Tillbridge Solar

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PEI Report Volume II Appendix 14-2: Interim Agricultural Land Classification Survey

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AGRICULTURAL LAND CLASSIFICATION

Tillbridge Solar
Lincoln

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STATEMENT OF COMPETENCE

REFERENCES

GLOSSARY

1. INTRODUCTION

An Agricultural Land Classification (ALC) has been carried out on c.1210 ha of land south of the A631 between Harpswell and Springthorpe, Lincolnshire (Drawing 1). The site is centred on OS Grid Ref: 490718, 389374

The survey was conducted in September and October 2022 and classified the land into one or more of the below grades (see Drawing 1). On the survey dates, the site was predominantly in agricultural use.

1.1 Methodology

Agricultural land is classified into the following grades according to the 1988 guidelines[1].

Grade	Description
1	**Excellent quality agricultural land** with no or very minor limitations to agricultural use.
2	**Very good quality agricultural land** with minor limitations which affect crop yield, cultivation or harvesting.
3a 3b	**Good quality agricultural land** capable of producing moderate to high yields of a narrow range of arable crops or moderate yields of a wider range of crops. **Moderate quality agricultural land** capable of producing moderate yields of a narrow range of crops or lower yields of a wider range of crops.
4	**Poor quality agricultural land** with severe limitations which significantly restrict the range of crops and/or level of yields.
5	**Very poor quality agricultural land** with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

Best and Most Versatile (BMV) land covers Grades 1, 2 and 3a.

The classification includes an initial desktop investigation to examine previously mapped soil types and to note the drift and solid geology followed by the field survey consisting of auger borings at one every 100 m in general and a pit excavated in each of the main soil types to confirm the structures and stone content if needed. Laboratory analysis of soil textures is undertaken if needed in order to confirm textures such the *heavy/medium* clay and *medium/fine* sand categories or stone content. All site survey profile data is listed in Appendix A.

All of the potential limitations are assessed and then the most limiting factor dictating the ALC grade was determined for this site and is detailed in Table 2.

1.2 Previous ALC gradings

Grading on the MAFF (1983) 1: 250 000 provisional map indicated the site is mapped as Grade 3 land with Grade 2 bounding the east. No detailed surveys have previously been undertaken for the site.

2. CLIMATIC LIMITATIONS

2.1 Overall climate

The climatological data for the site centre is detailed in Table 1.

Table 1 **Climatological information[3]**		
Factor	**Units**	**Value**
Altitude AOD	m	25
Accumulated temperature	day°C (Jan-June)	1394.9
Average Annual Rainfall	mm	633.1
Field Capacity Days	days	133.6
Moisture Deficit Wheat	mm	108.5
Moisture Deficit Potatoes	mm	100.4
Overall climate ALC Grade	Grade 1	

2.2. Local climate

Local climate will not result in a significant limiting factor for this site.

3 SITE LIMITATIONS

3.1 Gradient

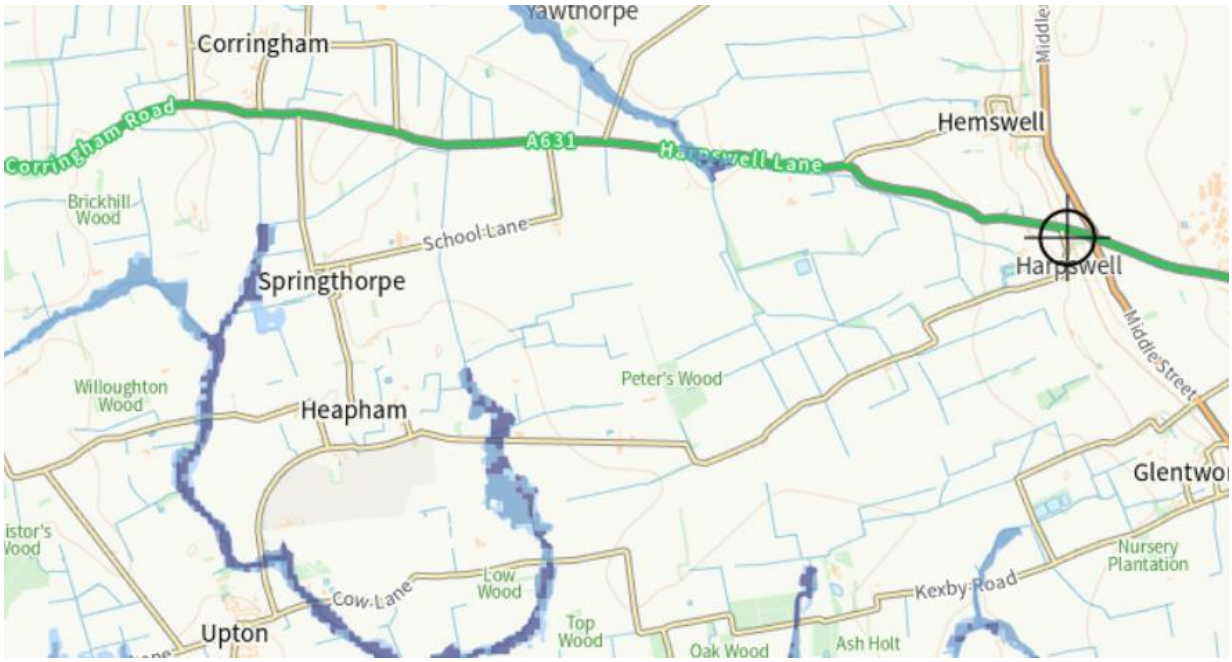
The gradient will not result in a significant limiting factor for the majority of the site with the exception of an area on the east of the site which would be limited to ALC Grade 3b.

3.2 Microrelief

The microrelief does not result in dips and hummocks and will not result in a significant limiting factor for this site.

3.3 Flooding

A very low or low risk of flooding from surface waters and rivers has been identified across the majority of the site (https://flood-warning-information.service.gov.uk/long-term-flood-risk). A medium to high risk in some small areas across the site.



Extent of flooding from rivers or the sea

High Medium Low Very low

4 SOIL LIMITATIONS

4.1 Texture and structure

The topsoil textures noted across the site were mainly heavy clay loams, clay and sandy clay loams in a few places (Table 1a) over heavy clay loam and clay subsoil. Subsoil structure was generally weak or moderate medium subangular blocky or coarse angular blocky over coarse prismatic. Most soils tested were non-calcareous with the exception of a few samples on the centre-north of the site.

Table 1a. Particle size distribution on samples taken from the observation points (Appendix A). For textural class see the Glossary.

Observation point	Percentages				Textural Class
	Sand	Silt	Clay	Total	
1220	38.45	23.15	38.39	100	C
1077	52.31	19.00	28.69	100	SCL
558	28.35	24.78	46.86	100	C
19	39.01	23.74	37.26	100	C
100	40.60	20.21	39.19	100	C
398	42.68	17.92	39.40	100	C
702	42.92	18.61	38.47	100	C
938	48.76	19.00	32.24	100.00	HCL
1347	23.72	26.68	49.59	100.00	C

Test method: BS1377 pipette method

Variation across the majority of the site was minimal and expected given the uniformity of the solid and superficial geology, the topography and the two main mapped soils being very similar in texture and drainage characteristics. An area on the north-east of the site (south of Hermitage Farm) was noted as being more variable.

The site has previously been mapped as having soils of the following Associations (www.landis.org.uk).:

- The Salop Association soils on the west of the site*: Slowly permeable seasonally waterlogged reddish fine loamy over clayey, fine loamy and clayey soils associated with fine loamy over clayey soils with slowly permeable subsoils and slight seasonal waterlogging.*

- The Beccles 1 Association soils on the north-west and east of the site*: Slowly permeable seasonally waterlogged fine loamy over clayey soils, associated with similar clayey soils*

- The Ragdale Association soils on a small area on the northern boundary: *Slowly permeable seasonally waterlogged clayey and fine loamy over clayey soils. Some slowly permeable calcareous clayey soils especially on slopes.*

- The Wigton Moor Association soils in the far east: *Permeable fine and coarse loamy soils variably affected by groundwater, the drier soils being on slightly raised sites. Generally flat land.*

Superficial Geology 1:50 000 scale superficial deposits description:

Majority of the site - Till, Mid Pleistocene – Diamicton

Alluvium - Clay, silt, sand and gravel- two small areas on the north of the site

Source: British Geological Survey

Bedrock Geology 1:50 000 scale bedrock geology description*:*

East of site - Charmouth Mudstone Formation - Mudstone.

West of site - Scunthorpe Mudstone Formation - Mudstone and limestone, interbedded.

Source: British Geological Survey

4.2 Depth

Soil depths are not shallow and will not result in a significant limiting factor for this site.

4.3 Stoniness

Stoniness is not a direct significant limiting factor for soils noted on site.

4.4 Chemical

Chemical contamination will not result in a significant limiting factor for this site.

5. INTERACTIVE LIMITATIONS

5.1 Wetness

The combination of a Wetness Class of III (See 1 Agricultural Land Classification of England and Wales. Revised guidelines and criteria for grading the quality of agricultural land. MAFF. 1988. Section 3.4) for the soils with Field Capacity Days of 133.6 and the topsoil texture of heavy clay loam, sandy clay, silt loam or clay results in an ALC Grade of 3b. In sandy clay loam topsoil or areas of calcareous topsoil, an ALC grade of 3a resulted. In soils with Wetness Class IV to the east, an ALC grade of 3b resulted due to the depth of the slowly permeable layer.

The main limitation associated with the site is wetness due to poor drainage caused by the presence of slowly permeable subsoil horizons. It should be noted that some individual borings gave rise to Grade 3a classification for wetness. However it is considered that this did not occur in sufficiently large enough areas (isolated boring locations) to warrant separate delineation. In some soils to the north, some soils were calcareous and also resulted in ALC grade 3a.

5.2. Droughtiness

The Available Water Capacity (water the plant can extract: water held by the soil matrix against gravity between field capacity and the permanent wilting point) which subsequently when considered with respect to the Moisture Deficit for wheat and potatoes resulted in no significant droughtiness limitation for soils on the site.

5.3 Erosion

Erosion will not result in a significant limiting factor for this site.

6. AGRICULTURAL LAND CLASSIFICATION

6.1 Most limiting factors

Grade 3b/3a land – Wetness Limitation

The combination of a Wetness Class of IV for the soils with Field Capacity Days of 133.6 and the topsoil texture of heavy clay loam, sandy clay, silt loam or clay results in an ALC Grade of 3b. In soils with Wetness Class IV to the east with silt loam topsoil, an ALC grade of 3b resulted.

6.2 Current grading

This survey has resulted in an Agricultural Land Classification of the following grades (Drawing 1):

Table 2. ALC gradings and limitations

Grade	ha	%	Limitation
1			
2			
3a	68	5.62	Wetness, droughtiness
3b	1142	94.38	Wetness and gradient
4			
5			
Non-agricultural land			
Total	1210	100%	

DRAWINGS 1-5

ALC Grade

Drawing 1: North west
Drawing 2: North east
Drawing 3: Central east
Drawing 4: South east
Drawing 5: South west

NB:
The observation point numbering on each map is sequential on the individual map and runs left to right and down the page. In addition, as points have been added during the survey these numbers are not sequential with the original on the map and hence have extras numbers added for clarity either side. Every number has not been written on the maps for clarity.

Other notes:

To be surveyed	– not yet assessed.
Point removed	– has been surveyed but later taken out of the proposal
Number omitted	- the number itself has not been used in the sequence.

Key

ALC Grades
- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non agricultural land

● **Boring**
■ **Pit**

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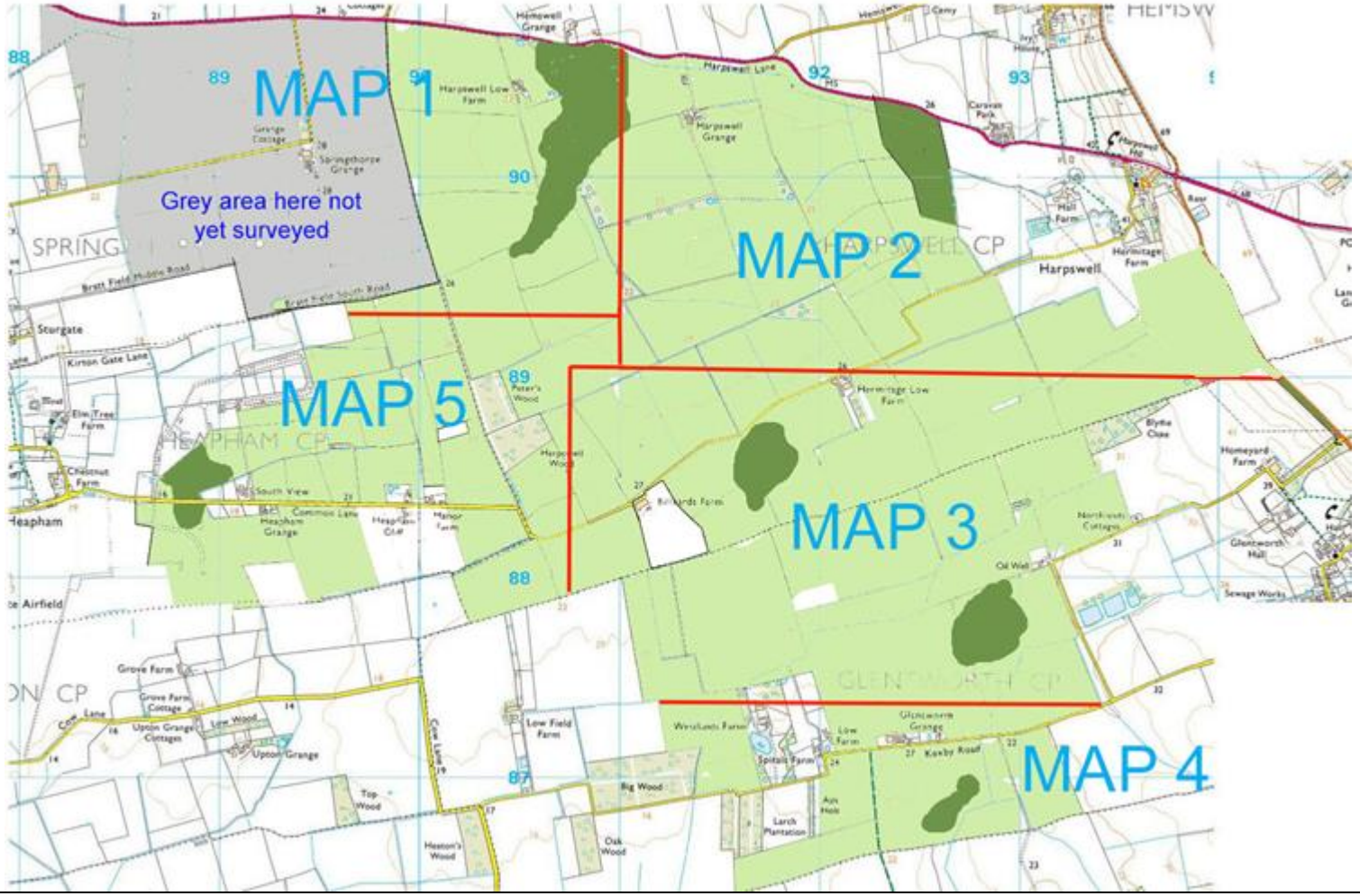
Soil Environment Services

Drawing Title: ALC Grade	Drawing No.: Ref 1
Scale: 1:133000	Date: 30/10/2022



Key

ALC Grades
- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non agricultural land

● Boring
■ Pit

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Soil Environment Services

Drawing Title: ALC Grade	Drawing No.: 1
Scale: 1:15000	Date: 30/10/2022

Key

ALC Grades
- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non agricultural land

● Boring
■ Pit

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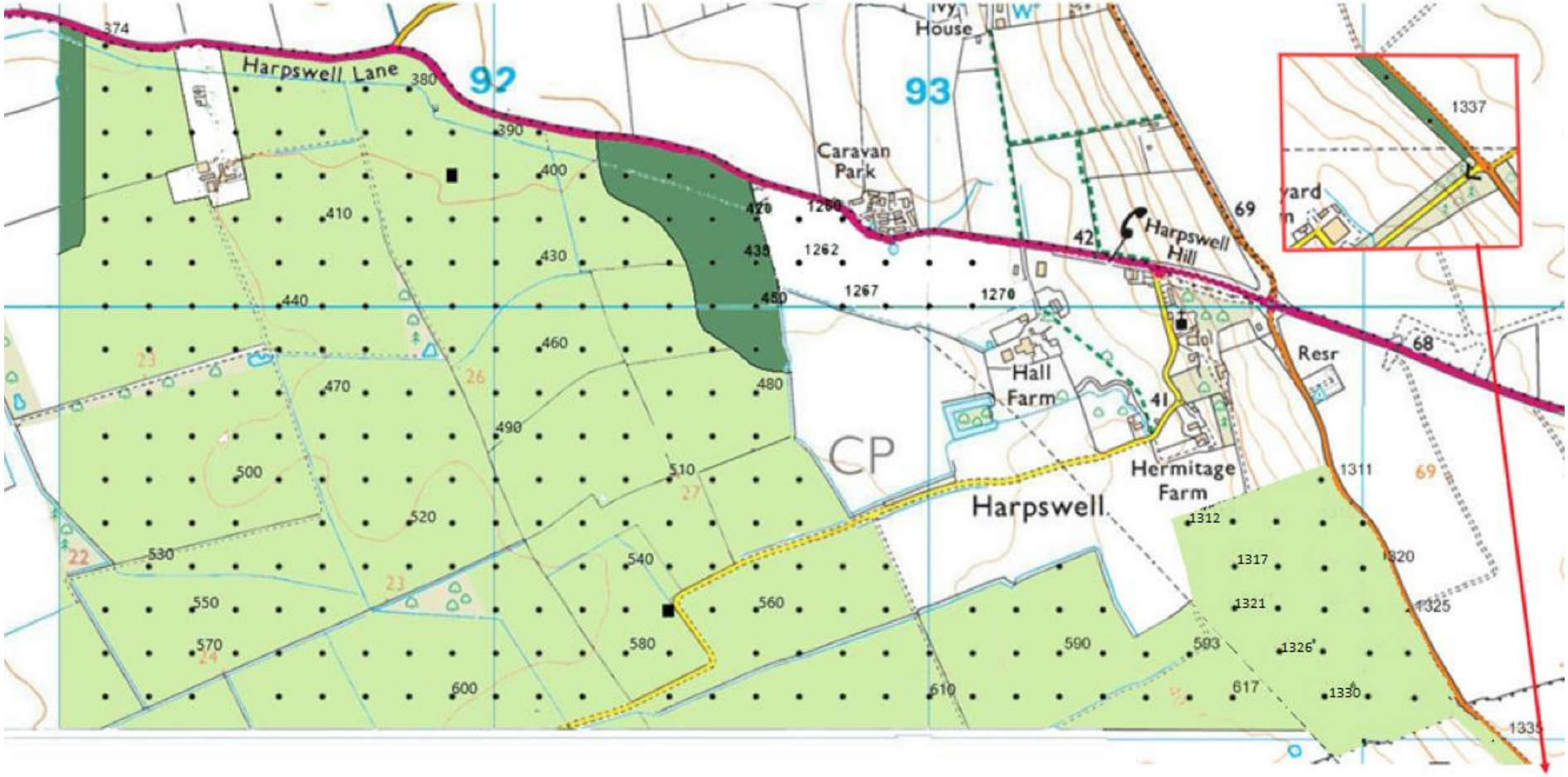
Soil Environment Services

Drawing Title: ALC Grade	Drawing No.: 2
Scale: 1:15000	Date: 30/10/2022



Key

ALC Grades
- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non agricultural land

● Boring
■ Pit

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Soil Environment Services

Drawing Title: ALC Grade	Drawing No.: 3
Scale: 1:15000	Date: 30/10/2022

Key

ALC Grades

- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non agricultural land

● Boring

■ Pit

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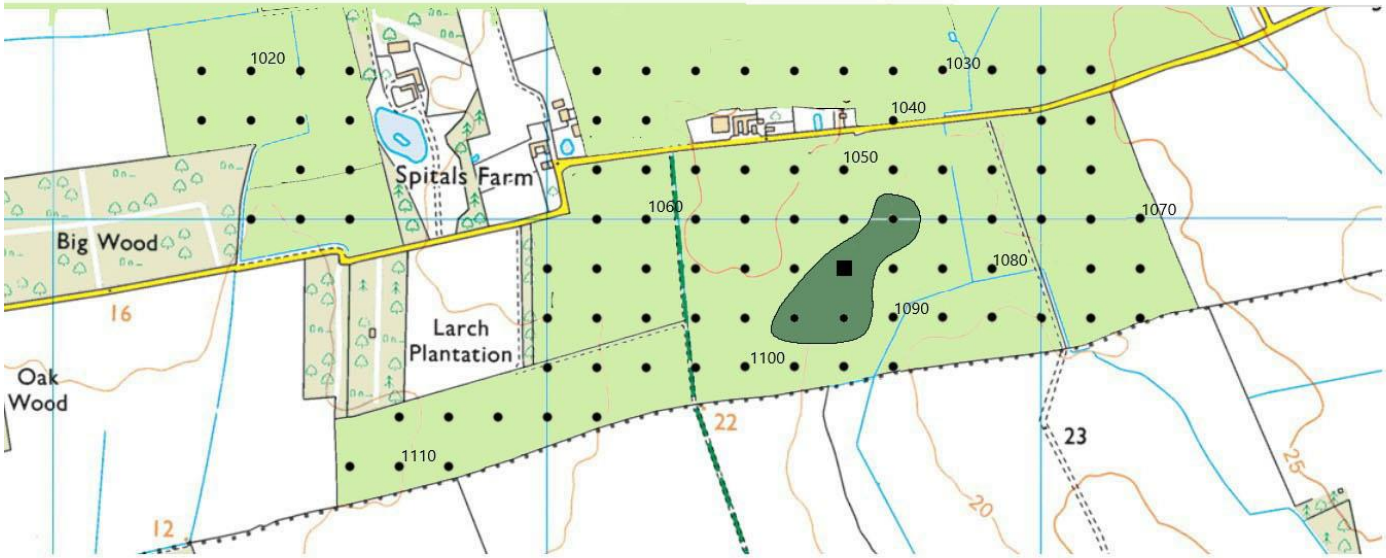
Soil Environment Services

Drawing Title: ALC Grade	Drawing No.: 4
Scale: 1:15000	Date: 30/10/2022



Key

ALC Grades
- Grade 1
- Grade 2
- Grade 3a
- Grade 3b
- Grade 4
- Grade 5
- Non agricultural land

● Boring
■ Pit

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Soil Environment Services

Drawing Title: ALC Grade	Drawing No.: 5
Scale: 1:15000	Date: 30/10/2022

APPENDIX A

Soil profile data

Notes

1 All abbreviations relating to soil parameters are standard and derived from the guidance documents:

Agricultural Land Classification of England and Wales. Revised guidelines and criteria for grading the quality of agricultural land. MAFF. 1988.
Soil Survey Field Handbook. Technical Monograph No.5. Soil Survey of England and Wales.1976.

2 The pit data is detailed in this table and information on structure and stone content copied to the appropriate boring profiles.

3 Any blanks or zeros in the cells indicate the data is not needed or appropriate for that cell.

4 If 'NA' is inserted in a cell the information is not appropriate on this occasion.

5. Boring or pit locations are directly (within 2 m accuracy) on the grid reference corresponding to the points on the map unless otherwise stated.

6 A point directly marked on a track, boundary or other feature will be moved 2-3 m off the point or omitted if surrounding points and soil types allow.

7. Borings that are potentially within 15 m of a gas pipeline are limited to 0.4 m depth and the strata description in the data table below this depth will be extrapolated from nearby borings and upper strata characteristics.

8. The *Observation Density* is 1 per ha on a 100 m grid using a semi *Free Survey* method if appropriate*. The letter 'B' in the second column of the data table refers to an observation point at which a boring may have been undertaken. In some situations it is not possible to visit the location due to for example crop status or animals in a field. In some cases the location is visited and observation of the soils at the surface is sufficient. In all cases the soil, geology, topography, flood risk and aerial crop patterns are assessed from published sources and the soils will be subject to a full 120 cm depth boring either side of a non-visited or non-bored point. If all data sources are agreeable, a soil pattern can be established.

* British Society of Soil Science. Working With Soil – The Professional Competency Scheme. Agricultural Land Classification: England and Wales. How2 sheet 4.2.4. 2018.

9. For moisture balance calculations, *strongly*, *moderately* and *well developed* structure will equate to *good*, *moderate* or *poor* structure terms respectively in Table 14 of the guidelines.

10. Pit information in addition to that listed in the table below will be detailed in Section 4.1 and 4.3 if needed.

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1													To be surveyed															
2													To be surveyed															
3													To be surveyed															
4													To be surveyed															
5													To be surveyed															
6													To be surveyed															
7													To be surveyed															
8													To be surveyed															
9													To be surveyed															
10													To be surveyed															
11													To be surveyed															
12													To be surveyed															
13													To be surveyed															
14													To be surveyed															
15													To be surveyed															
16													To be surveyed															
17													To be surveyed															
18													To be surveyed															
19		B	≤7	30		C	N	10YR41				10	HR				50	30	III	3b	17		1		17.44	2	3.77	2
				50		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
20		B	≤7	28		C	N	10YR41				5	HR				50	28	III	3b	17		1		19.50	2	5.83	2
				50		C		10YR53	20/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)
21		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
22		B	≤7	30		C	N	10YR41				10	HR				50	30	III	3b	17		1		17.44	2	3.77	2
				50		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
23		B	≤7	30		C	N	10YR41				5	HR				55	30	III	3b	17		1		19.84	2	6.17	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
24				To be surveyed																								
25				To be surveyed																								
26				To be surveyed																								
27				To be surveyed																								
28				To be surveyed																								
29				To be surveyed																								
30				To be surveyed																								
31				To be surveyed																								
32				To be surveyed																								
33				To be surveyed																								
34				To be surveyed																								
35				To be surveyed																								
36				To be surveyed																								
37				To be surveyed																								
38				To be surveyed																								
39		B	≤7	30		C	N	10YR41				10	HR				50	30	III	3b	17		1		17.44	2	3.77	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
40		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
41		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
42		B	≤7	28		C	N	10YR41				0					55	28	III	3b	17		1		27.85	2	13.24	1
				55		C		10YR63	15/28	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
43		B	≤7	28		C	N	10YR41				0					55	28	III	3b	17		1		26.01	2	11.22	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
44		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
45		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
46		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
47		B	≤7	30		HCL	Y	10YR42				0					55	30	III	3a	18		1		29.36	2	14.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
48		P	≤7	28		HCL	Y	10YR42				5	HR				55	28	III	3a	18		1		23.99	2	10.51	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
49		B	≤7	28		HCL	Y	10YR42				5	HR				55	28	III	3a	18		1		23.99	2	10.51	1
				55		C		7.5YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
50				To be surveyed																								
51				To be surveyed																								
52				To be surveyed																								
53				To be surveyed																								
54				To be surveyed																								
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57				To be surveyed																								
58				To be surveyed																								
59				To be surveyed																								
60				To be surveyed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
61				To be surveyed																								
62				To be surveyed																								
63				To be surveyed																								
64		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
65		B	≤7	28		C	N	10YR41				0					50	28	III	3b	17		1		27.66	2	12.87	1
				50		C		10YR63	15/28	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
66		B	≤7	28		C	N	10YR42				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
67		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
68		P	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR52	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
69		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR52	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
70		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
71		B	≤7	28		HCL	N	10YR41				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
72		B	≤7	30		C	Y	10YR42				0					55	30	III	3a	17		1		30.36	1	11.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
73		B	≤7	28		HCL	Y	10YR42				5	HR				55	28	III	3a	18		1		23.99	2	10.51	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
74		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		20.40	2	8.04	2
				55		C		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
75		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		21.30	2	8.04	2
				55		HCL		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
76				To be surveyed																								
77				To be surveyed																								
78				To be surveyed																								
79				To be surveyed																								
80				To be surveyed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
81				To be surveyed																								
82				To be surveyed																								
83				To be surveyed																								
84				To be surveyed																								
85				To be surveyed																								
86				To be surveyed																								
87				To be surveyed																								
88				To be surveyed																								
89				To be surveyed																								
90				To be surveyed																								
91		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
92		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	18		1		19.06	2	9.02	2
				55		C		10YR63	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
93		B	≤7	28		C	N	10YR41				0					50	28	III	3b	17		1		27.66	2	12.87	1
				50		C		10YR63	15/28	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
94		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		21.34	2	7.67	2
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
95		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		24.91	2	9.17	2
				55		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
96		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		27.76	2	12.02	1
				55		HCL		10YR52	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
97		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR52	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
98		B	≤7	30		HZCL	Y	10YR52				10	CH/MD				55	30	III	3a	19		1		22.84	2	9.17	2
				55		C		10YR53	20/30	10YR56		10	CH/MD	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
99		B	≤7	30		HZCL	Y	10YR52				5	CH/MD				55	30	III	3a	19		1		24.00	2	10.74	1
				55		HCL		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
100		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		19.56	2	6.17	2
				55		HCL		10YR53	15/30	10YR56		15	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought, WHEAT)	MBP	Grade (Drought, POTATOES)
101												To be surveyed																
102												To be surveyed																
103												To be surveyed																
104												To be surveyed																
105												To be surveyed																
106												To be surveyed																
107												To be surveyed																
108												To be surveyed																
109												To be surveyed																
110												To be surveyed																
111												To be surveyed																
112												To be surveyed																
113												To be surveyed																
114		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
115		B	≤7	30		C	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
116		B	≤7	28		C	N	10YR41				5	HR				50	30	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
117		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		21.34	2	7.67	2
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
118		B	≤7	25		HCL	N	10YR42				5	HR				55	25	III	3b	17		1		18.99	2	5.32	2
				55		C		10YR53	20/25	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
119		B	≤7	25		HCL	N	10YR41				5	HR				45	25	III	3b	18		1		25.86	2	11.07	1
				45		HCL		10YR52	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
120		B	≤7	28		HCL	N	10YR42				5	HR				45	28	III	3b	18		1		26.43	2	11.64	1
				45		C		10YR52	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
121		B	≤7	30		C	N	10YR41				0					55	30	III	3b	17		1		22.24	2	8.57	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
122		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
123		B	≤7	28		HCL	Y	10YR32				5	HR				55	28	III	3a	18		1		24.94	2	10.51	1
				55		HCL		10YR53	20/28	10YR56		5	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
124		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		20.40	2	8.04	2
				55		C		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
125		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		21.30	2	8.04	2
				55		HCL		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
126				To be surveyed																								
127				To be surveyed																								
128				To be surveyed																								
129				To be surveyed																								
130				To be surveyed																								
131				To be surveyed																								
132				To be surveyed																								
133				To be surveyed																								
134				To be surveyed																								
135				To be surveyed																								
136				To be surveyed																								
137				To be surveyed																								
138				To be surveyed																								
139				To be surveyed																								
140		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
141		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
142		B	≤7	30		C	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
143		B	≤7	28		C	N	10YR32				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
144		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
145		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
146		B	≤7	25		HCL	N	10YR41				5	HR				45	25	III	3b	18		1		25.86	2	11.07	1
				45		HCL		10YR52	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
147		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		18.71	2	6.17	2
				55		C		10YR53	15/30	10YR56		15	CH/MD	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
148		P	≤7	30		HZCL	Y	10YR42				5	HR				50	30	III	3a	19		1		24.41	2	11.87	1
				50		HCL		10YR53	15/30	10YR56		5	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
149		B	≤7	30		HZCL	Y	10YR43				10	HR				55	30	III	3a	19		1		23.74	2	9.17	2
				55		HCL		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
150		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		23.74	2	9.17	2
				55		HCL		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
151				To be surveyed																								
152				To be surveyed																								
153				To be surveyed																								
154				To be surveyed																								
155				To be surveyed																								
156				To be surveyed																								
157				To be surveyed																								
158				Point removed																								
159				Point removed																								
160				To be surveyed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
161				To be surveyed																								
162				To be surveyed																								
163				To be surveyed																								
164				To be surveyed																								
165		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
166		B	≤7	28		HZCL	N	10YR41				0					50	28	III	3b	169		1		451.61	1	436.82	1
				50		HCL		10YR63	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
167		B	≤7	28		C	N	10YR31				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
168		P	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		24.91	2	9.17	2
				55		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
169		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
170		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
171		B	≤7	28		HZCL	N	10YR41				5	HR				50	28	III	3b	169		1		428.09	1	413.30	1
				50		HCL		10YR63	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
172		B	≤7	30		HZCL	Y	10YR42				10	HR				55	30	III	3a	19		1		21.32	2	8.04	2
				55		HCL		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
173		B	≤7	30		HZCL	Y	10YR43				10	HR				55	30	III	3a	19		1		21.30	2	8.04	2
				55		HCL		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
174		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		22.47	2	8.04	2
				55		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
175				To be surveyed																								
176				Point removed																								
177				Point removed																								
178				Point removed																								
179				Point removed																								
180				Point removed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
181				Point removed																								
182				To be surveyed																								
183				To be surveyed																								
184				To be surveyed																								
185				To be surveyed																								
186				To be surveyed																								
187				To be surveyed																								
188				To be surveyed																								
189		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
190		B	≤7	30		C	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
191		B	≤7	28		C	N	10YR32				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
192		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		24.39	2	7.67	2
				50		C		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
193		B	≤7	25		HCL	N	10YR42				5	HR				55	25	III	3b	17		1		18.99	2	5.32	2
				55		C		10YR53	20/25	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
194		B	≤7	25		HCL	N	10YR41				5	HR				45	25	III	3b	18		1		25.86	2	11.07	1
				45		HCL		10YR52	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
195		B	≤7	25		HCL	N	10YR41				5	HR				45	25	III	3b	18		1		25.86	2	11.07	1
				45		HCL		10YR52	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
196		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		19.56	2	6.17	2
				55		HCL		10YR53	15/30	10YR56		15	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
197		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		21.26	2	8.29	2
				55		HZCL		10YR53	15/30	10YR56		15	CH/MD	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
198		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR52	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
199		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR52	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR42	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
200				Point removed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
201													Point removed															
202													Point removed															
203													Point removed															
204													Point removed															
205													Point removed															
206													Point removed															
207													Point removed															
208													Point removed															
209													To be surveyed															
210													To be surveyed															
211													To be surveyed															
212													To be surveyed															
213													To be surveyed															
214		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
215		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
216		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		21.34	2	7.67	2
				50		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
217		B	≤7	25		HCL	N	10YR42				5	HR				55	25	III	3b	17		1		18.99	2	5.32	2
				55		C		10YR53	20/25	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
218		B	≤7	30		HCL	N	10YR32				5	HR				60	30	III	3b	18		1		26.81	2	12.02	1
				60		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/60	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
219		B	≤7	30		HZCL	Y	10YR43				10	HR				55	30	III	3a	19		1		25.54	2	11.42	1
				55		HZCL		10YR53	25/30	10YR56		10	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR42	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
220		B	≤7	30		HZCL	Y	10YR42				10	HR				55	30	III	3a	19		1		23.10	2	10.29	1
				55		HZCL		10YR53	15/30	10YR56		10	CH/MD	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	CH/MD	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
221		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		21.26	2	8.29	2
				55		HZCL		10YR53	15/30	10YR56		15	CH/MD	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
222		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		24.91	2	10.12	1
				50		SCL		10YR52	10/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
223		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR52	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
224				Point removed																								
225				Point removed																								
226				Point removed																								
227				Point removed																								
228				Point removed																								
229				Point removed																								
230				To be surveyed																								
231				To be surveyed																								
232				To be surveyed																								
233				To be surveyed																								
234				To be surveyed																								
235				To be surveyed																								
236				To be surveyed																								
237				To be surveyed																								
238				To be surveyed																								
239		B	≤7	25		SCL	N	10YR41				0					25	25	IV	3b	17		1		43.49	1	18.57	1
				70		MSZL		10YR43	5/25	10YR56		0		P	CAB	MD					17	11	1	0.5				
				120		MSZL		10YR42	5/70	10YR56		0		P	CPR	WK					15	9	1	0.5				
				120								0									0	0	0	0				
240		B	≤7	30		C	N	10YR42				10	HR				30	30	IV	3b	17		1		24.00	2	7.89	2
				55		C		10YR63	20/30	10YR56		5	HR	P	CAB	MD					16	8	1	0.5				
				120		C		10YR63	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
				120								0									0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)
241		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
242		B	≤7	30		C	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
243		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
244		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
245		B	≤7	30		HZCL	Y	10YR42				10	CH/MD				55	30	III	3a	19		1		21.26	2	8.29	2
				55		HZCL		10YR53	15/30	10YR56		15	CH/MD	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
246		B	≤7	30		HZCL	Y	10YR42				5	CH/MD				50	30	III	3a	19		1		26.31	2	13.77	1
				50		HZCL		10YR53	15/30	10YR56		5	CH/MD	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/50	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
247		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		22.16	2	8.49	2
				50		C		10YR53	15/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
248		P	≤7	28		C	N	10YR32				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
249		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
250				Point removed																								
251				Point removed																								
252				Point removed																								
253				Point removed																								
254				Point removed																								
255				To be surveyed																								
256				To be surveyed																								
257				To be surveyed																								
258				To be surveyed																								
259				To be surveyed																								
260				To be surveyed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
261													To be surveyed															
262													To be surveyed															
263													To be surveyed															
264													To be surveyed															
265		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		22.69	2	9.02	2
				50		C		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
266		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
267		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		21.18	2	8.64	2
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
268		P	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
269		B	≤7	30		HCL	Y	2.5YR42				15	CH/MD				55	30	III	3a	18		1		14.31	2	0.92	2
				55		HCL		10YR53	15/30	10YR56		15	CH/MD	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		15	CH/MD	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
270		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		24.14	2	10.47	1
				50		HZCL		10YR53	15/28	10YR56		10	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
271		B	≤7	28		HZCL	N	10YR32				5	HR				55	28	III	3b	19		1		29.09	2	14.30	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
272		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		30.24	1	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
273		B	≤7	28		HCL	N	10YR42									50	28	III	3b	18		1		30.90	1	16.11	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
274													Number omitted															
275													Number omitted															
276													Number omitted															
277													Number omitted															
278													Number omitted															
279													Number omitted															
280													Number omitted															

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
281												Number omitted																
282												Number omitted																
283												Number omitted																
284												Number omitted																
285												Number omitted																
286												Number omitted																
287												Number omitted																
288												Number omitted																
289												Number omitted																
290												Number omitted																
291												Number omitted																
292												Number omitted																
293												Number omitted																
294												Point removed																
295												Point removed																
296												Point removed																
297												Point removed																
298												Point removed																
299												To be surveyed																
300												To be surveyed																

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. % / depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)
301				To be surveyed																								
302				To be surveyed																								
303				To be surveyed																								
304				To be surveyed																								
305				To be surveyed																								
306				To be surveyed																								
307				To be surveyed																								
308				To be surveyed																								
309		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1					
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
310		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1					
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5	23.96	2	9.17	2
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
311		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1					
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5	23.96	2	9.17	2
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
312		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1					
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5	24.19	2	10.52	1
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
313		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1					
				55		HZCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5	26.81	2	11.54	1
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
314		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1					
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5	26.81	2	12.02	1
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
315		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1					
				55		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5	26.43	2	11.64	1
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
316		B	≤7	28		HCL	Y	2.5YR52				5	HR				40	28	III	3b	18		1					
				40		HCL		10YR53	20/28	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5	25.53	2	10.74	1
				120		C		10YR41	20/40	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
317		B	≤7	28		HCL	Y	2.5YR52				5	HR				45	28	III	3b	18		1					
				45		HCL		10YR53	15/28	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5	25.16	2	10.36	1
				120		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
318		B	≤7	30		HCL	Y	2.5YR52				5	HR								18		1					
				50		HCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD	50	30	III	3b	16	10	1	0.5	25.31	2	10.52	1
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
319				Point removed																								
320				Point removed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)
321												To be surveyed																
322												To be surveyed																
323												To be surveyed																
324												To be surveyed																
325												To be surveyed																
326												To be surveyed																
327												To be surveyed																
328												To be surveyed																
329												To be surveyed																
330												To be surveyed																
331		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
332		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		20.15	2	9.17	2
				55		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
333		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
334		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
335		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		32.51	1	17.24	1
				55		HZCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
336		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		32.51	1	17.24	1
				55		HZCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
337		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		30.61	1	14.87	1
				55		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
338		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR64	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
339		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
340		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. % / depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
341												To be surveyed																
342												To be surveyed																
343												To be surveyed																
344												To be surveyed																
345												To be surveyed																
346												To be surveyed																
347		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		24.91	2	10.12	1
				50		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
348		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		24.91	2	10.12	1
				50		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
349		B	≤7	30		HCL	N	10YR41				5	HR				40	30	III	3b	18		1		25.86	2	11.07	1
				40		SCL		10YR53	5/40	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
350		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
351		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
352		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
353		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
354		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		28.71	2	13.92	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
355		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
356		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
357		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		23.81	2	10.14	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
358		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
359												To be surveyed																
360		B	≤7	25		HCL	N	10YR41				0					55	25	III	3b	18		1		30.99	1	13.57	1
				55		SCL		10YR53	20/25	10YR56		0		P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)
361		B	≤7	30		HCL	N	10YR41				0					55	30	III	3b	18		1		28.41	2	12.19	1
				55		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
362		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		25.86	2	9.64	2
				55		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
363		B	≤7	25		HCL	N	10YR31				0					55	25	III	3b	18		1		30.99	1	13.57	1
				55		SCL		10YR53	20/25	10YR56		0		P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
364		B	≤7	25		HCL	N	10YR41				0					55	25	III	3b	18		1		33.49	1	16.57	1
				55		HCL		10YR53	20/25	10YR56		0		P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
365		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
366		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		24.91	2	9.17	2
				55		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
367		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
368		P	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
369		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		32.51	1	17.24	1
				55		HZCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
370		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		32.51	1	17.24	1
				55		HZCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
371		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
372		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		27.19	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
373		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
374		B	≤7	30		HZCL	N	10YR41				5	HR				50	30	III	3b	19		1		25.54	2	11.87	1
				50		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
375		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		25.90	2	12.23	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
376		B	≤7	28		HZCL	N	10YR32				5	HR				55	28	III	3b	19		1		29.09	2	14.30	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
377		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
378		B	≤7	28		HCL	N	10YR42									50	28	III	3b	18		1		30.90	1	16.11	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
379		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
380		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
381		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		25.90	2	12.23	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
382		B	≤7	28		HZCL	N	10YR32				5	HR				55	28	III	3b	19		1		29.09	2	14.30	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
383		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
384		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
385		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
386		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
387		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
388		P	≤7	25		HCL	N	10YR42				2	HR				25	25	IV	3b	18		1		18.95	2	6.34	2
				55		C		7.5R43	10/25	7.5YR46	7.5YR53	2	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	7.5YR46		15	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0				
389		B	≤7	25		HCL	N	10YR42				2	HR				25	25	IV	3b	18		1		18.95	2	6.34	2
				55		C		7.5R53	10/25	7.5YR46	7.5YR53	2	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	7.5YR46		15	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0				
390		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
391		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
392		B	≤7	28		HZCL	N	10YR32				5	HR				55	28	III	3b	19		1		14.60	2	14.30	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
393		B	≤7	28		HZCL	N	10YR42				5	HR				50	28	III	3b	19		1		26.47	2	12.80	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
394		B	≤7	28		HCL	N	10YR32									50	28	III	3b	18		1		30.90	1	16.11	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
395		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
396		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
397		B	≤7	30		HZCL	Y	10YR32				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
398		B	≤7	30		HZCL	Y	10YR32				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
399		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
400		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		28.09	2	14.42	1
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
401		B	≤7	30		HZCL	N	10YR41				5	HR				45	30	III	3b	19		1		-7.86	3a	9.32	2
				45		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	15/45	10YR56		10	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR53	20/70	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
402		B	≤7	30		SCL	N	10YR41				5	HR				45	30	III	3a	18		1		-9.41	3a	8.22	2
				45		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	25/70	10YR56		10	HR	P	CPR	WK					15	9	1	0.5				
403		B	≤7	30		SCL	N	10YR41				5	HR				50	30	III	3a	18		1		-11.31	3a	5.42	2
				50		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	15/50	10YR56		15	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	20/70	10YR56		15	HR	P	CPR	WK					15	9	1	0.5				
404		B	≤7	30		SCL	N	10YR31				5	HR				50	30	III	3a	18		1		-11.31	3a	5.42	2
				50		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	20/50	10YR56		15	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	20/70	10YR56		15	HR	P	CPR	WK					15	9	1	0.5				
405		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		28.52	2	13.73	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
406		B	≤7	28		HZCL	N	10YR32				5	HR				55	28	III	3b	19		1		26.65	2	13.17	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
407		B	≤7	28		HZCL	N	10YR42				5	HR				50	28	III	3b	19		1		26.47	2	12.80	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
408		P	≤7	28		HCL	N	10YR32									50	28	III	3b	18		1		30.90	1	16.11	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
409		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
410		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
411		B	≤7	30		HZCL	Y	10YR32				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
412		B	≤7	30		HZCL	Y	10YR32				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
413		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
414		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		3.94	3a	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				90		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				121		C		10YR42	25/90	10YR57		6	HR	P	CPR	WK					0	0	0	0				
415		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		28.09	2	14.42	1
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
416		B	≤7	35		HCL	N	10YR43				10	HR				50	30	III	3b	18		1		18.91	2	8.87	2
				50		HCL		10YR53				10	HR	G	FAB	MD					16	10	1	0.5				
				70		C		10YR53	10/50	10YR56		5	HR	P	MPR	MD					16	8	1	0.5				
				120		C		10YR54	20/70	10YR56		5	HR	P	M	WK					13	7	1	0.5				
417		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
418		B	≤7	28		SCL	N	10YR41				5	HR				45	28	III	3a	18		1		-9.98	3a	7.65	2
				45		SC		10YR53	5/28	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	25/70	10YR56		5	HR	P	CPR	WK					15	9	1	0.5				
419		B	≤7	30		SCL	N	10YR41				5	HR				50	30	III	3a	18		1		-9.41	3a	8.22	2
				50		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	15/50	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	20/70	10YR56		15	HR	P	CPR	WK					15	9	1	0.5				
420		B	≤7	30		SCL	N	10YR31				5	HR				50	30	III	3a	18		1		-11.31	3a	5.42	2
				50		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	20/50	10YR56		15	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	20/70	10YR56		15	HR	P	CPR	WK					15	9	1	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
421		B	≤7	28		HZCL	N	10YR32				5	HR				50	28	III	3b	19		1		17.88	2	8.79	2
				50		HCL		10YR53	10/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					12	6	1	0.5				
																					0	0	0	0				
422		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		19.09	2	5.11	2
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
423		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		17.51	2	2.94	2
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
424		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		19.78	2	4.04	2
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
425		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		20.16	2	4.42	2
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
426		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	18		1		18.26	2	2.52	2
				45		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/45	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
427		B	≤7	30		HZCL	Y	10YR32				0					45	30	III	3b	18		1		20.81	2	5.07	2
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
428		P	≤7	30		HZCL	Y	10YR32				0					45	30	III	3b	18		1		20.81	2	5.07	2
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
429		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		18.26	2	2.52	2
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
430		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		-1.76	3a	2.52	2
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				90		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				121		C		10YR42	25/90	10YR57		6	HR	P	CPR	WK					0	0	0	0				
431		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	18		1		15.71	2	1.14	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
432		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		32.23	1	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				90		HCL		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	10	1	0.5				
				121		C		10YR42	25/90	10YR57		5	HR	P	CPR	WK					13	7	1	0.5				
433		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		18.93	2	2.52	2
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				85		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				121		C		10YR42	20/85	10YR57		5	HR	P	CPR	WK					13	7	1	0.5				
434		B	≤7	30		SCL	N	10YR41				5	HR				50	30	III	3a	18		1		-14.18	3a	10.12	1
				50		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		MCL		10YR52	15/50	10YR56		5	HR	P	CPR	MD					16	10	1	0.5				
				120		MSZL		10YR53	15/65	10YR56		5	HR	P	CPR	WK					15	9	1	0.5				
435		B	≤7	30		SCL	N	10YR31				5	HR				50	30	III	3a	18		1		-11.31	3a	5.42	2
				50		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	20/50	10YR56		15	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	20/70	10YR56		15	HR	P	CPR	WK					15	9	1	0.5				
436		B	≤7	28		HZCL	N	10YR32				5	HR				50	28	III	3b	19		1		28.56	2	14.89	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
437		B	≤7	28		HZCL	N	10YR32				5	HR				50	28	III	3b	19		1		29.09	2	14.30	1
				50		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
438		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
439		B	≤7	28		HCL	N	10YR42									50	28	III	3b	18		1		30.90	1	16.11	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
440		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)
441		B	≤7	30		HZCL	Y	10YR32				0					45	30	III	3b	19		1		29.36	2	15.69	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
442		B	≤7	30		HZCL	Y	10YR41				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
443		B	≤7	30		HCL	Y	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
444		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		3.94	3a	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				90		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				121		C		10YR42	25/90	10YR57		6	HR	P	CPR	WK					0	0	0	0				
445		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		28.09	2	14.42	1
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
446		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		-1.76	3a	2.52	2
				45		C		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				90		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120		C		10YR42	25/90	10YR57		5	HR	P	CPR	WK					0	0	0	0				
447		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	18		1		15.71	2	1.14	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
448		P	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		32.23	1	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				90		HCL		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	10	1	0.5				
				121		C		10YR42	25/90	10YR57		5	HR	P	CPR	WK					13	7	1	0.5				
449		B	≤7	30		SCL	N	10YR32				5	HR				45	30	III	3a	18		1		-18.46	3a	10.59	1
				45		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		MCL		10YR52	15/45	10YR56		5	HR	P	CPR	MD					16	10	1	0.5				
				120		MSZL		10YR53	15/60	10YR56		5	HR	P	CPR	WK					15	9	1	0.5				
450		B	≤7	30		SCL	N	10YR41				5	HR				50	30	III	3a	18		1		-14.18	3a	10.12	1
				50		SC		10YR53	5/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		MCL		10YR52	15/50	10YR56		5	HR	P	CPR	MD					16	10	1	0.5				
				120		MSZL		10YR53	20/65	10YR56		5	HR	P	CPR	WK					15	9	1	0.5				
451		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
452		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		27.19	2	13.73	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
453		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
454		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
455		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
456		B	≤7	30		HCL	Y	10YR32				5	HR				45	30	III	3b	18		1		3.94	3a	12.02	1
				45		HCL		10YR52	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				90		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				121		C		10YR42	25/90	10YR57		6	HR	P	CPR	WK					0	0	0	0				
457		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		28.09	2	14.42	1
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
458		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
459		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
460		B	≤7	25		HCL	N	10YR42				5	HR				40	25	III	3b	18		1		19.21	2	15.84	1
				40		SCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/40	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
461		B	≤7	28		HCL	N	10YR42				5	HR				40	28	III	3b	18		1		20.07	2	16.70	1
				40		HCL		10YR52	10/28	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
462		B	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		18.74	2	15.37	1
				45		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
463		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
464		B	≤7	30		HCL	N	10YR32				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
465		B	≤7	30		SCL	N	10YR41				5	HR				50	30	III	3a	18		1		-11.31	3a	5.42	2
				50		SC		10YR53	5/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				70		SC		10YR52	15/50	10YR56		15	HR	P	CPR	MD					15	10	1	0.5				
				120		MSZL		10YR53	20/70	10YR56		15	HR	P	CPR	WK					15	9	1	0.5				
466		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		25.90	2	12.23	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
467		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
468		P	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
469		B	≤7	28		HCL	N	10YR42									50	28	III	3b	18		1		30.90	1	16.11	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
470		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
471		B	≤7	28		C	N	10YR32				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
472		B	≤7	28		HCL	N	10YR41				5	HR				45	28	III	3b	18		1		29.31	2	11.64	1
				45		C		10YR42	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR52	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
473		B	≤7	28		C	N	10YR41				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
474		B	≤7	28		C	N	10YR31				0					50	28	III	3b	17		1		27.66	2	12.87	1
				50		C		10YR64	15/28	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
475		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		21.21	2	5.94	2
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
476		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		17.51	2	2.94	2
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
477		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		19.78	2	4.04	2
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
478		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		20.16	2	4.42	2
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
479		B	≤7	30		HCL	Y	10YR42				5	HR				45	30	III	3b	18		1		18.26	2	2.52	2
				45		HCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/45	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				
480		B	≤7	30		HCL	Y	10YR32				0					45	30	III	3b	18		1		20.81	2	5.07	2
				45		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
481		B	≤7	30		HCL	N	10YR41				5	HR				40	30	III	3b	18		1		25.86	2	11.07	1
				40		SCL		10YR53	5/40	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
482		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		25.86	2	11.07	1
				50		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
483		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
484		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
485		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/30	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
486		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		28.71	2	13.92	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
487		B	≤7	28		C	N	10YR32				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
488		P	≤7	28		C	N	10YR41				5	HR				45	28	III	3b	17		1		18.90	2	8.98	2
				45		C		10YR42	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR52	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0				
489		B	≤7	28		C	N	10YR42				5	HR				45	28	III	3b	17		1		18.90	2	8.98	2
				45		C		10YR42	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR52	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0				
490		B	≤7	28		C	N	10YR31				0					50	28	III	3b	17		1		27.66	2	12.87	1
				50		C		10YR64	15/28	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
491		B	≤7	28		C	N	10YR32				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
492		B	≤7	28		C	N	10YR31				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
493		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
494		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
495		B	≤7	28		HCL	N	10YR42									50	28	III	3b	18		1		30.90	1	16.11	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
496		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		24.91	2	10.12	1
				50		SCL		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR42	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
497		B	≤7	28		HZCL	N	10YR32				5	HR				50	28	III	3b	19		1		31.18	1	16.39	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
498		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
499		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
500		B	≤7	30		HCL	N	10YR42									50	30	III	3b	18		1		31.26	1	16.47	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
501		B	≤7	28		HZCL	N	10YR32				5	HR				50	28	III	3b	19		1		28.56	2	14.89	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
502		B	≤7	28		HZCL	N	10YR32				5	HR				50	28	III	3b	19		1		29.09	2	14.30	1
				50		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
503		B	≤7	28		C	N	10YR42				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
504		B	≤7	28		C	N	10YR42				5	HR				50	28	III	3b	17		1		23.77	2	8.98	2
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
505		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
506		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
507		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
508		P	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		30.49	1	14.57	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
509		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
510		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
511		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
512		B	≤7	30		HCL	N	10YR32				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
513		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.11	2	20.62	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		SCL		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	25/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
514		B	≤7	30		HZCL	N	10YR42				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
515		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
516		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
517		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
518		B	≤7	30		C	N	10YR42				0					60	30	III	3b	17		1		24.11	2	10.82	1
				60		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/60	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
519		B	≤7	30		C	N	10YR42				5	HR				60	30	III	3b	17		1		23.96	2	9.17	2
				60		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/60	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
520		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR53	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
521		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
522		B	≤7	28		C	N	10YR41				5	HR				45	28	III	3b	17		1		18.90	2	8.98	2
				45		C		10YR42	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR52	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0				
523		B	≤7	28		C	N	10YR42				5	HR				45	28	III	3b	17		1		16.02	2	7.10	2
				45		C		10YR42	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR52	20/45	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		10	HR	P	CPR	WK					13	7	1	0				
524		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		22.41	2	9.17	2
				55		C		10YR52	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR53	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0				
525		B	≤7	28		C	N	10YR32				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
526		B	≤7	28		C	N	10YR31				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
527		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
528		P	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
529		B	≤7	30		HZCL	N	10YR32				5	HR				45	30	III	3b	19		1		23.01	2	19.64	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
530		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
531		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		25.86	2	11.07	1
				50		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
532		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		28.71	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
533		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
534		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
535		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
536		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR53	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
537		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
538		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
539		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
540		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		30.49	1	14.57	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
541		B	≤7	28		C	N	10YR32				5	HR				55	30	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
542		B	≤7	30		C	N	10YR42				5	HR				55	28	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
543		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
544		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR52	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
545		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
546		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
547		B	≤7	30		MZCL	N	10YR41				0					58	30	III	3a	19		1		36.49	1	20.57	1
				58		C		10YR53	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		2.5YR51	25/50	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
548		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
549		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
550		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
551		B	≤7	25		MCL	N	10YR42				2	HR				25	25	IV	3b	18		1		21.61	2	5.87	2
				50		HCL		10YR43	5/25	7.5YR56	7.5YR53	2	HR	P	CP	MD					16	10	1	0.5				
				120		HCL		10YR53	10/50	7.5YR56		5	HR	P	M	WK					12	7	1	0.5				
				120								0									0	0	0	0				
552		B	≤7	25		MCL	N	10YR42				2	HR				25	25	IV	3b	18		1		21.61	2	5.87	2
				50		HCL		10YR43	5/25	7.5YR56	7.5YR53	2	HR	P	CP	MD					16	10	1	0.5				
				120		HCL		10YR53	10/50	7.5YR56		5	HR	P	M	WK					12	7	1	0.5				
				120								0									0	0	0	0				
553		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	30/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
554		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
555		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR53	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
556		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
557		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
558		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
559		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
560		B	≤7	30		HCL	N	10YR42				10	HR				30	30	IV	3b	18		1		26.70	2	10.59	1
				55		C		10YR63	20/30	10YR56		5	HR	P	CAB	MD					16	8	1	0.5				
				120		C		10YR63	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
				120								0									0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (drought. WHEAT)	MBP	Grade (drought. POTATOES)
561		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
562		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		23.81	2	10.14	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
563		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
564		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
565		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		18.37	2	16.49	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
566		B	≤7	30		HCL	N	10YR32				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
567		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.11	2	20.62	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		SCL		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	25/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
568		P	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
569		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		25.86	2	11.07	1
				50		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
570		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
571		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
572		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		22.55	2	11.57	1
				55		C		10YR52	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
573		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR52	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
574		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR53	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
575		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
576		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
577		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
578		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		30.49	1	14.57	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
579		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
580		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		30.49	1	14.57	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
581		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		30.49	1	14.57	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
582		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		23.81	2	10.14	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
583		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
584		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
585		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
586		B	≤7	30		HCL	N	10YR32				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
587		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.11	2	20.62	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		SCL		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	25/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
588		P	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
589		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
590		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		23.81	2	10.14	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
591		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
592		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		19.96	2	11.54	1
				55		HZCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
593		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
594		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		25.86	2	11.07	1
				50		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
595		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
596		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
597		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
598		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
599		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
600		B	≤7	25		C	N	10YR41				5	HR				50	25	III	3b	17		1		18.99	2	5.32	2
				50		C		10YR53	20/25	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
601		B	≤7	25		C	N	10YR42				0					55	25	III	3b	17		1		23.05	2	9.57	2
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
602		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
603		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR53	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
604		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
605		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
606		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
607		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
608		P	≤7	30		HCL	N	10YR32				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
609		B	≤7	30		HCL	N	10YR32				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
610		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.11	2	20.62	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		SCL		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	25/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
611		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		C		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
612		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		11.94	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
613		B	≤7	25		HCL	N	10YR42				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
614		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
615		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
616		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
617		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.11	2	20.62	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		SCL		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	25/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
618		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
619		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		25.86	2	11.07	1
				50		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
620		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)
621		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
622		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
623		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		29.66	2	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
624		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
625		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
626		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
627		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
628		P	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
629		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
630		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
631		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
632		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		34.62	1	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
633		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
634		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
635		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		19.84	2	6.17	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
636		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.11	2	19.67	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		SCL		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		SC		10YR42	25/60	10YR56		5	HR	P	CPR	WK					12	7	1	0.5				
637		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
638		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
639		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
640		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
641		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		C		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
642		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
643		B	≤7	25		HCL	N	10YR42				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
644		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
645		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
646		B	≤7	30		HZCL	N	10YR41				0					58	30	III	3b	19		1		36.49	1	20.57	1
				58		C		10YR53	15/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		2.5YR51	25/50	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
647		B	≤7	25		MCL	N	10YR31	2/10	7.5YR46		2	HR				25	25	IV	3b	18		1		16.88	2	2.49	2
				52		HCL		10YR52	5/25	10YR56		10	HR	P	CP	MD					16	10	1	0.5				
				120		C		7.5YR54	10/52	10YR56	7.5YR53	10	HR	P	M	WK					12	7	1	0.5				
				120								0									0	0	0	0				
648		P	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		C		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
649		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
650		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
651		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
652		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		40.34	1	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
653		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		16.41	2	3.72	2
				55		C		7.5R43	10/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		15	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0.5				
654		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		20.64	2	5.37	2
				55		C		7.5R53	10/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0.5				
655		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
656		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
657		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
658		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
659		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
660		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
661		B	≤7	28		HCL	N	10YR32				0					50	28	III	3b	18		1		28.81	2	14.02	1
				50		C		10YR53	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
662		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
663		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		21.36	2	7.69	2
				50		HCL		10YR53	20/25	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
664		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
665		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		19.84	2	6.17	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
666		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.11	2	19.67	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				60		SCL		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		SC		10YR42	25/60	10YR56		5	HR	P	CPR	WK					12	7	1	0.5				
667		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
668		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
669		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
670		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
671		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
672		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
673		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		22.54	2	14.42	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		SC		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
674		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
675		B	≤7	30		HZCL	N	10YR42				5	HR				50	30	III	3b	19		1		31.56	1	16.77	1
				50		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
676		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		28.71	2	13.92	1
				50		HZCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
677		B	≤7	30		MCL	N	10YR41				0					60	30	III	3a	18		1		42.66	1	13.62	1
				60		MCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	25/60	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
678		B	≤7	30		MCL	N	10YR41				0					60	30	III	3a	18		1		47.49	1	16.57	1
				60		MCL		10YR53	15/30	10YR56		0		P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	25/60	10YR56		0		P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
679		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		23.24	2	9.57	2
				50		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
680		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)
681		B	≤7	28		C	N	10YR32				0					50	28	III	3b	17		1		26.01	2	11.22	1
				50		C		10YR53	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
682		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
683		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		23.24	2	9.57	2
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
684		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
685		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		19.84	2	6.17	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
686		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
687		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
688		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
689		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
690		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
691		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		21.34	2	7.67	2
				50		HCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
692		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		29.21	2	18.22	1
				45		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
693		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		22.54	2	14.42	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		SC		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
694		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
695		B	≤7	30		HZCL	N	10YR42				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
696		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		28.71	2	13.92	1
				50		HZCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
697		B	≤7	30		HCL	N	10YR41				0					60	30	III	3a	18		1		31.26	1	14.57	1
				60		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/60	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
698		B	≤7	30		HCL	N	10YR41				0					60	30	III	3a	18		1		47.49	1	16.57	1
				60		HCL		10YR53	15/30	10YR56		0		P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	25/60	10YR56		0		P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
699		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		21.64	2	7.97	2
				50		HZCL		10YR64	10/30	10YR56		10	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	15/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
700		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)
701		B	≤7	30		MCL	N	10YR42				0					60	30	III	3a	18		1		42.66	1	13.62	1
				60		MCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	25/60	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
702		B	≤7	30		MCL	N	10YR41				0					60	30	III	3a	18		1		47.49	1	16.57	1
				60		MCL		10YR53	15/30	10YR56		0		P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	25/60	10YR56		0		P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
703		B	≤7	25		MCL	N	10YR41				2	HR				25	25	III	3b	18		1		18.95	2	6.34	2
				55		C		10YR53	10/25	10YR56		2	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		15	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0				
704		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		27.76	2	12.02	1
				55		HCL		10YR53	20/45	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
705		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		27.76	2	12.02	1
				55		HCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
706		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
707		B	≤7	30		SCL	Y	2.5YR43				5	HR				45	30	III	3a	19		1		33.81	1	15.62	1
				60		SCL		2.5YR42	15/30	10YR56		5	CH	P	MSAB	MD					16	10	1	0.5				
				120		C		2.5YR53	30/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
708		P	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		16.41	2	3.72	2
				55		C		10YR42	10/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		15	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0.5				
709		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR42	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
710		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
711		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
712		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		23.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
713		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
714		B	≤7	28		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
715		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
716		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
717		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
718		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
719		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
720		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
721		B	≤7	28		SC	N	10YR42				5	HR				50	28	III	3a	17		1		25.86	2	11.07	1
				50		SCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
722		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
723		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
724		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
725		B	≤7	30		MCL	N	10YR42				0					60	30	III	3a	18		1		31.26	1	14.57	1
				60		MCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/60	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
726		B	≤7	28		HCL	N	10YR32				0					50	28	III	3b	18		1		28.81	2	14.02	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
727		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
728		P	≤7	25		HCL	N	10YR41				5	HR				50	25	III	3b	18		1		21.36	2	7.69	2
				50		HCL		10YR53	20/25	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
729		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
730		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		19.84	2	6.17	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
731		B	≤7	30		SCL	Y	2.5YR43				5	HR				45	30	III	3a	19		1		33.81	1	15.62	1
				60		SCL		2.5YR42	20/30	10YR56		5	CH	P	MSAB	MD					16	10	1	0.5				
				120		C		2.5YR53	30/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
732		B	≤7	30		SCL	Y	2.5YR43				5	HR				45	30	III	3a	19		1		31.56	1	14.87	1
				60		SCL		2.5YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		2.5YR53	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
733		B	≤7	30		SCL	Y	2.5YR43				5	HR				45	30	III	3a	19		1		45.81	1	14.62	1
				60		SCL		2.5YR42	15/30	10YR56		5	CH	P	MSAB	MD					16	10	1	0.5				
				120		SC		2.5YR53	30/55	10YR56		0		P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
734		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
735		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		24.94	2	10.51	1
				55		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
736		B	≤7	28		HCL	N	10YR43				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
737		B	≤7	28		HCL	N	10YR43				5	HR				55	28	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
738		B	≤7	28		HCL	N	10YR32				0					55	28	III	3b	18		1		31.65	1	16.04	1
				55		C		10YR3	10/28	10YR56		0		P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
739		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		23.81	2	10.14	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
740		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
741		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		22.69	2	9.02	2
				50		HCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
742		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
743		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
744		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
745		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
746		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
747		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
748		P	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	20/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
749		B	≤7	30		HZCL	N	10YR41				5	HR				45	30	III	3b	19		1		28.24	2	13.44	1
				45		SCL		10YR53	25/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
750		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
751		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
752		B	≤7	30		HZCL	Y	10YR42				5	HR				45	30	III	3b	19		1		40.34	1	14.87	1
				45		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
753		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
754		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
755		B	≤7	30		SCL	Y	2.5YR43				0					45	30	III	3a	19		1		50.49	1	19.57	1
				60		SCL		2.5YR42	15/30	10YR56		0		P	MSAB	MD					16	10	1	0.5				
				120		SC		2.5YR53	25/55	10YR56		0		P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
756		B	≤7	30		SCL	Y	2.5YR43				0					45	30	III	3a	19		1		34.26	1	17.57	1
				60		SCL		2.5YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		2.5YR53	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
757		B	≤7	30		SCL	Y	2.5YR42				5	HR				45	30	III	3a	19		1		31.56	1	14.87	1
				60		SCL		2.5YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		2.5YR53	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
758		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
759		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
760		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)
761		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
762		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
763		B	≤7	30		HCL	N	10YR41				10	HR				50	30	III	3b	18		1		20.14	2	6.47	2
				50		C		10YR64	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
764		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	20/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
765		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
766		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
767		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
768		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
769		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	10/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
770		B	≤7	30		HCL	N	10YR41				10	HR				45	30	III	3b	18		1		20.14	2	6.47	2
				45		HCL		10YR53	5/45	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
771		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
772		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		27.24	2	10.52	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
773		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		33.96	1	6.34	2
				55		C		7.5R43	10/25	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	20/55	10YR56		10	HR	P	CPR	MD					15	10	1	0.5				
				120								0									0	0	0	0.5				
774		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		20.64	2	5.37	2
				55		C		7.5R53	10/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0.5				
775		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
776				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
777		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		28.05	2	13.44	1
				55		C		10YR63	20/30	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
778		B	≤7	30		C	N	10YR32				0					55	30	III	3b	17		1		26.36	2	11.57	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
779		B	≤7	30		C	N	10YR42				0					55	30	III	3b	17		1		23.92	2	10.44	1
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
780		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
781		B	≤7	30		SCL	Y	2.5YR43				5	HR				45	30	III	3a	19		1		31.56	1	14.87	1
				60		SCL		2.5YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		2.5YR53	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
782		B	≤7	30		HCL	N	10YR32				0					50	30	III	3b	18		1		29.36	2	14.57	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
783		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
784		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		21.36	2	7.69	2
				50		HCL		10YR53	20/25	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
785		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
786		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
787		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
788		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
789		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
790		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
791		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
792		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		23.38	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
793		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
794		B	≤7	30		SCL	N	10YR42				5	HR				55	30	III	3b	17		1		13.56	2	3.09	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
795		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
796		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		22.69	2	9.02	2
				50		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
797		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
798		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		24.91	2	8.22	2
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		SC		10YR41	25/45	10YR56		5	HR	P	CPR	MD					15	8	1	0.5				
																					0	0	0	0				
799		B	≤7	30		HZCL	N	10YR41				5	HR				45	30	III	3b	19		1		28.24	2	13.44	1
				45		SCL		10YR53	25/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
800		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
801				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
802				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
803		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		23.24	2	9.57	2
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
804		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
805		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
806		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
807		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
808		P	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR42	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
809		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
810		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
811		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
812		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		29.86	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
813		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
814		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
815		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
816		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
817		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
818		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
819		B	≤7	30		SC	N	10YR42				5	HR				55	30	III	3b	17		1		13.56	2	3.09	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
820		B	≤7	30		SC	N	10YR42				5	HR				55	30	III	3b	17		1		9.34	2	-2.78	2
				55		SCL		10YR53	20/30	10YR56		15	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
821		B	≤7	30		SCL	N	10YR42				5	HR				55	30	III	3b	17		1		13.56	2	3.09	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
822		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		C		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
823		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
824		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
825		B	≤7	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		36.79	1	8.72	2
				50		HCL		2.5YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	20/50	10YR56		10	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
826		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		33.96	1	6.34	2
				55		C		7.5YR43	10/25	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	20/55	10YR56		10	HR	P	CPR	MD					15	10	1	0.5				
				120								0									0	0	0	0.5				
827		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		20.64	2	5.37	2
				55		C		7.5R53	10/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120								0									0	0	0	0.5				
828		P	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
829				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
830				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
831				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
832		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		-10.35	3a	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
833		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
834		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
835		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
836		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		20.25	2	7.89	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
837		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		18.56	2	6.02	2
				55		C		10YR53	20/30	10YR56		15	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
838		B	≤7	30		HCL	N	10YR41				10	HR				55	30	III	3b	18		1		16.01	2	3.47	2
				55		C		10YR53	20/30	10YR56		15	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	35/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
839		B	≤7	30		HZCL	Y	10YR42				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
840		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Dought. WHEAT)	MBP	Grade (Dought. POTATOES)
841		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		C		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
842		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		C		10YR3	10/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
843		B	≤7	25		HCL	N	10YR42				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
844		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
845		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		26.81	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		SC		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
846		B	≤7	30		SC	N	10YR42				5	HR				55	30	III	3b	17		1		13.56	2	3.09	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
847		B	≤7	30		SC	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
848		P	≤7	30		SC	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
849		B	≤7	30		SC	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
850		B	≤7	30		SC	N	10YR42				5	HR				55	30	III	3b	17		1		15.20	2	0.77	2
				55		SCL		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
851		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		27.38	2	11.64	1
				55		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
852		B	≤7	30		HCL	N	10YR32				0					50	30	III	3b	18		1		37.17	1	14.57	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
853		B	≤7	25		HCL	N	10YR41				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
854		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		23.24	2	9.57	2
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
855		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
856				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
857				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
858		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
859		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		C		10YR64	15/45	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
860		B	≤7	28		HCL	N	10YR32				5	HR				55	28	III	3b	18		1		27.38	2	10.21	1
				55		C		10YR3	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR41	20/55	10YR56		5	HR	P	CPR	MD					15	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
861		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
862		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		21.34	2	7.67	2
				50		HCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
863		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
864		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		22.54	2	14.42	1
				45		SCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		SC		10YR41	20/45	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
865		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		20.16	2	16.79	1
				45		SCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
866		B	≤7	30		HZCL	N	10YR42				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
867		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		28.71	2	13.92	1
				50		HZCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
868		P	≤7	30		HCL	N	10YR42				0					60	30	III	3a	18		1		31.26	1	14.57	1
				60		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/60	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
869		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
870		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
871		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
872		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		29.86	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
873		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
874		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
875		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
876		B	≤7	35		MCL	N	10YR43				10	HR				50	30	III	3a	18		1		18.91	2	8.87	2
				50		HCL		10YR53				10	HR	G	FAB	MD					16	10	1	0.5				
				70		C		10YR53	10/50	10YR56		5	HR	P	MPR	MD					16	8	1	0.5				
				120		C		10YR54	20/70	10YR56		5	HR	P	M	WK					13	7	1	0.5				
877		B	≤7	30		HCL	N	10YR43				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
878		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
879		B	≤7	30		C	N	10YR46				5	HR				50	30	III	3b	17		1		19.21	2	9.17	2
				50		C		10YR42	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR63	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
880		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		19.21	2	9.17	2
				50		C		10YR42	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR53	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
881		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		20.64	2	5.37	2
				55		C		7.5R53	10/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120																	0	0	0	0.5				
882		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
883		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
884		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
885		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
886		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
887		B	≤7	30		HCL	N	10YR42				10	HR				55	30	III	3b	18		1		16.86	2	3.47	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
888		P	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		18.56	2	6.02	2
				55		C		10YR53	20/30	10YR56		15	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
889		B	≤7	30		HCL	N	10YR43				15	HR				55	30	III	3b	18		1		14.31	2	0.92	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
890		B	≤7	30		HCL	N	10YR43				15	HR				55	30	III	3b	18		1		14.31	2	0.92	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
891		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
892		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
893		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
894		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
895		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		22.06	2	12.02	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				70		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
896		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
897		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
898		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
899		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
900		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		19.21	2	9.17	2
				50		C		10YR42	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR53	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
901		B	≤7	30		HCL	N	10YR42				10	HR				60	30	III	3b	18		1		20.14	2	6.47	2
				60		C		10YR41	25/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/60	10YR56		10	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
902		B	≤7	30		HCL	N	10YR42				5	HR				55	30	IV	3b	18		1		21.59	2	6.32	2
				55		C		7.5R53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120																	0	0	0	0.5				
903		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
904		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
905				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
906				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
907		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
908		P	≤7	30		HCL	N	10YR42				10	HR				55	30	III	3b	18		1		16.86	2	3.47	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
909		B	≤7	30		HCL	N	10YR41				5	HR				60	30	III	3b	18		1		18.56	2	6.02	2
				60		C		10YR53	20/30	10YR56		15	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/60	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
910		B	≤7	30		HCL	N	10YR43				15	HR				55	30	III	3b	18		1		14.31	2	0.92	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
911		B	≤7	30		HCL	N	10YR43				15	HR				55	30	III	3b	18		1		14.31	2	0.92	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
912		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		24.29	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
913		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
914		B	≤7	30		SCL	N	10YR41				0					55	30	III	3a	17		1		22.97	2	8.07	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
915		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		23.01	2	6.79	2
				55		SC		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
916		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		22.06	2	12.02	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				70		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
917		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
918		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
919		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
920		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
921		B	≤7	30		C	N	10YR43				0					50	30	III	3b	17		1		21.61	2	11.57	1
				50		C		10YR42	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR53	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
922		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		19.21	2	9.17	2
				50		C		10YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				70		C		10YR53	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	25/70	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
923		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		22.69	2	9.02	2
				55		C		10YR41	25/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/60	10YR56		10	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
924		B	≤7	30		HCL	N	10YR42				5	HR				55	30	IV	3b	18		1		21.59	2	6.32	2
				55		C		7.5R53	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120																	0	0	0	0.5				
925		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
926		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
927		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
928		P	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
929		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
930		B	≤7	30		HCL	N	10YR42				10	HR				55	30	III	3b	18		1		18.60	2	5.34	2
				55		HCL		10YR42	25/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
931		B	≤7	30		HCL	N	10YR41				5	HR				60	30	III	3b	18		1		26.81	2	12.02	1
				60		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/60	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
932		B	≤7	25		HCL	N	10YR42				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
933		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		25.86	2	11.07	1
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
934		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		23.01	2	6.79	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
935		B	≤7	30		SCL	N	10YR41				0					55	30	III	3a	17		1		22.97	2	8.07	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
936		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		23.01	2	6.79	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
937		B	≤7	28		SCL	N	10YR41				5	HR				50	28	III	3a	17		1		21.68	2	6.89	2
				50		SC		10YR53	10/28	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
938		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		24.91	2	9.17	2
				55		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
939		B	≤7	30		MCL	N	10YR41				5	HR				50	30	III	3b	17		1		39.16	1	9.17	2
				50		MSZL		10YR43	10/25	10YR56		5	HR	P	MSAB	MD					17	11	1	0.5				
				120		SC		10YR42	15/70	10YR56		5	HR	P	CPR	WK					15	10	1	0.5				
				120								0									0	0	0	0				
940		B	≤7	30		C	N	10YR42				10	HR				30	30	IV	3b	17		1		24.00	2	7.89	2
				55		C		10YR63	20/30	10YR56		5	HR	P	CAB	MD					16	8	1	0.5				
				120		C		10YR63	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
				120								0									0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
941		B	≤7	30		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		21.59	2	6.32	2
				55		C		7.5R53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120																	0	0	0	0.5				
942		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
943		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
944		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
945		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
946		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
947		B	≤7	30		HCL	N	10YR42				10	HR				55	30	III	3b	18		1		16.86	2	3.47	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
948		P	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		22.69	2	9.02	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
949		B	≤7	30		HCL	N	10YR43				15	HR				55	30	III	3b	18		1		14.31	2	0.92	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
950		B	≤7	30		HCL	N	10YR43				5	HR				55	30	III	3b	18		1		27.76	2	12.02	1
				55		HCL		10YR42	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
951		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
952		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
953		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
954		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
955		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
956		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		23.01	2	6.79	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
957		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		20.57	2	5.67	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
958		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		23.01	2	6.79	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
959		B	≤7	30		SCL	N	10YR41				5	HR				50	30	III	3a	17		1		22.06	2	7.27	2
				50		SC		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
960		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		24.91	2	9.17	2
				55		HCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
961		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		22.69	2	9.02	2
				50		HCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
962		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
963		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
964		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		HCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
965		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		HCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
966		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
967		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		C		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
968		P	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		22.69	2	9.02	2
				45		HCL		10YR53	20/45	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/45	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
969		B	≤7	30		HZCL	N	10YR41				5	HR				45	30	III	3b	19		1		25.24	2	11.57	1
				45		SCL		10YR53	25/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
970		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
971		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
972		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		27.19	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
973		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
974		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
975		B	≤7	30		HCL	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	12.02	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
976		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
977		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		23.01	2	6.79	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
978		B	≤7	30		SCL	N	10YR41				0					55	30	III	3a	17		1		22.97	2	8.07	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
979		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3a	17		1		23.01	2	6.79	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
980		B	≤7	30		C	N	10YR42				10	HR				55	30	III	3b	17		1		21.56	2	6.77	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	25/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
981		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		19.84	2	6.17	2
				55		C		10YR63	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	25/55	10YR56		10	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
982		B	≤7	30		SC	N	10YR32				0					50	30	III	3b	17		1		26.36	2	11.57	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
983		B	≤7	28		HCL	N	10YR41				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
984		B	≤7	25		HCL	N	10YR32				5	HR				50	25	III	3b	18		1		23.24	2	9.57	2
				50		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
985		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
986		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
987		B	≤7	30		C	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
988		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
989		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR42	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
990		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
991		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
992		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		20.76	2	10.14	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
993		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
994		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
995		B	≤7	28		HCL	N	10YR42				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
996		B	≤7	30		SC	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
997		B	≤7	30		SC	N	10YR42				5	HR				45	30	III	3b	18		1		21.59	2	18.22	1
				45		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				65		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
998		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
999		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1000		B	≤7	30		C	N	10YR42				5	HR				30	30	IV	3b	17		1		26.40	2	10.29	1
				55		C		10YR63	20/30	10YR56		5	HR	P	CAB	MD					16	8	1	0.5				
				120		C		10YR63	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1001		B	≤7	30		HZCL	N	10YR42				5	HR				50	30	III	3b	19		1		31.56	1	16.77	1
				50		HZCL		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1002		B	≤7	30		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		19.47	2	5.49	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					12	7	1	0.5				
				120																	0	0	0	0.5				
1003		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
1004		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
1005		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1006		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1007		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1008		P	≤7	30		HCL	N	10YR42				10	HR				55	30	III	3b	18		1		21.04	2	6.47	2
				55		HCL		10YR42	15/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1009		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		22.69	2	9.02	2
				55		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1010		B	≤7	30		HCL	N	10YR43				15	HR				55	30	III	3b	18		1		14.31	2	0.92	2
				55		HCL		10YR42	25/30	10YR56		15	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1011		B	≤7	30		HCL	N	10YR43				5	HR				55	30	III	3b	18		1		27.76	2	12.02	1
				55		HCL		10YR42	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1012		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		27.76	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1013		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1014		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1015		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1016		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		24.37	2	10.89	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1017		B	≤7	30		HZCL	N	10YR41				5	HR				55	30	III	3b	19		1		28.71	2	12.49	1
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
1018		B	≤7	30		HZCL	N	10YR41				5	HR				55	30	III	3b	19		1		32.51	1	17.24	1
				55		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
1019		B	≤7	30		SCL	N	10YR41				5	HR				55	30	III	3b	17		1		23.01	2	6.79	2
				55		SC		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					16	8	1	0.5				
																					0	0	0	0				
1020		B	≤7	30		C	N	10YR42				10	HR				30	30	III	3b	17		1		24.00	2	7.89	2
				55		C		10YR63	20/30	10YR56		5	HR	P	CAB	MD					16	8	1	0.5				
				120		C		10YR63	25/55	10YR56		0		P	CPR	MD					16	8	1	0.5				
				120								0									0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought, WHEAT)	MBP	Grade (Drought, POTATOES)
1021		B	≤7	25		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		20.64	2	5.37	2
				55		C		7.5R53	10/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		7.5R41	20/55	10YR56		5	HR	P	CPR	MD					12	7	1	0.5				
				120																	0	0	0	0.5				
1022		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
1023		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		24.91	2	9.17	2
				55		HCL		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
1024		B	≤7	30		HCL	N	10YR42				10	HR				50	30	III	3b	18		1		24.26	2	9.47	2
				50		C		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1025		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1026		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR63	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1027		B	≤7	30		HCL	N	10YR42				10	HR				55	30	III	3b	18		1		23.47	2	7.59	2
				55		HCL		10YR42	25/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1028		P	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1029		B	≤7	30		HZCL	N	10YR43				5	HR				55	30	III	3b	19		1		27.64	2	14.99	1
				55		HZCL		10YR42	15/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR53	25/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1030		B	≤7	30		HZCL	N	10YR43				5	HR				55	30	III	3b	19		1		29.66	2	14.87	1
				55		C		10YR42	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1031		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1032		B	≤7	30		C	N	10YR41				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1033		B	≤7	30		HZCL	N	10YR32				5	HR				55	30	III	3b	19		1		29.66	2	14.87	1
				55		C		10YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1034		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		22.69	2	9.02	2
				50		HCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	15/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1035		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1036		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR64	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1037		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		26.81	2	12.02	1
				45		C		10YR53	25/45	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1038		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SCL		10YR53	5/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1039		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b	18		1		25.39	2	10.59	1
				45		SC		10YR53	15/45	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1040		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		14.76	2	0.92	2
				45		HZCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)
1041		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		29.66	2	14.87	1
				55		C		10YR42	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1042		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1043		B	≤7	30		HCL	N	10YR42				5	HR				55	25	IV	3b	18		1		21.59	2	7.74	2
				55		C		7.5R53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0.5				
1044		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0.5				
1045		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0.5				
1046		B	≤7	30		HZCL	N	10YR42				5	HR				45	30	III	3b	19		1		21.59	2	7.74	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1047		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	20/45	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1048		P	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		15.04	2	2.27	2
				50		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/50	10YR56		10	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1049		B	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	20/45	10YR56		5	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1050		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		8.14	2	0.77	2
				55		HZCL		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		HZCL		10YR41	25/55	10YR56		10	CH	P	CPR	WK					12	6	1	0.5				
																					0	0	0	0				
1051		B	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1052		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		4.24	3a	3.99	2
				55		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1053		B	≤7	25		HZCL	N	10YR41				5	HR				55	25	III	3b	19		1		22.06	2	9.17	2
				55		C		10YR42	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1054		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		17.89	2	5.12	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	15/50	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1055		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0.5				
1056		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0.5				
1057		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0.5				
1058		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0.5				
1059		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1060		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1061		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		17.31	2	3.47	2
				50		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/50	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1062		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		12.76	2	1.07	2
				50		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	20/50	10YR56		15	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1063		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1064		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		9.82	2	3.99	2
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		10	HR	P	CPR	WK					13	6	1	0.5				
																					0	0	0	0				
1065		B	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1066		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1067		B	≤7	25		HZCL	N	10YR41				5	HR				55	25	III	3b	19		1		22.06	2	9.17	2
				55		C		10YR42	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1068		P	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		17.89	2	5.12	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	15/50	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1069		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0.5				
1070		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		10.99	2	3.62	2
				55		HZCL		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		HZCL		10YR41	25/55	10YR56		10	CH	P	CPR	WK					12	6	1	0.5				
																					0	0	0	0				
1071		B	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1072		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		4.24	3a	3.99	2
				55		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1073		B	≤7	25		HZCL	N	10YR41				5	HR				55	25	III	3b	19		1		22.06	2	9.17	2
				55		C		10YR42	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1074		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		17.89	2	5.12	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	15/50	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1075		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1076		B	≤7	30		C	N	10YR42				5	HR				55	25	III	3b	17		1		18.74	2	4.89	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0				
1077		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		12.19	2	-0.58	2
				45		HZCL		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		10	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1078		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		23.49	2	10.59	1
				55		C		10YR42	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1079		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		20.16	2	6.32	2
				50		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	15/50	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1080		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		7.5YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		7.5YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1081		B	≤7	30		HZCL	N	10YR41				5	HR				60	30	III	3b	19		1		23.96	2	12.02	1
				60		C		10YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	20/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1082		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		17.74	2	3.62	2
				55		HCL		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		HCL		10YR41	25/55	10YR56		10	HR	P	CPR	WK					12	7	1	0.5				
																					0	0	0	0				
1083		B	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		14.46	2	0.62	2
				45		SC		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1084		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		15.67	2	3.99	2
				55		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1085		B	≤7	25		HZCL	N	10YR41				5	HR				55	25	III	3b	19		1		22.06	2	9.17	2
				55		C		10YR42	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1086		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		17.89	2	5.12	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	15/50	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1087		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		21.59	2	7.74	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0.5				
1088		P	≤7	30		C	N	10YR42				5	HR				55	25	III	3b	17		1		18.74	2	4.89	2
				55		C		10YR55	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0.5				
1089		B	≤7	30		MCL	N	10YR41				5	HR				50	30	III	3a	18		1		20.16	2	6.32	2
				50		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR52	15/50	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1090		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		7.5YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0				
1091		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
				120																	0	0	0	0				
1092		B	≤7	30		HZCL	N	10YR41				5	HR				60	30	III	3b	19		1		21.10	2	12.02	1
				60		C		10YR42	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1093		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		22.32	2	8.34	2
				55		HCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		HCL		10YR41	25/55	10YR56		10	HR	P	CPR	WK					12	7	1	0.5				
																					0	0	1	0.5				
1094		B	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		14.46	2	0.62	2
				45		SC		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					15	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	1	0.5				
1095		B	≤7	30		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		21.59	2	7.74	2
				55		C		7.5YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		7.5YR41	20/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1096		B	≤7	30		C	N	10YR42				10	HR				45	30	III	3b	18		1		12.49	2	-0.28	2
				45		C		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1097		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		13.56	2	3.09	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR46	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1098		B	≤7	25		HZCL	N	10YR41				5	HR				55	25	III	3b	19		1		22.06	2	9.17	2
				55		C		10YR42	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1099		B	≤7	28		HCL	N	10YR42				5	HR				60	28	III	3b	17		1		18.07	2	6.13	2
				60		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR46	25/60	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1100		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		10.19	2	-0.66	2
				55		C		10YR53	15/30	10YR56		15	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR46	25/55	10YR56		15	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1101		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		13.56	2	3.09	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR46	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1102		B	≤7	30		HZCL	N	10YR41				5	HR				55	30	III	3b	19		1		24.44	2	10.59	1
				55		HCL		10YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR53	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1103		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		13.56	2	3.09	2
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR46	25/55	10YR56		15	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1104		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR63	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0.5				
1105		B	≤7	28		HCL	N	10YR42				5	HR				45	28	III	3b	18		1		18.36	2	4.51	2
				45		HZCL		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/45	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1106		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		15.89	2	2.04	2
				45		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	20/45	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1107		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		15.04	2	2.27	2
				50		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/50	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1108		P	≤7	30		C	N	10YR42				5	HR				45	30	III	3b	17		1		15.89	2	2.04	2
				45		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	20/45	10YR56		5	CH	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1109		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		9.92	2	1.59	2
				55		HZCL		10YR53	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		HZCL		10YR41	25/55	10YR56		5	CH	P	CPR	WK					12	6	1	0.5				
																					0	0	0	0				
1110		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		17.79	2	4.89	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		5	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1111		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17		1		15.67	2	3.99	2
				55		HZCL		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		SC		10YR41	25/55	10YR56		10	HR	P	CPR	WK					13	7	1	0.5				
																					0	0	0	0				
1112		B	≤7	25		MCL	N	10YR42				2	HR				25	25	IV	3b	18		1		16.67	2	5.87	2
				50		HCL		10YR43	5/25	7.5YR56	7.5YR53	2	HR	P	CP	MD					16	10	1	0.5				
				120		HCL		10YR53	10/50	7.5YR56		5	HR	P	M	WK					12	7	1	0.5				
				120								0									0	0	0	0				
1113		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1114		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR42	25/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1115		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR42	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1116		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR42	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1117		B	≤7	30		C	N	10YR41				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR42	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1118		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1119		B	≤7	30		C	N	10YR32				5	HR				55	30	III	3b	17		1		23.96	2	9.17	2
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1120		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1121		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		21.34	2	7.67	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1122		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		19.84	2	6.17	2
				55		C		10YR64	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1123		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1124		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1125		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1126		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1127		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1128		P	≤7	28		C	Y	2.5YR52				5	HR				40	28	III	3b	17		1		22.87	2	8.08	2
				40		C		10YR53	20/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/40	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1129		B	≤7	28		C	Y	2.5YR52				5	HR				45	28	III	3b	17		1		22.50	2	7.70	2
				45		C		10YR53	15/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1130		B	≤7	30		HCL	Y	2.5YR52				5	HR				50	30	III	3b	18		1		25.31	2	10.52	1
				50		HCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1131		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1132		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		16.91	2	8.98	2
				55		C		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1133		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1134		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1135		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1136		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		29.66	2	14.87	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1137		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1138		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1139		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1140		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Dought. WHEAT)	MBP	Grade (Dought. POTATOES)
1141		B	≤7	30		C	N	10YR42				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1142		B	≤7	30		HCL	Y	10YR32				5	HR				55	30	III	3b	18		1		26.02	2	10.14	1
				55		HCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1143		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1144		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1145		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1146		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		22.38	2	8.26	2
				55		HZCL		10YR64	15/28	10YR56		10	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1147		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		29.66	2	14.87	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1148		P	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1149		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1150		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1151		B	≤7	28		HCL	N	10YR42				10	HR				55	28	III	3b	17		1		19.69	2	4.71	2
				55		C		10YR64	15/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1152		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		30.87	1	14.87	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1153		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1154		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1155		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		24.37	2	10.42	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1156		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1157		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1158		B	≤7	28		HZCL	N	10YR42				5	HR				55	28	III	3b	19		1		29.09	2	14.30	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1159		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1160		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		40.11	1	12.02	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		HCL		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	10	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. % / depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought, WHEAT)	MBP	Grade (Drought, POTATOES)
1161		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1162		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1163		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1164		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1165		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1166		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1167		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1168		P	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1169		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1170		B	≤7	Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1171		B	≤7	28		HCL	N	10YR42				10	HR				55	28	III	3b	17		1		19.69	2	4.71	2
				55		C		10YR64	15/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1172		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		30.87	1	14.87	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1173		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1174		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1175		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		24.37	2	10.42	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1176		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1177		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1178				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1179		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1180		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1181		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1182		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		32.51	1	17.24	1
				55		HZCL		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1183		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1184		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1185		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1186		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		22.38	2	8.26	2
				55		HZCL		10YR64	15/28	10YR56		10	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1187		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1188		P	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1189		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		29.66	2	14.87	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1190		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1191		B	≤7	28		HCL	N	10YR42				10	HR				55	28	III	3b	17		1		19.69	2	4.71	2
				55		C		10YR64	15/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1192		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		30.87	1	14.87	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1193		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1194		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1195		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		24.37	2	10.42	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1196		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1197		B	≤7	28		HZCL	N	10YR32				5	HR				50	28	III	3b	19		1		29.09	2	14.30	1
				50		HCL		10YR64	20/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1198		B	≤7	28		HZCL	N	10YR42				5	HR				55	28	III	3b	19		1		20.54	2	8.00	2
				55		C		10YR64	20/28	10YR56		15	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		15	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1199		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR53	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1200		B	≤7	35		HCL	N	10YR32				5	HR				50	35	III	3b	18		1		27.76	2	12.97	1
				50		HCL		10YR64	20/35	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1201		B	≤7	28		HCL	N	10YR42				10	HR				55	28	III	3b	18		1		22.21	2	7.23	2
				55		C		10YR64	20/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1202		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1203		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1204		B	≤7	30		HZCL	N	10YR32				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1205		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		24.87	2	10.19	1
				55		C		10YR64	15/28	10YR56		2	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1206		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1207		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1208		P	≤7	30		HCL	N	10YR32				15	HR				50	30	III	3b	18		1		21.71	2	6.92	2
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1209		B	≤7	30		C	N	10YR32				0					50	35	III	3b	18		1		44.87	1	17.67	1
				65		C		10YR64	20/30	10YR56		0		P	MSAB	MD					16	10	1	0.5				
				120		HZCL		10YR41	25/65	10YR56		5	HR	P	CPR	MD					17	10	1	0.5				
																					0	0	0	0				
1210		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1211		B	≤7	28		HCL	N	10YR42				10	HR				55	28	III	3b	17		1		19.69	2	4.71	2
				55		C		10YR64	15/28	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1212		B	≤7	30		C	N	10YR32				5	HR				55	30	III	3b	17		1		25.17	2	9.17	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1213		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1214		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1215		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		24.37	2	10.42	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1216		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1217		B	≤7	30		HCL	N	10YR41				0					50	30	III	3b	19		1		32.36	1	17.57	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1218		B	≤7	28		HCL	N	10YR41				5	HR				55	28	III	3b	19		1		29.09	2	14.30	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1219		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1220		B	≤7	30		C	N	10YR32				5	HR				65	30	III	3b	18		1		40.11	1	12.49	1
				65		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		HZCL		10YR41	25/65	10YR56		5	HR	P	CPR	MD					17	10	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1221		B	≤7	28		HCL	N	10YR42				10	HR				55	28	III	3b	17		1		24.57	2	9.30	2
				55		HZCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1222		B	≤7	30		HCL	N	10YR32				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1223		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1224		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1225		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		24.37	2	10.42	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1226		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1227		B	≤7	30		HCL	N	10YR41				0					50	30	III	3b	19		1		32.36	1	17.57	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1228		P	≤7	30		C	N	10YR32				5	HR				65	30	III	3b	18		1		42.01	1	15.82	1
				65		HZCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		HZCL		10YR41	25/65	10YR56		5	HR	P	CPR	MD					17	10	1	0.5				
																					0	0	0	0				
1229		B	≤7	30		C	N	10YR32				5	HR				65	30	III	3b	18		1		40.11	1	12.49	1
				65		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		HZCL		10YR41	25/65	10YR56		5	HR	P	CPR	MD					17	10	1	0.5				
																					0	0	0	0				
1230		B	≤7	30		HCL	N	10YR32				10	HR				50	30	III	3b	18		1		22.76	2	7.97	2
				50		C		10YR42	15/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1231		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR41	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1232		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1233		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1234		P	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1235		B	≤7	30		HCL	N	10YR41				0					50	30	III	3b	19		1		32.36	1	17.57	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1236		B	≤7	28		HCL	N	10YR41				5	HR				55	28	III	3b	19		1		29.09	2	14.30	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1237		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1238		B	≤7	30		HCL	N	10YR41				0					55	30	III	3b	19		1		33.31	1	17.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1239		B	≤7	28		HCL	N	10YR41				5	HR				55	28	III	3b	19		1		29.09	2	14.30	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1240		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1241		B	≤7	25		HCL	N	10YR42				0					55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1242		B	≤7	25		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		26.81	2	11.07	1
				55		HCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1243		B	≤7	25		HCL	N	10YR41				0					55	25	III	3b	18		1		30.05	1	15.44	1
				55		C		10YR53	15/25	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1244		B	≤7	25		HCL	N	10YR32				0	HR				55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1245		B	≤7	25		C	N	10YR42				0					55	25	III	3b	17		1		28.81	2	13.54	1
				55		HZCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1246		B	≤7	25		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		26.81	2	11.07	1
				55		HCL		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1247		B	≤7	25		HCL	N	10YR41				0					55	25	III	3b	18		1		30.05	1	15.44	1
				55		C		10YR53	15/25	10YR56		0		P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1248		P	≤7	25		HCL	N	10YR32				0	HR				55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	15/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1249		B	≤7	28		HCL	N	10YR32				5	HR				50	28	III	3b	18		1		26.43	2	11.64	1
				50		HCL		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1250		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		24.97	2	10.29	1
				55		C		10YR64	20/30	10YR56		2	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1251		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		26.81	2	12.02	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1252		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		30.62	1	12.02	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1253		B	≤7	30		HCL	N	10YR32				10	HR				50	30	III	3b	18		1		24.26	2	9.47	2
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1254		B	≤7	25		HCL	N	10YR31				0	HR				55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1255		B	≤7	25		HCL	N	10YR42				0	HR				55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1256		B	≤7	25		HCL	N	10YR42				0	HR				55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1257		B	≤7	25		HCL	N	10YR42				0	HR				55	25	III	3b	18		1		28.94	2	13.19	1
				55		HCL		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1258		B	≤7	25		HCL	N	10YR42				0	HR				55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1259		B	≤7	25		HCL	N	10YR42				0	HR				55	25	III	3b	18		1		27.99	2	13.19	1
				55		C		10YR53	20/25	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	25/55	10YR56		5	CH	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1260				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Dought. WHEAT)	MBP	Grade (Dought. POTATOES)
1261													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1262													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1263													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1264													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1265													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1266													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1267													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1268													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1269													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1270													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1271		B	≤7	30		HZCL	N	10YR42				5	HR				55	30	III	3b	19		1		29.66	2	14.87	1
				55		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1272		B	≤7	35		MCL	N	10YR43				5	HR				50	30	III	3a	18		1		39.20	1	12.97	1
				50		HCL		10YR53				5	HR	P	MSAB	MD					16	10	1	0.5				
				70		C		10YR53	10/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR54	15/70	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
1273		B	≤7	30		HZCL	N	10YR42				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		C		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1274		B	≤7	30		HZCL	N	10YR42				5	HR				50	30	III	3b	19		1		29.66	2	14.87	1
				50		C		10YR64	10/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1275		B	≤7	30		MCL	N	10YR41				5	HR				50	30	III	3a	18		1		28.54	2	12.02	1
				65		SCL		10YR53				5	HR	P	MSAB	MD					16	10	1	0.5				
				90		C		10YR53	10/65	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR41	20/90	10YR56		10	SSST	P	CPR	MD					16	8	1	0.5				
1276		B	≤7	35		MCL	N	10YR43				10	HR				50	30	III	3a	18		1		23.66	2	8.87	2
				50		HCL		10YR53				10	HR	P	MSAB	MD					16	10	1	0.5				
				70		C		10YR53	15/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR54	20/70	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
1277		B	≤7	35		MCL	N	10YR43				10	HR				50	30	III	3a	18		1		23.66	2	8.87	2
				50		HCL		10YR53				10	HR	G	MSAB	MD					16	10	1	0.5				
				70		C		10YR53	10/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR54	20/70	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
1278		B	≤7	35		MCL	N	10YR43				5	HR				50	30	III	3a	18		1		27.76	2	12.97	1
				50		HCL		10YR53				5	HR	G	FAB	MD					16	10	1	0.5				
				70		C		10YR53	10/50	10YR56		5	HR	P	MPR	MD					16	8	1	0.5				
				120		C		10YR54	20/70	10YR56		5	HR	P	M	WK					16	8	1	0.5				
1279		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1280		B	≤7	35		MCL	N	10YR43				10	HR				50	30	III	3a	18		1		23.66	2	8.87	2
				50		HCL		10YR53				10	HR	G	MSAB	MD					16	10	1	0.5				
				70		C		10YR53	10/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
				120		C		10YR54	20/70	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts/ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Dought. WHEAT)	MBP	Grade (Dought. POTATOES)
1281		B	≤7	30		HCL	N	10YR41				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1282				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1283		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR53	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1284		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1285		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		21.52	2	8.04	2
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1286		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1287		B	≤7	30		HCL	N	10YR41				0					55	30	III	3b	19		1		33.31	1	17.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1288		P	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1289		B	≤7	30		HCL	N	10YR41				0					50	30	III	3b	19		1		32.36	1	17.57	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1290				Point removed																					#VALUE!	#VALUE!	#VALUE!	#VALUE!
1291		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		C		10YR41	15/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	30/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1292		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1293		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17		1		26.81	2	11.54	1
				55		HZCL		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0.5				
1294		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1295		B	≤7	30		HCL	N	10YR41				0					55	30	III	3b	19		1		33.31	1	17.57	1
				55		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1296		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		40.11	1	10.59	1
				55		HCL		10YR41	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SC		10YR53	25/55	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
1297		B	≤7	30		HCL	N	10YR41				0					50	30	III	3b	19		1		32.36	1	17.57	1
				50		C		10YR53	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR42	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1298		B	≤7	35		MCL	N	10YR43				10	HR				50	30	III	3a	18		1		18.91	2	8.87	2
				50		HCL		10YR53				10	HR	G	FAB	MD					16	10	1	0.5				
				70		C		10YR53	10/50	10YR56		5	HR	P	MPR	MD					16	8	1	0.5				
				120		C		10YR54	20/70	10YR56		5	HR	P	M	WK					13	7	1	0.5				
1299		B	≤7	30		HCL	N	10YR42				10	HR				55	30	III	3b	18		1		37.56	1	8.04	2
				55		HCL		10YR41	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SCL		10YR53	25/55	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
1300		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		40.11	1	10.59	1
				55		HCL		10YR41	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SCL		10YR53	25/55	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1301		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	18		1		40.11	1	10.59	1
				55		HCL		10YR41	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SCL		10YR53	25/55	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
1302		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		37.02	1	9.54	2
				55		HCL		10YR41	25/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SCL		10YR53	25/55	10YR56		10	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
1303		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		40.11	1	10.12	1
				50		HCL		10YR41	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SCL		10YR53	25/50	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
1304		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	18		1		40.11	1	10.59	1
				55		HCL		10YR41	15/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		SCL		10YR53	25/55	10YR56		5	HR	P	CPR	MD					15	10	1	0.5				
																					0	0	0	0				
1305		B	≤7	30		HCL	Y	2.5YR52				5	HR				50	30	III	3b	18		1		25.31	2	10.52	1
				50		HCL		10YR53	15/30	10YR56		10	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1306		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		24.19	2	10.52	1
				50		HCL		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5				
				120		C		10YR41	25/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1307		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1308		P	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		23.96	2	9.17	2
				50		C		10YR64	20/30	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1309		B	≤7	28		HCL	N	10YR41				5	HR				55	28	III	3b	17		1		23.77	2	8.98	2
				55		C		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1310		B	≤7	30		HCL	N	10YR32				5	HR				50	30	III	3b	17		1		19.84	2	6.17	2
				50		C		10YR64	20/30	10YR56		10	HR	P	MSAB	MD					16	8	1	0.5				
				120		C		10YR41	20/50	10YR56		10	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1311		B	≤7	25		MSZL	N	10YR33				5	HR				30	30	IV	3b	19		1		3.41	3a	19.14	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1312		B	≤7	25		ZL	N	10YR33				5	HR				30	30	IV	3b	23		1		20.06	2	25.32	1
				35		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/35	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1313		B	≤7	25		ZL	N	10YR41				5	HR				30	30	IV	3b	23		1		9.59	2	25.32	1
				35		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/35	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1314		B	≤7	25		ZL	N	10YR33				5	HR				30	30	IV	3b	23		1		9.59	2	25.32	1
				35		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/35	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1315		B	≤7	25		ZL	N	10YR41				5	HR				70	70	III	3a	23		1		-2.29	3a	11.54	1
				40		ZL		10YR43				5	HR	P	M						22	14	1	0.5				
				70		LMS		7.5YR53	5/40	10YR56		5	HR	P	M						9	6	1	0.5				
				120		SC		10YR52	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1316		B	≤7	25		ZL	N	10YR33				5	HR				40	40	III	3a	23		1		-5.15	3a	11.54	1
				40		ZL		10YR42				5	HR	P	M						22	14	1	0.5				
				65		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						9	6	1	0.5				
				120		SC		10YR53	5/65	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1317		B	≤7	25		ZL	N	10YR33				5	HR				30	30	IV	3b	23		1		7.69	2	25.32	1
				35		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		SC		7.5YR53	10/35	10YR56		5	HR	P	M						15	10	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1318		B	≤7	25		ZL	N	10YR321				5	HR				30	30	IV	3b	23		1		7.69	2	25.32	1
				35		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		SC		7.5YR53	10/35	10YR56		5	HR	P	M						15	10	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				
1319		B	≤7	30		ZL	N	10YR43				5	HR				30	30	III	3a	23		1		13.39	2	29.12	1
				40		ZL		10YR43	2/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1320		B	≤7	25		ZL	N	10YR33				5	HR				30	30	IV	3b	23		1		12.91	2	28.64	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					17	11	1	0.5				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1321		B	≤7	30		ZL	N	10YR42				10	HR				30	30	IV	3b	23		1		10.09	2	25.82	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	5/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1322		B	≤7	25		ZL	N	10YR42				10	HR				25	25	IV	3b	23		1		10.16	2	25.89	1
				40		ZL		10YR42	5/25	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	5/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1323		B	≤7	30		ZL	N	10YR41				5	HR				30	30	IV	3b	23		1		13.39	2	29.12	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	5/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1324		B	7-11	25		ZL	N	10YR41				5	HR				40	40	III	3a	23		1		12.91	2	28.64	1
				40		ZL		10YR42				5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR52	10/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1325		B	≤7	30		ZL	N	10YR33				5	HR				30	30	IV	3b	23		1		13.39	2	29.12	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1326		B	≤7	30		ZL	N	10YR42				10	HR				30	30	IV	3b	23		1		15.32	2	25.82	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				75		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/75	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1327		B	≤7	30		ZL	N	10YR42				10	HR				30	30	IV	3b	23		1		15.32	2	25.82	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				75		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/75	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1328		P	7-11	30		ZL	N	10YR42				10	HR				30	30	IV	3b	23		1		15.32	2	25.82	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				75		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/75	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1329		B	7-11	30		ZL	N	10YR33				5	HR				30	30	IV	3b	23		1		13.39	2	29.12	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SCL		10YR53	10/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1330		B	≤7	30		ZL	N	10YR42				10	HR				30	30	IV	3b	23		1		10.09	2	25.82	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	5/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1331		B	7-11	25		ZL	N	10YR41				5	HR				40	40	III	3a	23		1		3.89	3a	17.72	1
				45		ZL		10YR42	5/25	10YR56		5	HR	P	M						22	14	1	0.5				
				70		LMS		7.5YR53	5/45	10YR56		5	HR	P	M						9	6	1	0.5				
				120		SCL		10YR52	5/70	10YR56		5	HR	P	CPR	WK					15	10	1	0.5				
1332		B	7-11	30		ZL	N	10YR42				10	HR				30	30	IV	3b	23		1		36.27	1	25.82	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				75		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SC		10YR53	10/75	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1333		B	≤7	30		ZL	N	10YR33				5	HR				30	30	IV	3b	23		1		13.39	2	29.12	1
				40		ZL		10YR42	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	5/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SCL		10YR53	10/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1334		B	≤7	30		ZL	N	10YR43				5	HR				30	30	IV	3b	23		1		13.39	2	29.12	1
				40		ZL		10YR41	5/30	10YR56		5	HR	P	M						22	14	1	0.5				
				70		MSL		7.5YR53	10/40	10YR56		5	HR	P	M						15	11	1	0.5				
				120		SCL		10YR53	10/70	10YR56		5	HR	P	CPR	WK					13	8	1	0.5				
1335		B	≤7	15		MZCL	N	10YR43				5	HR				25	15	III	3a	19		1		30.61	1	7.27	2
				25		MZCL		10YR53	10/15	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		HZCL		10YR56	20/25	10YR56		5	HR	P	CPR	MD					15	9	1	0.5				
																					0	0	0	0				
1336		B	≤7	20		MZCL	N	10YR32				5	HR				35	35	IV	3b	19		1		28.24	2	13.44	1
				35		MZCL		10YR42	15/20	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		ZC		10YR41	25/35	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1337		B	≤7	20		MZCL	N	10YR32				5	HR				40	20	III	3a	19		1		28.71	2	13.92	1
				40		MZCL		10YR42	15/20	10YR56		5	HR	P	MSAB	MD					17	10	1	0.5				
				120		ZC		10YR41	20/40	10YR56		5	HR	P	CPR	MD					16	8	1	0.5				
																					0	0	0	0				
1338				Point removed																								
1339				Point removed																								
1340				Point removed																								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Motts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (/F=firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)
1341													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
1342													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
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1345													Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!
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SOIL ENVIRONMENT SERVICES LIMITED

Statement of competence - Agricultural land Classification

SES Ltd undertake several dozen Agricultural Land Classification (ALC) or Land Capability Classifications for Agriculture (LCCA-Scotland) surveys a year and have worked on sites up to 1000 ha including housing, roads, solar farm and mineral extraction developments.. We have been undertaking ALC surveys for 25 years and have won many contracts to supply Land Classification reports to local authorities as part of their strategic development plans. A number of our staff have attended the training course Agricultural Land Classification: England and Wales. Working with Soil – The IPSS Professional Competency Scheme. BSSS & DEFRA.

DR ROBIN DAVIES BSc PhD F.I.SoilSci. (Managing Director)

- Fellow of The British Society of Soil Science
- Council Member of The Institute of Professional Soil Scientists for 4 years.
- PhD Soil Physics - Agricultural land drainage - University of Newcastle upon Tyne
- Founder and Managing Director of Soil Environment Services Limited for 25 years.

Selected peer reviewed scientific papers:

* **Soil nitrogen depletion - the threat from soil stockpiling**. Environmental Scientist: Journal of The Institution of Environmental Sciences, 1997.
* **Nitrogen loss from a soil, restored after surface-mining**. Journal of Environmental Quality, 1995
* **The influence of soil factors on the growth of a grass/clover sward on a restored site in Northumberland.** Grass & Forage Science, 1994.
* **The effect of post-restoration cropping regime on some physical properties of a restored soil.** Soil Use & Management, 1994
* **Water availability in a restored soil.** Soil Use & Management, 1992.
* **A laboratory Method for Investigating the Stabilisation of Mole** Channels.J.Agric.Eng.Res.1991.

Louise Tavasso BSc (Hons). (Soil surveyor/ Environmental Consultant)

Member of British Society of Soil Science
Postgraduate short course Contaminated Land Risk assessment – LQM Nottingham University

Worked for Soil Environment Services Limited for 16 years. Environmental consultant with initial work in contaminated land risk assessment and since 2011 as assistant soil surveyor with last three years as lead consultant on agricultural land classification surveys. All work areas have required field survey and identification and description of soils combined with an understanding of soil processes for reporting.

Completed the BSSS Agricultural Land Classification Course – 2021.

Main areas of specialisation

1 Agricultural Land Classification

Soil survey and Agricultural Land Classification for planning applications –, roads, housing, solar parks. Fully conversant with the procedures of the *Agricultural Land Classification of England and Wales, Guidelines and criteria for grading the quality of agricultural land,* 1988, MAFF, London.

2 Soil survey for habitat restoration

Soil survey and nutrient analysis assessment for conversion of farmland to species rich grassland.

3 Contaminated land risk assessment

Phase 1 site survey risk assessment of contaminated land; site investigation, on-site monitoring; risk analysis, modelling and communication; recommendations for Phase 2 and remediation options.

Examples of Agricultural Land Classification (ALC or LCCA Scotland) consultancy work

Kier Mining. Greenburn Opencast Coal Site. Soils and deep peat survey for LCCA report soil resources planning. 2011

Newcastle International Airport Ltd. ALC survey for solar park development. 2021.

Examples of soil survey habitat creation consultancy work

BSG Ecology. Backwork Estate – farmland conversion to wildflower meadow. 2020.

Private garden owner. Soil survey and recommendation for drainage system design. 2021

Examples of contaminated land consultancy work

Numerous risk assessments on petrol stations for hydrocarbon leakages (2006-2019)

Farm building risk assessments for conversion to residential housing (2006-2019)

REFERENCES

1. ***Agricultural Land Classification of England and Wales***. Revised guidelines and criteria for grading the quality of agricultural land. MAFF. 1988.

2. ***Soil Survey Field Handbook.*** Technical Monograph No.5. Soil Survey of England and Wales.1976.

3. ***Climatological Data for Agricultural Land Classification***, The Met. Office 1989

4. ***Soil Map of England and Wales: 1:250 000***. Soil Survey of England and Wales, Harpenden.

5. ***Soils and Their Use in Eastern England.*** Soil Survey of England and Wales,

6. ***Agricultural Land Classification Map*** 1:250 000. MAFF 1983.

7. ***Risk of Flooding:*** https://flood-warning-information.service.gov.uk/long-term-flood-risk

8. ***Geology of Britain Viewer.*** *Reproduced with the permission of the British Geological Survey ©NERC. All rights Reserved*

9. ***Butler, B E.*** *Soil Classification for Soil Survey Monographs on Soil Survey (1980) Clarendon Press, Oxford*

10. ***Munsell Soil Colour Charts***, *Munsell Colour, Grand Rapids* ***1994.***

GLOSSARY

ABBREVIATIONS AND TERMS USED IN SURVEY DATA

Soil pit and auger boring information collected during ALC survey is held on a computer database and is reproduced in this report. Terms used and abbreviations are set out below. These conform to definitions contained in the Soil Survey Field Handbook (Hodgson, 1997).

1. Terms used on computer database, in order of occurrence.

GRID REF: National 100 km grid square and 8 figure grid reference.

LAND USE: At the time of survey

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

GRDNT: Gradient as estimated or measured by hand-held optical clinometer.

GLEY, SPL: Depth in centimetres to gleying or slowly permeable layer.

AP (WHEAT/POTS): Crop-adjusted available water capacity.

MB (WHEAT/POTS): Moisture Balance. (Crop adjusted AP - crop potential MD)

DRT: Best grade according to soil droughtiness.

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				

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

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)

MOTTLE COL: Mottle colour using Munsell notation.

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%+

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.

PED. COL: Ped face colour using Munsell notation.

GLEY: If the soil horizon is gleyed a 'Y' will appear in this column. If slightly gleyed, an 'S' will appear.

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 sandstone	**GS:**	Gravel with porous (soft) stones
SI:	Soft weathered igneous or metamorphic rock		

Stone contents are given in % by volume for sizes >2cm, >6cm and total stone >2mm.

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

Degree of development	**WA:**	Weakly developed Adherent	**WK:**	Weakly developed
	MD:	Moderately developed	**ST:**	Strongly developed
Ped size	**F:**	Fine	**M:**	Medium
	C:	Coarse	**VC:**	Very coarse
Ped Shape	**S:**	Single grain	**M:**	Massive
	GR:	Granular	**AB:**	Angular blocky
	SAB:	Sub-angular blocky	**PR:**	Prismatic
	PL:	Platy		

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

SUBS STR: Subsoil structural condition recorded for the purpose of calculating profile droughtiness: **G:** Good **M:** Moderate **P:** Poor

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

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

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

CALC: If the soil horizon is calcareous with naturally occurring calcium carbonate exceeding 1% a 'Y' will appear this column.

2. Additional terms and abbreviations used mainly in soil pit descriptions.

STONE ASSESSMENT:

V: Visual **S:** Sieved **D:** Displacement

MOTTLE SIZE:

EF:	Extremely fine <1mm	**M:**	Medium 5-15mm
VF:	Very fine 1-2mm>	**C:**	Coarse >15mm
F:	Fine 2-5mm		

MOTTLE COLOUR: May be described by Munsell notation or as ochreous (OM) or grey (GM).

ROOT CHANNELS: In topsoil the presence of 'rusty root channels' might also be noted as RRC.

MANGANESE CONCRETIONS: Assessed by volume

N:	None		**M:**	Many	20-40%
F:	Few	<2%	**VM:**	Very Many	>40%
C:	Common	2-20%			

POROSITY:

P: Poor - less than 0.5% biopores at least 0.5mm in diameter
G: Good - more than 0.5% biopores at least 0.5mm in diameter

ROOT ABUNDANCE:

The number of roots per 100cm^2:		Very Fine and Fine	Medium and Coarse
F:	Few	1-10	1 or 2
C:	Common	10.25	2 - 5
M:	Many	25-200	>5
A:	Abundant	>200	

ROOT SIZE

VF:	Very fine	<1mm	**M:**	Medium	2 - 5mm
F:	Fine	1-2mm	**C:**	Coarse	>5mm

HORIZON BOUNDARY DISTINCTNESS:

Sharp:	<0.5cm	**Gradual:**	6 - 13cm
Abrupt:	0.5 - 2.5cm	**Diffuse:**	>13cm
Clear:	2.5 - 6cm		

HORIZON BOUNDARY FORM: Smooth, wavy, irregular or broken.*

* See Soil Survey Field Handbook (Hodgson, 1997) for details.