

**Tillbridge Solar Project
EN010142**

**Volume 6
Environmental Statement
Appendix 15-2: Agricultural Land
Classification Baseline Report
Document Reference: EN010142/APP/6.2**

**Regulation 5(2)(a)
Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009**

**April 2024
Revision Number: 00**

This report presents a survey of a larger area which was considered for the Scheme during the application and assessment process. As such there are areas surveyed and presented in this report which are no longer within the Order limits. This does not impact on the conclusions of this report.

AGRICULTURAL LAND CLASSIFICATION

AECOM

*Tillbridge Solar
Lincoln*



Our Ref: SES/AECOM/TSL/#V4

Date: 22nd September 2023

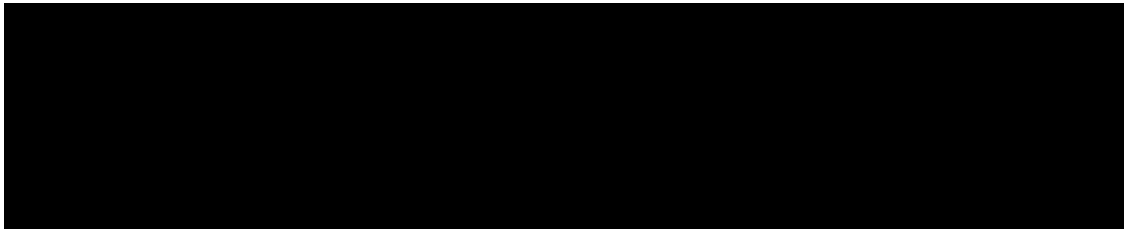
Client:

AECOM
Unit 1 Wellbrook Court
Girton
Cambridge
CB3 0NA

AGRICULTURAL LAND CLASSIFICATION

*Tillbridge Solar
Lincoln*

A report prepared on behalf of *Soil Environment Services* by:



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Soil Environment Services

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Risk Assessment, Mineral Extraction Soil Planning
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STATEMENT OF COMPETENCE

REFERENCES

GLOSSARY

1. INTRODUCTION

An Agricultural Land Classification (ALC) has been carried out on c.1330 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 between September 2022 and September 2023 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 guidelines¹.

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	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.
3b	
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. Pit structural parameters are then applied to the boring data. 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 information³						
	Site centre		West boundary		East boundary	
Factor	Units	Value	Units	Value	Units	Value
Altitude AOD	m	25	m	20	m	50
Accumulated temperature	day°C (Jan-June)	1394.9	day°C (Jan- June)	1400.8	day°C (Jan-June)	1366.1
Average Annual Rainfall	mm	633.1	mm	623.9	mm	651.9
Field Capacity Days	days	133.6	days	131.4	days	139.3
Moisture Deficit Wheat	mm	108.5	mm	109.8	mm	103.1
Moisture Deficit Potatoes	mm	100.4	mm	102.1	mm	94.1
Overall climate ALC Grade	Grade 1		Grade 1		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

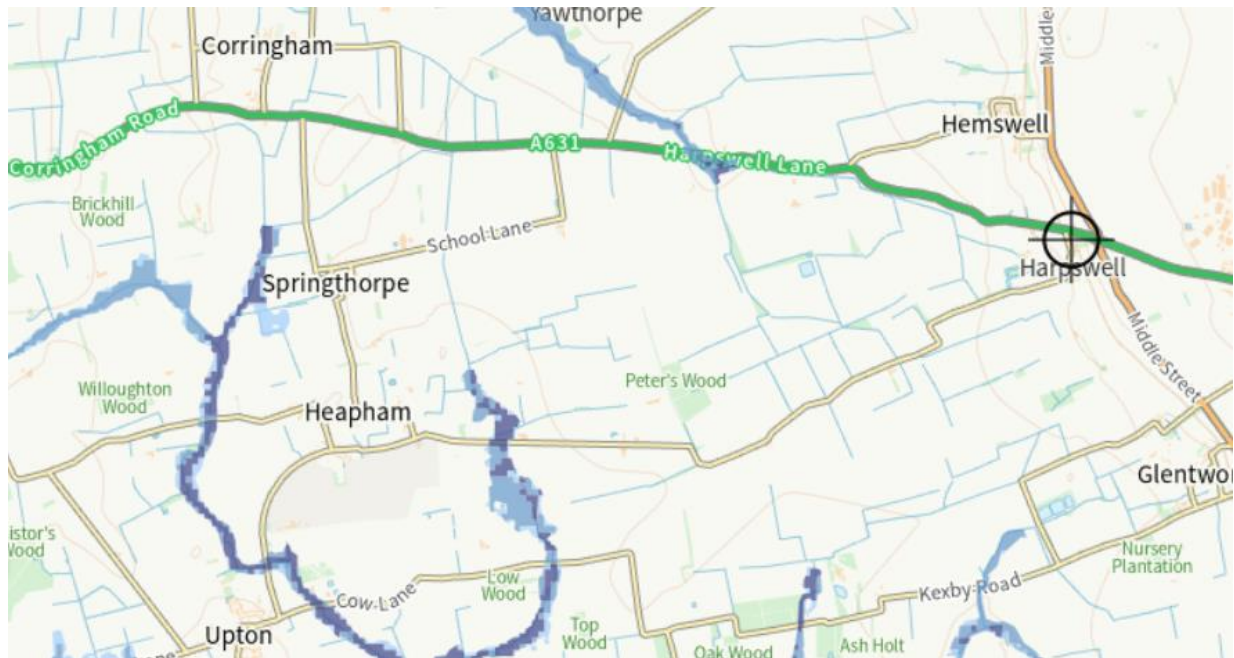
The gradient is generally below 7 degrees and will not result in a significant limiting factor for this site apart from some small areas in the extreme east.

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



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. SES Ltd laboratory

Variation across 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.

The site has previously been mapped as having soils of the following Associations
(XXXXXXXXXX):

- 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.*

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

A parcel of land in the far east of the site had a very complex solid and superficial geology patter, mapped soil pattern and gradient characteristics. This area includes deep droughty sandy soils throughout the centre, wet clay soils in the west and very shallow soils over limestone in the extreme east.

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



ANALYTICAL REPORT									
Report Number	79923-23	F 84	[REDACTED]						
Date Received	14-JUL-2023	SOIL ENVIRONMENT SERVICES LTD							
Date Reported	27-JUL-2023	UNIT 8 STOCKFIELD HALL							
Project	SOIL	STOCKFIELD							
Reference	[REDACTED]	NORTHUMBERLAND NE43 7TN							
Order Number	[REDACTED]								
Laboratory Reference	SOIL636046	SOIL636047	SOIL636048						
Sample Reference	1312	1315	1323						
Determinand	Unit	SOIL	SOIL	SOIL					
Very Coarse Sand 1.0 - 2.0mm	% w/w	2	3	8					
Coarse Sand 0.5 - 1.0mm	% w/w	12	4	6					
Medium Sand 0.25 - 0.50mm	% w/w	54	19	29					
Fine Sand 0.15 - 0.25mm	% w/w	15	19	16					
Very Fine Sand 0.05 - 0.15mm	% w/w	7	29	18					
Silt 0.002 - 0.05mm	% w/w	2	9	9					
Clay <0.002mm	% w/w	8	17	14					
Textural Class **		S	SL	SL					
Notes									
Analysis Notes The sample submitted was of adequate size to complete all analysis requested. The results as reported relate only to the item(s) submitted for testing. The results are presented on a dry matter basis unless otherwise stipulated.									
Document Control This test report shall not be reproduced, except in full, without the written approval of the laboratory.									
** Please see the attached document for the definition of textural classes.									
Reported by	<p>Myles Nicholson Natural Resource Management, a trading division of Cawood Scientific Ltd. Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS Tel: 01344 886338 Fax: 01344 890972 email: enquiries@nrm.uk.com</p>								



4.2 Depth

Soil depths are not shallow and will not result in a significant limiting factor for this site other than for areas adjacent to the limestone in the far east.

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 Ref. 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 the Field Capacity Days variation across the site of plus or minus 3 of the average 133.6 and the topsoil texture of heavy clay loam, sandy clay 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.

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 with the exception of smaller areas of sandy loam topsoil, some individual or small groups of three or less borings gave rise to Grade 3a classification for wetness. However it is considered that these did not occur in sufficiently large enough areas (an 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 results in a slight droughtiness limitation for the silt loam soils on the east of the site giving an ALC of Grade 3b in places.

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

Grade 3a – Droughtiness Limitation

The Available Water Capacity which subsequently when considered with respect to the Moisture Deficit for wheat and potatoes results in a slight droughtiness limitation for the silt loams soils on the east of the site giving an ALC Grade of 3a.

Grade 3b - Gradient

A number of observation points in the parcel of land in the far east delineated by numbers 1311 to 1333 had gradients in excess of 7 degrees and hence the ALC Grade here will be limited to 3b in places.

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	8	0.6	Droughtiness
3a	103	7.7	Wetness, droughtiness
3b	1218	91.6	Wetness/ gradient
4	1	0.1	Depth
5			
Non-agricultural land			
Total	1330	100%	

DRAWINGS 1-5

ALC Grade

Drawing 1: North west

Drawing 2: North east

Drawing 2A North east – Kealey Land

Drawing 3: Central east

Drawing 4: South east

Drawing 5: South west

NB:

The observation point numbering on each map is in general sequential on the individual map and runs left to right and down the page. However, as points have been added and removed during the survey period some of these numbers are not sequential with the original on the map and hence have extra numbers added for clarity either side. Every number has not been written on the maps for clarity.

Other notes:

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

Ordnance Survey copy licence PMR0046161

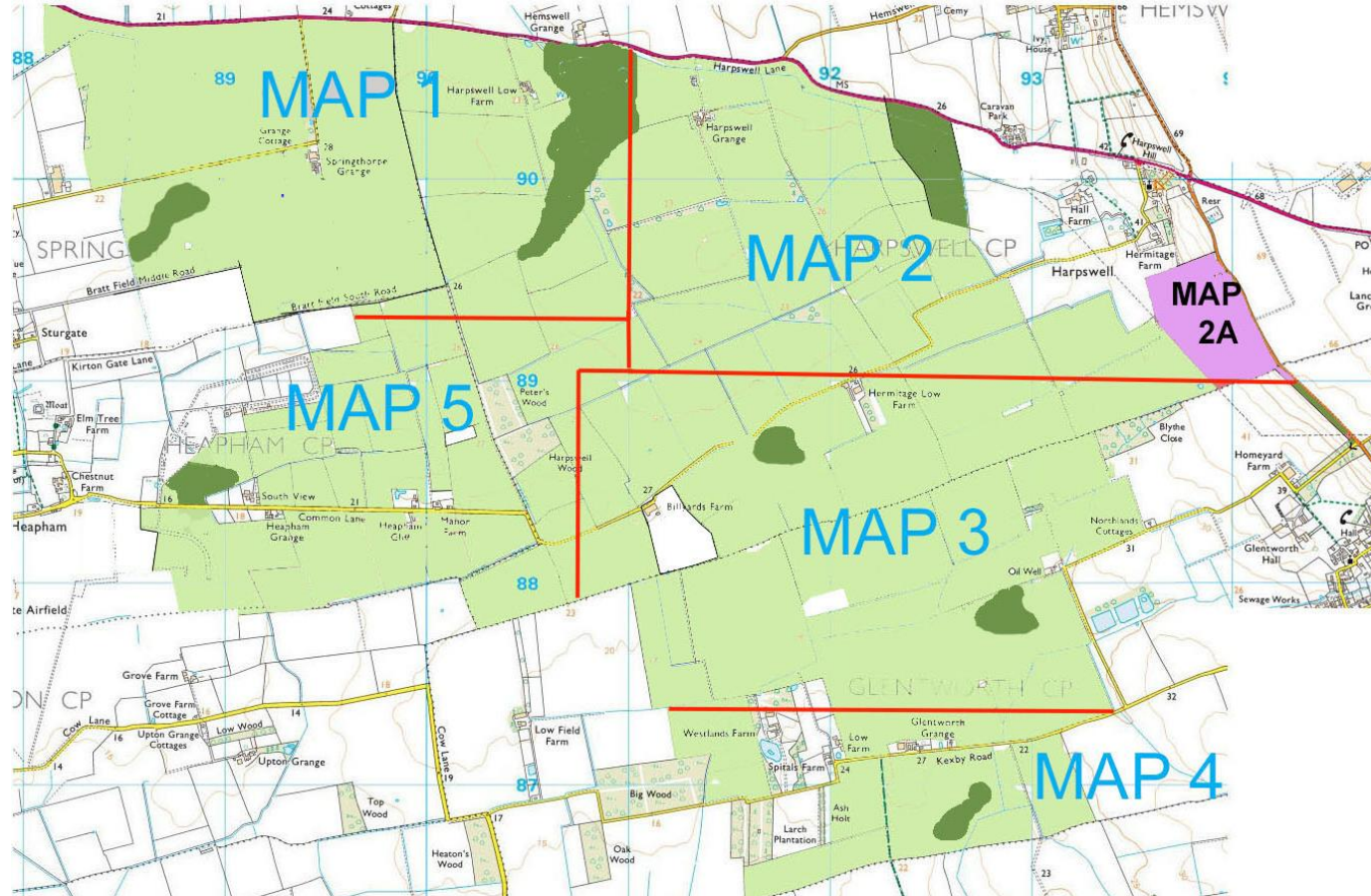
Soil Environment Services

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: 22/09/2023



Key

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

● Boring

■ Pit

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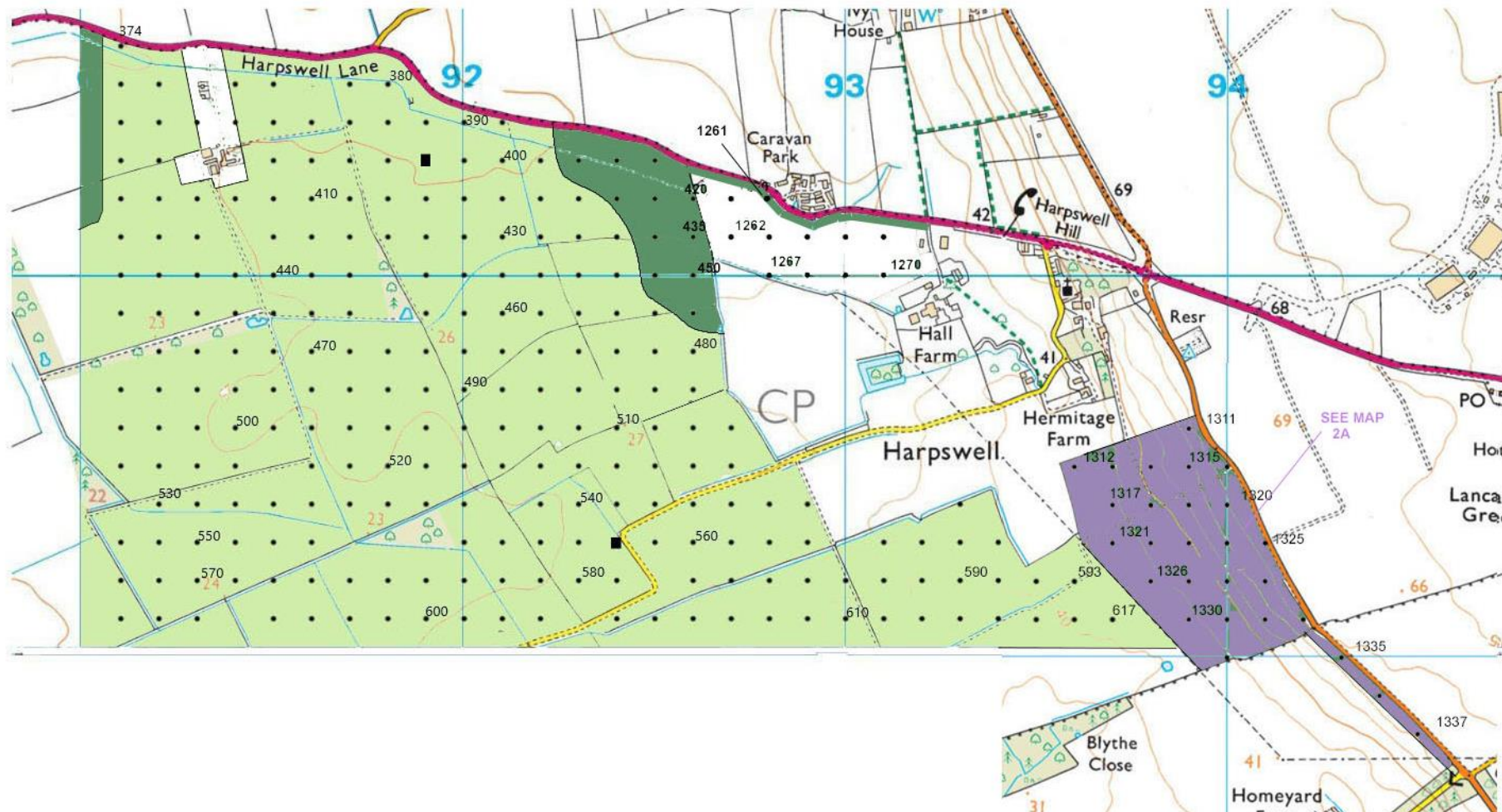
Soil Environment Services

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.: 2A

Scale: 1:10000

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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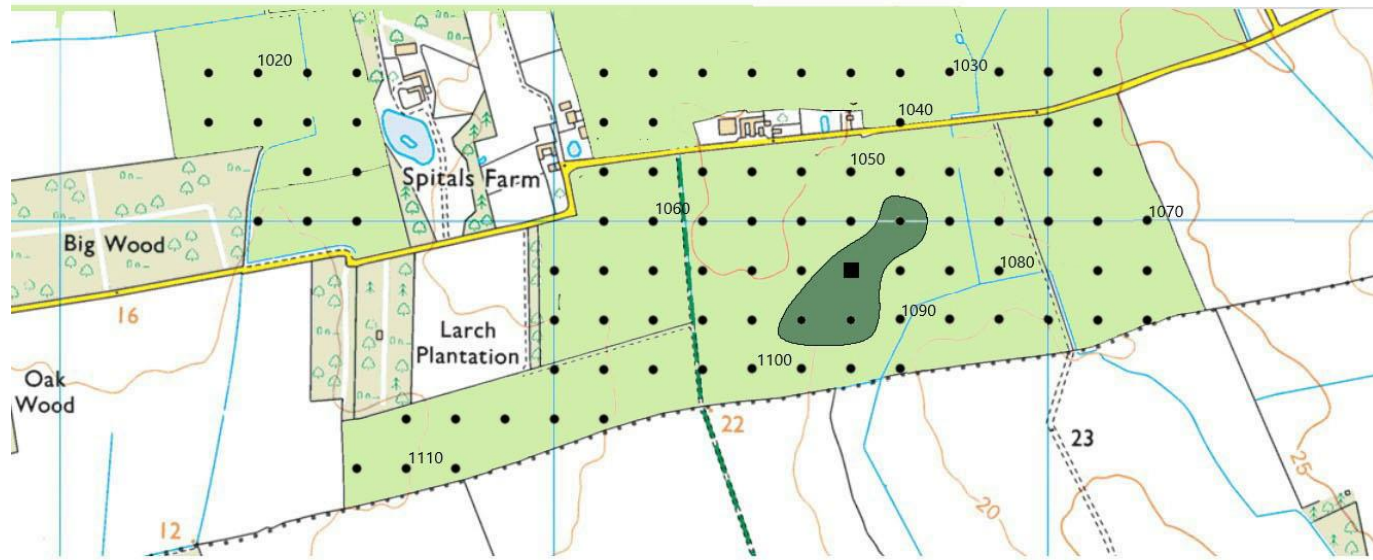
Soil Environment Services

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

Ordnance Survey copy licence PMR0046161

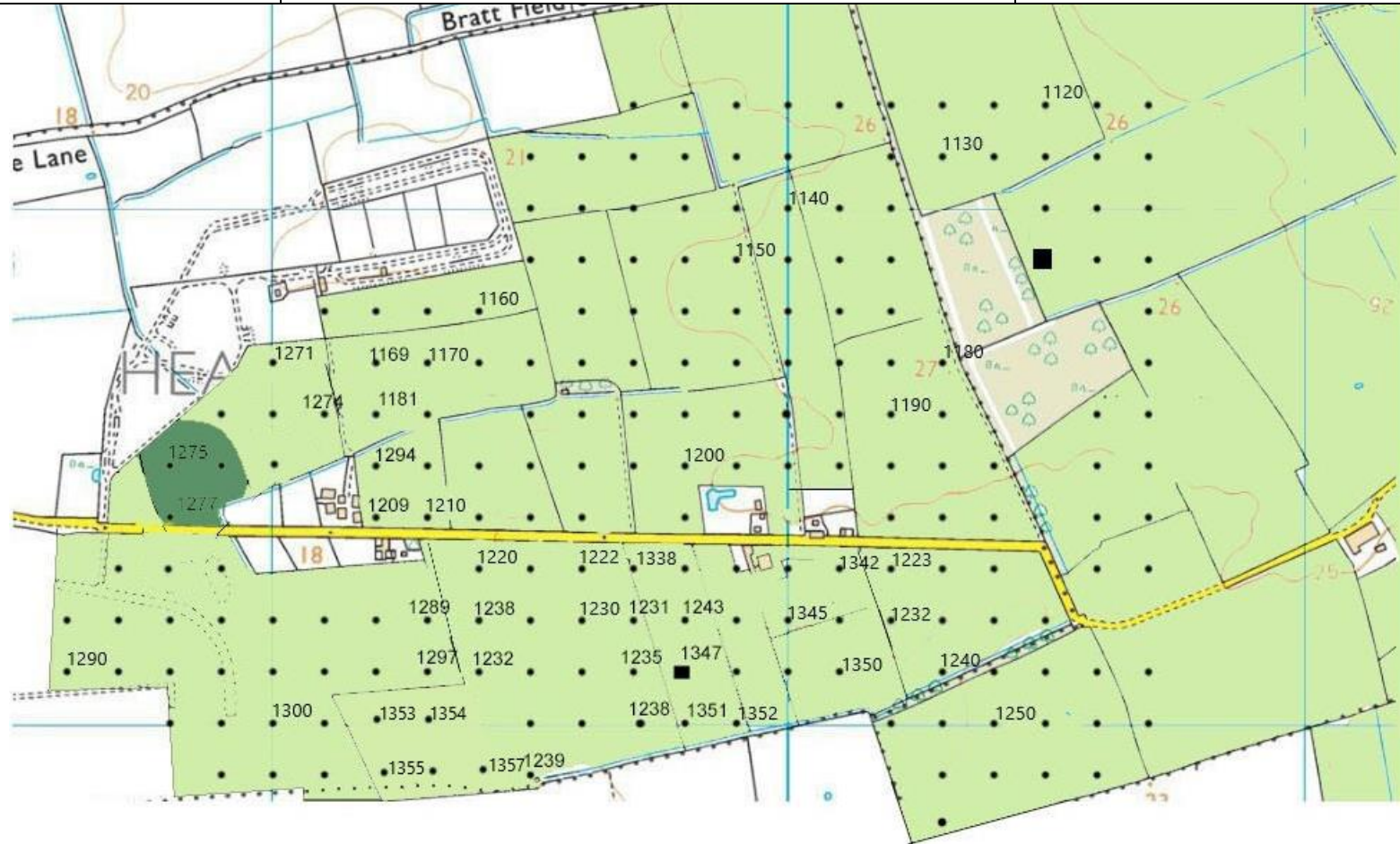
Soil Environment Services

Drawing Title: ALC Grade

Drawing No.: 5

Scale: 1:15000

Date: 22/09/2023



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 for a planning application*. The letter 'B' in the second column of the data table refers to an observation point at which a boring has been undertaken. In some situations it may not be possible to visit a location due to for example crop status or animals in a field. In such cases the location is observed and adjacent data will be used. These points are then identified in the database. 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. / off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots. / 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	STAv	STeAv	MBW	Grsk (Drought - WHEAT)	MBP	Grsk (Drought - POTATOES)
21	B	57	30	C	N	10YR42						5	HR				55	30	III	3b	17		1		22.64	2	7.54	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								
22	B	57	30	C	N	10YR41					10	HR				50	30	III	3b	17		1		16.12	2	2.14	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									
23	B	57	30	C	N	10YR41						5	HR				55	30	III	3b	17		1		18.52	2	4.54	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									
24	B	57	25	HCL	N	10YR42						0					60	25	III	3b	18		1		26.67	2	11.57	1
60			C		10YR53	5/25	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR52	20/60	10YR56	5	CH/HR	P	CPR	MD				16	8	1	0.5									
25	P	57	25	HCL	N	10YR42						0					65	25	III	3b	18		1		21.72	2	9.99	2
65			C		10YR53	5/25	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR52	15/65	10YR56	5	CH/HR	P	CPR	MD				16	8	1	0.5									
26	B	57	25	HCL	N	10YR41						5	HR				62	25	III	3b	18		1		24.54	2	9.44	2
62			C		10YR53	10/25	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR52	10/62	10YR56	5	HR	P	CPR	MD				16	8	1	0.5									
27	B	57	25	HCL	N	10YR42						0					55	25	III	3b	18		1		28.73	2	13.82	1
55			C		10YR53	5/25	10YR56	0		P	MSAB	MD				16	8	1	0.5									
120			C		10YR52	10/55	10YR56	5	CH/HR	P	CPR	MD				16	8	1	0.5									
28	B	57	22	C	N	10YR42						0					40	22	III	3b	18		1		28.57	2	12.09	1
40			C		10YR52	10/22	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR42	20/40	10YR56/10YR61	5	CH	P	CPR	MD				16	8	10	7									
29	B	57	25	HCL	N	10YR41						5	HR				45	25	III	3b	18		1		5.48	2	9.44	2
45			HCL		10YR53	10/25	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
95			C		10YR53	15/45	10YR56/10YR61	5	CH/HR	P	CPR	MD				16	8	1	0.5									
30	B	57	120	C		10YR42	15/95	10YR56/10YR61	10	CH	P	CPR	WK				45	25	III	3b	13	7	10	7	5.26	2	9.22	2
25			HCL	N	10YR41			2	HR							18		1										
45			HCL		10YR53	5/25	10YR56	10	HR	P	MSAB	MD				16	8	1	0.5									
31	B	57	95	C		10YR53	10/45	10YR56/10YR61	5	HR	P	CPR	MD				45	25	III	3b	16	8	1	0.5	30.11	1	13.32	1
120			C		7.5YR42	15/95	10YR56/10YR61	10	HR	P	CPR	WK				13	7	1	0.5									
30			HCL	N	10YR44			0								18		1										
32	B	57	30	HCL	N	10YR42						0					65	30	III	3b	16	8	1	0.5	30.11	1	13.32	1
65			C		10YR42	10/30	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR53	10/65	10YR56	0		P	CPR	MD				16	8	1	0.5									
33	B	25	25	HCL	N	10YR41						5	HR				40	25	III	3b	18		1		3.98	3a	7.19	2
40			HCL		10YR52	5/25	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
70			C		10YR64	20/40	10YR56/10YR61	10	CH/HR	P	CPR	MD				16	8	1	0.5									
34	B	57	120	C		7.5YR42	20/70	10YR56/10YR61	15	CH/HR	P	CPR	WK				40	25	III	3b	13	7	10	7	30.11	1	13.32	1
30			HCL	N	10YR32			0								18		1										
65			C		10YR42	15/30	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
35	B	57	30	HCL	N	10YR41						0					65	30	III	3b	18		1		30.11	1	13.32	1
65			C		10YR42	10/30	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR53	10/65	10YR56	0		P	CPR	MD				16	8	1	0.5									
36	B	57	22	HCL	N	10YR42						0					60	22	III	3b	18		1		28.32	2	13.59	1
60			C		10YR52	10/22	10YR56/10YR61	0		P	MSAB	MD				16	8	1	0.5									
120			C		10YR61	25/60	10YR56	5	HR	P	CPR	MD				16	8	1	0.5									
37	B	57	25	MCL	N	10YR42						0					55	22	III	3a	18		1		21.79	2	9.32	2
55			C		10YR52	5/25	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR61	20/55	10YR56	15	CH/HR	P	CPR	MD				16	8	1	0.5									
38	B	57	30	HCL	N	10YR42						0					55	25	III	3b	18		1		26.67	2	11.57	1
55			C		10YR51	10/25	10YR56/10YR61	5	HR	P	MSAB	MD				16	8	1	0.5									
120			C		10YR61	15/55	10YR56	5	CH/HR	P	CPR	MD				16	8	1	0.5									
39	B	57	28	C	N	10YR41						5	HR				50	28	III	3b	17		1		19.83	2	5.85	2
50			C		10YR53	25/28	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									
40	B	57	30	C	N	10YR41						10	HR				50	30	III	3b	17		1		16.12	2	2.14	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									
40	B	57	30	C	N	10YR42						5	HR				50	30	III	3b	17		1		18.52	2	4.54	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									

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott. black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EA v	StTA v	STEAv	MBW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)		
41		B	≤7	30		C	N	10YR42				5	HR				55	30	III	3b	17	1			22.64	2	7.54	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		HCL	N	10YR41				0					55	28	III	3b	18	1			29.33	2	14.42	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			24.69	2	9.59	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/CH	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			22.64	2	7.54	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			25.49	2	10.39	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			25.11	2	10.01	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			28.04	2	12.94	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		B	≤7	28		HCL	Y	10YR42				5	HR				55	28	III	3a	18	1			22.68	2	8.89	2		
	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			22.68	2	8.89	2		
	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		B	≤7	25		HCL	N	10YR42				0					62	25	III	3b	18	1			28.99	2	14.34	1		
	62				C		10YR53	15/25	10YR56	0		P	MSAB	MD	16	8	1	0.5												
	120				C		10YR53	20/62	10YR56	5	HR	P	CPR	MD	16	8	1	0.5	0	0	0	0								
51		B	≤7	25		HCL	N	10YR42				0					60	25	III	3b	18	1			28.62	2	12.02	1		
	60				C		10YR53	5/25	10YR56	5	HR	P	MSAB	MD	16	8	1	0.5												
	120				C		10YR53	15/60	10YR56	5	CH	P	CPR	MD	16	8	10	7	0	0	0	0								
52		B	≤7	25		HCL	N	10YR42				0					55	25	III	3b	18	1			28.73	2	13.82	1		
	55				C		10YR53	5/25	10YR56	0		P	MSAB	MD	16	8	1	0.5												
	120				C		10YR52	10/55	10YR56	5	CH/HR	P	CPR	MD	16	8	1	0.5	0	0	0	0								
53		B	≤7	25		C	N	10YR42				0					45	25	III	3b	18	1			28.67	2	11.94	1		
	45				C		10YR52	10/25	YR56/10YR	5	HR	P	MSAB	MD	16	8	1	0.5												
	120				C		10YR42	10/45	YR56/10YR	10	CH	P	CPR	MD	16	8	10	7	0	0	0	0								
54		B	≤7	25		HCL	N	10YR41				5	HR				45	25	III	3b	18	1			5.48	2	9.44	2		
	45				HCL		10YR53	10/25	YR56/10YR	5	HR	P	MSAB	MD	16	8	1	0.5												
	95				C		10YR53	15/45	YR56/10YR	5	CH/HR	P	CPR	MD	16	8	1	0.5												
	120				C		10YR42	15/95	YR56/10YR61	10	CH	P	CPR	WK	13	7	10	7												
55		B	≤7	25		HCL	N	10YR41				5	HR				45	25	III	3b	18	1			1.67	3a	9.44	2		
	45				HCL		10YR53	10/25	10YR56	5	HR	P	MSAB	MD	16	8	1	0.5												
	90				C		10YR53	10/45	YR56/10YR	5	CH/HR	P	CPR	MD	16	8	1	0.5												
56		B	≤7	120		C		7.5YR42	10/90	YR56/10YR61	10	CH	P	CPR	WK															
	30				HCL	N	10YR44				0								60	30	III	3b	18	1			30.29	1	13.69	1
	60				C		10YR42	10/30	YR56/10YR	5	HR	P	MSAB	MD	16	8	1	0.5												
120		C		10YR53	15/60	10YR56	5		P	CPR	MD	16	8	1	0.5	0	0	0	0											
57		B	≤7	25		HCL	N	10YR41				2	HR				40	25	III	3b	18	1			-12.31	1	10.72	1		
	40				HCL		10YR52	5/25	YR56/10YR	5	HR	P	MSAB	MD	16	8	1	0.5												
	70				C		10YR64	20/40	YR56/10YR	5	CH/HR	P	CPR	MD	16	8	1	0.5												
	120				C		7.5YR42	20/70	YR56/10YR61	5	CH/HR	P	CPR	WK	13	7	10	7												
58		B	25	30		HCL	N	10YR32				0					60	30	III	3b	18	1			30.29	1	13.69	1		
	60				C		10YR41	15/30	YR56/10YR	5	HR	P	MSAB	MD	16	8	1	0.5												
	120				C		10YR53	20/60	YR56/10YR	0		P	CPR	MD	16	8	1	0.5	0	0	0	0								
59		B	≤7	30		HCL	N	10YR41				0					65	30	III	3b	18	1			32.17	1	15.94	1		
	65				C		10YR42	10/30	YR56/10YR	0		P	MSAB	MD	16	8	1	0.5												
	120				C		10YR53	10/65	10YR56	0		P	CPR	MD	16	8	1	0.5	0	0	0	0								
60		B	≤7	22		HCL	N	10YR42				0					60	22	III	3b	18	1			28.32	2	13.59	1		
	60				C		10YR52	10/22	YR56/10YR	0		P	MSAB	MD	16	8	1	0.5												
	120				C		10YR61	25/60	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)	OFF FOCUS	Text.	Calc	Matrix colour	Motts./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F4 firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	SttAv	StEAv	MBW	Grade (Dough. - WHEAT)	MBP	Grade (Dough. - POTATOES)					
101		B	≤7	25		MCL	N	10YR41				0					65	25	III	3a					26.67	2	11.57	1					
				65		HCL		10YR52	10/25	10YR56	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR53	20/65	10YR56	5	HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
102		B	≤7	25		MCL	N	10YR41				0					65	25	III	3a					26.67	2	11.57	1					
				65		HCL		10YR52	10/25	10YR56	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR53	20/65	10YR56	5	HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
103		B	≤7	25		HCL	N	10YR42				0					65	25	III	3b					26.67	2	11.57	1					
				65		C		10YR53	5/25	10YR56	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR52	15/65	10YR56	5	hr	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
104		B	≤7	20		C	N	10YR32				5	HR				60	35	III	3b					-22.16	3b	8.49	2					
				35		C		10YR52			5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				60		C		10YR52	20/35	10YR56/10YR61	5	HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
105		B	≤7	22		C	N	10YR32				0					60	35	III	3b					-19.91	3a	10.74	1					
				35		C		10YR52			5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				60		C		10YR52	20/35	10YR56/10YR61	5	HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
106		B	≤7	25		HCL	N	10YR41				2	HR				45	25	III	3b					-17.62	3a	9.22	2					
				45		HCL		10YR53	10/25	10YR56	10	HR	P	MSAB	MD	18													1	16	8	1	0.5
				65		C		10YR53	10/45	10YR56/10YR61	5	HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
107		B	≤7	30		HCL	N	10YR43				0					55	30	III	3b					32.17	1	15.94	1					
				55		C		10YR42	10/30	10YR56/10YR61	0		P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR53	10/55	10YR56/10YR61	0		P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
108		B	≤7	25		HCL	N	10YR41				5	HR				40	25	III	3b					-18.71	3a	7.19	2					
				40		HCL		10YR52	5/25	10YR56/10YR61	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				65		C		10YR64	20/40	10YR56/10YR61	10	CH/HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
109		P	25	30		HCL	N	10YR32				0					65	30	III	3b					30.11	1	13.32	1					
				65		C		10YR42	15/30	10YR56/10YR61	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR53	20/65	10YR56/10YR61	0		P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
110		B	≤7	30		HCL	N	10YR41				5	HR				62	30	III	3b					25.14	2	8.11	2					
				62		C		10YR42	5/30	10YR56	10	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR42	10/62	10YR56	10	HR	P	CPR	MD	16													8	10	7		
																						0	0	0	0								
111		B	≤7	28		HCL	N	10YR42				0					55	28	III	3b					25.06	2	11.27	1					
				55		C		10YR52	10/28	10YR56/10YR61	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR61	20/55	10YR56	10	CH/HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
112		B	≤7	25		HCL	N	10YR42				0					55	25	III	3b					22.09	2	11.57	1					
				55		C		10YR51	10/25	10YR56/10YR61	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		10YR61	15/55	10YR56/10YR71	5	CH/HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
113		B	≤7	25		HCL	N	10YR52				0					65	25	III	3b					26.67	2	11.57	1					
				65		C		10YR52	15/25	10YR56/10YR61	5	HR	P	MSAB	MD	18													1	16	8	1	0.5
				120		C		7.5YR42	25/65	10YR56	5	HR	P	CPR	MD	16													8	1	0.5		
																						0	0	0	0								
114		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b					18.52	2	4.54	2					
				50		C		10YR53	15/30	10YR56	10	HR	P	MSAB	MD	17													1	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					22.64	2	7.54	2					
				55		C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD	18													1	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					22.45	2	7.35	2					
				50		C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD	17													1	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					20.02	2	6.04	2					
				50		C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD	18													1	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					17.67	2	3.69	2					
				55		C		10YR53	20/25	10YR56	10	HR	P	MSAB	MD	17													1	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					24.54	2	9.44	2					
				45		HCL		10YR52	15/25	10YR56	5	HR	P	MSAB	MD	18													1	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					25.11	2	10.01	1					
				45		C		10YR52	15/28	10YR56	5	HR	P	MSAB	MD	18													1	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. / off intersection	Boring or Pit	Pit Grad. (deg)	Base Depth (cm)	Text.	Calc	Matrix colour	Mott. / black ferro. conc. % / depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F/d firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	STAv	StEAv	MBW	Grass/Drought-WHET	MBP	Grass/Drought-PORTAGEE
121		B	≤7	30	C	N	10YR41				0					55	30	III	3b			17	1	20.92	2	6.94	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					
122		B	≤7	28	HCL	N	10YR42				5	HR			55	28	III	3b			18	1	26.06	2	10.01	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					
123		B	≤7	28	HCL	Y	10YR32				5	HR			55	28	III	3a			18	1	23.63	2	8.89	2	
				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					
124		B	≤7	30	HZCL	Y	10YR42				10	CH/MD			55	30	III	3a			19	1	19.08	2	6.42	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					
125		B	≤7	30	HZCL	Y	10YR42				10	CH/MD			55	30	III	3a			19	1	19.98	2	6.42	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					
126		B	≤7	25	MCL	N	10YR41				0				65	25	III	3a			18	1	26.67	2	11.57	1	
				65	HCL		10YR52	10/25	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
				120	C		10YR53	20/65	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
127		B	≤7	25	MCL	N	10YR41				0				65	25	III	3a			18	1	26.67	2	11.57	1	
				65	HCL		10YR52	10/25	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
				120	C		10YR53	20/65	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
128		B	≤7	22	HCL	N	10YR42				0				45	22	III	3b			18	1	26.16	2	9.68	2	
				45	SCL		10YR52	10/22	10YR56/10YR61	5	HR	P	MSAB	MD					15	10	1	0.5					
				120	C		10YR42	15/45	10YR56/10YR61	5	CH	P	CPR	MD					16	8	10	7					
129		B	≤7	25	HCL	N	10YR41				5	HR			45	25	III	3b			18	1	9.29	2	9.44	2	
				45	HCL		10YR52	10/25	10YR56/10YR61	5	HR	P	MSAB	MD					16	8	1	0.5					
				100	C		10YR53	15/45	10YR56/10YR61	5	CH/HR	P	CPR	MD					16	8	1	0.5					
				120	C		10YR42	25/100	10YR56/10YR61	5	CH	P	CPR	WK					13	7	10	7					
130		B	≤7	28	HCL	N	10YR41				10				60	28	III	3b			18	1	22.06	2	5.08	2	
				60	C		10YR53	25/28	10YR56/10YR61	10	HR	P	MSAB	MD					16	8	1	0.5					
				120	C		10YR53	25/60	10YR56/10YR61	15	CH	P	CPR	MD					16	8	10	7					
131		B	≤7	25	HCL	N	10YR41				5	HR			40	25	III	3b			18	1	29.58	3b	7.19	2	
				40	HCL		10YR52	5/25	10YR56/10YR61	5	HR	P	MSAB	MD					16	8	1	0.5					
				50	C		10YR64	20/40	10YR56/10YR61	10	CH/HR	P	CPR	MD					16	8	1	0.5					
				120	C		10YR42	30/50	10YR56/10YR61	15	CH/HR	P	CPR	WK					13	7	10	7					
132		B	25	30	HCL	N	10YR32				0				55	30	III	3b			18	1	19.04	2	14.07	1	
				55	C		10YR42	15/30	10YR56/10YR61	5	HR	P	MSAB	MD					16	8	1	0.5					
				120	C		10YR53	15/55	10YR56/10YR61	0		P	CPR	MD					16	8	1	0.5					
133		B	≤7	30	HCL	N	10YR41				5	HR			62	30	III	3b			18	1	25.14	2	8.11	2	
				62	C		10YR42	5/30	10YR56	10	HR	P	MSAB	MD					16	8	1	0.5					
				120	C		10YR42	10/62	10YR56	10	HR	P	CPR	MD					16	8	10	7					
134		B	≤7	28	HCL	N	10YR42				0				55	28	III	3b			18	1	26.01	2	11.27	1	
				55	HCL		10YR52	10/28	10YR56/10YR61	5	HR	P	MSAB	MD					16	10	1	0.5					
				120	C		10YR61	20/55	10YR56	10	CH/HR	P	CPR	MD					16	8	1	0.5					
135		B	≤7	25	HCL	N	10YR42				0				55	25	III	3b			18	1	31.17	1	14.94	1	
				55	C		10YR51	10/25	10YR56/10YR61	0		P	MSAB	MD					16	8	1	0.5					
				120	C		10YR61	15/55	10YR56/10YR71	0		P	CPR	MD					16	8	1	0.5					
136		B	≤7	25	HCL	N	10YR52				0				65	25	III	3b			18	1	26.67	2	11.57	1	
				65	C		10YR52	15/25	10YR56/10YR61	5	HR	P	MSAB	MD					16	8	1	0.5					
				120	C		7.5YR42	25/65	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
137		B	≤7	30	C	N	10YR32				5	HR			50	30	III	3b			17	1	18.52	2	4.54	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					
138		B	≤7	30	C	N	10YR32				5	HR			55	30	III	3b			17	1	22.64	2	7.54	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					
139		B	≤7	30	HCL	N	10YR32				5	HR			50	30	III	3b			18	1	21.37	2	7.39	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					
140		B	≤7	30	C	N	10YR32				5	HR			50	30	III	3b			17	1	18.52	2	4.54	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					

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott. / black ferro. conc. %/ depth	Mott colour of FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (IF firm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	StTAV	StEAV	MBW	Grade (Drough. VHDAT)	MBP	Grade (Drough. POTADES)			
181		B	≤7	30		HCL	N	10YR41				5	HR																		
				62		C		10YR42	5/30	10YR56				10	HR	P	MSAB	MD	62	30	III	3b		18		1		25.14	2	8.11	2
				120		C		10YR42	10/62	10YR56				10	HR	P	CPR	MD							16	8	10	7			
182		B	≤7	28		HCL	N	10YR42				0																			
				55		HCL		10YR52	10/28	YR56/10YR				5	HR	P	MSAB	MD	55	28	III	3b		18		1		28.44	2	12.39	1
				120		C		10YR61	20/55	10YR56				5	CH/HR	P	CPR	MD							16	8	1	0.5			
183		B	≤7	25		HCL	N	10YR42				0																			
				55		C		10YR51	10/25	YR56/10YR				2	HR	P	MSAB	MD	55	25	III	3b		18		1		30.34	1	14.04	1
				120		C		10YR61	15/55	YR56/10YR				0		P	CPR	MD							16	8	1	0.5			
184		B	≤7	25		HCL	N	10YR42				0																			
				65		C		10YR52	15/25	YR56/10YR				5	HR	P	MSAB	MD	65	25	III	3b		18		1		26.67	2	11.57	1
				120		C		7.5YR42	25/65	10YR56				5	HR	P	CPR	MD							16	8	1	0.5			
185		B	≤7	30		HCL	N	10YR42				5	HR																		
				50		HCL		10YR53	15/30	10YR56				10	HR	P	MSAB	MD	50	30	III	3b		18		1		21.37	2	7.39	2
				120		C		10YR41	25/50	10YR56				10	HR	P	CPR	MD							16	8	1	0.5			
186		B	≤7	30		C	N	10YR32				5	HR																		
				55		C		10YR64	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b		17		1		22.64	2	7.54	2
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD							16	8	1	0.5			
187		B	≤7	30		HCL	N	10YR32				5	HR																		
				50		C		10YR53	15/30	10YR56				10	HR	P	MSAB	MD	50	30	III	3b		18		1		21.37	2	7.39	2
				120		C		10YR41	25/50	10YR56				10	HR	P	CPR	MD							16	8	1	0.5			
188		B	≤7	30		C	N	10YR32				5	HR																		
				50		C		10YR53	20/30	10YR56				10	HR	P	MSAB	MD	50	30	III	3b		17		1		18.52	2	4.54	2
				120		C		10YR41	25/50	10YR56				10	HR	P	CPR	MD							16	8	1	0.5			
189		B	≤7	30		C	N	10YR32				5	HR																		
				50		C		10YR53	15/30	10YR56				10	HR	P	MSAB	MD	50	30	III	3b		17		1		18.52	2	4.54	2
				120		C		10YR41	25/50	10YR56				10	HR	P	CPR	MD							16	8	1	0.5			
190		B	≤7	30		C	N	10YR32				5	HR																		
				55		C		10YR64	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b		17		1		22.64	2	7.54	2
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD							16	8	1	0.5			
191		B	≤7	28		C	N	10YR32				5	HR																		
				50		HCL		10YR64	15/28	10YR56				5	HR	P	MSAB	MD	50	28	III	3b		17		1		22.45	2	7.35	2
				120		C		10YR41	15/50	10YR56				5	HR	P	CPR	MD							16	8	1	0.5			
192		B	≤7	30		C	N	10YR42				5	HR																		
				50		C		10YR64	10/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b		17		1		23.07	2	6.04	2
				120		C		10YR41	25/50	10YR56				10	HR	P	CPR	MD							16	8	1	0.5			
193		B	≤7	25		HCL	N	10YR42				5	HR																		
				55		C		10YR53	20/25	10YR56				10	HR	P	MSAB	MD	55	25	III	3b		17		1		17.67	2	3.69	2
				120		C		10YR41	20/55	10YR56				10	HR	P	CPR	MD							16	8	1	0.5			
194		B	≤7	25		HCL	N	10YR41				5	HR																		
				45		HCL		10YR52	15/25	10YR56				5	HR	P	MSAB	MD	45	25	III	3b		18		1		24.54	2	9.44	2
				120		C		10YR42	15/45	10YR56				5	HR	P	CPR	MD							16	8	1	0.5			
195		B	≤7	25		HCL	N	10YR41				5	HR																		
				45		HCL		10YR52	15/25	10YR56				5	HR	P	MSAB	MD	45	25	III	3b		18		1		24.54	2	9.44	2
				120		C		10YR42	15/45	10YR56				5	HR	P	CPR	MD							16	8	1	0.5			
196		B	≤7	30		HZCL	Y	10YR42				10	CH/MD																		
				55		HCL		10YR53	15/30	10YR56				15	CH/MD	P	MSAB	MD	55	30	III	3a		19		1		18.24	2	4.54	2
				120		C		10YR41	30/55	10YR56				15	HR	P	CPR	MD							16	8	1	0.5			

Obs point	Grid ref. if off intersection	Boiling or Pit	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 (if firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TA _v	EA _v	StTA _v	StEA _v	MBW	Grade (Drought- WHEAT)	MBP	Grade (Drought- POTATOES)
241		B	30	≤7	C	N	10YR32				5	HR				50	30	III	3b	17	1			18.52	2	4.54	2
			50				10YR53	15/30	10YR56	10	HR	P	MSAB	MD	16					8	1	0.5					
			120				10YR41	25/50	10YR56	10	HR	P	CPR	MD	16					8	1	0.5					
242		B	30	≤7	C	N	10YR32				5	HR			55	30	III	3b	17	1			22.64	2	7.54	2	
			55				10YR64	20/30	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR41	20/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
243		B	28	≤7	HCL	N	10YR32				5	HR			50	28	III	3b	18	1			25.11	2	10.01	1	
			50				10YR53	15/28	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR41	15/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
244		B	30	≤7	HCL	N	10YR42				5	HR			50	30	III	3b	18	1			22.87	2	8.89	2	
			50				10YR53	10/30	10YR56	5	HR	P	MSAB	MD					16	10	1	0.5					
			120				10YR41	25/50	10YR56	10	HR	P	CPR	MD					16	8	1	0.5					
245		B	30	≤7	HZCL	Y	10YR42				10	CH/MD			55	30	III	3a	19	1			19.94	2	6.67	2	
			55				10YR53	15/30	10YR56	15	CH/MD	P	MSAB	MD					17	10	1	0.5					
			120				10YR41	30/55	10YR56	15	HR	P	CPR	MD					16	8	1	0.5					
246		B	30	≤7	HZCL	Y	10YR42				5	CH/MD			50	30	III	3a	19	1			24.99	2	12.14	1	
			50				10YR53	15/30	10YR56	5	CH/MD	P	MSAB	MD					17	10	1	0.5					
			120				10YR41	20/50	10YR56	15	HR	P	CPR	MD					16	8	1	0.5					
247		B	28	≤7	HCL	N	10YR32				5	HR			50	28	III	3b	18	1			20.84	2	6.86	2	
			50				10YR53	15/28	10YR56	10	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR41	25/50	10YR56	10	HR	P	CPR	MD					16	8	1	0.5					
248		P	28	≤7	C	N	10YR32				5	HR			55	28	III	3b	17	1			22.45	2	7.35	2	
			55				10YR64	20/28	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR41	20/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
249		B	28	≤7	HCL	N	10YR32				5	HR			50	28	III	3b	18	1			25.11	2	10.01	1	
			50				10YR53	15/28	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR41	15/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
250		B	25	≤7	SCL	N	10YR41				5	HR			55	25	III	3a	17	1			-7.39	3a	5.64	2	
			55				10YR53	10/25	YR56/10YR	5	HR	P	MSAB	MD					16	10	1	0.5					
			75				10YR53	15/55	YR56/10YR	5	HR/CH	P	CPR	MD					15	10	1	0.5					
251		B	28	≤7	HCL	N	10YR53	15/75	YR56/10YR61		5	HR/CH			65	28	III	3b	16	8	1	0.5	-2.54	3a	10.01	1	
			65				10YR53	20/28	10YR56	5	HR	P	MSAB	MD					18	1							
			80				10YR64	20/65	YR56/10YR	5	HR	P	CPR	MD					16	8	1	0.5					
252		B	120	≤7	C		10YR53	20/80	YR56/10YR61		5	HR			55	30	III	3b	16	8	1	0.5	57.01	1	11.94	1	
			30				10YR32			0				18					1								
			55				10YR42	15/30	YR56/10YR	0		P	MSAB	MD					15	10	1	0.5					
253		B	25	≤7	HCL	N	10YR42				5	HR			60	25	III	3b	18	1			24.54	2	9.44	2	
			60				10YR52	5/25	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR53	20/65	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
254		B	25	≤7	HCL	N	10YR42				5	HR			80	25	II	3a	18	1			28.97	2	5.17	2	
			80				10YR53	15/25	10YR56	5	HR	P	MSAB	MD					15	10	1	0.5					
			120				10YR53	20/80	10YR61	10	CH	P	CPR	MD					16	8	10	7					
255		P	25	≤7	HCL	N	10YR42				5	HR			60	25	III	3b	18	1			24.54	2	9.44	2	
			60				10YR52	10/25	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR53	15/65	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
256		B	30	≤7	HCL	N	10YR41				5	HR			62	30	III	3b	18	1			27.38	2	10.75	1	
			62				10YR42	5/30	10YR56	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR42	10/62	10YR56	5	HR	P	CPR	MD					16	8	10	7					
257		B	28	≤7	HCL	N	10YR42				0				55	28	III	3b	18	1			28.44	2	12.39	1	
			55				10YR52	10/28	YR56/10YR	5	HR	P	MSAB	MD					16	10	1	0.5					
			120				10YR61	15/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
258		B	25	≤7	HCL	N	10YR42				0				55	25	III	3b	18	1			26.67	2	11.57	1	
			55				10YR51	10/25	YR56/10YR	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR61	15/55	YR56/10YR	5	HR	P	CPR	MD					16	8	1	0.5					
259		B	25	≤7	HCL	N	10YR42				0				62	25	III	3b	18	1			26.67	2	11.57	1	
			62				10YR52	15/25	YR56/10YR	5	HR	P	MSAB	MD					16	8	1	0.5					
			120				10YR52	25/62	10YR56	5	HR	P	CPR	MD					16	8	1	0.5					
260		B	30	≤7	HCL	N	10YR43				5	HR			60	30	III	3b	18	1			27.44	2	7.99	2	
			60				10YR53	15/30	10YR56	5	HR	P	MSAB	MD					15	10	1	0.5					
			120				10YR42	15/60	10YR61	5	CH	P	CPR	MD					16	8	10	7					

Obs point	Grid no. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (IF firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAv	StTAV	STEAv	MBW	Grade (Drought- W/BAT)	MBP	Grade (Drought- POT/DCS)					
301		B	≤7	30		SCL	N	10YR42				5	HR				60	30	III	3a	17		1		22.64	2	4.69	2					
				60		SCL		7.5YR53	10/30	10YR56	5	HR	P	MSAB	MD								15	10	1	0.5							
				120		C		10YR53	25/60	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
																				0	0	0	0										
302		B	≤7	25		HCL	N	10YR42				0					62	25	III	3b	18		1		26.67	2	11.57	1					
				62		C		10YR52	15/25	10YR56/10YR61	5	HR	P	MSAB	MD								16	8	1	0.5							
				120		C		7.5YR42	25/62	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
																				0	0	0	0										
303		B	≤7	30		HCL	N	10YR43				5	HR				60	30	III	3b	18		1		38.84	1	7.04	2					
				60		SCL		10YR53	15/30	10YR56	5	HR	P	MSAB	MD								15	10	1	0.5							
				120		SC		10YR42	15/60	10YR61	5	CH	P	CPR	MD								15	10	10	7							
																				0	0	0	0										
304		B	≤7	28		HCL	N	10YR43				5	HR				58	28	III	3b	18		1		38.34	1	6.56	2					
				58		SCL		10YR53	10/28	10YR56	5	HR	P	MSAB	MD								15	10	1	0.5							
				120		SC		10YR42	20/58	10YR56	5	CH	P	CPR	MD								15	10	10	7							
																				0	0	0	0										
305		B	≤7	25		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		16.71	2	1.27	2					
				55		SCL		7.5YR53	10/25	10YR56	15	HR	P	MSAB	MD								15	10	1	0.5							
				120		C		10YR53	30/55	10YR56	10	HR	P	CPR	MD								16	8	1	0.5							
																				0	0	0	0										
306		B	≤7	25		HCL	N	10YR42				5	HR				55	25	III	3b	18		1		17.98	2	3.82	2					
				55		C		7.5YR63	10/25	10YR56	15	HR	P	MSAB	MD								16	8	1	0.5							
				120		C		7.5YR53	30/55	10YR56	10	HR	P	CPR	MD								16	8	1	0.5							
																				0	0	0	0										
307		B	≤7	25		HCL	N	10YR42				0					52	25	III	3b	18		1		37.59	1	7.29	2					
				55		SCL		10YR53	10/25	10YR56	5	HR	P	MSAB	MD								15	10	1	0.5							
				120		SC		10YR53	30/55	10YR56	5	HR	P	CPR	MD								15	10	1	0.5							
																				0	0	0	0										
308		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	17		1		22.64	2	7.54	2					
				52		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								16	8	1	0.5							
				120		C		10YR41	25/52	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
																				0	0	0	0										
309		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		20.02	2	6.04	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										
310		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		22.64	2	7.54	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										
311		B	≤7	30		C	N	10YR32				5	HR				50	30	III	3b	17		1		22.64	2	7.54	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										
312		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		22.87	2	8.89	2					
				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										
313		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17		1		25.49	2	9.92	2					
				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										
314		B	≤7	30		HCL	N	10YR42				5	HR				50	30	III	3b	18		1		25.49	2	10.39	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										
315		B	≤7	28		HCL	N	10YR42				5	HR				55	28	III	3b	18		1		25.11	2	10.01	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										
316		B	≤7	28		HCL																											

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots. black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (Fifirm consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	STAV	StEAV	MBW	Grain (Drought- WHEAT)	MBP	Grain (Drought- POTATOES)
321	B	57	22		HCL	N	10YR52					5	HR				55	22	III	3b	18		1		24.92	2	8.87	2
			55	HCL		10YR53	15/22	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5								
			120	C		10YR64	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5								
			120														0	0	0	0								
322	B	57	20		HCL	N	10YR52					5	HR				55	20	III	3b	18		1		24.54	2	8.49	2
			55	HCL		10YR53	20/20	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5								
			120	C		10YR64	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5								
			120														0	0	0	0								
323	B	57	20		HCL	N	10YR52					5	HR				50	20	III	3b	18		1		33.57	1	5.19	2
			50	HCL		10YR53	10/20	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5								
			120	SC		10YR64	15/50	10YR56	10	HR	P	CPR	MD				15	10	1	0.5								
			120														0	0	0	0								
324	B	57	20		HCL	N	10YR52					5	HR				55	20	III	3b	18		1		24.54	2	8.49	2
			55	HCL		10YR53	20/20	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5								
			120	C		10YR64	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5								
			120														0	0	0	0								
325	B	57	15		MCL	N	10YR52					0					55	15	III	3a	18		1		45.26	1	10.39	1
			55	C		10YR51	25/15	10YR56	0			P	MSAB	MD				16	8	1	0.5							
			120	MSL		7.5YR53	10/55	10YR61	5	HR	P	M/F	MD				15	11	1	0.5								
			120														0	0	0	0								
326	B	57	25		HCL	N	10YR42					5	HR				55	25	III	3b	18		1		30.53	1	2.47	2
			55	HCL		7.5YR53	10/25	10YR56	15	HR	P	MSAB	MD				16	10	1	0.5								
			120	SCL		10YR53	30/55	10YR56	10	HR	P	CPR	MD				15	10	1	0.5								
			120														0	0	0	0								
327	B	57	25		HCL	N	10YR42					5	HR				55	25	III	3b	18		1		16.71	2	1.27	2
			55	SCL		7.5YR53	10/25	10YR56	15	HR	P	MSAB	MD				15	10	1	0.5								
			120	C		10YR53	30/55	10YR56	10	HR	P	CPR	MD				16	8	1	0.5								
			120														0	0	0	0								
328	B	57	25		HCL	N	10YR42					0					50	20	III	3b	18		1		30.82	1	14.34	1
			50	C		10YR53	20/20	10YR56	0			P	MSAB	MD				16	8	1	0.5							
			120	C		10YR64	25/55	10YR56	5	CH	P	CPR	MD				16	8	10	7								
			120														0	0	0	0								
329	B	57	20		HCL	N	10YR52					5	HR				55	20	III	3b	18		1		24.54	2	8.49	2
			55	HCL		10YR53	20/20	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5								
			120	C		10YR64	20/55	10YR56	5	HR/CH	P	CPR	MD				16	8	1	0.5								
			120														0	0	0	0								
330	B	57	30		HCL	N	10YR33					5	HR				50	30	III	3b	18		1		22.87	2	8.89	2
			50	C		10YR53	15/30	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5								
			120	C		10YR41	30/50	10YR56	10	HR	P	CPR	MD				16	8	1	0.5								
			120														0	0	0	0								
331	B	57	30		HCL	N	10YR32					5	HR				50	30	III	3b	18		1		22.87	2	8.89	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								
			120														0	0	0	0								
332	B	57	30		HCL	N	10YR42					5	HR				55	30	III	3b	17		1		18.83	2	7.54	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								
			120														0	0	0	0								
333	B	57	30		C	N	10YR32					0					50	30	III	3b	17		1		25.04	2	9.94	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								
			120														0	0	0	0								
334	B	57	30		HCL	N	10YR42					5	HR				50	30	III	3b	18		1		22.87	2	8.89	2
			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								
			120														0	0	0	0								
335	B	57	30		HZCL	N	10YR42					5	HR				55	30	III	3b	19		1		31.19	1	15.62	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								
			120														0	0	0	0								
336	B	57	30		HZCL	N	10YR42					5	HR				55	30	III	3b	19		1		31.19	1	15.62	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								
			120														0	0	0	0								
337	B	57	30		HZCL	N	10YR42					5	HR				55	30	III	3b	19		1		29.29	2	13.24	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								
			120														0	0	0	0								
338	B	57	30		C	N	10YR32					5	HR				50	30	III	3b	17		1		18.52	2	4.54	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								
			120														0	0	0	0								
339	B	57	30		HCL	N	10YR42					5	HR				50	30	III	3b	18		1		22.87	2	8.89	2
			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								
			120														0	0	0	0								
340	B	57	30		HCL	N	10YR42					5	HR				55	30	III	3b	17		1		20.21	2	6.42	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								
			120														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	Mots./black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (If firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TA _V	EA _V	STAV	STEAV	MBW	Grade (Drought WHEAT)	MIP	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					
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							
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							
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							
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							
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							
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							
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							
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							
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							
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							
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							
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							
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							
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							
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							
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							
378		B	≤7	28		HCL	N	10YR42				5	HR			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							
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							
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							

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 (Firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	StAV	StEAV	MBW	Grade (Drought-Wetness)	MBP	Grade (Drought-POTATOES)								
381		B	57	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													
382		B	57	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													
383		B	57																																	
384		B	57																																	
385		B	57	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													
386		B	57	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													
387		B	57	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													
388		P	57	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								
389		B	57	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								
390		B	57	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													
391		B	57	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													
392		B	57	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													
393		B	57	28		HZCL	N	10YR32				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													
394		B	57	28		HCL	N	10YR32				5	HR			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													
395		B	57	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													
396		B	57	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													
397		B	57	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													
398		B	57	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													
399		B	57	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													
400		B	57	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													

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mons./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StAv	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				5	HR				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																								

Obs point	Grid ref. if off intersection	Boring or PIT	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott/ 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	StAV	StEAV	MBW	Grade (Drought MBP)	MBP	Grade (Drought POTATOES)	
421		B	57	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							
422		B	57	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							
423		B	57	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							
424		B	57	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							
425		B	57	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							
426		B	57	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							
427		B	57	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							
428		P	57	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							
429		B	57	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							
430		B	57	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	57	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							
432		B	57	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	57	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	57	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	57	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	57	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							
437		B	57	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							
438		B	57	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							
439		B	57	28		HCL	N	10YR42				5	HR				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							
440		B	57	30		HCL	Y	10YR42				5	HR				50	30	III	3b	18		1		26.81				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott's/black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct v/f=firm consistency	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	STAv	STEAv	MRW	Grade (Drought WHEAT)	MRP	Grade (Drought POTATOES)
441		B	57	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	16	8	1	0.5					
				120		C		10YR42	30/55	10YR56	10	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
442		B	57	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	16	8	1	0.5					
				120		C		10YR42	25/55	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
443		B	57	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	16	8	1	0.5					
				120		C		10YR41	25/55	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
444		B	57	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	16	8	1	0.5					
				90		C		10YR41	25/45	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
				121		C		10YR42	25/90	10YR57	6	HR	P	CPR	WK	0	0	0	0	0	0	0	0					
445		B	57	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	16	8	1	0.5					
				120		C		10YR41	30/55	10YR56	10	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
446		B	57	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	12	7	1	0.5					
				90		C		10YR41	25/45	10YR56	5	HR	P	CPR	MD	0	0	0	0	12	7	1	0.5					
				120		C		10YR42	25/90	10YR57	5	HR	P	CPR	WK	0	0	0	0	0	0	0	0					
447		B	57	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	12	7	1	0.5					
				120		C		10YR41	30/55	10YR56	10	HR	P	CPR	MD	0	0	0	0	0	0	0	0					
448		P	57	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	16	10	1	0.5					
				90		HCL		10YR41	25/45	10YR56	5	HR	P	CPR	MD	13	7	1	0.5	16	10	1	0.5					
				121		C		10YR42	25/90	10YR57	5	HR	P	CPR	WK	0	0	0	0	13	7	1	0.5					
449		B	57	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	16	10	1	0.5					
				60		MCL		10YR52	15/45	10YR56	5	HR	P	CPR	MD	16	10	1	0.5	15	9	1	0.5					
450		B	57	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	16	10	1	0.5					
				65		MCL		10YR52	15/50	10YR56	5	HR	P	CPR	MD	16	10	1	0.5	15	9	1	0.5					
451		B	57	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	16	8	1	0.5					
				120		C		10YR41	20/30	10YR56	10	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
452		B	57	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	16	8	1	0.5					
				120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
453		B	57	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	16	8	1	0.5					
				120		C		10YR41	30/50	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
454		B	57	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	16	8	1	0.5					
				120		C		10YR41	30/45	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
455		B	57	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	16	8	1	0.5					
				120		C		10YR41	25/55	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
456		B	57	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	16	8	1	0.5					
				90		C		10YR41	25/45	10YR56	5	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
				121		C		10YR42	25/90	10YR57	6	HR	P	CPR	WK	0	0	0	0	0	0	0	0					
457		B	57	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	16	8	1	0.5					
				120		C		10YR41	30/55	10YR56	10	HR	P	CPR	MD	0	0	0	0	16	8	1	0.5					
458		B	57	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	16	8	1	0.5					
				65		C		10YR41	20/45	10YR56	5	HR	P	CPR	MD	16	8	1	0.5	13	7	1	0.5					
				120		C		10YR42	20/65	10YR56	5	HR	P	CPR	WK	0	0	0	0	13	7	1	0.5					
459		B	57	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	16	8	1	0.5					
				65		C		10YR41	20/45	10YR56	5	HR	P	CPR	MD	16	8	1	0.5	13	7	1	0.5					
460		B	57	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	16	8	1	0.5					
				65		C		10YR41	20/40	10YR56	5	HR	P	CPR	MD	16	8	1	0.5	13	7	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	Mott/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	SEAv	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				5	HR				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																			

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mottz./black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistenc e)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StAv	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				5	HR				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		</															

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=Imm consistency)	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		HCL		10YR53	15/28	10YR56				5	HR	P	MSAB	MD	50	28	III	3b		19	10	1	0.5	28.56	2	14.89	1
				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		C		10YR53	20/28	10YR56				5	HR	P	MSAB	MD	50	28	III	3b		16	8	1	0.5	29.09	2	14.30	1
				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		C		10YR53	15/28	10YR56				5	HR	P	MSAB	MD	50	28	III	3b		16	8	1	0.5	23.77	2	8.98	2
				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		C		10YR53	15/28	10YR56				5	HR	P	MSAB	MD	50	28	III	3b		16	8	1	0.5	23.77	2	8.98	2
				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		C		10YR53	25/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b		16	8	1	0.5	23.92	2	10.44	1
				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		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b		16	8	1	0.5	26.36	2	11.57	1
				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		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b		16	8	1	0.5	26.36	2	11.57	1
				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		C		10YR63	20/30	10YR56				0		P	MSAB	MD	55	30	III	3b		16	8	1	0.5	30.49	1	14.57	1
				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		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b		16	8	1	0.5	26.36	2	11.57	1
				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		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b		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							
511		B	≤7	30		HCL	N	10YR42				5	HR																		
				45		SCL		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	45	30	III	3b		15	10	1	0.5	20.16	2	16.79	1
				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		SCL		10YR53	15/30	10YR56				5	HR	P	MSAB	MD	45	30	III	3b		15	10	1	0.5	20.16	2	16.79	1
				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		SCL		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	45	30	III	3b		15	10	1	0.5	21.11	2	20.62	1
				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		HCL		10YR64	10/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b		16	10	1	0.5	29.66	2	14.87	1
				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		C		10YR64	15/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b		16	8	1	0.5	26.81	2	12.02	1
				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		C		10YR64	25/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b		16	8	1	0.5	24.19	2	10.52	1
				120		C		10YR41	25/50	10YR56																					

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott/ black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	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	57	30		C	N	10YR32				5	HR				50	30	III	3b					23.96	2	9.17	2			
				50		C		10YR64	25/30	10YR56	5	HR	P	MSAB	MD	17					1			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	57	28		C	N	10YR41				5	HR				45	28	III	3b					18.90	2	8.98	2			
				45		C		10YR42	15/28	10YR56	5	HR	P	MSAB	MD	17					1			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	57	28		C	N	10YR42				5	HR				45	28	III	3b					16.02	2	7.10	2			
				45		C		10YR42	20/28	10YR56	5	HR	P	MSAB	MD	17					1			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	57	30		C	N	10YR42				5	HR				55	30	III	3b					22.41	2	9.17	2			
				55		C		10YR52	25/30	10YR56	5	HR	P	MSAB	MD	17					1			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	57	28		C	N	10YR32				5	HR				55	28	III	3b					23.77	2	8.98	2			
				55		C		10YR64	20/28	10YR56	5	HR	P	MSAB	MD	17					1			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	57	28		C	N	10YR31				5	HR				55	28	III	3b					23.77	2	8.98	2			
				55		C		10YR64	20/28	10YR56	5	HR	P	MSAB	MD	17					1			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	57	30		HCL	N	10YR32				5	HR				50	30	III	3b					26.81	2	12.02	1			
				50		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	18					1			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	57	30		HCL	N	10YR42				5	HR				45	30	III	3b					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	57	30		HZCL	N	10YR32				5	HR				45	30	III	3b					23.01	2	19.64	1			
				45		SCL		10YR53	15/30	10YR56	5	HR	P	MSAB	MD	19					1			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	57	30		HCL	N	10YR41				5	HR				45	30	III	3b					25.39	2	10.59	1			
				45		SCL		10YR53	5/45	10YR56	5	HR	P	MSAB	MD	18					1			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	57	30		HCL	N	10YR42				5	HR				50	30	III	3b					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	57	30		HCL	N	10YR32				5	HR				50	30	III	3b					28.71	2	12.02	1			
				50		C		10YR64	15/30	10YR56	5	HR	P	MSAB	MD	18					1			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	57	30		HCL	N	10YR42				5	HR				50	30	III	3b					24.19	2	10.52	1			
				50		C		10YR53	25/30	10YR56	5	HR	P	MSAB	MD	18					1			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	57	30		C	N	10YR42				0					55	30	III	3b					23.92	2	10.44	1			
				55		C		10YR53	25/30	10YR56	5	HR	P	MSAB	MD	17					1			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	57	30		C	N	10YR42				5	HR				55	30	III	3b					23.96	2	9.17	2			
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	17					1			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	57	30		C	N	10YR42				0					55	30	III	3b					28.05	2	13.44	1			
				55		C		10YR53	20/30	10YR56	0		P	MSAB	MD	17					1			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	57	30		C	N	10YR42				0					55	30	III	3b					23.92	2	10.44	1			
				55		C		10YR53	25/30	10YR56	5	HR	P	MSAB	MD	17					1			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	57	30		C	N	10YR42				0					55	30	III	3b					26.36	2	11.57	1			
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	17					1			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	57	30		C	N	10YR42				0					55	30	III	3b					26.36	2	11.57	1			
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	17					1			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	57	30		C	N	10YR42				0					55	30	III	3b					30.49	1	14.57	1			
				55		C		10YR63	20/30	10YR56	0		P	MSAB	MD	17					1			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	Mott./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (P=firm consistency)	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	57	25		C	N	10YR42				0																				
				55		C		10YR53	20/25	10YR56	5	HR	P	MSAB	MD	55	25	III	3b	17	8	1	0.5	23.05	2	9.57	2					
				120		C		10YR41	30/55	10YR56	10	HR	P	CPR	MD					16	8	1	0.5									
602		B	57	30		C	N	10YR42				5	HR																			
				55		C		10YR53	25/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	17	8	1	0.5	23.96	2	9.17	2					
				120		C		10YR41	30/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
603		B	57	30		C	N	10YR32				0																				
				55		C		10YR53	20/30	10YR56	0		P	MSAB	MD	55	30	III	3b	17	8	1	0.5	28.05	2	13.44	1					
				120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
604		B	57	30		C	N	10YR32				0																				
				55		C		10YR53	25/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	17	8	1	0.5	26.36	2	11.57	1					
				120		C		10YR41	30/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
605		B	57	28		HCL	N	10YR42				5	HR																			
				50		C		10YR53	15/28	10YR56	5	HR	P	MSAB	MD	50	28	III	3b	18	8	1	0.5	26.43	2	11.64	1					
				120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
606		B	57	28		HCL	N	10YR42				5	HR																			
				50		HCL		10YR53	15/28	10YR56	5	HR	P	MSAB	MD	50	28	III	3b	18	10	1	0.5	26.43	2	11.64	1					
				120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
607		B	57	30		HCL	N	10YR42				5	HR																			
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	17	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									
608		P	57	30		HCL	N	10YR32				5	HR																			
				45		HCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	45	30	III	3b	18	10	1	0.5	21.59	2	18.22	1					
				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	57	30		HCL	N	10YR32				5	HR																			
				45		SCL		10YR53	15/30	10YR56	5	HR	P	MSAB	MD	45	30	III	3b	18	10	1	0.5	20.16	2	16.79	1					
				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	57	30		HCL	N	10YR42				5	HR																			
				45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	45	30	III	3b	18	10	1	0.5	21.11	2	20.62	1					
				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	57	30		HCL	N	10YR41				5	HR																			
				45		C		10YR53	5/45	10YR56	5	HR	P	MSAB	MD	45	30	III	3b	18	8	1	0.5	26.81	2	12.02	1					
				120		C		10YR41	25/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
612		B	57	28		HCL	N	10YR32				5	HR																			
				55		C		10YR3	10/28	10YR56	5	HR	P	MSAB	MD	55	28	III	3b	18	10	1	0.5	11.94	2	11.64	1					
				120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
613		B	57	25		HCL	N	10YR42				5	HR																			
				50		HCL		10YR53	15/25	10YR56	5	HR	P	MSAB	MD	50	25	III	3b	18	10	1	0.5	25.86	2	11.07	1					
				120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
614		B	57	25		HCL	N	10YR32				5	HR																			
				50		HCL		10YR53	20/25	10YR56	5	HR	P	MSAB	MD	50	25	III	3b	18	10	1	0.5	25.86	2	11.07	1					
				120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
615		B	57	28		HCL	N	10YR32				5	HR																			
				50		HCL		10YR53	15/28	10YR56	5	HR	P	MSAB	MD	50	28	III	3b	18	10	1	0.5	26.43	2	11.64	1					
				120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
616		B	57	30		HCL	N	10YR32				5	HR																			
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	17	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									
617		B	57	30		HCL	N	10YR42				5	HR																			
				45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	45	30	III	3b	18	10	1	0.5	21.11	2	20.62	1					
				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	57	30		HCL	N	10YR41				5	HR																			
				45		SCL		10YR53	5/45	10YR56	5	HR	P	MSAB	MD	45	30	III	3b	18	10	1	0.5	25.39	2	10.59	1					
				120		C		10YR41	25/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
619		B	57	30		HCL	N	10YR42				5	HR																			
				50		HZCL		10YR64	10/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	17	10	1	0.5	25.86	2	11.07	1					
				120		C		10YR41	15/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5									
620		B																														

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott / black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F _h =mm consistency)	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			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			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			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			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			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			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			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			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			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			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			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			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			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			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			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			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					
																					0	0	0	0					
637		B	≤7	30		HCL	N	10YR41				5	HR				45	30	III	3b			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			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			1		26.43	2	11.64	1	
				50		HCL		10YR64	15/28	10YR56		5	HR	P	MSAB	MD					16	10	1	0.5					
		</																											

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mottc./black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StAv	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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								
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								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott. / black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StAv	SEAv	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
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
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
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
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
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
667		B	≤7	120		SC		10YR42	25/60	10YR56		5	HR	P	CPR	WK					12	7	1	0.5	25.39	2	10.59	1	
				30		HCL	N	10YR41			5	HR										18		1					
				45		SCL		10YR53	5/45	10YR56	5	HR	P	MSAB	MD							15	10	1					0.5
668		P	≤7	120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5	26.81	2	12.02	1	
				30		HCL	N	10YR41			5	HR										18		1					
				50		C		10YR64	15/30	10YR56	5	HR	P	MSAB	MD							16	8	1					0.5
669		B	≤7	120		C		10YR41	20/50	10YR56		5	HR	P	CPR	MD					16	8	1	0.5	26.43	2	11.64	1	
				28		HCL	N	10YR42			5	HR										18		1					
				50		HCL		10YR64	15/28	10YR56	5	HR	P	MSAB	MD							16	10	1					0.5
670		B	≤7	120		C		10YR41	25/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5	26.81	2	12.02	1	
				30		HCL	N	10YR41			5	HR										18		1					
				50		C		10YR64	15/30	10YR56	5	HR	P	MSAB	MD							16	8	1					0.5
671		B	≤7	120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5	20.16	2	16.79	1	
				30		HCL	N	10YR42			5	HR										18		1					
				45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD							15	10	1					0.5
672		B	≤7	120		C		10YR41	20/45	10YR56		5	HR	P	CPR	MD					16	8	1	0.5	20.16	2	16.79	1	
				30		HCL	N	10YR42			5	HR										18		1					
				45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD							15	10	1					0.5
673		B	≤7	120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5	22.54	2	14.42	1	
				30		HCL	N	10YR42			5	HR										18		1					
				45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD							15	10	1					0.5
674		B	≤7	120		C		10YR42	20/65	10YR56		5	HR	P	CPR	WK					13	7	1	0.5	20.16	2	16.79	1	
				30		HCL	N	10YR42			5	HR										18		1					
				45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD							15	10	1					0.5
675		B	≤7	120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5	31.56	1	16.77	1	
				30		HZCL	N	10YR42			5	HR										19		1					
				50		HZCL		10YR64	10/30	10YR56	5	HR	P	MSAB	MD							17	10	1					0.5
676		B	≤7	120		C		10YR41	15/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5	28.71	2	13.92	1	
				30		HCL	N	10YR42			5	HR										18		1					
				50		HZCL		10YR64	15/30	10YR56	5	HR	P	MSAB	MD							17	10	1					0.5
677		B	≤7	120		SC		10YR41	25/60	10YR56		5	HR	P	CPR	MD					15	10	1	0.5	42.66	1	13.62	1	
				30		MCL	N	10YR41			0											18		1					
				60		MCL		10YR53	15/30	10YR56	5	HR	P	MSAB	MD							16	10	1					0.5
678		B	≤7	120		SC		10YR41	25/60	10YR56		0		P	CPR	MD					15	10	1	0.5	47.49	1	16.57	1	
				30		MCL	N	10YR41			0											18		1					
				60		MCL		10YR53	15/30	10YR56	0		P	MSAB	MD							16	10	1					0.5
679		B	≤7	120		C		10YR41	15/55	10YR56		10	HR	P	CPR	MD					16	8	1	0.5	23.24	2	9.57	2	
				30		HCL	N	10YR42			5	HR										17		1					
				50		HZCL		10YR64	10/30	10YR56	5	HR	P	MSAB	MD							17	10	1					0.5
680		B	≤7	120		C		10YR41	20/55	10YR56		5	HR	P	CPR	MD					16	8	1	0.5	26.81	2	12.02	1	
				30		HCL	N	10YR32			5	HR										18		1					
				50		C		10YR64	15/30	10YR56	5	HR	P	MSAB	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	Mnts / black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MRW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)		
681		B	≤7	28		C	N	10YR32				0																		
				50		C		10YR53	10/28	10YR56	5	HR	P	MSAB	MD									17		1				
				120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD									16	10	1	0.5	26.01	2	11.22
682	B	≤7	30		HCL	N	10YR42					5	HR																	
			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				
683	B	≤7	25		HCL	N	10YR32					5	HR																	
			50		HCL		10YR53	20/25	10YR56	5	HR	P	MSAB	MD									16	10	1	0.5	23.24	2	9.57	2
			120		C		10YR41	15/50	10YR56	10	HR	P	CPR	MD									16	8	1	0.5				
684	B	≤7	28		HCL	N	10YR42					5	HR																	
			55		HCL		10YR53	15/28	10YR56	5	HR	P	MSAB	MD									16	10	1	0.5	27.38	2	11.64	1
			120		C		10YR41	15/55	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
685	B	≤7	30		HCL	N	10YR32					5	HR																	
			55		C		10YR53	20/30	10YR56	10	HR	P	MSAB	MD									16	8	1	0.5	19.84	2	6.17	2
			120		C		10YR41	20/55	10YR56	10	HR	P	CPR	MD									16	8	1	0.5				
686	B	≤7	28		HCL	N	10YR32					5	HR																	
			50		HCL		10YR53	15/28	10YR56	5	HR	P	MSAB	MD									16	10	1	0.5	26.43	2	11.64	1
			120		C		10YR41	15/50	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
687	B	≤7	30		HCL	N	10YR41					5	HR																	
			45		SCL		10YR53	15/45	10YR56	5	HR	P	MSAB	MD									15	10	1	0.5	25.39	2	10.59	1
			120		C		10YR41	25/55	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
688	P	≤7	30		HCL	N	10YR41					5	HR																	
			50		C		10YR64	15/30	10YR56	5	HR	P	MSAB	MD									16	8	1	0.5	26.81	2	12.02	1
			120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
689	B	≤7	30		HCL	N	10YR42					5	HR																	
			50		HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD									16	10	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				
690	B	≤7	30		HCL	N	10YR41					5	HR																	
			50		C		10YR64	15/30	10YR56	5	HR	P	MSAB	MD									16	8	1	0.5	26.81	2	12.02	1
			120		C		10YR41	25/55	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
691	B	≤7	30		HCL	N	10YR42					5	HR																	
			50		HCL		10YR64	10/30	10YR56	5	HR	P	MSAB	MD									16	10	1	0.5	21.34	2	7.67	2
			120		C		10YR41	15/55	10YR56	10	HR	P	CPR	MD									16	8	1	0.5				
692	B	≤7	30		HCL	N	10YR42					5	HR																	
			45		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD									16	8	1	0.5	29.21	2	18.22	1
			65		C		10YR41	20/45	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
693	B	≤7	30		HCL	N	10YR42					5	HR																	
			45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD									13	7	1	0.5	22.54	2	14.42	1
			65		SC		10YR41	20/45	10YR56	5	HR	P	CPR	MD									15	10	1	0.5				
694	B	≤7	120		C		10YR42	20/65	10YR56	5	HR	P	CPR	WK																
			30		HCL	N	10YR42																13	7	1	0.5	20.16	2	16.79	1
			45		SCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD									16	8	1	0.5				
695	B	≤7	30		HZCL	N	10YR42					5	HR																	
			50		HCL		10YR64	10/30	10YR56	5	HR	P	MSAB	MD									19		1		29.66	2	14.87	1
			120		C		10YR41	15/55	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
696	B	≤7	30		HCL	N	10YR42					5	HR																	
			50		HZCL		10YR64	15/30	10YR56	5	HR	P	MSAB	MD									17	10	1	0.5	28.71	2	13.92	1
			120		C		10YR41	15/55	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
697	B	≤7	30		HCL	N	10YR41					0																		
			60		HCL		10YR53	15/30	10YR56	5	HR	P	MSAB	MD									18		1		31.26	1	14.57	1
			120		C		10YR41	25/60	10YR56	5	HR	P	CPR	MD									16	8	1	0.5				
698	B	≤7	30		HCL	N	10YR41					0																		
			60		HCL		10YR53	15/30	10YR56	0		P	MSAB	MD									16	10	1	0.5	47.49	1	16.57	1
			120		SC		10YR41	25/60	10YR56	0		P	CPR	MD									15	10	1	0.5				
699	B	≤7	30		HCL	N	10YR32					5	HR																	
			50		HZCL		10YR64	10/30	10YR56	10	HR	P	MSAB	MD									17	10	1	0.5	21.64	2	7.97	2
			120		C		10YR41	15/55	10YR56	10	HR	P	CPR	MD									16	8	1	0.5				
700	B	≤7	30		HCL	N	10YR32					5	HR																	
			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	20/55	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 consistency)	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	s7	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					
742		B	s7	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					
743		B	s7	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					
744		B	s7	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					
745		B	s7	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					
746		B	s7	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					
747		B	s7	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					
748		P	s7	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					
749		B	s7	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					
750		B	s7	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					
751		B	s7	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					
752		B	s7	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					
753		B	s7	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					
754		B	s7	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					
755		B	s7	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					
756		B	s7	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					
757		B	s7	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					
758		B	s7	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					
759		B	s7	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					
760		B	s7	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					

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

Obs point	Grid ref. if off intersection	Boring or PIT	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Caic	Matrix colour	Mott's/black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	StTAV	StEAV	MRW	Grade (Drought WHEAT)	MRP	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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					
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					8	1	0.5					
				120		SC		10YR41	25/45	10YR56	5	HR	P	CPR	MD	15					8	1	0.5					
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					
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					

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 consistenc e)	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																									#VALUE!	#VALUE!	#VALUE!	#VALUE!							
802																									#VALUE!	#VALUE!	#VALUE!	#VALUE!							
803		B	57	25		HCL	N	10YR32				5	HR																						
				50		HCL		10YR53	20/25	10YR56					5	HR	P	MSAB	MD	50	25	III	3b					18	1	0.5	23.24	2	9.57	2	
				120		C		10YR41	25/50	10YR56					10	HR	P	CPR	MD									16	8	1	0.5				
804		B	57	28		HCL	N	10YR42				5	HR																						
				50		HCL		10YR53	15/28	10YR56					5	HR	P	MSAB	MD	50	28	III	3b					18	1	0.5	26.43	2	11.64	1	
				120		C		10YR41	25/50	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
805		B	57	30		HCL	N	10YR42				5	HR																						
				55		C		10YR53	20/30	10YR56					5	HR	P	MSAB	MD	55	30	III	3b					17	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				
806		B	57	30		HCL	N	10YR32				5	HR																						
				55		C		10YR53	15/30	10YR56					5	HR	P	MSAB	MD	55	30	III	3b					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				
807		B	57	30		HCL	N	10YR41				5	HR																						
				50		C		10YR64	15/30	10YR56					5	HR	P	MSAB	MD	50	30	III	3b					17	1	0.5	26.81	2	12.02	1	
				120		C		10YR41	25/55	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
808		P	57	30		HCL	N	10YR41				5	HR																						
				45		SCL		10YR53	25/30	10YR56					5	HR	P	MSAB	MD	45	30	III	3b					15	10	1	0.5	25.39	2	10.59	1
				120		C		10YR42	25/45	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
809		B	57	30		HCL	N	10YR41				5	HR																						
				55		C		10YR64	15/30	10YR56					5	HR	P	MSAB	MD	55	30	III	3b					18	1	0.5	26.81	2	12.02	1	
				120		C		10YR41	20/55	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
810		B	57	30		HCL	N	10YR41				5	HR																						
				50		C		10YR64	15/30	10YR56					5	HR	P	MSAB	MD	50	30	III	3b					16	8	1	0.5	26.81	2	12.02	1
				120		C		10YR41	20/55	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
811		B	57	28		HCL	N	10YR42				5	HR																						
				50		HCL		10YR64	15/28	10YR56					5	HR	P	MSAB	MD	50	28	III	3b					18	1	0.5	26.43	2	11.64	1	
				120		C		10YR41	20/50	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
812		B	57	30		HCL	N	10YR41				5	HR																						
				50		C		10YR64	15/30	10YR56					5	HR	P	MSAB	MD	50	30	III	3b					16	8	1	0.5	29.86	2	12.02	1
				120		C		10YR41	25/55	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
813		B	57	30		HCL	N	10YR41				5	HR																						
				50		C		10YR64	15/30	10YR56					5	HR	P	MSAB	MD	50	30	III	3b					18	1	0.5	26.81	2	12.02	1	
				120		C		10YR41	20/55	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
814		B	57	28		HCL	N	10YR42				5	HR																						
				50		HCL		10YR64	15/28	10YR56					5	HR	P	MSAB	MD	50	28	III	3b					16	10	1	0.5	26.43	2	11.64	1
				120		C		10YR41	20/50	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
815		B	57	30		HCL	N	10YR41				5	HR																						
				50		C		10YR64	15/30	10YR56					5	HR	P	MSAB	MD	50	30	III	3b					17	1	0.5	26.81	2	12.02	1	
				120		C		10YR41	25/55	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
816		B	57	30		HCL	N	10YR42				5	HR																						
				45		HCL		10YR53	20/30	10YR56					5	HR	P	MSAB	MD	45	30	III	3b					18	1	0.5	21.59	2	18.22	1	
				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	57	30		HCL	N	10YR32				5	HR																						
				55		C		10YR53	20/30	10YR56					5	HR	P	MSAB	MD	55	30	III	3b					17	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				
818		B	57	30		HCL	N	10YR41				5	HR																						
				50		C		10YR64	15/30	10YR56					5	HR	P	MSAB	MD	50	30	III	3b					16	8	1	0.5	26.81	2	12.02	1
				120		C		10YR41	25/55	10YR56					5	HR	P	CPR	MD									16	8	1	0.5				
819		B	57	30		SC	N	10YR42				5	HR																						
				55		C		10YR53	20/30	10YR56					5	HR	P	MSAB	MD	55	30	III	3b					17	1	0.5	13.56	2	3.09	2	
				120		C		10YR41	25/55	10YR56					15	CH	P	CPR	WK									13	7	1	0.5				
820		B	57	30		SC	N	10YR42				5	HR																						
				55		SCL		10YR53	20/30	10YR56					15	HR	P	MSAB	MD	55	30	III	3b					15	10	1	0.5	9.34	2	-2.78	2
				120		C		10YR41	25/55	10YR56					15	CH	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	Mott. / 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)	TA _V	EA _V	StTA _V	StEA _V	MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)				
821		B	S7	30		SCL	N	10YR42				5	HR																			
				55		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1		13.56	2	3.09	2		
				120		C		10YR41	25/55	10YR56				15	CH	P	CPR	WK					16	8	1	0.5						
822		B	S7	30		HCL	N	10YR41				5	HR																			
				45		C		10YR53	15/45	10YR56				5	HR	P	MSAB	MD	45	30	III	3b	18		1		26.81	2	12.02	1		
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					13	7	1	0.5						
823		B	S7	28		HCL	N	10YR42				5	HR																			
				50		HCL		10YR53	15/28	10YR56				5	HR	P	MSAB	MD	50	28	III	3b	16	10	1	0.5						
				120		C		10YR41	15/50	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
824		B	S7	30		HCL	Y	10YR42				5	HR																			
				50		HCL		10YR53	15/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	16	10	1	0.5						
				120		C		10YR41	20/50	10YR56				10	HR	P	CPR	MD					16	8	1	0.5						
825		B	S7	30		HCL	Y	10YR42				5	HR																			
				50		HCL		2.5YR53	15/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	16	10	1	0.5						
				120		SC		10YR41	20/50	10YR56				10	HR	P	CPR	MD					15	10	1	0.5						
826		B	S7	25		HCL	N	10YR42				5	HR																			
				55		C		7.5YR43	10/25	10YR56				10	HR	P	MSAB	MD	55	25	IV	3b	16	10	1	0.5						
				120		SC		10YR41	20/55	10YR56				10	HR	P	CPR	MD					15	10	1	0.5						
827		B	S7	25		HCL	N	10YR42				5	HR																			
				55		C		7.5YR53	10/25	10YR56				5	HR	P	MSAB	MD	55	25	IV	3b	16	10	1	0.5						
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					12	7	1	0.5						
828		P	S7	30		HCL	N	10YR42				5	HR																			
				55		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1		23.96	2	9.17	2		
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	8	1	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	S7	30		HCL	N	10YR42				5	HR																			
				55		C		10YR63	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	16	8	1	0.5						
				120		C		10YR41	30/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
833		B	S7	30		HCL	N	10YR42				5	HR																			
				50		C		10YR53	25/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	18		1							
				120		C		10YR41	25/50	10YR56				10	HR	P	CPR	MD					16	8	1	0.5						
834		B	S7	30		HCL	N	10YR32				5	HR																			
				55		C		10YR53	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	16	8	1	0.5						
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
835		B	S7	30		HCL	N	10YR32				5	HR																			
				55		C		10YR63	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1							
				120		C		10YR41	30/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
836		B	S7	30		HCL	N	10YR41				5	HR																			
				55		C		10YR53	20/30	10YR56				10	HR	P	MSAB	MD	55	30	III	3b	18		1							
				120		C		10YR52	25/55	10YR56				15	CH	P	CPR	MD					16	8	1	0.5						
837		B	S7	30		HCL	N	10YR41				5	HR																			
				55		C		10YR53	20/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	16	8	1	0.5						
				120		C		10YR52	25/55	10YR56				15	CH	P	CPR	MD					16	8	1	0.5						
838		B	S7	30		HCL	N	10YR41				10	HR																			
				55		C		10YR53	20/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	18		1							
				120		C		10YR52	35/55	10YR56				15	HR	P	CPR	MD					16	8	1	0.5						
839		B	S7	30		HZCL	Y	10YR42				5	HR																			
				50		HCL		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	19		1							
				120		C		10YR41	20/50	10YR56				5	HR	P	CPR	MD					16	10	1	0.5						
840		B	S7	30		HCL	N	10YR32				5	HR																			
				50		C		10YR64	15/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	16	8	1	0.5						
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						

Obs point	Gridref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mats./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		C		7.5R53	10/25	10YR56				5	HR	P	MSAB	MD	55	25	IV	3b	18			1								
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	10	1	0.5	20.64	2	5.37	2				
				120																			12	7	1	0.5								
882		B	≤7	30		HCL	N	10YR42				5	HR																					
				55		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17			1								
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	23.96	2	9.17	2				
				120																			0	0	0	0.5								
883		B	≤7	30		HCL	N	10YR42				5	HR																					
				55		C		10YR63	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17			1								
				120		C		10YR41	30/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	23.96	2	9.17	2				
				120																			0	0	0	0.5								
884		B	≤7	30		HCL	N	10YR42				5	HR																					
				50		C		10YR53	25/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	18			1								
				120		C		10YR41	30/50	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	26.81	2	12.02	1				
				120																			0	0	0	0								
885		B	≤7	30		HCL	N	10YR42				5	HR																					
				55		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17			1								
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	23.96	2	9.17	2				
				120																			0	0	0	0								
886		B	≤7	30		HCL	N	10YR42				5	HR																					
				55		C		10YR63	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17			1								
				120		C		10YR42	30/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	23.96	2	9.17	2				
				120																			0	0	0	0								
887		B	≤7	30		HCL	N	10YR42				10	HR																					
				55		HCL		10YR42	25/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	18			1								
				120		C		10YR53	25/55	10YR56				15	HR	P	CPR	MD					16	10	1	0.5	16.86	2	3.47	2				
				120																			0	0	0	0								
888		P	≤7	30		HCL	N	10YR41				5	HR																					
				55		C		10YR53	20/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	18			1								
				120		C		10YR52	25/55	10YR56				15	CH	P	CPR	MD					16	8	1	0.5	18.56	2	6.02	2				
				120																			0	0	0	0								
889		B	≤7	30		HCL	N	10YR43				15	HR																					
				55		HCL		10YR42	25/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	18			1								
				120		C		10YR53	25/55	10YR56				15	CH	P	CPR	MD					16	10	1	0.5	14.31	2	0.92	2				
				120																			0	0	0	0								
890		B	≤7	30		HCL	N	10YR43				15	HR																					
				55		HCL		10YR42	25/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	18			1								
				120		C		10YR53	25/55	10YR56				15	CH	P	CPR	MD					16	10	1	0.5	14.31	2	0.92	2				
				120																			0	0	0	0								
891		B	≤7	30		HCL	N	10YR41				5	HR																					
				55		C		10YR64	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	18			1								
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	26.81	2	12.02	1				
				120																			0	0	0	0								
892		B	≤7	30		HCL	N	10YR41				5	HR																					
				55		C		10YR64	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	18			1								
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	26.81	2	12.02	1				
				120																			0	0	0	0								
893		B	≤7	28		HCL	N	10YR42				5	HR																					
				50		HCL		10YR64	15/28	10YR56				5	HR	P	MSAB	MD	50	28	III	3b	18			1								
				120		C		10YR41	25/50	10YR56				5	HR	P	CPR	MD					16	10	1	0.5	26.43	2	11.64	1				
				120																			0	0	0	0								
894		B	≤7	30		HCL	N	10YR41				5	HR																					
				50		C		10YR64	20/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	18			1								
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5	26.81	2	12.02	1				
				120																			0	0	0	0								
895		B	≤7	30		HCL	N	10YR42				5	HR																					
				45		HCL		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	45	30	III	3b	18			1								
				70		C		10YR41	20/45	10YR56				5	HR	P	CPR	MD					16	10	1	0.5	22.06	2	12.02	1				
				120		C		10YR42	25/70	10YR56				5	HR	P	CPR	WK					16	8	1	0.5								
896		B	≤7	30		HCL	N	10YR42				5	HR																					

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott./black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	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			27.06	2	17.87	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			24.66	2	15.47	1
				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			28.14	2	15.32	1
				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			27.04	2	12.62	1
				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			29.41	2	15.47	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	0.5					
926		B	≤7	30		HCL	N	10YR42				5	HR				55	30	III	3b	17	1			29.41	2	15.47	1
				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			32.26	1	18.32	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			29.41	2	15.47	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					
929		B	≤7	30		HCL	N	10YR41				5	HR				55	30	III	3b	17	1			29.41	2	15.47	1
				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			24.05	2	11.65	1
				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			32.26	1	18.32	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			31.31	1	17.37	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			31.31	1	17.37	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			28.46	2	13.10	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					
935		B	≤7	30		SCL	N	10YR41				0					55	30	III	3a	17	1			28.43	2	14.37	1
				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			28.46	2	13.10	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					
937		B	≤7	28		SCL	N	10YR41				5	HR				50	28	III	3a	17	1			27.13	2	13.19	1
				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			30.36	1	15.47	1
				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			44.61			

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (Firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	SEAv	MBW	Grade (Drought: WtEv)	MBP	Grade (Drought: POTADES)				
941		B	≤7	30		HCL	N	10YR42				5	HR																			
				55		C		7.5R53	15/30	10YR56				5	HR	P	MSAB	MD	55	25	IV	3b	18	10	1	0.5	27.04	2	12.62	1		
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					12	7	1	0.5						
				120																												
942		B	≤7	30		HCL	N	10YR42				5	HR																			
				55		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1		29.41	2	15.47	1		
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
943		B	≤7	30		HCL	N	10YR32				5	HR																			
				55		C		10YR63	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1		29.41	2	15.47	1		
				120		C		10YR41	30/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
944		B	≤7	30		HCL	N	10YR32				5	HR																			
				50		C		10YR53	25/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	18		1		32.26	1	18.32	1		
				120		C		10YR41	30/50	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
945		B	≤7	30		HCL	N	10YR42				5	HR																			
				55		C		10YR53	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1		29.41	2	15.47	1		
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
946		B	≤7	30		HCL	N	10YR42				5	HR																			
				55		C		10YR63	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1		29.41	2	15.47	1		
				120		C		10YR42	30/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
947		B	≤7	30		HCL	N	10YR42				10	HR																			
				55		HCL		10YR42	25/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	18		1		22.31	2	9.77	2		
				120		C		10YR53	25/55	10YR56				15	HR	P	CPR	MD					16	10	1	0.5						
				120																												
948		P	≤7	30		HCL	N	10YR41				5	HR																			
				55		C		10YR53	20/30	10YR56				10	HR	P	MSAB	MD	55	30	III	3b	18		1		28.14	2	15.32	1		
				120		C		10YR52	25/55	10YR56				10	HR	P	CPR	MD					16	8	1	0.5						
				120																												
949		B	≤7	30		HCL	N	10YR43				15	HR																			
				55		HCL		10YR42	25/30	10YR56				15	HR	P	MSAB	MD	55	30	III	3b	18		1		19.76	2	7.22	2		
				120		C		10YR53	25/55	10YR56				15	HR	P	CPR	MD					16	10	1	0.5						
				120																												
950		B	≤7	30		HCL	N	10YR43				5	HR																			
				55		HCL		10YR42	25/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	18		1		33.21	1	18.32	1		
				120		C		10YR53	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
951		B	≤7	30		HCL	N	10YR41				5	HR																			
				55		C		10YR64	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	18		1		32.26	1	18.32	1		
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
952		B	≤7	30		HCL	N	10YR41				5	HR																			
				55		C		10YR64	20/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	18		1		32.26	1	18.32	1		
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
953		B	≤7	30		HCL	N	10YR42				5	HR																			
				50		HCL		10YR64	15/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	18		1		32.26	1	18.32	1		
				120		C		10YR41	25/50	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
954		B	≤7	30		HCL	N	10YR41				5	HR																			
				50		C		10YR64	20/30	10YR56				5	HR	P	MSAB	MD	50	30	III	3b	18		1		32.26	1	18.32	1		
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
955		B	≤7	30		HCL	N	10YR41				5	HR																			
				55		C		10YR64	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	18		1		32.26	1	18.32	1		
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	MD					16	8	1	0.5						
				120																												
956		B	≤7	30		HCL	N	10YR41				5	HR																			
				55		HCL		10YR53	15/30	10YR56				5	HR	P	MSAB	MD	55	30	III	3b	17		1		28.46	2	13.10	1		
				120		C		10YR41	20/55	10YR56				5	HR	P	C															

Obs point	Grid ref. if off intersection	Boring or Pit	Grid (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Matts./black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F-Firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TA _V	EAV	StAv	StEAv	MBW	Grade (Doughl. WHEAT)	MBP	Grade (Doughl. POTATOES)					
961		B	s7	30		HCL N	10YR32					5	HR																				
				50		HCL	10YR53	15/30	10YR56		10	HR	P	MSAB	MD						18		1										
				120		C	10YR41	25/50	10YR56		10	HR	P	CPR	MD	50	30	III	3b				16	10	1	0.5	28.14	2	15.32	1			
962		B	s7	30		HCL N	10YR42					5	HR																				
				55		C	10YR53	15/30	10YR56		5	HR	P	MSAB	MD								17		1								
				120		C	10YR41	20/55	10YR56		5	HR	P	CPR	MD	55	30	III	3b				16	8	1	0.5	29.41	2	15.47	1			
963		B	s7	30		HCL N	10YR42					5	HR																				
				50		C	10YR64	10/30	10YR56		5	HR	P	MSAB	MD								16	8	1	0.5	32.26	1	18.32	1			
				120		C	10YR41	25/50	10YR56		5	HR	P	CPR	MD	50	30	III	3b				16	8	1	0.5							
964		B	s7	30		HCL N	10YR41					5	HR																				
				45		HCL	10YR53	15/45	10YR56		5	HR	P	MSAB	MD								18		1								
				120		C	10YR41	25/45	10YR56		5	HR	P	CPR	MD	45	30	III	3b				15	10	1	0.5	30.84	1	16.90	1			
965		B	s7	30		HCL N	10YR41					5	HR																				
				45		HCL	10YR53	15/45	10YR56		5	HR	P	MSAB	MD								18		1								
				120		C	10YR41	25/45	10YR56		5	HR	P	CPR	MD	45	30	III	3b				16	10	1	0.5	32.26	1	18.32	1			
966		B	s7	30		HCL N	10YR41					5	HR																				
				45		SCL	10YR53	15/45	10YR56		5	HR	P	MSAB	MD								15	10	1	0.5	30.84	1	16.90	1			
				120		C	10YR41	25/45	10YR56		5	HR	P	CPR	MD	45	30	III	3b				16	8	1	0.5							
967		B	s7	30		HCL N	10YR41					5	HR																				
				45		C	10YR53	15/45	10YR56		5	HR	P	MSAB	MD								18		1								
				120		C	10YR41	25/45	10YR56		5	HR	P	CPR	MD	45	30	III	3b				15	10	1	0.5	30.84	1	16.90	1			
968		P	s7	30		HCL N	10YR41					5	HR																				
				45		HCL	10YR53	20/45	10YR56		10	HR	P	MSAB	MD								18		1								
				120		C	10YR41	25/45	10YR56		10	HR	P	CPR	MD	45	30	III	3b				16	10	1	0.5	28.14	2	15.32	1			
969		B	s7	30		HZCL N	10YR41					5	HR																				
				45		SCL	10YR53	25/45	10YR56		5	HR	P	MSAB	MD								19		1								
				120		C	10YR41	25/45	10YR56		10	HR	P	CPR	MD	45	30	III	3b				15	10	1	0.5	30.69	1	17.87	1			
970		B	s7	28		HCL N	10YR42					5	HR																				
				50		C	10YR53	15/28	10YR56		5	HR	P	MSAB	MD								18		1								
				120		C	10YR41	15/50	10YR56		5	HR	P	CPR	MD	50	28	III	3b				16	8	1	0.5	31.88	1	17.94	1			
971		B	s7	30		HCL N	10YR41					5	HR																				
				55		C	10YR64	20/30	10YR56		5	HR	P	MSAB	MD								18		1								
				120		C	10YR41	20/55	10YR56		5	HR	P	CPR	MD	55	30	III	3b				16	8	1	0.5	32.26	1	18.32	1			
972		B	s7	28		HCL N	10YR42					5	HR																				
				50		HCL	10YR64	15/28	10YR56		5	HR	P	MSAB	MD								18		1								
				120		C	10YR41	20/50	10YR56		5	HR	P	CPR	MD	50	28	III	3b				16	10	1	0.5	32.65	1	17.94	1			
973		B	s7	30		HCL N	10YR41					5	HR																				
				50		C	10YR64	15/30	10YR56		5	HR	P	MSAB	MD								18		1								
				120		C	10YR41	25/55	10YR56		5	HR	P	CPR	MD	50	30	III	3b				16	8	1	0.5	32.26	1	18.32	1			
974		B	s7	30		HCL N	10YR42					5	HR																				
				45		HCL	10YR53	20/30	10YR56		5	HR	P	MSAB	MD								16	10	1	0.5	27.04	2	24.52	1			
				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	s7	30		HCL N	10YR42					5	HR																				
				45		HCL	10YR53	20/30	10YR56		5	HR	P	MSAB	MD								18		1								
				65		C	10YR41	20/45	10YR56		5	HR	P	CPR	MD								16	10	1	0.5	27.04	2	18.32	1			
976		B	s7	30		HCL N	10YR41					5	HR																				
				45		HCL	10YR53	20/30	10YR56		5	HR																					

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mnts./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F-tilm consistenc e)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAv	EAv	StTAv	StEAv	MBW	Grade (brought WHEAT)	MBP	Grade (brought POTATOES)			
981		B	s7	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								
982		B	s7	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								
983		B	s7	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								
984		B	s7	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								
985		B	s7	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								
986		B	s7	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								
987		B	s7	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								
988		P	s7	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								
989		B	s7	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								
990		B	s7	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								
991		B	s7	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								
992		B	s7	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								
993		B	s7	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								
994		B	s7	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								
995		B	s7	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								
996		B	s7	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								
997		B	s7	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								
998		B	s7	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								
999		B	s7	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								
1000		B	s7	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								

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mottor/black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	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	S7	30		HZCL	N	10YR42				5	HR								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
1002		B	S7	30		HCL	N	10YR42				5	HR								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
1003		B	S7	30		HCL	N	10YR42				5	HR								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
1004		B	S7	30		HCL	N	10YR32				5	HR								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
1005		B	S7	30		HCL	N	10YR32				5	HR								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
1006		B	S7	30		HCL	N	10YR42				5	HR								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
1007		B	S7	30		HCL	N	10YR42				5	HR								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
1008		P	S7	30		HCL	N	10YR42				10	HR								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
1009		B	S7	30		HCL	N	10YR41				5	HR								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
1010		B	S7	30		HCL	N	10YR43				15	HR								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
1011		B	S7	30		HCL	N	10YR43				5	HR								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
1012		B	S7	30		HCL	N	10YR41				5	HR								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
1013		B	S7	30		HCL	N	10YR41				5	HR								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
1014		B	S7	30		HCL	N	10YR42				5	HR								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
1015		B	S7	30		HCL	N	10YR41				5	HR								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
1016		B	S7	30		HCL	N	10YR41				5	HR								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
1017		B	S7	30		HZCL	N	10YR41				5	HR								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
1018		B	S7	30		HZCL	N	10YR41				5	HR								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
1019		B	S7	30		SCL	N	10YR41				5	HR								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
1020		B	S7	30		C	N	10YR42				10	HR								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	Mnts / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F- _{film} consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	STAV	STEAV	MBW	Grade Drought: WHEAT)	MBP	Grade Drought: POTATOES)		
1041		B	s7	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
1042		B	s7	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
1043		B	s7	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
1044		B	s7	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
1045		B	s7	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
1046		B	s7	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
1047		B	s7	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
1048		P	s7	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
1049		B	s7	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
1050		B	s7	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
1051		B	s7	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
1052		B	s7	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
1053		B	s7	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
1054		B	s7	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
1055		B	s7	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
1056		B	s7	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
1057		B	s7	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
1058		B	s7	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
1059		B	s7	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
1060		B	s7	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

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots./black ferro conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	StTAV	SEAV	MBW	Grade (brought WHEAT)	MBP	Grade (brought POTATOES)
1061		B	s7	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				
1062		B	s7	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				
1063		B	s7	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				
1064		B	s7	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				
1065		B	s7	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				
1066		B	s7	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				
1067		B	s7	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				
1068		P	s7	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				
1069		B	s7	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				
1070		B	s7	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				
1071		B	s7	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				
1072		B	s7	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				
1073		B	s7	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				
1074		B	s7	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				
1075		B	s7	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				
1076		B	s7	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	0	0				
1077		B	s7	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				
1078		B	s7	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				
1079		B	s7	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				
1080		B	s7	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				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mnts./black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F-firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAv	StTAV	StEAv	MBW	Grade (brought: WHEAT)	MBP	Grade (brought: POTATOES)							
1081		B	S7	30		HZCL	N	10YR41				5	HR				60	30	III	3b					19		1								
				60		C		10YR42	15/30	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	23.96	2	12.02	1
				120		C		10YR53	20/60	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1082		B	S7	30		HCL	N	10YR42				5	HR				55	30	III	3b						18		1							
				55		HCL		10YR53	20/30	10YR56				10	HR	P	MSAB	MD										16	10	1	0.5	17.74	2	3.62	2
				120		HCL		10YR41	25/55	10YR56				10	HR	P	CPR	WK											12	7	1	0.5			
1083		B	S7	30		C	N	10YR42				5	HR				45	30	III	3b						17		1							
				45		SC		10YR53	20/30	10YR56				5	HR	P	MSAB	MD										15	10	1	0.5	14.46	2	0.62	2
				120		SC		10YR41	25/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1084		B	S7	30		C	N	10YR42				5	HR				55	30	III	3b						17		1							
				55		HZCL		10YR53	15/30	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	15.67	2	3.99	2
				120		SC		10YR41	25/55	10YR56				10	HR	P	CPR	WK											13	7	1	0.5			
1085		B	S7	25		HZCL	N	10YR41				5	HR				55	25	III	3b						19		1							
				55		C		10YR42	15/25	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	22.06	2	9.17	2
				120		C		10YR53	25/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1086		B	S7	30		HCL	N	10YR41				5	HR				50	30	III	3b						18		1							
				50		C		10YR53	15/30	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	17.89	2	5.12	2
				120		C		10YR52	15/50	10YR56				10	HR	P	CPR	WK											13	7	1	0.5			
1087		B	S7	30		HCL	N	10YR42				5	HR				55	30	III	3b						18		1							
				55		C		10YR53	15/30	10YR56				5	HR	P	MSAB	MD										16	10	1	0.5	21.59	2	7.74	2
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1088		P	S7	30		C	N	10YR42				5	HR				55	25	III	3b						17		1							
				55		C		10YR55	20/30	10YR56				5	HR	P	MSAB	MD										16	10	1	0.5	18.74	2	4.89	2
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1089		B	S7	30		MCL	N	10YR41				5	HR				50	30	III	3a						18		1							
				50		C		10YR53	10/30	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	20.16	2	6.32	2
				120		C		10YR52	15/50	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1090		B	S7	30		HCL	N	10YR42				5	HR				55	25	III	3b						18		1							
				55		C		10YR53	15/30	10YR56				5	HR	P	MSAB	MD										16	10	1	0.5	21.59	2	7.74	2
				120		C		7.5YR41	20/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1091		B	S7	30		HCL	N	10YR42				5	HR				55	25	III	3b						18		1							
				55		C		10YR53	15/30	10YR56				5	HR	P	MSAB	MD										16	10	1	0.5	21.59	2	7.74	2
				120		C		10YR41	20/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1092		B	S7	30		HZCL	N	10YR41				5	HR				60	30	III	3b						19		1							
				60		C		10YR42	25/30	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	21.10	2	12.02	1
				120		C		10YR53	25/60	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1093		B	S7	30		HZCL	N	10YR42				5	HR				55	30	III	3b						19		1							
				55		HCL		10YR53	20/30	10YR56				5	HR	P	MSAB	MD										16	10	1	0.5	22.32	2	8.34	2
				120		HCL		10YR41	25/55	10YR56				10	HR	P	CPR	WK											12	7	1	0.5			
1094		B	S7	30		C	N	10YR42				5	HR				45	30	III	3b						17		1							
				45		SC		10YR53	20/30	10YR56				5	HR	P	MSAB	MD										15	10	1	0.5	14.46	2	0.62	2
				120		C		10YR41	25/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1095		B	S7	30		HCL	N	10YR42				5	HR				55	25	III	3b						18		1							
				55		C		7.5YR53	15/30	10YR56				5	HR	P	MSAB	MD										16	10	1	0.5	21.59	2	7.74	2
				120		C		7.5YR41	20/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1096		B	S7	30		C	N	10YR42				10	HR				45	30	III	3b						18		1							
				45		C		10YR53	20/30	10YR56				10	HR	P	MSAB	MD										16	8	1	0.5	12.49	2	-0.28	2
				120		SC		10YR41	25/55	10YR56				10	HR	P	CPR	WK											13	7	1	0.5			
1097		B	S7	30		HCL	N	10YR42				5	HR				55	30	III	3b						17		1							
				55		C		10YR53	15/30	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	13.56	2	3.09	2
				120		C		10YR46	25/55	10YR56				15	CH	P	CPR	WK											13	7	1	0.5			
1098		B	S7	25		HZCL	N	10YR41				5	HR				55	25	III	3b						19		1							
				55		C		10YR42	15/25	10YR56				5	HR	P	MSAB	MD										16	8	1	0.5	22.06	2	9.17	2
				120		C		10YR53	25/55	10YR56				5	HR	P	CPR	WK											13	7	1	0.5			
1099		B	S7	28		HCL	N	10YR42				5	HR			</																			

Obs point	Grid ref. if eff intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott. / black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	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	s7	30		HCL	N	10YR42				5	HR																		
				55		C		10YR53	15/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR46	25/55	10YR56	15	CH	P	CPR	WK								16	8	1	0.5	13.56	2	3.09	2	
1102		B	s7	30		HZCL	N	10YR41				5	HR																		
				55		HCL		10YR42	15/30	10YR56	5	HR	P	MSAB	MD								19		1						
				120		C		10YR53	25/55	10YR56	5	HR	P	CPR	WK								16	10	1	0.5	24.44	2	10.59	1	
1103		B	s7	30		HCL	N	10YR42				5	HR																		
				55		C		10YR53	15/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR46	25/55	10YR56	15	CH	P	CPR	WK								16	8	1	0.5	13.56	2	3.09	2	
1104		B	s7	30		HCL	N	10YR32				5	HR																		
				55		C		10YR63	15/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	30/55	10YR56	5	HR	P	CPR	WK								16	8	1	0.5	17.79	2	4.89	2	
1105		B	s7	28		HCL	N	10YR42				5	HR																		
				45		HZCL		10YR53	20/28	10YR56	5	HR	P	MSAB	MD								18		1						
				120		C		10YR41	25/45	10YR56	5	HR	P	CPR	WK								16	8	1	0.5	18.36	2	4.51	2	
1106		B	s7	30		C	N	10YR42				5	HR																		
				45		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		SC		10YR41	20/45	10YR56	5	HR	P	CPR	WK								16	8	1	0.5	15.89	2	2.04	2	
1107		B	s7	30		C	N	10YR42				5	HR																		
				50		HZCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		SC		10YR41	25/50	10YR56	10	HR	P	CPR	WK								16	8	1	0.5	15.04	2	2.27	2	
1108		P	s7	30		C	N	10YR42				5	HR																		
				45		HZCL		10YR53	15/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		SC		10YR41	20/45	10YR56	5	CH	P	CPR	WK								16	8	1	0.5	15.89	2	2.04	2	
1109		B	s7	30		C	N	10YR42				5	HR																		
				55		HZCL		10YR53	20/30	10YR56	10	HR	P	MSAB	MD								17		1						
				120		HZCL		10YR41	25/55	10YR56	5	CH	P	CPR	WK								16	8	1	0.5	9.92	2	1.59	2	
1110		B	s7	30		C	N	10YR42				5	HR																		
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		SC		10YR41	25/55	10YR56	5	HR	P	CPR	WK								16	8	1	0.5	17.79	2	4.89	2	
1111		B	s7	30		C	N	10YR42				5	HR																		
				55		HZCL		10YR53	15/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		SC		10YR41	25/55	10YR56	10	HR	P	CPR	WK								16	8	1	0.5	15.67	2	3.99	2	
1112		B	s7	25		MCL	N	10YR42				2	HR																		
				50		HCL		10YR43	5/25	7.5YR56	7.5YR53	2	HR	P	CP	MD							18		1						
				120		HCL		10YR53	10/50	7.5YR56	5	HR	P	M	WK								16	10	1	0.5	16.67	2	5.87	2	
1113		B	s7	30		HCL	N	10YR42				5	HR																		
				55		C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5	23.96	2	9.17	2	
1114		B	s7	30		C	N	10YR41				5	HR																		
				50		C		10YR42	25/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5	23.96	2	9.17	2	
1115		B	s7	30		C	N	10YR41				5	HR																		
				50		C		10YR42	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5	23.96	2	9.17	2	
1116		B	s7	30		C	N	10YR41				5	HR																		
				50		C		10YR42	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5	23.96	2	9.17	2	
1117		B	s7	30		C	N	10YR41				5	HR																		
				50		C		10YR42	15/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5	23.96	2	9.17	2	
1118		B	s7	30		HCL	N	10YR42				5	HR																		
				55		C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	30/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5	23.96	2	9.17	2	
1119		B	s7	30		C	N	10YR32				5	HR																		
				55		C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD								17		1						
				120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5	23.96	2	9.17	2	
1120		B	s7	30		HCL	N	10YR42				5	HR																		
				50		HCL		10YR64	25/30	10YR56	5	HR	P	MSAB	MD								18		1						
				120		C		10YR41	25/50	10YR56	10	HR	P	CPR	MD								16	10	1	0.5	24.19	2	10.52	1	

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (firmness/consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	StAV	StEAV	MBW	Grain (Dought WHEAT)	MIP	Grain (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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mats./ black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F-film consistence)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	StTAV	StEAV	MRW	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												17		1	
			55	C		10YR64	15/28	10YR56	10	HR	P	MSAB	MD	55	28	III	3b	16	8	1	0.5	19.69	2	4.71	2			
			120	C		10YR41	20/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5							
1172	B	≤7	30	HZCL	N	10YR42						5	HR												19		1	
			55	C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	16	8	1	0.5	30.87	1	14.87	1			
			120	C		10YR41	20/55	10YR56	5	HR	P	CPR	MD					16	8	1	0.5							
1173	B	≤7	30	HZCL	N	10YR32						5	HR												19		1	
			50	C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	16	8	1	0.5	29.66	2	14.87	1			
			120	C		10YR41	20/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5							
1174	B	≤7	30	HCL	N	10YR42						5	HR												18		1	
			50	HCL		10YR64	25/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	16	10	1	0.5	26.81	2	12.02	1			
			120	C		10YR41	25/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5							
1175	B	≤7	30	HCL	N	10YR41						5	HR												17		1	
			55	HZCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	17	10	1	0.5	24.37	2	10.42	1			
			120	C		10YR41	20/55	10YR56	10	HR	P	CPR	MD					16	8	1	0.5							
1176	B	≤7	28	HCL	N	10YR42						5	HR												18		1	
			55	C		10YR64	20/28	10YR56	5	HR	P	MSAB	MD	55	28	III	3b	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							
1177	B	≤7	30	HZCL	N	10YR32						5	HR												19		1	
			50	HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	16	10	1	0.5	29.66	2	14.87	1			
			120	C		10YR41	20/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5							
1178												Point removed												#VALUE!	#VALUE!	#VALUE!	#VALUE!	
1179	B	≤7	30	HCL	N	10YR42						5	HR												18		1	
			50	HCL		10YR64	25/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	16	10	1	0.5	26.81	2	12.02	1			
			120	C		10YR41	25/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5							
1180	B	≤7	30	HCL	N	10YR42						5	HR												18		1	
			50	HCL		10YR64	15/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	16	10	1	0.5	26.81	2	12.02	1			
			120	C		10YR41	25/50	10YR56	5	HR	P	CPR	MD					16	8	1	0.5							

Obs point	Gridref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	STAV	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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									
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									

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE		Text.	Calc	Matrix colour	Mott. / black ferro. conc. % / depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct. (Firmness consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV				MWB	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)				
																						TAV	EAV	StAV	StEAv								
1201		B	57	28			HCL	N	10YR42				10	HR				55	28	III	3b			18		1							
				55			C		10YR64	20/28	10YR56	10	HR	P	MSAB	MD				16	8	1	0.5	22.21	2	7.23	2						
				120			C		10YR41	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1202		B	57	30			HCL	N	10YR32				5	HR				50	30	III	3b			18		1							
				50			HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				16	10	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				
1203		B	57	30			HCL	N	10YR42				5	HR				55	30	III	3b			18		1							
				55			C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5	26.81	2	12.02	1						
				120			C		10YR41	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1204		B	57	30			HZCL	N	10YR32				5	HR				50	30	III	3b			19		1							
				50			HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5	29.66	2	14.87	1						
				120			C		10YR41	20/50	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1205		B	57	28			HCL	N	10YR42				5	HR				55	28	III	3b			17		1							
				55			C		10YR64	15/28	10YR56	2	HR	P	MSAB	MD				16	8	1	0.5	24.87	2	10.19	1						
				120			C		10YR41	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1206		B	57	30			HCL	N	10YR42				5	HR				55	30	III	3b			18		1							
				55			C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5	26.81	2	12.02	1						
				120			C		10YR41	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1207		B	57	30			HCL	N	10YR32				5	HR				50	30	III	3b			18		1							
				50			HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				16	10	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				
1208		P	57	30			HCL	N	10YR32				15	HR				50	30	III	3b			18		1							
				50			HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5	21.71	2	6.92	2						
				120			C		10YR41	20/50	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1209		B	57	30			C	N	10YR32				0					50	35	III	3b			18		1							
				65			C		10YR64	20/30	10YR56	0		P	MSAB	MD				16	10	1	0.5	44.87	1	17.67	1						
				120			HZCL		10YR41	25/65	10YR56	5	HR	P	CPR	MD				17	10	1	0.5			0	0	0	0				
1210		B	57	30			HCL	N	10YR32				5	HR				50	30	III	3b			18		1							
				50			HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				16	10	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				
1211		B	57	28			HCL	N	10YR42				10	HR				55	28	III	3b			17		1							
				55			C		10YR64	15/28	10YR56	10	HR	P	MSAB	MD				16	8	1	0.5	19.69	2	4.71	2						
				120			C		10YR41	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1212		B	57	30			C	N	10YR32				5	HR				55	30	III	3b			17		1							
				55			C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5	25.17	2	9.17	2						
				120			C		10YR42	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1213		B	57	30			C	N	10YR32				5	HR				50	30	III	3b			17		1							
				50			C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5	23.96	2	9.17	2						
				120			C		10YR42	20/50	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1214		B	57	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	26.81	2	12.02	1						
				120			C		10YR41	25/50	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1215		B	57	30			HCL	N	10YR41				5	HR				55	30	III	3b			17		1							
				55			HZCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD				17	10	1	0.5	24.37	2	10.42	1						
				120			C		10YR41	20/55	10YR56	10	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1216		B	57	28			HCL	N	10YR42				5	HR				55	28	III	3b			18		1							
				55			C		10YR53	20/28	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				
1217		B	57	30			HCL	N	10YR41				0					50	30	III	3b			19		1							
				50			C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD				16	10	1	0.5	32.36	1	17.57	1						
				120			C		10YR42	20/50	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1218		B	57	28			HCL	N	10YR41				5	HR				55	28	III	3b			19		1							
				55			C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD				16	8	1	0.5	29.09	2	14.30	1						
				120			C		10YR42	20/55	10YR56	5	HR	P	CPR	MD				16	8	1	0.5			0	0	0	0				
1219		B	57	28			H																										

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott./black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=Firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	StAV	StEAV	MBW	Grade (Drought WHEAT)	MBP	Grade (Drought POTATOES)					
1221		B	57	28		HCL	N	10YR42				10	HR																				
				55		HZCL		10YR64	15/28	10YR56	5	HR	P	MSAB	MD								17		1								
				120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD								17	10	1	0.5	24.57	2	9.30	2			
1222		B	57	30		HCL	N	10YR32				5	HR																				
				55		C		10YR53	15/30	10YR56	5	HR	P	MSAB	MD								17	8	1	0.5	26.81	2	12.02	1			
				120		C		10YR42	25/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1223		B	57	30		C	N	10YR32				5	HR																				
				50		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								16	8	1	0.5	23.96	2	9.17	2			
				120		C		10YR42	20/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1224		B	57	30		HCL	N	10YR42				5	HR																				
				50		HCL		10YR64	25/30	10YR56	5	HR	P	MSAB	MD								16	10	1	0.5	26.81	2	12.02	1			
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1225		B	57	30		HCL	N	10YR41				5	HR																				
				55		HZCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								17	10	1	0.5	24.37	2	10.42	1			
				120		C		10YR41	20/55	10YR56	10	HR	P	CPR	MD								16	8	1	0.5							
1226		B	57	28		HCL	N	10YR42				5	HR																				
				55		C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD								18		1		26.43	2	11.64	1			
				120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1227		B	57	30		HCL	N	10YR41				0																					
				50		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								16	10	1	0.5	32.36	1	17.57	1			
				120		C		10YR42	20/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1228		P	57	30		C	N	10YR32				5	HR																				
				65		HZCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD								17	10	1	0.5	42.01	1	15.82	1			
				120		HZCL		10YR41	25/65	10YR56	5	HR	P	CPR	MD								17	10	1	0.5							
1229		B	57	30		C	N	10YR32				5	HR																				
				65		C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD								18		1		40.11	1	12.49	1			
				120		HZCL		10YR41	25/65	10YR56	5	HR	P	CPR	MD								17	10	1	0.5							
1230		B	57	30		HCL	N	10YR32				10	HR																				
				50		C		10YR42	15/30	10YR56	10	HR	P	MSAB	MD								18		1		22.76	2	7.97	2			
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1231		B	57	30		HCL	N	10YR32				5	HR																				
				50		C		10YR41	15/30	10YR56	5	HR	P	MSAB	MD								16	8	1	0.5	26.81	2	12.02	1			
				120		C		10YR41	30/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1232		B	57	30		HCL	N	10YR42				5	HR																				
				50		HCL		10YR64	25/30	10YR56	5	HR	P	MSAB	MD								18		1		26.81	2	12.02	1			
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1233		B	57	30		HCL	N	10YR41				5	HR																				
				55		HZCL		10YR53	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							
1234		P	57	28		HCL	N	10YR42				5	HR																				
				55		C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD								18		1		26.43	2	11.64	1			
				120		C		10YR41	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1235		B	57	30		HCL	N	10YR41				0																					
				50		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								19		1		32.36	1	17.57	1			
				120		C		10YR42	20/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1236		B	57	28		HCL	N	10YR41				5	HR																				
				55		C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD								17		1		29.09	2	14.30	1			
				120		C		10YR42	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1237		B	57	28		HCL	N	10YR32				5	HR																				
				50		HCL		10YR53	15/28	10YR56	5	HR	P	MSAB	MD								18		1		26.43	2	11.64	1			
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1238		B	57	30		HCL	N	10YR41				0																					
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD								19		1		33.31	1	17.57	1			
				120		C		10YR42	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1239		B	57	28		HCL	N	10YR41				5	HR																				
				55		C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD								19		1		29.09	2	14.30	1			
				120		C		10YR42	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5							
1240		B	57	28		HCL	N	10YR32				5	HR																				
				50		HCL		10YR53	20/28	10YR56	5	HR	P	MSAB	MD								18		1		26.43	2	11.64	1			
				120		C		10YR41	25/50	10YR56	5	HR	P	CPR	MD																		

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott/ black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SVC	Grade (wetness)	TAV	EAV	StTAV	StEAV	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)																		
1241		B	57	25	HCL	N	10YR42					0					55	25	III	3b			18	1																						
				55	C		10YR53	15/25	10YR56	5	HR	P	MSAB	MD						16	8	1	0.5			27.99	2	13.19	1																	
				120	C		10YR41	25/55	10YR56	5	CH	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1242		B	57	25	HCL	N	10YR42					5	HR				55	25	III	3b			18	1																						
				55	HCL		10YR53	15/25	10YR56	5	HR	P	MSAB	MD						16	10	1	0.5			26.81	2	11.07	1																	
				120	C		10YR41	25/55	10YR56	5	CH	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1243		B	57	25	HCL	N	10YR41					0					55	25	III	3b			18	1																						
				55	C		10YR53	15/25	10YR56	0		P	MSAB	MD						16	8	1	0.5			30.05	1	15.44	1																	
				120	C		10YR41	25/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1244		B	57	25	HCL	N	10YR32					0	HR				55	25	III	3b			18	1																						
				55	C		10YR53	15/25	10YR56	5	HR	P	MSAB	MD						16	8	1	0.5			27.99	2	13.19	1																	
				120	C		10YR41	25/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1245		B	57	25	C	N	10YR42					0					55	25	III	3b			17	1																						
				55	HZCL		10YR53	15/25	10YR56	5	HR	P	MSAB	MD						17	10	1	0.5			28.81	2	13.54	1																	
				120	C		10YR41	25/55	10YR56	5	CH	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1246		B	57	25	HCL	N	10YR42					5	HR				55	25	III	3b			18	1																						
				55	HCL		10YR53	15/25	10YR56	5	HR	P	MSAB	MD						16	10	1	0.5			26.81	2	11.07	1																	
				120	C		10YR41	25/55	10YR56	5	CH	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1247		B	57	25	HCL	N	10YR41					0					55	25	III	3b			18	1																						
				55	C		10YR53	15/25	10YR56	0		P	MSAB	MD						16	8	1	0.5			30.05	1	15.44	1																	
				120	C		10YR41	25/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1248		P	57	25	HCL	N	10YR32					0	HR				55	25	III	3b			18	1																						
				55	C		10YR53	15/25	10YR56	5	HR	P	MSAB	MD						16	8	1	0.5			27.99	2	13.19	1																	
				120	C		10YR41	25/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1249		B	57	28	HCL	N	10YR32					5	HR				50	28	III	3b			18	1																						
				50	HCL		10YR53	20/28	10YR56	5	HR	P	MSAB	MD						16	10	1	0.5			26.43	2	11.64	1																	
				120	C		10YR42	25/50	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1250		B	57	30	HCL	N	10YR42					5	HR				55	30	III	3b			17	1																						
				55	C		10YR64	20/30	10YR56	2	HR	P	MSAB	MD						16	8	1	0.5			24.97	2	10.29	1																	
				120	C		10YR41	20/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1251		B	57	30	HCL	N	10YR42					5	HR				55	30	III	3b			18	1																						
				55	C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD						16	8	1	0.5			26.81	2	12.02	1																	
				120	C		10YR41	20/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1252		B	57	30	HCL	N	10YR32					5	HR				50	30	III	3b			18	1																						
				50	HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD						16	10	1	0.5			30.62	1	12.02	1																	
				120	C		10YR41	30/50	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1253		B	57	30	HCL	N	10YR32					10	HR				50	30	III	3b			18	1																						
				50	HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD						16	10	1	0.5			24.26	2	9.47	2																	
				120	C		10YR41	20/50	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1254		B	57	25	HCL	N	10YR31					0	HR				55	25	III	3b			18	1																						
				55	C		10YR53	20/25	10YR56	5	HR	P	MSAB	MD						16	8	1	0.5			27.99	2	13.19	1																	
				120	C		10YR41	25/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1255		B	57	25	HCL	N	10YR42					0	HR				55	25	III	3b			18	1																						
				55	C		10YR53	20/25	10YR56	5	HR	P	MSAB	MD						16	8	1	0.5			27.99	2	13.19	1																	
				120	C		10YR41	25/55	10YR56	5	HR	P	CPR	MD						16	8	1	0.5			0	0	0	0																	
1256		B	57	25																																										

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mots./black ferro. conc. %/ depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (if firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (wetness)	TAV	EAV	STAV	STEAV	MBW	Grade (Bought: WHEAT)	MBP	Grade (Bought: POTATOES)	
1281		B	57	30		HCL	N	10YR41				5	HR									18		1		24.19	2	10.52	1
				50		HCL		10YR64	15/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	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																								#VALUE!	#VALUE!	#VALUE!	#VALUE!		
1283		B	57	30		C	N	10YR32				5	HR									17		1		23.96	2	9.17	2
				50		C		10YR53	15/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	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	57	30		HCL	N	10YR42				5	HR									18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	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	57	30		HCL	N	10YR41				5	HR									17		1		21.52	2	8.04	2
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	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	57	28		HCL	N	10YR42				5	HR									18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD	55	28	III	3b	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	57	30		HCL	N	10YR41				0										19		1		33.31	1	17.57	1
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	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	57	28		HCL	N	10YR42				5	HR									18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD	55	28	III	3b	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	57	30		HCL	N	10YR41				0										19		1		32.36	1	17.57	1
				50		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	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																									#VALUE!	#VALUE!	#VALUE!	#VALUE!	
1291		B	57	30		HCL	N	10YR32				5	HR									18		1		26.81	2	12.02	1
				50		C		10YR41	15/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	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	57	30		HCL	N	10YR42				5	HR									18		1		26.81	2	12.02	1
				50		HCL		10YR64	25/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	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	57	30		HCL	N	10YR41				5	HR									17		1		26.81	2	11.54	1
				55		HZCL		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	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						
1294		B	57	28		HCL	N	10YR42				5	HR									18		1		26.43	2	11.64	1
				55		C		10YR53	20/28	10YR56	5	HR	P	MSAB	MD	55	28	III	3b	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	57	30		HCL	N	10YR41				0										19		1		33.31	1	17.57	1
				55		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	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	57	30		HCL	N	10YR42				5	HR									18		1		40.11	1	10.59	1
				55		HCL		10YR41	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	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	57	30		HCL	N	10YR41				0										19		1		32.36	1	17.57	1
				50		C		10YR53	20/30	10YR56	5	HR	P	MSAB	MD	50	30	III	3b	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	57	35		MCL	N	10YR43				10	HR									18		1		18.91	2	8.87	2
				50		HCL		10YR53			10	HR	G	FAB	MD	50	30	III	3a	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	57	30		HCL	N	10YR42				10	HR									18		1		37.56	1	8.04	2
				55		HCL		10YR41	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	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	57	30		HCL	N	10YR42				5	HR									18		1		40.11	1	10.59	1
				55		HCL		10YR41	20/30	10YR56	5	HR	P	MSAB	MD	55	30	III	3b	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	Moist/ black ferro. conc. % depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (F=firm consistency)	Degree of development	SPL depth (cm)	Gleying depth (cm)	SWC	Grade (winess)	TAV	EAV	SATav	SEAV	MEW	Grade (Draught: WHEAT)	MBP	Grade (Draught: POTatoes)		
1301		B	≤7	30		HCL	N	10YR41				5	HR																	
	55				HCL		10YR41	20/30	10YR56	5	HR	P	MSAB	MD				55	30	III	3b	18	10	1	0.5	45.56	1	16.90	1	
	120				SCL		10YR53	25/55	10YR56	5	HR	P	CPR	MD								15	10	1	0.5					
1302		B	≤7	30		HCL	N	10YR42				5	HR																	
	55				HCL		10YR41	25/30	10YR56	5	HR	P	MSAB	MD				55	30	III	3b	18	10	1	0.5	42.48	1	15.85	1	
	120				SCL		10YR53	25/55	10YR56	10	HR	P	CPR	MD								15	10	1	0.5					
1303		B	≤7	30		HCL	N	10YR42				5	HR																	
	50				HCL		10YR41	20/30	10YR56	5	HR	P	MSAB	MD				50	30	III	3b	16	10	1	0.5	45.56	1	16.42	1	
	120				SCL		10YR53	25/50	10YR56	5	HR	P	CPR	MD								15	10	1	0.5					
1304		B	≤7	30		HCL	N	10YR42				5	HR																	
	55				HCL		10YR41	15/30	10YR56	5	HR	P	MSAB	MD				55	30	III	3b	18	10	1	0.5	45.56	1	16.90	1	
	120				SCL		10YR53	25/55	10YR56	5	HR	P	CPR	MD								15	10	1	0.5					
1305		B	≤7	30		HCL	Y	2.5YR52				5	HR																	
	50				HCL		10YR53	15/30	10YR56	10	HR	P	MSAB	MD				50	30	III	3b	16	10	1	0.5	30.76	1	16.82	1	
	120				C		10YR41	25/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5					
1306		B	≤7	30		HCL	N	10YR42				5	HR																	
	50				HCL		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				50	30	III	3b	16	10	1	0.5	29.64	2	16.82	1	
	120				C		10YR41	25/50	10YR56	10	HR	P	CPR	MD								16	8	1	0.5					
1307		B	≤7	28		HCL	N	10YR42				5	HR																	
	55				C		10YR64	15/28	10YR56	5	HR	P	MSAB	MD				55	28	III	3b	17	8	1	0.5	29.22	2	15.28	1	
	120				C		10YR41	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5					
1308		P	≤7	30		HCL	N	10YR32				5	HR																	
	50				C		10YR64	20/30	10YR56	5	HR	P	MSAB	MD				50	30	III	3b	16	8	1	0.5	29.41	2	15.47	1	
	120				C		10YR41	20/50	10YR56	5	HR	P	CPR	MD								16	8	1	0.5					
1309		B	≤7	28		HCL	N	10YR41				5	HR																	
	55				C		10YR64	15/28	10YR56	5	HR	P	MSAB	MD				55	28	III	3b	17	8	1	0.5	29.22	2	15.28	1	
	120				C		10YR41	20/55	10YR56	5	HR	P	CPR	MD								16	8	1	0.5					
1310		B	≤7	30		HCL	N	10YR32				5	HR																	
	50				C		10YR64	20/30	10YR56	10	HR	P	MSAB	MD				50	30	III	3b	16	8	1	0.5	25.29	2	12.47	1	
	120				C		10YR41	20/50	10YR56	10	HR	P	CPR	MD								16	8	1	0.5					
1311		B	8.1	30		MCL	N	10YR43				5	HR																	
	50				C		10YR53	10/30	10YR56	5	HR	P	MSAB	MD				75	30	II	2	16	8	1	0.5	-2.05	3a	18.32	1	
	75				C		5RY61	30/50	10YR56	5	HR	P	MPR	MD								16	8	1	0.5					
1312		B	≤7	30		LMS	N	10YR32				5	HR																	
	70				MS		7.5YR53	LAB PSD SAMPLE		5	HR	P	FSAB	WK				I	1		7	5	1	0.5	18.89	2	-30.13	3b		
	120				LFS		7.5YR44			10	HR	P	SG									14	12	1	0.5					
1313		B	≤7	30		LFS	N	10YR42				5	HR																	
	60				LFS		10YR54			5	HR	P	CAB	WK				60	I	1	15	13	1	0.5	23.71	2	8.82	2		
	120				LMS		10YR53	10/60	7.5YR56	5	HR	P	M/F									9	6	1	0.5					
1314		P	≤7	30		LFS	N	10YR42				1	HR																	
	50				LFS		7.5YR44			9		P	MAB	WK				75	50	II	1	15	13	1	0.5	7.60	2	14.32	1	
	75				LFS		10YR53	10/50	7.5YR56	9		P	SG									15	13	1	0.5					
1315		B	7.5	30		FSL	N	10YR46				0																		
	65				FSL		10YR53	LAB PSD SAMPLE		5	HR	P	MAB	WK				I	1		17	11	1	0.5	70.55	1	24.07	1		
	120				LFS		10YR53			5		P	SG									15	13	1	0.5					
1316		B	≤7	30		MZCL	N	10YR42				0																		
	55				MZCL		10YR56	5/30	7.5YR56	0		P	FAB	MD				55	30	III	3a	17	10	1	0.5	28.94	2	27.87	1	
	95				ZL		2.5Y71	10/55	10YR56	0		P	M	F								15	9	1	0.5					
1317		B	≤7	25		LMS	N	10YR41				0																		
	50				MS		10YR53	5/25	7.5YR56	0		SG									I	1	7	5	1	0.5	-18.06	3a	-30.13	3b
	120				MS		10YR63	5/50	10YR56	0		SG											7	5	1	0.5				
1318		B	≤7	30		MSL	N	10YR42				0																		
	120				LMS		10YR44			0		P	SG								I	1	9	6	1	0.5	7.94	2	-7.13	2
	120									0													0	0	1	0.5				
1319		B	≤7	30		MSL	N	10YR43				0																		
	120				LMS		10YR53			0		P	MAB	WK				I	1		9	6	1	0.5	7.94	2	-7.13	2		
	120									0													0	0	1	0.5				
1320		B	7.5	20		MCL	N	10YR53				0																		
	40				ZL		10YR54	10/20	10YR56	0		P	MSAB	MD				40	40	III	3a	22	14	1	0.5	3.94	3a	24.87	1	
	70				C		5RY51	30/40	10YR56	0		P	CPR	WK								13	7	1	0.5					
				120		ZC		10YR64	10/70	10YR56	0		P	M							12	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	Mots./black ferro. conc. %/depth	Mott colour or FC if ferro. conc.	Ped face colour	Stns %	Stns type	Porosity	Struct (Ft-firm consistency)	Degree of development	SPL depth (cm)	Glewing depth (cm)	SWC	Grade (wetness)	TAV	EAV	StTAV	StEAV	MBW	Grade (Drought: WHEAT)	MBP	Grade (Drought: POTATOES)				
1321		B	≤7	35	LMS	N	10YR41					0										13		1		-22.20	3b	-26.43	3a			
				65	MS		7.5YR53	10/35	7.5YR56	5	HR	P	SG											7	5					1	0.5	
				120	CS		7.5YR44			20	HR	P	SG											5	4					1	0.5	
				120						0														0	0					1	0.5	
1322		B	≤7	35	SCL	N	10YR42					0										17		1		11.94	2	-3.13	2			
				75	LMS		10YR53	10/35	7.5YR56	0		P	MAB	WK										9	6					1	0.5	
				120	LMS		10YR46	10/75	7.5YR56	0		P	SG											9	6					1	0.5	
				120						0														0	0					1	0.5	
1323		B	≤7	40	FSL	N	10YR42					5	HR									18		1		29.41	2	5.97	2			
				120	MSL		10YR46		LAB PSD SAMPLE	5	HR	P	MAB	WK										11	8					1	0.5	
				120						0		P												0	0					1	0.5	
				120						0		P	CPR	WK										0	0					1	0.5	
1324		B	7.5	30	FSL	N	10YR42					5	HR									18		1		22.76	2	-0.68	2			
				120	MSL		10YR46			5	HR	P	MAB	WK										11	8					1	0.5	
				120						0		P												0	0					1	0.5	
				120						0		P	CPR	WK										0	0					1	0.5	
1325		B	≤7	30	MCL	N	10YR42					0										18		1		2.94	3a	23.87	1			
				55	C		10YR53	10/30	10YR56	0		P	MSAB	MD	55	30	III	3a					16	8	1					0.5		
				75	C		2.5Y63	20/55	10YR56	0		P	CPR	MD										16	8					1	0.5	
				120	C		2.5Y51	10/75	10YR56	0		P	M											13	7					1	0.5	
1326		B	7.5	40	MSL	N	10YR42	5/30	10YR56			5	HR									17		1		19.24	2	1.67	2			
				60	MSL		10YR42	5/40	10YR56	20	HR	P	M	FM	40	40	III	2					11	8	1					0.5		
				120	C		2.5Y61	30/60	10YR56	0		P	M											13	7					1	0.5	
				120						0														0	0					1	0.5	
1327		P	≤7	40	LMS	N	10YR41					0										13		1		-0.92	3a	-22.03	3a			
				75	MS		10YR53	5/40	10YR56	5	HR	P	SG											7	5					1	0.5	
				120	SC		2.5Y62	50/75	10YR56	0		P	M											12	7					1	0.5	
				120						0		P												0	0					1	0.5	
1328		P	8.1	30	LMS	N	10YR41					0										13		1		-7.22	3a	-28.33	3a			
				75	MS		10YR53	10/30	10YR56	5	HR	P	SG											7	5					1	0.5	
				120	SC		2.5Y62	50/75	10YR56	0		P	M											12	7					1	0.5	
				120						0		P												0	0					1	0.5	
1329		B	7.5	30	MCL	N	10YR43					2	HR									18		1		4.42	3a	21.35	1			
				50	MCL		10YR56	5/30	10YR46	5	HR	P	MSAB	MD	50	30	III	3a					16	8	1					0.5		
				80	MCL		10YR53	30.50	10YR46	0		P	CPR	MD										16	8					1	0.5	
				120	MZCL		5Y82	20/80	10YR56	0		P	M											13	7					1	0.5	
1329A		B	≤7	30	MSL	N	10YR32					1	HR									17		1		-1.03	3a	15.83	1			
				50	MSL		10YR51			1	HR	P	M											15	11					1	0.5	
				70	MSL		10YR51			1	HR	P	CAB	MD	70	50	II	1						15	11					1	0.5	
				120	C		10YR56			1		P	M											13	7					1	0.5	
1330		B	≤7	25	MSL	N	10YR43					5	HR									17		1		27.61	2	7.97	2			
				50	SCL		10YR44			2	HR	P	MSAB	MD	50	50	II	1						15	10					1	0.5	
				120	SCL		10YR53	15/50	7.5YR56	5	HR	P	CAB	WK										13	8					1	0.5	
				120						0														0	0					1	0.5	
1331		B	≤7	25	MSL	N	10YR42	5/20	7.5YR56			0										17		1		-21.06	3b	-0.13	2			
				50	MS		10YR63	10/25	7.5YR56	0		P	SG											7	5					1	0.5	
				70	FSL		10YR53			0		P	MAB	WK										17	11					1	0.5	
				120	SC		10YR53	20/70	10YR56	0		P	M											13	8					1	0.5	
1332		P	7.5	30	LMS	N	10YR42					0										13		1		-22.56	3b	-19.13	3a			
				80	LMS		10YR44	10/30	7.5YR56	0			SG											9	6					1	0.5	
				120	LMS		10YR54			0			SG												9					6	1	0.5
				120						0														0	0					1	0.5	
1333		B	≤7	30	MCL	N	10YR53					0										18		1		34.94	1	23.87	1			
				75	MCL		10YR53	5/30	10YR56	0		P	CAB<50	MD	50	30	III	3a						16	10					1	0.5	
				120	MZCL		2.5Y64	5/75	10YR56	0		P	M											12	6					1	0.5	
				120						0														0	0					1	0.5	
1334		B	≤7	40	MSL	N	10YR42					0										17		1		31.94	1	6.87	2			
				75	MSL		10YR53	5/40	7.5YR56	0		P	M	FM	40	40	III	2						11	8					1	0.5	
				120	MSL		7.5YR54	25/75	7.5YR56	0		P	M	FM										11	8					1	0.5	
				120						0		P												0	0					1	0.5	
1335		B	≤7	30	MCL	N	10YR53					0										18		1		34.94	1	23.87	1			
				75	MCL		10YR53	5/30	10YR56	0		P	CAB<50	MD	50	30	III	3a						16	10					1	0.5	
				120	MZCL		2.5Y64	5/75	10YR56	0		P	M											12	6					1	0.5	
				120						0														0	0					1	0.5	
1336		B	≤7	30	MCL	Y	10YR42					0										18		1		-12.06	3a	-0.13	2			
				55	MCL		10YR53			0		P	CAB	MD										16	10					1	0.5	
				120	SLST					0														0	0					1	0.5	
				120						0														0	0					1	0.5	
1337		B	≤7	25	C	Y	10YR42					10	SLST									17		1		-64.56	4	-55.63	4			
				120	SLST					0														0	0					1	0.5	
				120						0														0	0					0	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	Mott. / 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)	Nutrients				MBW	Grade (Drought. WHEAT)	MBP	Grade (Drought. POTATOES)	
																					TAV	EAV	StTAV	StEAV					
1338	B	≤7	30	HCL	N	10YR32						10	HR				45	30	III	3b	18		1		21.82	2	6.72	2	
			45	C		10YR42	15/30	10YR56					10	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			
1339	B	≤7	30	HCL	N	10YR32						10	HR				50	30	III	3b	18		1		21.44	2	6.34	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				
1340	B	≤7	30	HCL	N	10YR41						10	HR				50	30	III	3b	18		1		21.44	2	6.34	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				
1341	B	≤7	30	HCL	N	10YR32						5	HR				55	30	III	3b	18		1		25.49	2	10.39	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				
1342	B	≤7	30	C	N	10YR32						5	HR				50	30	III	3b	17		1		22.64	2	7.54	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				
1343	B	≤7	30	HCL	N	10YR42						5	HR				50	30	III	3b	18		1		25.49	2	10.39	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				
1344	B	≤7	30	HCL	N	10YR32						5	HR				50	30	III	3b	18		1		25.49	2	10.39	1	
			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				
1345	B	≤7	28	C	N	10YR41						5	HR				50	28	III	3b	17		1		19.83	2	5.85	2	
			50	C		10YR53	20/28	10YR56					5	HR	P	MSAB	MD					16	8	1	0.5				
			120	C		10YR42	20/50	10YR56					10	HR	P	CPR	MD					16	8	1	0.5				
																						0	0	0	0				
1346	B	≤7	30	HCL	N	10YR42						5	HR				50	30	III	3b	18		1		25.49	2	10.39	1	
			50	HCL		10YR64	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				
1347	B	≤7	30	HCL	N	10YR32						5	HR				50	30	III	3b	18		1		25.49	2	10.39	1	
			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				
1348	P	≤7	30	HCL	N	10YR32						10	HR				50	30	III	3b	18		1		21.44	2	6.34	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				
1349	B	≤7	30	HCL	N	10YR32						10	HR				50	30	III	3b	18		1		21.44	2	7.84	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				
1350	B	≤7	25	HCL	N	10YR42						5	HR				55	25	III	3b	18		1		27.93	2	10.57	1	
			55	HCL		10YR42	15/30	10YR56					5	HR	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				
1351	B	≤7	25	HCL	N	10YR42						5	HR				55	25	III	3b	18		1		23.06	2	8.32	2	
			55	HCL		10YR42	15/30	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				
1352	B	≤7	25	C	N	10YR32						5	HR				55	25	III	3b	18		1		22.11	2	8.32	2	
			55	C		10YR42	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				

Obs point	Grid ref. if off intersection	Boring or Pit	Grad. (deg)	Base Depth (cm)	OFFICE USE	Text.	Calc	Matrix colour	Mott./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	STAv	StEAv	MBW	Grade/ Drought. WHEAT	MBP	Grade/ Drought. POTATOES							
1353		B	≤7	22			C N	10YR41				0																							
				65		C		10YR52	10/22	10YR56				5	HR	P	MSAB	MD	65	22	III	3b					17		1						
				90		C		10YR53	20/65	10YR56				5	HR	P	CPR	MD										16	8	1	0.5	0.77	3a	8.54	2
				120		C		10YR42	30/90	10YR56				0			P	CPR	WK										16	8	1	0.5			
1354		B	≤7	25			C N	10YR43				0																							
				60		C		10YR52	15/25	10YR56				0		P	MSAB	MD	60	25	III	3b					17		1						
				85		C		10YR53	20/60	10YR56				5	HR	P	CPR	MD										16	8	1	0.5	-0.27	3a	11.69	1
				120		C		10YR42	30/85	10YR56				5	HR	P	CPR	WK											16	8	1	0.5			
1355		B	≤7	22			C N	10YR41				5	HR																						
				65		C		10YR52	10/22	10YR56				5	HR	P	MSAB	MD	65	22	III	3b					17		1						
				120		C		10YR53	20/65	10YR56				5	HR	P	CPR	WK										16	8	1	0.5	21.88	2	6.78	2
				120																								0	0	0	0				
1356		B	≤7	25			C N	10YR41				5	HR																						
				55		C		10YR52	10/25	10YR56				5	HR	P	MSAB	MD	55	25	III	3b					17		1						
				90		C		10YR53	20/55	10YR56				5	HR	P	CPR	MD										16	8	1	0.5	-0.71	3a	7.07	2
				120		C		10YR42	25/90	10YR56				5	HR	P	CPR	WK											16	8	1	0.5			
1357		B	≤7	25			C N	10YR41				5	HR																						
				50		C		10YR52	10/25	10YR56				5	HR	P	MSAB	MD	50	25	III	3b					17		1						
				90		C		10YR53	15/50	10YR56				5	HR	P	CPR	MD										16	8	1	0.5	-0.71	3a	7.07	2
				120		C		10YR42	25/90	10YR56				5	HR	P	CPR	WK											16	8	1	0.5			

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.

GLEYS, 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.

GLEYS: 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

<u>Degree of development</u>	WA: Weakly developed Adherent	WK: Weakly developed
	MD: Moderately developed	ST: Strongly developed
<u>Ped size</u>	F: Fine	M: Medium
	C: Coarse	VC: Very coarse
<u>Ped Shape</u>	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
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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.