	0		0		M					
176	0-30	mc1	10YR42 00						2	0	HR	3							Y
	30-45	mzc1	10YR44 00						0	0	HR	2		M					Y
	45-120	hzc1	10YR54 00						0	0		0		M					
177	0-29	mzc1	10YR42 00						0	0		0							
	29-120	hzc1	10YR44 66						0	0		0		M					
178	0-25	mzc1	10YR42-00						0	0		0							
	25-46	mzc1	10YR44-00						0	0		0		M					
	46-120	hzc1	10YR44-00						0	0		0		M					
179	0-44	mzc1	10YR42 00						0	0	HR	1							
	44-120	mzc1	10YR44 00						0	0	HR	1		M					
180	0-30	mc1	10YR42 00						0	0	HR	1							
	30-60	hc1	10YR54 56						0	0	HR	1		M					
	60-70	hc1	25Y 64 53	75YR56	00	F		Y	0	0		0		M					
	70-120	hc1	25Y 64 53	75YR56	00	C		Y	0	0		0		M					
181	0-25	mc1	10YR42 00						0	0	HR	1							
	25-35	hc1	10YR42 00						0	0		0		M					
	35-40	c	25Y 64 00	75YR56	00	C		Y	0	0		0		M					
	40-120	c	25Y 63 64	75YR56	58	M		Y	0	0		0		P					Y
182	0-25	mc1	10YR42 00						0	0	HR	1							
	25-55	hc1	10YR42 00						0	0	HR	1		M					
	55-60	hc1	10YR42 00	75YR56	00	C		Y	0	0		0		M					
	60-120	c	25Y 64 63	75YR56	58	M		Y	0	0		0		P					Y

SAMPLE	DEPTH	TEXTURE	COLOUR	-----MOTTLES-----			PED		-----STONES-----			STRUCT/ CONSIST	SUBS				
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL
184	0-28	mc1	10YR42 00						0	0	HR	1					
	28-45	mc1	10YR53 00						0	0		0		M			
	45-65	c	10YR63 00	000C00	00	M			0	0		0		M			
	65-100	c	10YR63 00	000C00	00	M		Y	0	0		0		P	Y		
185	0-25	mzc1	10YR42 00						0	0	HR	1					
	25-45	mc1	10YR54 44						0	0		0		M			
	45-65	hc1	10YR54 44						0	0		0		M			
	65-75	hc1	10YR54 44	000C00	00	F			0	0		0		M			
	75-80	hc1	10YR64 44	000C00	00	C		Y	0	0		0		M			
	80-90	c	10YR64 44	000C00	00	M		Y	0	0		0		P			
	90-120	mzc1	10YR64 44	000C00	00	F		Y	0	0		0		M			
186	0-30	mzc1	10YR42 00						0	0	HR	1					
	30-65	hc1	10YR54 00						0	0		0		M			
	65-120	hc1	10YR54 00	000C00	00	F			0	0		0		M			
187	0-35	mzc1	10YR42 00						0	0	HR	1					
	35-120	mc1	10YR54 43						0	0		0		M			
188	0-25	mc1	10YR42 00						0	0	HR	1					
	25-70	mc1	10YR54 00						0	0		0		M			
	70-120	hc1	10YR54 00	000C00	00	C			0	0		0		M			
189	0-31	mzc1	10YR42 00						1	0	HR	3					
	31-50	mzc1	10YR43 00						0	0	HR	1		M			
	50-65	hzc1	10YR44 00						0	0	HR	5		M			
	65-88	c	10YR46 00						0	0	HR	5		M			IMP 88+ STONES
190	0-33	mzc1	10YR32 42						0	0	HR	2					
	33-55	mzc1	10YR43 00						0	0		0		M			
	55-120	hzc1	10YR52 53	10YR56	00	F			0	0		0		M			
191	0-25	mzc1	10YR42 00						0	0	HR	1					
	25-45	mzc1	10YR44 00						0	0	HR	1		M			
	45-120	hzc1	10YR44 00						0	0	HR	1		M			
192	0-38	mzc1	10YR42 00						0	0	HR	1					
	38-120	mzc1	10YR44 00						0	0		0		M			
193	0-35	mc1	10YR42 00						0	0	HR	1					
	35-120	hc1	75YR54 00						0	0	HR	1		M			
194	0-25	mc1	10YR42 00						0	0	HR	1					
	25-70	mc1	10YR54 00						0	0		0		M			
	70-120	mzc1	10YR54 00						0	0		0		M			
195	0-28	mc1	10YR42 00	000C00	00	C			0	0	HR	1					
	28-50	mc1	10YR53 00					Y	0	0		0		M			
	50-90	c	25Y 53 00	000C00	00	M		Y	0	0		0		P			Y

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES----			STRUCT/ CONSIST	SUBS						
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	IMP	SPL	CALC	
196	0-25	mc1	10YR43 00						0	0	HR	1							
	25-45	hc1	10YR54 00	000C00	00	F			0	0		0		M					
	45-60	c	25Y 63 00	000C00	00	M		Y	0	0		0		M					
	60-80	c	25Y 63 00	000C00	00	M		Y	0	0		0		P				Y	
197	0-28	mc1	10YR42 00	000C00	00	C		Y	0	0	HR	1							
	28-70	hc1	75YR53 00	000C00	00	M		Y	0	0		0		M					
	70-90	c	25Y 63 00	000C00	00	M		Y	0	0		0		P				Y	
198	0-29	mc1	10YR42 00						0	0	HR	2							
	29-38	mzc1	10YR54 00						0	0		0		M					
	38-65	mzc1	10YR52 00	10YR56	00	M		Y	0	0		0		M					
	65-120	hzc1	25Y 62 00	10YR58	00	M		Y	0	0		0		M					
199	0-25	mzc1	10YR32 42						0	0	HR	2							
	25-55	mzc1	10YR44 00						0	0		0		M					
	55-120	hzc1	10YR44 54						0	0		0		M					
200	0-25	mzc1	10YR42 00						0	0	HR	1							
	25-75	hc1	10YR54 00						0	0		0		M					
	75-120	c	10YR54 64	000C00	00	F			0	0		0		M					
201	0-25	mzc1	10YR32 00						0	0	HR	1							
	25-80	mc1	10YR54 00						0	0		0		M					
	80-120	mc1	10YR54 00	000C00	00	F			0	0		0		M					
202	0-25	mzc1	10YR68 00						0	0		0							Y
	25-120	hc1	10YR53 00						0	0		0		M					
203	0-27	mzc1	10YR42 00						0	0		0							
	27-68	mzc1	10YR44 54						0	0		0		M					IMP 68+ STONES
204	0-29	mzc1	10YR42 00						0	0	HR	1							
	29-120	hzc1	10YR44 46						0	0		0		M					
205	0-35	mzc1	10YR42 00						0	0	HR	1							
	35-50	mzc1	10YR44 46						0	0	HR	1		M					
	50-120	hzc1	10YR44 46						0	0		0		M					
206	0-34	mzc1	10YR42 00						0	0	HR	1							
	34-90	mzc1	10YR44 00						0	0	HR	1		M					
	90-120	hzc1	10YR44 00						0	0		0		M					
207	0-35	mzc1	10YR42 00						0	0	HR	1							
	35-45	mzc1	75YR54 00						0	0		0		M					
	45-60	hzc1	75YR54 00						0	0		0		M					
	60-65	mzc1	75YR54 00						0	0		0		M					
	65-80	hzc1	75YR54 00						0	0		0		M					
	80-120	mzc1	75YR54 00						0	0		0		M					

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----			STRUCT/ CONSIST	SUBS			SPL	CALC
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR		
208	0-35	mzc1	10YR42 43						0	0	HR	1					
	35-55	mzc1	75YR54 00						0	0		0			M		
	55-120	hzc1	75YR54 00	000C00	00	F	00MN00	00	0	0		0			M		
209	0-28	mc1	10YR42 00						0	0	HR	1					
	28-42	mzc1	75YR54 00	000C00	00	F			0	0		0			M		
	42-120	hc1	75YR53 00	000C00	00	F			0	0		0			M		
210	0-30	mc1	10YR42 00	000C00	00	F			0	0	HR	1					
	30-50	mzc1	10YR54 00						0	0		0			M		
	50-120	hc1	10YR54 00						0	0		0			M		
211	0-30	mc1	10YR42 00	000C00	00	F			0	0		0					
	30-70	mc1	10YR54 00						0	0		0			M		
	70-120	hc1	75YR53 00	000C00	00	C		Y	0	0		0			M		
212	0-25	mc1	10YR53 00						0	0	HR	1					
	25-65	mc1	75YR54 00						0	0		0			M		
	65-120	hc1	75YR54 00	000C00	00	F			0	0		0			M		
213	0-30	mzc1	10YR32 00	00MN00	00	C			0	0	HR	1					
	30-120	mc1	10YR54 00						0	0		0			M		
214	0-27	mzc1	10YR42 00						0	0	HR	1					
	27-120	mc1	10YR54 43						0	0		0			M		
215	0-25	mc1	10YR42 00						0	0	HR	1					
	25-35	hc1	10YR54 43						0	0		0			M		
	35-120	mc1	10YR54 43						0	0		0			M		
216	0-32	mc1	10YR42 00						0	0	HR	1					Y
	32-42	hc1	10YR54 00						0	0	CH	2		M			Y
	42-48	hc1	10YR42 00						0	0	CH	50		M			Y
	48-78	ch							0	0	HR	1		M			Y
217	0-30	mzc1	10YR42 00						0	0	HR	1					
	30-45	hc1	10YR54 00						0	0	CH	10		M			
	45-75	ch							0	0		0		M			
218	0-18	mzc1	10YR42 00						0	0		0					
	18-50	hzc1	10YR44 54						0	0		0		M			
	50-55	hzc1	10YR54 81						0	0	CH	50		P		Y	IMP 58+ CHALK
219	0-35	mzc1	10YR42 00						0	0	HR	1					
	35-120	hzc1	10YR44 46						0	0		0		M			
220	0-34	mzc1	10YR42 00						0	0	HR	1					
	34-50	mzc1	10YR44 46						0	0		0		M			
	50-90	hzc1	10YR44 46						0	0		0		M			
	90-120	mzc1	10YR44 46						0	0		0		M			

SAMPLE	DEPTH	TEXTURE	COLOUR	-----MOTTLES-----			PED		-----STONES-----			STRUCT/ CONSIST	SUBS			SPL	CALC
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR		
221	0-25	z1	10YR42 00						0	0	HR	1					
	25-95	mzc1	75YR54 00						0	0		0		M			
	95-120	hzc1	75YR54 00						0	0		0		M			
222	0-35	mzc1	10YR42 00						0	0	HR	1					
	35-70	mzc1	75YR54 00						0	0		0		M			
	70-120	hzc1	75YR54 00	000C00	00	F			0	0		0		M			
223	0-35	z1	10YR42 00						0	0	HR	1					
	35-45	mzc1	75YR54 00						0	0		0		M			
	45-60	hzc1	75YR54 00	000C00	00	F	00MN00	00	0	0		0		M			
	60-80	mzc1	75YR54 00						0	0		0		M			
	80-120	hzc1	75YR54 00	75YR56	00	F	00MN00	00	0	0		0		M			
224	0-35	z1	10YR42 00						0	0	HR	1					
	35-65	mzc1	75YR54 00						0	0		0		M			
	65-120	hzc1	75YR54 00				00MN00	00	0	0		0		M			
225	0-35	mzc1	10YR42 00						0	0	HR	1					
	35-40	mzc1	75YR54 00						0	0		0		M			
	40-120	hzc1	75YR54 00	000C00	00	F	00MN00	00	0	0		0		M			
226	0-30	mzc1	10YR42 43						0	0	HR	1					
	30-55	mzc1	75YR54 00						0	0		0		M			
	55-120	hzc1	75YR54 00				00MN00	00	0	0		0		M			
227	0-30	mzc1	10YR42 43						0	0	HR	1					
	30-70	mzc1	75YR54 00						0	0		0		M			
	70-120	hzc1	75YR54 00						0	0		0		M			
228	0-32	mzc1	10YR43 00						0	0		0					
	32-45	mzc1	10YR44 00						0	0		0		M			Y
	45-75	hzc1	10YR44 00						0	0		0		M			Y
	75-120	zc	75YR46 00	00MN00	00	F			0	0		0		M			Y
229	0-34	mzc1	10YR42 00						0	0	HR	1					
	34-120	mzc1	75YR54 00						0	0		0		M			
230	0-30	mc1	10YR42 00						0	0	HR	2					Y
	30-85	mzc1	75YR54 00						0	0	HR	1		M			Y
	85-120	hzc1	75YR54 00						0	0	HR	2		M			Y
231	0-25	mc1	10YR42 00						0	0	CH	5					Y
	25-30	mc1	10YR42 00						0	0	CH	60		M			Y
	30-70	ch							0	0	HR	3		M			Y
232	0-30	mc1	10YR42 00						0	0	HR	1					
	30-45	hzc1	10YR54 00						0	0		0		M			
	45-60	hzc1	10YR54 81						0	0	CH	20		M			Y
	60-75	hzc1	10YR81 54						0	0	CH	60		P			Y

IMP 75+ CHALK

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----				STRUCT/ CONSIST	SUBS				
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH	TOT		STR	POR	IMP	SPL	CALC
233	0-35	mc1	10YR32 42						0	0	HR	2						
	35-62	mzc1	10YR43 00						0	0	HR	2		M				
	62-95	zc	75YR56 00						0	0		0		M				
	95-120	ch	10YR81 00						0	0		0		P				Y
234	0-23	mzc1	10YR42 00						0	0		0						
	23-40	mzc1	10YR43 00						0	0	HR	5		M				
	40-50	zc	10YR44 00						0	0	HR	2		M				IMP 50+ STONES
235	0-28	mzc1	10YR42 00						0	0		0						
	28-42	hzc1	10YR43 00						0	0	HR	5		M				
	42-58	zc	10YR46 56						0	0		0		M				IMP 58+ STONES
236	0-30	mzc1	10YR42 00						0	0	HR	1						
	30-90	hzc1	10YR44 46						0	0		0		M				
	90-120	zc	10YR44 56						0	0		0		M				
237	0-37	mzc1	10YR42 00						0	0	HR	1						
	37-70	mzc1	10YR44 46						0	0		0		M				
	70-120	hzc1	10YR44 46						0	0		0		M				
238	0-30	mc1	10YR42 00	000C00	00	F			0	0	HR	1						
	30-50	mc1	75YR54 00						0	0		0		M				
	50-80	c	25Y 53 00	000C00	00	C		Y	0	0	HR	1		P			Y	
	80-100	ch							0	0	HR	1		M				
239	0-30	mc1	10YR42 00						0	0	HR	1						
	30-47	mc1	10YR54 00						0	0		0		M				
	47-90	hc1	75YR54 00						0	0	HR	1		M				IMP 90+ STONES
240	0-30	mc1	10YR42 00	000C00	00	C		Y	0	0	HR	1						
	30-50	hc1	10YR53 00	000C00	00	C		Y	0	0		0		M				
	50-120	mc1	10YR53 00	000C00	00	C		Y	0	0		0		M				
241	0-29	mzc1	10YR43 00						0	0		0						
	29-110	hzc1	75YR56 00						0	0		0		M				
242	0-30	mzc1	10YR42 43						0	0	HR	1						
	30-70	mzc1	75YR54 00						0	0		0		M				
	70-120	hzc1	75YR54 00						0	0		0		M				
243	0-30	mzc1	10YR42 43						0	0	HR	1						
	30-45	mzc1	75YR54 00						0	0		0		M				
	45-90	hzc1	75YR54 00	000C00	00	F	00MN00	00	0	0		0		M				
	90-120	mzc1	75YR54 00						0	0		0		M				
244	0-30	mzc1	10YR42 00						0	0		0						Y
	30-65	mzc1	75YR46 00						0	0		0		M				Y
	65-100	hzc1	75YR46 00						0	0		0		M				Y

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES----				STRUCT/		SUBS		SPL	CALC
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP		
245	0-29	mzc1	10YR43 00						0	0	0							
	29-50	mzc1	10YR44 54						0	0	0			M				
	50-95	hzc1	10YR44 54						0	0	0			M				
	95-120	zc	10YR54 00						0	0	0			M				
246	0-29	mzc1	10YR42 00						0	0	0							
	29-70	mzc1	10YR44 00						0	0	0			M				Y
	70-100	hzc1	10YR44 00						0	0	0			M				Y
	100-120	mzc1	10YR54 00						0	0	0			M				Y
247	0-29	mc1	10YR42 00						0	0	0							Y
	29-52	hc1	10YR53 54						0	0	CH	2		M				Y
	52-90	hc1	10YR54 00						0	0	CH	80		P				Y
248	0-28	mc1	10YR42 00						0	0	0							Y
	28-35	hc1	10YR53 00						0	0	CH	10		M				Y
	35-75	ch							0	0	0			M				Y
249	0-35	mzc1	10YR42 00						0	0	HR	1						
	35-65	mzc1	10YR44 00						0	0	0			M				
	65-95	zc	75YR56 00						0	0	HR	5		M				
	95-120	hzc1	75YR54 00						0	0	HR	10		M				
250	0-32	mc1	10YR32 42						0	0	HR	1						
	32-60	mzc1	10YR43 00						0	0	0			M				
	60-95	hzc1	10YR54 00						0	0	0			M				
	95-120	zc	75YR54 00						0	0	0			M				
251	0-35	mzc1	10YR42 00						0	0	HR	3						
	35-54	hzc1	10YR44 46						0	0	HR	6		M				
	54-120	zc	10YR44 46				00MNOO 00		0	0	HR	6		M				
252	0-30	mzc1	10YR42 00						0	0	HR	1						
	30-62	hzc1	10YR44 46						0	0	0			M				
	62-120	c	10YR44 46	00MNOO 00			M		0	0	0			M				
253	0-30	z1	10YR43 00						0	0	0							
	30-60	mzc1	10YR44 00						0	0	0			M				
	60-70	hzc1	10YR64 00	75YR58 00	C		10YR63 00	Y	0	0	0			M				IMP 70+ STONES
254	0-27	mzc1	10YR43 00						0	0	0							
	27-45	mzc1	10YR44 00						0	0	0			M				
	45-110	hzc1	75YR56 58						0	0	0			M				
255	0-32	z1	10YR43 00						0	0	0							
	32-75	mzc1	10YR44 00						0	0	0			M				
	75-100	zc	75YR56 00	00MNOO 00	F				0	0	HR	2		M				

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES-----			STRUCT/ CONSIST	SUBS			CALC
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR	
256	0-35	mzc1	10YR42 00						0	0	0					
	35-50	hc1	10YR53 00						0	0	HR	5		M		Y
	50-110	zc	75YR56 00						0	0	0			M		Y
257	0-32	z1	10YR42 00						0	0	0					Y
	32-100	mzc1	10YR44 00						0	0	0			M		Y
258	0-29	mzc1	10YR43 00						0	0	0					Y
	29-40	mzc1	10YR44 00						0	0	0			M		
	40-85	hzc1	10YR44 00						0	0	0			M		
	85-120	zc	75YR46 00						0	0	0			M		
259	0-30	mzc1	10YR42 00						0	0	HR	1				
	30-62	hzc1	10YR44 46						0	0	HR	8		M		
	62-80	c	10YR44 46						0	0	0			M		
	80-120	c	10YR44 46				00M00 00		0	0	0			P		
260	0-30	mzc1	10YR43 00						0	0	0					Y
	30-70	mzc1	10YR44 00						0	0	0			M		Y
	70-110	hzc1	75YR46 00						0	0	0			M		Y
262	0-40	mzc1	10YR42 00						0	0	0					
	40-52	hzc1	10YR44 56						0	0	HR	10		M		
	52-60	zc	75YR46 00	75YR56 00 C			00M00 00		0	0	HR	10		M		IMP 60+ STONES
263	0-29	z1	10YR43 00						0	0	0					
	29-120	hzc1	75YR56 00						0	0	0			M		
264	0-30	z1	10YR43 00						0	0	0					
	30-55	mzc1	75YR56 00						0	0	0			M		
	55-98	hzc1	75YR56 00						0	0	0			M		
	98-110	hzc1	75YR56 00						0	0	HR	2		M		
265	0-30	mzc1	10YR42 00						0	0	0					
	30-40	mzc1	10YR43 00						0	0	0			M		
	40-55	hzc1	10YR44 00						0	0	HR	2		M		
	55-78	zc	10YR44 00	00M00 00 F					0	0	HR	2		M		IMP 78+ STONES

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 1P

Grid Reference: TR15805560 Average Annual Rainfall : 705 mm
 Accumulated Temperature : 1457 degree days
 Field Capacity Level : 145 days
 Land Use : Cereals
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 31	ZL	10YR42 00	0	1		
31- 55	MZCL	75YR54 00	0	0		MDCSAB
55- 75	MZCL	75YR54 00	0	0		MDCAB
75-120	MZCL	75YR54 00	0	0		MDVCAB

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

Drought Grade : 1 APW : 173mm MBW : 57 mm
 APP : 137mm MBP : 26 mm

FINAL ALC GRADE : 1
 MAIN LIMITATION :

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 2P

Grid Reference: TR16505570 Average Annual Rainfall : 705 mm
Accumulated Temperature : 1457 degree days
Field Capacity Level : 145 days
Land Use : Bare Soil
Slope and Aspect : 01 degrees N

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 30	MCL	10YR42 00	0	0		
30- 45	HCL	10YR44 00	0	0	M	STCSAB
45- 65	C	25 Y62 00	0	0	M	STCOAB
65-120	C	25 Y62 00	0	0	M	WKVCAB

Wetness Grade : 3A Wetness Class : III
Gleying : 045 cm
SPL : 045 cm

Drought Grade : 2 APW : 134mm MBW : 18 mm
APP : 111mm MBP : 0 mm

FINAL ALC GRADE : 3A
MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 3P

Grid Reference: TR16805540 Average Annual Rainfall : 705 mm
 Accumulated Temperature : 1457 degree days
 Field Capacity Level : 145 days
 Land Use : Bare Soil
 Slope and Aspect : 02 degrees NW

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 30	MCL	10YR42 00	0	0		
30- 40	HCL	10YR53 54	0	15		MDCSAB
40- 55	HCL	10YR64 00	0	70		
55- 75	CH		0	10		

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

Drought Grade : 3A APW : 098mm MBW : -18 mm
 APP : 100mm MBP : -11 mm

FINAL ALC GRADE : 3A
 MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 4P

Grid Reference: TR16805680 Average Annual Rainfall : 705 mm
Accumulated Temperature : 1457 degree days
Field Capacity Level : 145 days
Land Use : Cereals
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 25	HCL	25Y 32 00	0	1		
25- 40	C	25Y 64 00	0	0	C	MDCAB
40- 65	C	25Y 52 00	0	0	M	MDCAB

Wetness Grade : 3B Wetness Class : IV
Gleying : 025 cm
SPL : 025 cm

Drought Grade : APW : 000mm MBW : 0 mm
APP : 000mm MBP : 0 mm

FINAL ALC GRADE : 3B
MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 5P

Grid Reference: TR17455670 Average Annual Rainfall : 705 mm
 Accumulated Temperature : 1457 degree days
 Field Capacity Level : 145 days
 Land Use : Cereals
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 28	FSZL	10YR42 43	0	5		
28- 48	MZCL	10YR43 00	0	7		MDCSAB
48- 60	HCL	10YR43 00	0	50		
60-120	HCL	10YR43 00	0	65		

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

Drought Grade : 3A APW : 120mm MBW : 2 mm
 APP : 107mm MBP : -7 mm

FINAL ALC GRADE : 3A
 MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 6P

Grid Reference: TR16405670 Average Annual Rainfall : 705 mm
 Accumulated Temperature : 1457 degree days
 Field Capacity Level : 145 days
 Land Use : Oilseed Rape
 Slope and Aspect : 02 degrees W

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 25	HCL	10YR4/1 4/2	0	0		
25- 42	MCL	2.5 Y5/2 5/3	0	0		MDCSAB
42- 55	HCL	2.5 Y5/3 0/0	0	0	C	MDCOAB
55- 75	C	0.5 Y6/1 0/0	0	0	M	STCOAB

Wetness Grade : 2 Wetness Class : II
 Gleying : 0.42 cm
 SPL : 0.55 cm

Drought Grade : APW : 0.00mm MBW : 0 mm
 APP : 0.00mm MBP : 0 mm

FINAL ALC GRADE : 2
 MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 7P

Grid Reference: TR16855650 Average Annual Rainfall : 705 mm
 Accumulated Temperature : 1457 degree days
 Field Capacity Level : 145 days
 Land Use : Fallow
 Slope and Aspect : 01 degrees NE

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 25	MCL	10YR32 42	0	1		
25- 60	HCL	10YR44 54	0	0		MDCAB
60- 80	C	75YR54 00	0	0		MDCSAB
80-120	C	10YR54 00	0	0		MDCAB

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

Drought Grade : 2 APW : 143mm MBW : 25 mm
 APP : 117mm MBP : 3 mm

FINAL ALC GRADE : 2
 MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 8P

Grid Reference: TR17155600 Average Annual Rainfall : 705 mm
 Accumulated Temperature : 1457 degree days
 Field Capacity Level : 145 days
 Land Use : Permanent Grass
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 28	MCL	10YR42 00	3	8		
28- 40	FSZL	10YR54 00	0	25		MDCAB
40- 46	FSZL	10YR53 00	0	55	F	
46- 60	C	75YR64 00	0	25	M	MDMDAB
60-120	C	10YR52 00	0	0	M	STCOAB

Wetness Grade : 2 Wetness Class : II
 Gleying : 046 cm
 SPL : 060 cm

Drought Grade : 3A APW : 123mm MBW : 5 mm
 APP : 099mm MBP : -15 mm

FINAL ALC GRADE : 3A
 MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LOCAL PLAN Pit Number : 10P

Grid Reference: TR17305720 Average Annual Rainfall : 705 mm
 Accumulated Temperature : 1457 degree days
 Field Capacity Level : 145 days
 Land Use : Bare Soil
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	MOTTLES	STRUCTURE
0- 30	SCL	25Y 42 00	0	2		
30- 42	MSL	25Y 53 54	0	0		MDCSAB
42- 65	SCL	25Y 64 54	0	0	M	MDCSAB
65-105	SC	05Y 73 00	0	0	M	MDCAB
105-120	FSL	05Y 73 00	0	0	M	MDCSAB

Wetness Grade : 2 Wetness Class : II
 Gleying : 042 cm
 SPL : 065 cm

Drought Grade : 2 APW : 150mm MBW : 31 mm
 APP : 113mm MBP : -2 mm

FINAL ALC GRADE : 2
 MAIN LIMITATION :