



EAST PARK ENERGY

East Park Energy

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Environmental Statement

Volume 2 – Technical Appendices

Appendix 13-1 Agricultural Land Classification and
Soil Resources

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Appendix 13-1 Agricultural Land Classification and Soil Resources

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September 2025

East Park Energy Project

Agricultural Land Classification and Soil Resources

Beechwood Court,
Long Toll, Woodcote,
RG8 0RR

01491 684 233
www.reading-ag.com

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1. Introduction

- 1.1. Reading Agricultural Consultants Ltd (RAC) is instructed by Axis PED Ltd to investigate the Agricultural Land Classification (ALC) and soil resources of land at East Park Energy Project by means of a detailed survey of site and soil characteristics.
- 1.2. Guidance for assessing the quality of agricultural land in England and Wales is set out in the Ministry of Agriculture, Fisheries and Food (MAFF) revised guidelines and criteria for grading the quality of agricultural land¹, and summarised in Natural England's Technical Information Note (TIN) 049².
- 1.3. Agricultural land in England and Wales is graded between 1 and 5, depending on the extent to which physical or chemical characteristics impose long-term limitations on agricultural use. The principal physical factors influencing grading are climate, site conditions and soil which, together with interactions between them, form the basis for classifying land into one of the five grades.
- 1.4. Grade 1 land is excellent quality agricultural land with very minor or no limitations to agricultural use. Grade 2 is very good quality agricultural land, with minor limitations which affect crop yield, cultivations or harvesting. Grade 3 land has moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield, and is subdivided into Subgrade 3a (good quality land) and Subgrade 3b (moderate quality land). Grade 4 land is poor quality agricultural land with severe limitations which significantly restrict the range of crops and/or level of yields. Grade 5 is very poor quality land, with severe limitations which restrict use to permanent pasture or rough grazing.
- 1.5. Land which is classified as Grades 1, 2 and 3a in the ALC system is defined as best and most versatile (BMV) agricultural land.
- 1.6. As explained in Natural England's TIN049, the whole of England and Wales was mapped from reconnaissance field surveys in the late 1960s and early 1970s, to provide general strategic

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

² **Natural England (2012).** *Technical Information Note 049 - Agricultural Land Classification: protecting the best and most versatile agricultural land*, Second Edition.

guidance on agricultural land quality for planners. This Provisional Series of maps was published on an Ordnance Survey base at a scale of One Inch to One Mile (1:63,360). The Provisional ALC map shows the site as Grade 2 and undifferentiated Grade 3. However, TIN049 explains that:

"These maps are not sufficiently accurate for use in assessment of individual fields or development sites, and should not be used other than as general guidance. They show only five grades: their preparation preceded the subdivision of Grade 3 and the refinement of criteria, which occurred after 1976. They have not been updated and are out of print. A 1:250 000 scale map series based on the same information is available. These are more appropriate for the strategic use originally intended ..."

- 1.7. TIN049 goes on to explain that a definitive ALC grading should be obtained by undertaking a detailed survey according to the published guidelines. Given the large area of agricultural land in the survey area, the survey was originally carried out at a density of one soil profile observation per 4 hectares (ha), with the results reported in July 2023. Approximately 74% or 534 ha of the area initially surveyed was classified as BMV agricultural land in Grades 2 and 3a. Following discussions of the survey findings and approach with Natural England, the density of sampling has been increased to one per 2 ha in this survey report.

2. Site and climatic conditions

General features, land form and drainage

- 2.1. The survey area extends to 738.8 ha in total, formed of four main panel areas and a cable route.
- 2.2. Area A is located to the west of Green End. Topography in this area is typically very gently to gently sloping. Land to the north slopes towards Pertenhall Brook. Land in the south of the area is gently to moderately sloping from a central ridge. Altitudes range from approximately 35 m to 75 m above Ordnance Datum (AOD), and the land drains to peripheral field drains and to Pertenhall Brook in the north.
- 2.3. Area B is located between Green End to its north-west, Brook End to the south-west and Little Staughton to the south-east. Topography in this area is typically level to gently sloping and undulating. Altitudes range from approximately 31 m to 70 m AOD and the land drains by peripheral field drains and via an unnamed stream in the north-west.

- 2.4. Area C is located to the south-east of Great Staughton. Topography in this area slopes from the south-west towards the centre where it levels out. Altitudes range from approximately 24 m to 51 m AOD and the land drains by peripheral field drains which discharge to the River Kym, along the northern boundary.
- 2.5. Area D is located to the east of Area C, south of the B645. Topography in the area slopes from a hill ridge orientated east-west down to the north and south. Altitudes range from approximately 26 m to 44 m AOD. Land across the south of the area drains to the South Brook, located along the southern boundary.

Agro-climatic conditions

- 2.6. Agro-climatic data for the site have been interpolated from the Meteorological Office's standard 5 km grid point dataset at representative altitudes. The data are given in Table 1. The site has a moderate climate and moderately large to large moisture deficits. The number of Field Capacity Days (FCD) is smaller than is average for lowland England (150) and is very favourable for providing opportunities for agricultural field work.

Table 1: Local agro-climatic conditions

Parameter										
Representative grid reference	TL 067 647	TL076 653	TL078 641	TL090 639	TL100 638	TL128 637	TL096 629	TL082 628	TL145 629	TL 157 614
Elevation (m)	67	40	44	40	37	31	62	48	37	32
Average Annual Rainfall (mm)	616	617	611	614	614	596	617	605	596	583
Accumulated Temperatures >0°C (day°)	1,399	1,428	1,425	1,429	1,431	1,438	1,404	1,420	1,431	1,438
Field Capacity Days	119	122	119	120	120	115	118	119	114	121
Average Moisture Deficit, wheat (mm)	113	116	116	116	117	119	114	116	119	117
Average Moisture Deficit, potatoes (mm)	106	110	110	111	111	114	107	110	114	107

Soil parent material and soil type

- 2.7. The bedrock geology mapped by the British Geological Survey³ across the site is the Oxford Clay Formation, which comprises grey, smooth to slightly silty mudstone, with sporadic beds of limestone nodules.

³ **British Geological Survey (2025).** *Geology of Britain viewer*, <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>

2.8. Superficial deposits mapped across the site include:

- river terrace deposits across the north of Areas A, B and C, comprising sand and gravel;
- alluvium deposits along Pertenhall Brook in Area A and an unnamed tributary in the north-west of Area B. Deposits comprise clay, silt, sand and gravel;
- Diamicton deposits of the Oadby Member across higher elevations, predominantly in the south, within each area; and
- Glaciofluvial deposits across relatively small areas of Areas A and B, on the periphery of the Diamicton units. Deposits comprise sand and gravel.

2.9. The Soil Survey of England and Wales soil association mapping⁴ (1:250,000 scale) shows the Hanslope, Evesham 3, Denchworth and Efford 1 associations within the site.

2.10. Soils of the Hanslope association are predominantly characterised by slowly permeable, calcareous, clayey soils with some slowly permeable, non-calcareous, clayey soils. Profiles are typically assessed as Wetness Class (WC) III⁵. Soils respond well to drainage and can be improved to WC II in drier districts (less than 125 FCDs), such as at the site.

2.11. The Evesham 3 association is predominantly characterised by slowly permeable, calcareous, clayey and fine loamy over clayey soils. Profiles are typically assessed as WC III. Some component soil types are assessed as WC II or, to a lesser extent, WC I.

2.12. The Denchworth association is predominantly characterised by slowly permeable, seasonally waterlogged, clayey soils with similar fine loamy over clayey soils. Profiles are typically assessed as WC IV or V. Soils can be improved to WC III in areas of lower rainfall.

2.13. Efford 1 association is predominantly characterised by well drained, fine loamy soils often over gravel, associated with similar permeable soils variably affected by groundwater. Profiles are typically assessed as WC I.

⁴ **Soil Survey of England and Wales (1984).** *Soils of Eastern England* (1:250,000), Sheet 4.

⁵ **Hodge et al (1984).** *Soils and Their Use in Eastern England*. Soil Survey of England and Wales Bulletin 13, Harpenden.

3. Agricultural land quality

Soil survey methods

- 3.1. In total, 314 soil profiles have been examined within the current site boundaries using an Edelman (Dutch) auger. The survey has been undertaken in two phases, with the first phase carried out at a density of one observation per every 4 ha across all panel areas. The second phase increased the density to 1 observation per 2 ha within most panel areas and to one per ha in areas proposed for permanent facilities, construction compounds and cable routes. Eleven observation pits have also been excavated to examine subsoil structures.
- 3.2. The locations of observations are shown on Figure RAC/9611/1. Observations are numbered 1 to 323, although observations 8-11, 19, 44-46, and 179-280 have been removed from the project scope and are not included within this report.
- 3.3. At each observation point, the following characteristics were assessed for each soil horizon up to a maximum of 120 cm or any impenetrable layer:
 - soil texture;
 - stone content;
 - colour (including localised mottling);
 - consistency;
 - structural condition;
 - free carbonate; and
 - depth.
- 3.4. Twenty topsoil samples have been submitted for laboratory determination of particle size distribution, pH, organic matter content and nutrient contents (P, K, Mg). Results are presented in Appendix 1.
- 3.5. Soil WC was determined from the matrix colour, presence or absence of, and depth to, greyish and ochreous gley mottling, and slowly permeable subsoil layers at least 15 cm thick, in relation to the number of Field Capacity Days at the location.

- 3.6. Soil droughtiness was investigated by the calculation of moisture balance equations (given in Appendix 2). Crop-adjusted Available Profile Water (AP) is estimated from texture, stoniness and depth, and then compared to a calculated moisture deficit (MD) for the standard crops wheat and potatoes. The MD is a function of potential evapotranspiration and rainfall. Grading of the land can be affected if the AP is insufficient to balance the MD and droughtiness occurs.

Agricultural land classification and site limitations

- 3.7. Assessment of land quality has been carried out according to the revised ALC guidelines)¹. Soil profiles have been described according to Hodgson⁶ which is the recognised source for describing soil profiles and characteristics according to the revised ALC guidelines.
- 3.8. Agricultural land quality across the site is limited by wetness and/or droughtiness, and classified as Grade 2 to Subgrade 3b. There are four main soil types present.

Soil Type 1

- 3.9. The first soil type is the most widespread within the site. The topsoil comprises predominantly dark brown (10YR3/3 in the Munsell soil colour charts⁷), dark greyish brown (2.5Y4/2, 10YR4/2) or brown (10YR4/3), non-calcareous clay or heavy clay loam, with some recordings of medium clay loam. Stone content is very slight to slight. The topsoil has a medium subangular blocky structure and the consistency is friable to firm.
- 3.10. The upper subsoil comprises brown (10YR4/3, 10YR5/3), olive brown (2.5Y4/3), light olive brown (2.5Y5/3, 2.5Y5/4, 2.5Y5/6), greyish brown (2.5Y5/2, 10YR5/2) or grey (10YR5/1) clay which is variably calcareous. The upper subsoil is predominantly stoneless to slightly stony, with some isolated observations containing higher volumes of stone.
- 3.11. Profiles of this soil type can be divided into two groups. One group includes profiles where the upper subsoil contains no ochreous mottling or the mottling is found only at the base of the horizon. The second group includes all profiles where mottling is observed directly below the topsoil. Clay within this horizon is predominantly firm and has a medium to coarse subangular blocky structure. Where clay is poorly structured and slowly permeable, peds are recorded to have an angular blocky structure.

⁶ Hodgson, J. M. (Ed.) (1997). *Soil survey field handbook*. Soil Survey Technical Monograph No. 5, Silsoe.

⁷ Munsell Color (2009). *Munsell Soil Color Book*. Grand Rapids, MI, USA

- 3.12. The lower subsoil comprises predominantly grey (10YR5/1, 10YR6/1, N6/, N5/) clay, which is mostly calcareous. Stone content is stoneless to slightly stony, comprising calcareous stone. Clay within this horizon has a poor, coarse angular blocky to massive structure and contains ochreous mottling. This clay is slowly permeable and restricts the downward drainage of water.
- 3.13. Profiles of this soil type are mostly assessed as WC II-III depending on the extent of upper subsoil gleying and the depth to a slowly permeable layer. Where observations are assessed as WC II with a clay or heavy clay loam topsoil, profiles are restricted to Subgrade 3a by soil wetness and occasionally to the same extent by droughtiness. Where observations are assessed as WC III, profiles are further restricted to Subgrade 3b by wetness alone. Observations assessed as WC II with a medium clay loam topsoil are restricted to Grade 2 by wetness, however, within a few profiles, there is an overriding droughtiness limitation restricting them to Subgrade 3a. A relatively small number of observations lack a slowly permeable horizon. These observations are assessed as WC I and are classified as Subgrade 3a with a clay topsoil.

Soil Type 2

- 3.14. The second soil type is present across the west of Area A, the south-east of Area B and south of Area D. These soils are typically found at higher elevations across the site and largely coincide with the mapped Diamicton superficial geology deposits of the Oadby Member. Topsoils comprise dark brown (10YR3/3), dark greyish brown (10YR4/2, 2.5Y4/2) or olive brown (2.5Y4/3), calcareous clay or heavy clay loam, which lies over a permeable, calcareous clay upper subsoil. The upper subsoil is greyish brown (2.5Y5/2, 10YR5/2), light olive brown (2.5Y5/3, 2.5Y5/4), light yellowish brown (2.5Y6/4), olive yellow (2.5Y6/8, 5Y6/8) or pale yellow (2.5Y7/4) in colour and is variably mottled. The lower subsoil comprises poorly structured, slowly permeable, grey (10YR5/1, 10YR6/1, N6/1, N5/0), light grey (N7/1) or light greenish grey (10Y7/1), mottled calcareous clay. Clay within the lower subsoil has an angular blocky to massive structure.
- 3.15. Soil profiles have similar characteristics to Soil Type 1. However, profiles are calcareous throughout and contain calcareous stone from a shallow depth which generally increases in volume with depth. Observations have moderate deficits in available water and are restricted to Grade 2 by droughtiness. Profiles assessed as WC I or II are also restricted to Grade 2 by wetness. Profiles assessed as WC III are further limited to Subgrade 3a by soil wetness. A calcareous topsoil improves water movement, aeration and soil workability, and reduces the risk

of structural damage caused by poor cultivation practices. This reduces the wetness limitation placed on the land.

Soil Type 3

- 3.16. This soil type comprises loamy soils which are permeable to depth. The topsoil comprises dark greyish brown (10YR4/2), brown (10YR4/3), olive brown (2.5Y4/3) or very dark greyish brown (10YR3/2) non-calcareous heavy clay loam, medium clay loam or sandy loam. Stone content varies and is very slight to moderate in volume, at 2-17%. The topsoil has a friable consistency and predominantly has a fine to medium subangular blocky structure.
- 3.17. The upper subsoil mostly comprises brown (10YR4/3, 10YR5/3), dark yellowish brown (10YR4/4, 10YR4/6) or yellowish brown (10YR5/4) sandy clay loam, heavy clay loam or medium clay loam, with few recordings of sandy clay or sandy loam. This horizon is mostly non-calcareous. Stone content is varied and is stoneless to moderately stony, up to 25%. Mottling in this horizon is rarely observed.
- 3.18. The lower subsoil is brown (10YR4/3, 10YR5/3), dark yellowish brown (10YR4/4, 10YR4/6) or yellowish brown (10YR5/4, 10YR5/6) in colour. Colours noted as yellowish are more common than in the upper subsoil. Soil texture is varied and comprises heavy clay loam, sandy clay, sandy clay loam, sandy loam or loamy sand. Soil within this horizon is mostly non-calcareous, containing hard stone, with some small areas which are calcareous, containing a portion of calcareous stone. Stone content is slight to moderate, and commonly contains a higher percentage than overlying horizons. Few profiles have very a stony lower subsoil, recorded up to 40%. Ochreous mottling is observed in the lower subsoil within a small portion of observations.
- 3.19. Soils with these characteristics are typically assessed as WC I. Profiles have slight to moderate deficits in available water through the growing season and are restricted to Grade 2 or Subgrade 3a by droughtiness. Where profiles have a clay topsoil, wetness is an overriding limitation, restricting observations to Subgrade 3a.

Soil Type 4

- 3.20. Where profiles represent a transition between Soil Types 1 and 3, they are commonly assessed as WC II. Profiles comprise non-calcareous medium or heavy clay loam topsoil over a clay loam upper subsoil. These profiles contain slowly permeable clay in the lower subsoil at depth. Profiles are restricted to Grade 2, where the topsoil is medium clay loam, or Subgrade 3a, where the topsoil is heavy clay loam.

3.21. Soils across the south of the cable route comprise heavy clay loam topsoil over subsoil, with some underlain by clay at depth. These observations are permeable and calcareous, classified as WC I, and are restricted to Grade 2 due to drought and soil wetness.

3.22. The ALC distribution within the site is shown in Figure RAC/9611/2 and Table 2.

Table 2: Agricultural Land Classification

Grade	Description	Area (ha)	%
Grade 2	Very good quality	163.6	22
Subgrade 3a	Good quality	354.4	48
Subgrade 3b	Moderate quality	185.2	25
Non-agricultural (excluding existing substation)		35.6	5
Total		738.8	100
Not surveyed		41.6	

3.23. Land described as ‘not surveyed’ comprises 22.4 ha of land between Areas A and B proposed for Landscaping and Green Infrastructure where no disturbance of the soil resource would occur; 5.7 ha of cable corridor between Areas C and D with no survey access; and 13.5 ha of land with no survey access around the existing substation.

3.24. The distribution of ALC within the current site boundaries and following the decision to increase the density of sampling has slightly reduced the area of BMV land from the initial 2023 survey results from 533.9 ha (76% of agricultural land) to 518 ha (74% of agricultural land), with a slight increase in the area of Subgrade 3b land. This change is not considered material to the overall distribution of agricultural land quality within the site.

4. Summary

- 4.1. The proposed scheme extends to 738.8 ha and comprises four main panel areas and a connecting cable route.
- 4.2. The soil survey has been undertaken in two phases. Phase one was undertaken and reported in 2023 and targeted the panel areas at a density of one observation per 4 ha, following the reconnaissance methodology employed by the former MAFF. The initial survey classified 76% of the agricultural land or 533.9 ha as BMV land in Grades 2 and 3a.
- 4.3. Following consultation with Natural England, a second phase of surveys was undertaken in order to target areas proposed for more permanent development within the site, the construction compounds and land proposed for the cable route. These areas were surveyed at a density of one observation per ha. This phase of surveying also increased the density of sampling within the panel areas to approximately one observation per 2 ha, particularly targeting areas previously identified as a mix of BMV and non-BMV land with contrasting soil types.
- 4.4. In total, 314 soil profiles have been examined within the site, excluding observations made on land that is now no longer part of the project.
- 4.5. The distribution of ALC in both phases of the survey is consistent, with the final results showing that 518 ha of 74% of the agricultural land surveyed is classified as BMV land in Grades 2 and 3a, with the remaining agricultural land classified as Subgrade 3b.

Appendix 1: Laboratory Data

Determinand	P1	P2	62	73/P4	82	86	88	91	95/P5	103/P6	114	Units
Sand 2.00-0.063 mm	35	48	34	55	33	48	19	19	20	34	28	% w/w
Silt 0.063-0.002 mm	25	32	40	27	36	34	36	25	30	27	32	% w/w
Clay <0.002 mm	40	20	26	18	31	18	45	56	50	39	40	% w/w
Organic Matter	3.0	1.7	3.0	1.6	2.9	2.0	2.8	3.7	4.6	4.1	3.3	% w/w
Texture	Clay	Medium clay loam	Medium clay loam	Sandy clay loam/sandy loam	Heavy clay loam	Medium clay loam/sandy silt loam	Clay	Clay	Clay	Clay	Clay	

Determinand	P1	P2	62	73/P4	82	86	88	91	95/P5	103/P6	114	Units
Soil pH	7.4	6.4	6.4	6.9	7.4	6.7	7.4	6.9	6.4	7.1	7.9	
Phosphorus (P)	10.6	40.2	12.4	10.8	7.8	18.0	9.4	8.0	11.2	55.8	24.0	Mg/l (av)
Potassium (K)	117	99.3	131	66.1	113	99.9	200	158	206	189	207	Mg/l (av)
Magnesium (Mg)	52.0	52.0	97.0	29.0	71.1	33.3	128	120	171.0	88.3	95.3	Mg/l (av)

Determinand	P1	P2	62	73/P4	82	86	88	91	95/P5	103/P6	114	Units
Phosphorus (P)	1	3	1	1	0	2	0	0	1	4	2	ADAS Index
Potassium (K)	1	1	2-	1	1	1	2+	2-	2+	2+	2+	ADAS Index
Magnesium (Mg)	2	2	2	1	2	1	3	3	3	2	2	ADAS Index

Determinand	117	135	143	146	159/P10	168	205	222	244	Units
Sand 2.00-0.063 mm	50	22	39	49	16	23	48	20	24	% w/w
Silt 0.063-0.002 mm	26	33	34	30	36	30	27	28	32	% w/w
Clay <0.002 mm	24	45	27	21	48	47	25	52	44	% w/w
Organic Matter	2.5	3.9	3.1	2.0	3.3	3.5	2.6	5.2	3.8	% w/w
Texture	Sandy clay loam/ Medium clay loam	Clay	Heavy clay loam	Medium clay loam	Clay	Clay	Medium clay loam	Clay	Clay	

Determinand	117	135	143	146	159/P10	168	205	222	244	Units
Soil pH	6.4	8.1	6.5	6.6	6.7	7.2	8.1	6.3	7.9	
Phosphorus (P)	15.4	9.6	9.4	14.2	18.4	20.6	8.8	5.8	28.0	Mg/l (av)
Potassium (K)	93.1	180	168	108	226	181	109	138	361	Mg/l (av)
Magnesium (Mg)	59.3	62.4	45.8	31.1	222	92.9	32.5	217	96.7	Mg/l (av)

Determinand	117	135	143	146	159/P10	168	205	222	244	Units
Phosphorus (P)	1	1	0	1	2	2	0	0	3	ADAS Index
Potassium (K)	1	2-	2-	1	2+	2+	1	2-	3	ADAS Index
Magnesium (Mg)	2	2	1	1	4	2	1	4	2	ADAS Index

Appendix 2: Soil Profile Summaries and Droughtiness Calculations

Wetness / workability limitations are determined according to the methodology given in Appendix 3 of the ALC guidelines, MAFF 1988

Droughtiness calculations are made according to the methodology given in Appendix 4 of the ALC guidelines, MAFF 1988.

Grades are shown for drought, wetness and any other soil or site factors which are relevant. The overall Grade is set by the most limiting factor and shown on the right.

Stone types			Climate Data		Wetness Class Guidelines					Climate			
%	TA _v	EA _v	MDwheat	113	II		III		IV		V		
hard	1	0.5	MDpotato	106	SPL within 80cm, gleying within 40cm		>60cm		<60cm		1,399 D°		
chalk	10	7	FCD	119	SPL within 80cm, gleying at 40-70cm		>40cm		<40cm		Limitation		
					No SPL but gleying within 40cm		coarse subsoil		I		other cases		
											II		
					Maximum depth of auger penetration is <u>underlined</u>							Grade 1	

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
1	T	0	32	C	trace	2.5Y4/2	4	0	-	52	52	n	n	III	3b	3b	WE
		32	44	C	mod	2.5Y5/6	Mn	com	2	10	m/poor	17	17	(y)	n		
		44	90	C	very	10Y7/1	Fe	com	5	10	poor	34	31	y	y		
		<u>90</u>	120	C			5	15	poor	20	0	y	y				
									Total	123	100						
									MB	10	-6						
									Droughtiness grade (DR)	2	2						
2	T	0	32	ZC	n	2.5Y4/2	2	0	-	53	53	n	n	III	3b	3b	WE
		32	44	C		2.5Y6/4	Fe	com f	2	0	m/poor	17	17	y	n		
		44	65	C	very	5Y6/4	Fe	com	5	10	poor	17	25	y	y		
		65	95	C	very	10Y7/1	Fe	many	5	10	poor	20	6	y	y		
		<u>95</u>	120	C			5	15	poor	17	0	y	y				
									Total	124	102						
									MB	11	-4						
									Droughtiness grade (DR)	2	2						
3	T	0	32	C	slight	2.5Y4/3	4	0	-	52	52	n	n	II	2	2	WE DR
		32	65	C	slight	2.5Y5/4	Fe	few	4	0	m/poor	36	46	n	n		

65	80	C	mod	10Y7/1	Fe	com	5	10	poor	10	6	y	y				
80	105	C	very	N6/1	Fe	many	5	15	poor	17	0	y	y				
<u>105</u>	120	C					5	20	poor	10	0	y	y				
										Total	125	104	GR.gradient				
										MB	12	-2	3 o N				

Droughtiness grade (DR) 2 2

4	T	0	30	hCL	n	2.5Y4/3			2	0	-	53	53	n	n	//	3a	3a	WE
		30	40	C		2.5Y6/6			2	0		16	16	n	n				
		40	50	C		2.5Y6/4	Fe	com	2	0	poor	13	13	y	(y)				
		50	80	C	slight	2.5Y5/3	Fe	com	5	0	m/poor	21	28	y	n				
		80	120	hCL	mod	10YR6/6	Fe	com f	5	0	m/poor	32	0	n	n				
											Total	135	109	GR.gradient			2 o	NW	
						compact					MB	22	3	Head on footslope					
					40-50cm	Droughtiness grade (DR)					2	2							

5	T	0	28	C	mod	2.5Y4/3				6	1	-	45	45	n	n	//	2	2	WE DR
			28	45	C	mod	2.5Y5/6				5	10		25	25	n	n			
			45	58	C	very	2.5Y7/4	Fe	com f		5	15		13	19	y	n			
			58	80	C/CL	mod	2.5Y7/4	Fe	com		5	10	m/poor	17	16	y	(y)			
			80	120	mCL	very	2.5Y7/4	Fe	many		5	10	poor	27	0	y	y			
											Total	127	104	GR.gradient					2 o	NW
											MB	14	-2							
Droughtiness grade (DR)													2	2						

6	T	0	33	C	slight	2.5Y4/3				8	0	-	52	52	n	n	//	2	2	WE DR
		33	45	C	mod	2.5Y5/6				8	2		18	18	n	n				
		45	60	C	mod	2.5Y7/4				5	10		15	22	n	n				
		60	75	C	mod	2.5Y7/4	Fe	com		5	10	poor	10	12	y	y				
		75	90	C	very	N6/1	Fe	many		10	20	poor	10	0	y	y				
		90	120	C	very					5	10	poor	20	0	y	y				

													Total		124	104	GR.gradient				1 o	E
													MB		11	-2						
Droughtiness grade (DR)															2	2						
Pit 1	T	0	30	C	slight	2.5Y4/2			8	0	-	47	47	n	n	//	2	2	WE DR			
		30	38	C	slight	vary	OM		8	2	good	15	15	n	n							
		38	45	C	mod	5Y6/8			8	2		10	10	n	n							
		45	60	C	very	2.5Y7/4	Fe	com	5	15		15	22	y	n							
		60	100	C	very	2.5Y6/2	Fe	many	5	15	poor	27	12	y	y							
		100	120	C	very				5	15	poor	13	0	y	y							
													Total		127	106	GR.gradient				1 o	E
													MB		14	0						
Droughtiness grade (DR)															2	2						
7	T	0	28	C	mod	2.5Y4/3			5	2	-	45	45	n	n	///	3a	3a	WE			
		28	45	C	very	2.5Y7/4	Fe	com	5	10		25	25	y	n							
		45	65	C	very	10Y7/1	Fe	com	5	10	poor	16	24	y	y							
		65	90	C/CL	mod	N6/1	Fe	com	5	20	poor	17	6	y	y							
		90	120	C					0	20	poor	21	0	y	y							
													Total		124	100	GR.gradient				3 o	NW
													MB		11	-6						
Droughtiness grade (DR)															2	2						
8-11 Removed from scope																						
12	T	0	28	C+	n	2.5Y4/3			2	0	-	47	47	n	n	///	3b	3b	WE			
		28	35	C		2.5Y6/4	OM		2	0		11	11	n	n							
		35	55	C	n	5Y6/4	Fe	com	0	0	m/poor	26	29	y	(y)							
		55	80	C		5Y6/2	Fe	com	0	0	poor	18	20	y	y							
		80	120	C	mod	N6/1	Fe	many	0	10	poor	28	0	y	y							
													Total		129	106	GR.gradient				2o	N
													MB		16	0	Wet area nearby					

Droughtiness grade (DR)											2	2							
13	T	0	29	C	n	2.5Y4/3			2	0	-	48	48	n	n	///	3b	3b	WE
		29	34	C			OM		2	0		8	8	n	n				
		34	48	C	n	2.5Y5/3	Fe	com	2	0	poor	18	18	y	y				
		48	65	C		10YR6/3	Fe	com	5	0	m/poor	13	24	y	(y)				
		65	100	C		10YR6/3	Fe	many	5	0	poor	23	6	y	y				
		100	120	C					0	0	poor	14	0	y	y				
											Total	125	104	Wet area nearby					
											MB	12	-2						
Droughtiness grade (DR)											2	2							
14	T	0	25	C+	n	2.5Y5/3			2	0	-	42	42	n	n	///	3b	3b	WE
	T	25	34	C		2.5Y5/2	OM		2	0	(comp.)	15	15	n	n				
		34	55	C	n	2.5Y5/3	Fe	many	2	0	poor	24	27	y	y				
		55	80	C	slight	5Y6/2	Fe	com	5	0	poor	17	19	y	y				
		80	100	C	mod	N6/1	Fe	many	5	0	poor	13	0	y	y				
		100	120	C					0	0	poor	14	0	y	y				
											Total	125	102						
											MB	12	-4						
Droughtiness grade (DR)											2	2							
15	T	0	28	C+	n	2.5Y4/3			2	0	-	47	47	n	n	///	3b	3b	WE
		28	50	C		5Y6/3	Fe	com	2	0	poor	28	28	y	y				
		50	70	hCL	mod	5Y6/3	Fe	com	10	10	m/poor	15	25	y	(y)				
		70	100	C	mod	N6/1	Fe	many	0	10	poor	21	0	y	y				
		100	120	C					0	0	poor	14	0	y	y				
											Total	125	99	Wet area nearby					
											MB	12	-7						
Droughtiness grade (DR)											2	2							
16	T	0	25	C	n	2.5Y5/3			5	0	-	41	41	n	n	///	3b	3b	WE

25	32	C		2.5Y5/2	Fe	com	5	0	good	14	14	y	n
32	50	C	n	10Y7/1	Fe	many	5	0	poor	22	22	y	y
50	70	C	slight	5Y6/2	Fe	com f	0	0	poor	14	26	y	(y)
70	100	C	mod	N6/1	Fe	many	0	0	poor	21	0	y	y
100	120	C					0	0	poor	14	0	y	y

Total 126 103

MB 13 -3

In a wet spot

Droughtiness grade (DR)

2 2

17	T	0	27	C	n	10YR4/3		2	0	-	45	45	n	n	///	3b	3b	WE
		27	40	C		10YR5/3	Mn	com	5	0		20	20	(y)	n			
		40	60	C		5Y6/3	Fe	com	5	0	m/poor	21	28	y	(y)			
		60	75	C	slight	5Y6/3	Fe	many	0	0	poor	11	13	y	y			
		75	120	C	mod	10Y7/1	Fe	many	0	0	poor	32	0	y	y			

Total 128 106

MB 15 0

GR.gradient

3 o NW

Droughtiness grade (DR)

2 2

18	T	0	33	hCL	n	10YR4/3		2	0	-	58	58	n	n	//	3a	3a	WE
		33	45	C		10YR5/4		5	0		18	18	n	n				
		45	65	C		10YR5/3	Fe	many	5	0		19	31	y	n			
		65	120	hCL		10YR5/2	FeMn	many	5	0	poor	37	6	y	y			

Total 132 113

MB 19 7

GR.gradient

1 o W

Head on footslope

Droughtiness grade (DR)

2 2

19 Removed from scope

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	116
MDpotato	110
FCD	122

Wetness Class Guidelines		II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm		>60cm	<60cm			1428 D°
SPL within 80cm, gleying at 40-70cm		>40cm	<40cm			Limitation
No SPL but gleying within 40cm		coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 617

Maximum depth of auger penetration is underlined

39 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
20	T 0 34	hCL	n	10YR4/2			6	0	-	58	58	n	n	III	3b	3b	WE
	34 45	C		2.5Y5/3	Fe	com f	10	0	poor	13	13	y	y				
	45 65	C		5Y6/4	Fe	com f	0	0	m/poor	19	29	y	(y)				
	65 90	C	mod	N6/1	Fe	many	0	10	poor	18	6	y	y				
	<u>90</u> 120	C					0	0	poor	21	0	y	y				
				Small stones					Total	128	106						
										MB	12	-4					
										Droughtiness grade (DR)		2	2				
21	T 0 28	mCL	n	2.5Y4/3			8	0	-	47	47	n	n	II	2	3a	DR
	28 60	mCL		2.5Y5/6			25	0		35	39	n	n				
	60 80	C	mod	7.5GY7/1	Fe	com	5	0	poor	13	12	y	y				
	80 100	C	mod	N6/0	Fe	com	0	0	poor	14	0	y	y				
	<u>100</u> 120	C					0	0	poor	14	0	y	y				
									Total	123	98						
										MB	7	-12					
										Droughtiness grade (DR)		2	3a				
22	T 0 28	SC	n	2.5Y4/2			8	0	-	44	44	n	n	III	3b	3b	WE
	28 40	C		2.5Y6/4	FeMn	com	8	0		18	18	y	n				
	40 80	C	n	5Y7/4	Fe	com	0	0	poor	34	39	y	y				
	<u>80</u> 100	C	mod	N7/0	Fe	com	0	0	poor	14	0	y	y				
	100 120	C					0	0	poor	14	0	y	y				

GR.gradient
River Terrace over Oxford Clay

2-4o

W

															Total			124	101	GR.gradient 1 o S Clay near surface on brow (untypical)				
															MB			8	-9					
															Droughtiness grade (DR)			2	2					
23	T	0	29	SL+	n	2.5Y4/3			6	0	-	47	47	n	n	/	1	3a	DR					
		29	40	SL+		2.5Y5/6			10	0		15	15	n	n									
		40	65	SCL		2.5Y6/8			20	0		24	31	n	n									
		65	75	SL	mod				25	5		8	6	n	n									
		75	120	SL/LS					30	10		27	0	n	n									
															Total			121	98	GR.gradient 1 o SE				
															MB			5	-12	Deep River Terrace deposits				
															Droughtiness grade (DR)			2	3a					
24	T	0	30	mCL	n	2.5Y4/3			12	0	-	48	48	n	n	//	2	2	WE DR					
		30	55	mCL		2.5Y5/6			12	0		33	36	n	n									
		55	60	C	mod				5	20		4	7	n	n									
		60	80	C	mod	5Y6/2	Fe	com	0	0	poor	14	13	y	y									
		80	105	C	mod	N7/0	Fe	com	0	0	poor	18	0	y	y									
		105	120	C					0	0	poor	11	0	y	y									
															Total			126	103	GR.gradient 1 o S				
															MB			10	-7	River Terrace over Oxford Clay				
															Droughtiness grade (DR)			2	2					
25	T	0	26	hCL	n	2.5Y4/2			10	0	-	42	42	n	n	///	3b	3b	WE					
		26	37	C		2.5Y6/4	Fe	com	10	0		16	16	y	n									
		37	70	C	n	5Y6/2	Fe	com f	0	0		37	53	y	y									
		70	95	C	mod	N7/0	Fe	com	0	0	poor	18	0	y	y									
		95	120	C					0	0	poor	18	0	y	y									
															Total			130	111	GR.gradient 1 o S				
															MB			14	1	Clay near surface on footslope				

																Droughtiness grade (DR)			2	2				
26	T	0	28	mCL	n	10YR4/2				6	0	-	48	48	n	n	//	2	2	WE DR				
		28	45	C		2.5Y5/4				5	0	m/poor	24	24	n	n								
		45	75	C		2.5Y5/3	Fe	com		0	0	poor	24	33	y	y								
		75	100	C	n	N6/1	Fe	many		0	0	poor	18	0	y	y								
		100	120	C						0	0	poor	14	0	y	y								
						Small stones						Total	127	104										
													MB	11	-6									
																Droughtiness grade (DR)			2	2				
27	T	0	28	mCL	n	10YR4/2				4	0	-	48	48	n	n	//	2	2	WE DR				
		28	65	mCL		10YR5/2	Fe	many		5	0	m/poor	42	49	y	n								
		65	90	hCL		2.5Y5/3	Fe	many		5	0	poor	17	6	y	y								
		90	100	C	mod	N6/1	Fe	many		5	0	poor	7	0	y	y								
		100	120	C						0	0	poor	14	0	y	y								
						Small stones						Total	127	104										
													MB	11	-6									
																Droughtiness grade (DR)			2	2				
28	T	0	28	C	n	2.5Y5/3				2	0	-	47	47	n	n	//	3a	3a	WE				
		28	40	C		5Y6/4	OM			2	0		19	19	n	n								
		40	65	C	mod	5Y6/4	Fe	com f		0	0	poor	24	33	y	(y)								
		65	100	C	mod	7.5Y7/1	Fe	many		0	0	poor	25	7	y	y								
		100	120	C						0	0	poor	14	0	y	y								
						Border line						Total	128	105			GR.gradient	1 o	NE					
													MB	12	-5									
																Droughtiness grade (DR)			2	2				
29	T	0	27	C+	n	10YR5/2				2	0	-	45	45	n	n	///	3b	3b	WE				
		27	35	C		10YR5/2	OM			2	0		13	13	n	n								
		35	50	C		5Y6/4	Fe	com		2	0	m/poor	21	21	y	n								
		50	100	C	n	7.5YR6/8	grey	many		2	0	m/poor	37	28	(y)	y								

		<u>100</u>	120	C				2	0	poor	14	0	y	y				
										Total	129	107			Head			
										MB	13	-3						
										Droughtiness grade (DR)	2	2						
30	T	0	28	C+	n	2.5Y5/3		2	0	-	47	47	n	n	///	3b	3b	WE
		28	35	C	n	5Y5/3		0	0		11	11	n	n				
		35	70	C		5Y6/3	Fe	com	0	0	poor	34	46	y	y			
		70	100	C	mod	7.5GY7/1	Fe	many	0	5	poor	21	0	y	y			
		<u>100</u>	120	C				0	5	poor	14	0	y	y				
										Total	126	103			GR.gradient	2o	N	
										MB	10	-7						
										Droughtiness grade (DR)	2	2						
31	T	0	35	mCL	n	10YR4/2		8	0	-	58	58	n	n	//	2	2	WE DR
		35	48	hCL		10YR5/4	Fe	com	10	0	m/poor	17	17	(y)	n			
		48	80	SCL		10YR5/3	Fe	many	20	0		27	27	y	n			
		<u>80</u>	100	C				0	0	poor	14	0	y	y				
		100	120	C				0	0	poor	14	0	y	y				
						Small				Total	129	102			GR.gradient	1 o	N	
						stones				MB	13	-8			River Terrace deposit			
										Droughtiness grade (DR)	2	2						
32	T	0	33	mCL	n	10YR4/2		8	0	-	55	55	n	n	//	2	2	WE DR
		33	45	mCL		2.5Y5/4		8	0		18	18	n	n				
		45	72	mCL		5Y4/4	FeOM	com	15	0		26	34	(y)	n			
		72	100	hCL	n	5Y5/1	Fe	com	15	0	poor	17	0	y	y			
		<u>100</u>	120	C				25	0	poor	11	0	y	y				
						wet at				Total	126	107			GR.gradient	1 o	N	
						65cm				MB	10	-3						
										Droughtiness grade (DR)	2	2						

Pit 2	T	0	34	mCL	n	10YR4/2		8	0	-	57	57	n	n	//	2	2	WE DR
		34	60	mCL		2.5Y5/3	FeOM	many f	15	0		31	36	y	n			
		60	72	hCL		2.5Y6/4	Fe	com	15	0	m/poor	9	12	y	n			
		72	100	C	n	5Y6/2	Fe	com	0	0	poor	20	0	y	y			
		<u>100</u>	120	C					0	0	poor	14	0	y	y			
						wet at					Total	130	104			GR.gradient	1 o	N
						65 cm					MB	14	-6					
Droughtiness grade (DR)												2	2					
33	T	0	32	hCL	n	2.5Y4/3		2	0	-	57	57	n	n	//	3a	3a	WE
		32	55	C		2.5Y5/4		2	0		32	36	n	n				
		55	75	C		2.5Y6/4	Fe	com	0	0	poor	14	20	y	y			
		75	105	C	mod	N7/0	Fe	many	0	0	poor	21	0	y	y			
		<u>105</u>	120	C					0	0	poor	11	0	y	y			
											Total	134	112			GR.gradient	0-1o	N
Droughtiness grade (DR)												2	2					
34	T	0	28	mCL	n	10YR4/2		4	0	-	48	48	n	n	//	2	2	WE DR
		28	50	mCL		10YR5/3	Fe	few	5	0		34	34	n	n			
		50	75	hCL		2.5Y6/4	FeMn	com	5	0	m/poor	20	27	y	(y)			
		75	100	C	n	5Y6/2	Fe	many	0	0	poor	18	0	y	y			
		<u>100</u>	120	C					0	0	poor	14	0	y	y			
						small stones					Total	134	109			GR.gradient	0-1o	N
Droughtiness grade (DR)												2	2					

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	116
MDpotato	110
FCD	119

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>59cm	<59cm			1425 D°
SPL within 80cm, gleying at 40-70cm	>39cm	<39cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 611

Maximum depth of auger penetration is underlined

39 m

Site No.		Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abund- ance	stone% hard	stone% chalk	Struct- ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
35	T	0	28	mCL	n	10YR4/3		4	0	-	48	48	n	n	//	2	2	WE DR
		28	45	mCL		10YR5/4	Fe few	10	0		25	25	n	n				
		45	50	hCL			Fe com	5	0	poor	6	6	y	n				
		50	75	SCL		10YR5/4	n	5	0		24	29	n	n				
		<u>75</u>	120	SL/LS	mod		Fe com	25	10		29	0	y	n				
Total											131	107	GR.gradient				1-2o	E
MB											15	-3						
Droughtiness grade (DR)											2	2						
36	T	0	29	SL+	n	10YR4/3		8	0	-	46	46	n	n	/	1	2	DR
		29	40	SL+		10YR4/4	OM	10	0	good	17	17	n	n				
		40	50	SL+		10YR5/3	Fe few	10	0		14	14	n	n				
		50	70	mCL		10YR5/4		10	0	m/poor	15	25	n	n				
		70	80	SCL		10YR4/2	Fe com	15	0		9	0	y	n				
		<u>80</u>	120	SL/LS				25	0		26	0	n	n				
Total											126	102	GR.gradient				1 o	E
MB											10	-8						
Droughtiness grade (DR)											2	2						
37	T	0	15	mCL	n	10YR4/3		4	0	-	26	26	n	n	/	1	2	DR
	T	15	35	mCL		10YR5/4		4	0	comp	35	35	n	n				
		35	75	mCL		10YR5/4	Fe few	4	0	m/poor	41	47	n	n				
		75	120	hCL		10YR6/4	OM	4	0	m/poor	37	0	n	n				
Total											138	108						

										MB	22	-2							
										Droughtiness grade (DR)		2	2	Winter beans					
38	T	0	29	mCL	n	10YR4/3		4	0	-	50	50	n	n	//	2	2	WE DR	
		29	36	mCL		10YR4/4		4	0	good	14	14	n	n					
		36	65	hCL		2.5Y6/6	Fe	com f	4	0	m/poor	31	39	(y)	n				
		65	120	C				25	0	poor	30	5	y	y					
											Total	125	108	GR.gradient					1 o
										MB	9	-2							
										Droughtiness grade (DR)		2	2						
39	T	0	15	mCL	n	10YR4/3		4	0	-	26	26	n	n	///	3a	3a	WE	
	T	15	35	mCL		10YR5/4		4	0	comp	35	35	n	n					
		35	50	hCL		2.5Y5/3	Fe	many	4	0	m/poor	20	20	y	n				
		50	80	C		2.5Y6/4	Fe	com	8	0	poor	19	24	y	y				
		80	100	C	mod	N7/0		0	0	poor	14	0	y	y					
		100	120	C		10YR6/4		0	0	poor	14	0	y	y					
											Total	128	105						
										MB	12	-5							
										Droughtiness grade (DR)		2	2						
40	T	0	28	SL+	n	10YR4/3		8	0	-	44	44	n	n	/	1	2	DR	
		28	40	SL+		10YR6/6	OM	com	10	0	good	18	18	n	n				
		40	80	SCL		10YR6/4	Mn	few	15	0		39	39	n	n				
		80	120	SCL	n	10YR6/3	Fe	com f	10	0	poor	29	0	y	n				
											Total	130	101	GR.gradient					1 o
										MB	14	-9							
										Droughtiness grade (DR)		2	2						
41	T	0	28	mCL	n	10YR4/3		6	0	-	48	48	n	n	//	2	2	WE DR	
		28	44	hCL		10YR6/6		5	0		24	24	n	n					
		44	65	C		10YR6/4	Fe	com f	5	0	m/poor	19	29	y	n				
		65	120	C	n	10YR6/3	FeMn	com f	5	0	poor	37	6	y	y				

													Total	128	107	GR.gradient			1 o	E			
													MB	12	-3								
													Droughtiness grade (DR)			2	2						
42	T	0	32	mCL	n	2.5Y4/3			6	0	-	54	54	n	n	///	3a	3a	WE				
		32	50	C		2.5Y7/3	Fe	com	0	0		29	29	y	n								
		50	105	C	mod	5Y7/2	Fe	com	0	0	poor	39	26	y	y								
		105	120	C					0	0	poor	11	0	y	y								
													Total	132	109	GR.gradient			1o	NE			
													MB	16	-1								
													Droughtiness grade (DR)			2	2						
43-46				Removed from scope										-									

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	116
MDpotato	111
FCD	120

Wetness Class Guidelines		II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm		>60cm	<60cm			1,429
SPL within 80cm, gleying at 40-70cm		>39cm	<39cm			Limitation
No SPL but gleying within 40cm		coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 614

Maximum depth of auger penetration is underlined

Site No.		Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
47	T	0	28	C	n	2.5Y5/3		2		-	47	47	n	n	II	3a	3a	WE
		28	70	C	n	5Y6/4	OMFe	few f	5	m/poor	45	58	n	n				
		70	100	C	mod	5Y6/4	Fe	few	0	poor	21	0	(y)	y				
		<u>100</u>	120	C		10YR6/4			0	poor	14	0	y	y				
										Total	126	105					2o	NW
										MB	10	-6						
Droughtiness grade (DR)											2	2						
48	T	0	28	C	trace	2.5Y5/3		2		-	47	47	n	n	II	3a	3a	WE DR
		28	40	C	slight	5Y6/2	OM		0	m/poor	17	17	n	n				
		40	55	C	mod	5Y6/2	Fe	com	0	poor	17	20	y	(y)				
		55	78	C	mod	N6/0	Fe	many	0	poor	16	20	y	y				
		<u>78</u>	120	C					25	poor	23	0	y	y				
										Total	119	103						
										MB	3	-8					(plateau)	
Droughtiness grade (DR)											3a	2						
49	T	0	28	C+	mod	2.5Y5/3		0		-	48	48	n	n	II	3a	3a	WE
		28	44	C	mod	5Y7/2	Fe	few f	0	m/poor	23	23	n	n				
		44	70	C	mod	5Y6/3	Fe	com	0	poor	22	34	y	y				
		70	100	C	very	N7/0	Fe	com	0	poor	21	0	y	y				
		<u>100</u>	120	C					0	poor	14	0	y	y				
										Total	128	105					6o	NW
																	GR.gradient	

										MB	12	-6	(bank)					
										Droughtiness grade (DR)		2	2					
50	T	0	32	C	trace	2.5Y5/3			4	-	52	52	n	n	//	3a	3a	WE
		28	40	C	slight	5Y5/4	OM		0	m/poor	17	17	n	n				
		40	70	C	mod	5Y6/2	Fe	com f	0	poor	27	39	y	(y)				
		70	100	C	mod	5Y6/2	Fe	com	0	poor	21	0	y	y				
		100	120	C					0	poor	14	0	y	y				
										Total	132	109	GR.gradient			1o	E	
										MB	16	-2	(footslope)					
										Droughtiness grade (DR)		2	2					
51	T	0	28	C	n	2.5Y5/3			4	-	46	46	n	n	//	3a	3a	WE
		28	40	C	n	2.5Y5/4	OM		0	m/poor	17	17	n	n				
		40	70	C	mod	5Y5/2	Fe	few	0	poor	27	39	n	(y)				
		70	100	C	very	N6/0	Fe	com	0	poor	21	0	y	y				
		100	120	C					0	poor	14	0	y	y				
										Total	125	102	GR.gradient			3o	E	
										MB	9	-9	(better drained)					
										Droughtiness grade (DR)		2	2					
52	T	0	20	C	n	2.5Y5/3			4	-	33	33	n	n	II-III	3b	3b	WE
	T	20	28	C	n	2.5Y5/2			4	comp	13	13	n	n				
		28	40	C	n	2.5Y6/4	Fe	few	5	m/poor	17	17	n	n				
		40	70	C/CL	mod	5Y6/2	Fe	com	0	m/poor	32	44	y	y				
		70	100	C	very	5Y7/2	Fe	com	0	poor	21	0	y	y				
		100	120	C					0	poor	14	0	y	y				
										Total	129	106	GR.gradient			1o	NW	
										MB	13	-5	(wetter on footslope this end)					
										Droughtiness grade (DR)		2	2					
53	T	0	27	C	n	2.5Y4/2			3	0	45	45	n	n	//	3a	3a	WE
		27	62	C	sli	2.5Y5/4			0	0	m/poor	42	51	n	n			
		62	120	C	calc	N5/	Fe	com	0	2	poor	41	10	y	y			
										Total	128	106						

															MB	12	-5			
															Droughtiness grade (DR)	2	2			
54	T	0	28	C	n	2.5Y4/2			3	0		46	46	n	n	//	3a	3a	WE	
Pit 3		28	50	C	sli	2.5Y5/3			0	0	m/poor	32	32	n	n					
		50	120	C	calc	N5/	Fe	many	0	2	poor	49	26	y	y					
												Total	127	104						
															MB	11	-7			
															Droughtiness grade (DR)	2	2			
55	T	0	29	hCL	n	10YR4/2			3	0		51	51	n	n	//	3a	3a	WE	
		29	42	C	n	10YR5/3			5	0		20	20	n	n					
		42	70	C	n	10YR5/3	Femn	com	5	0		27	43	y	n					
		70	120	C	mod	N5/	Fe	com	0	0	poor	35	0	y	y					
												Total	133	113						
															MB	17	2			
															Droughtiness grade (DR)	2	2			
56	T	0	26	C	n	2.5Y4/2			3	0		43	43	n	n	//	3a	3a	WE	
		26	60	C	n	2.5Y5/3			0	0	m/poor	42	49	n	n					
		60	120	C	calc	10YR5/1	Fe	com	0	0	poor	42	13	y	y					
												Total	127	105						
															MB	11	-6			
															Droughtiness grade (DR)	2	2			
57	T	0	26	C	n	2.5Y4/2			3	0		43	43	n	n	//	3a	3a	WE	
		26	60	C	calc	2.5Y5/4			0	7	m/poor	42	48	n	n					
		60	120	C	calc	10YR5/1	Fe	com	0	3	poor	42	13	y	y					
												Total	126	104						
															MB	10	-7			
															Droughtiness grade (DR)	2	2			

58	T	0	30	C	n	10YR4/2			2	0	50	50	n	n	/	3a	3a	WE
		30	66	C	n	10YR5/3			0	0	45	58	n	n				
		66	90	SC	n	10YR5/6	Fe	com	10	0	22	5	n	n				
		90	120	SC	n	10YR5/6	Fe	com	20	0	24	0	n	n				
											Total	141	113					
											MB	25	2					
											Droughtiness grade (DR)	2	2					
59	T	0	25	C	n	10YR4/2			2	0	42	42	n	n	/	3a	3a	WE
		25	75	C	n	10YR4/2			0	0	60	72	n	n				
		75	120	SC	n	10YR5/6			20	0	36	0	n	n				
											Total	138	114					
											MB	22	3					
											Droughtiness grade (DR)	2	2					
60	T	0	30	C	n	10YR4/2			3	0	50	50	n	n	/	3a	3a	WE
		30	55	C	n	10YR5/3			3	0	35	39	n	n				
		55	120	SC	n	10YR5/6			20	0	53	18	n	n				
											Total	137	107					
											MB	21	-4					
											Droughtiness grade (DR)	2	2					
61	T	0	20	C	n	10YR4/2			3	0	33	33	n	n	///	3b	3b	WE
	T	20	30	C	n	10YR4/2			3	0	17	17	n	n				
		30	120	C	n	10YR5/1	Fe	many	0	0	poor	75	52	y	y			
											Total	125	102					
											MB	9	-9					
											Droughtiness grade (DR)	2	2					

62	T	0	27	mCL	n	10YR4/2			3	0		47	47	n	n	//	2	2	WE
		27	56	C	n	10YR5/3	Fe	few	3	0		40	45	n	n				
		56	120	C	n	10YR5/1	Fe	many	0	0	poor	45	18	y	y				
												Total	132	111	TS- borderline hcl				
												MB	16	0					
Droughtiness grade (DR)												2	2						
63	T	0	27	hCL	n	10YR4/2			3	0		47	47	n	n	//	3a	3a	WE
		27	45	C	n	10YR5/3	Fe	few	0	0		29	29	n	n				
		45	63	C	n	10YR5/3	Fe	many	0	0	m/poor	17	26	y	y				
		63	120	C	n	10YR5/1	Fe	com	0	0	poor	40	9	y	y				
												Total	133	111					
										MB	17	0							
Droughtiness grade (DR)												2	2						
64	T	0	27	hCL	n	10YR4/2			2	0		48	48	n	n	//	3a	3a	WE
		27	50	C	n	10YR5/3	Fe	com	2	0		36	36	y	n				
		50	72	hCL	n	10YR5/3	Fe	few	5	0		21	31	n	n				
		72	120	SC	n	10YR5/3	Femn	com	5	0		46	0	y	n				
												Total	150	114	Subsoil mottling varied, loam/sand lenses in subsoil				
										MB	34	3							
Droughtiness grade (DR)												1	2						
65	T	0	31	C	n	10YR4/2			3	0		51	51	n	n	//	3a	3a	WE
		31	48	C	n	2.5Y5/4			2	0		27	27	n	n				
		48	75	C	n	10YR5/3	Fe	com	2	0		23	35	y	n				
		75	120	C	calc	10YR5/1	Fe	many	0	1	poor	32	0	y	y				
												Total	132	112					
										MB	16	1							
Droughtiness grade (DR)												2	2						

66	T	0	25	C	n	10YR4/2			3	0		41	41	n	n	//	3a	3a	WE
		25	51	C	n	10YR5/3			0	0		41	42	n	n				
		51	120	C	calc	10YR6/1	Fe	many	0	1	poor	48	25	y	y				
											Total	130	108						
											MB	14	-3						
									Droughtiness grade (DR)			2	2						
67	T	0	28	hCL	n	10YR4/3			12			45	45	n	n	//	3a	3a	WE DR
		28	34	hCL		10YR5/2			12		good	11	11	n	n				
		34	60	hCL		2.5Y5/3	Fe	com	25		m/poor	24	28	y	n				
		60	120	C/SCL					25		m/poor	39	11	y	n				
											Total	119	95						
											MB	3	-16						
									Droughtiness grade (DR)			3a	3a						
68	T	0	27	C	n	10YR4/2			7	0		43	43	n	n	//	3a	3a	WE
		27	60	C	n	10YR5/3			0	0		45	53	n	n				
		60	75	C	n	2.5Y5/3	Fe	com	0	0		12	16	y	n				
		75	120	C	n	10YR5/1	Fe	com	0	0	poor	32	0	y	y				
											Total	131	112			Locally variable patches of topsoil stone			
											MB	15	1						
									Droughtiness grade (DR)			2	2						
69	T	0	28	hCL	n	10YR4/2			5	0		48	48	n	n	//	3a	3a	WE
		28	50	hCL	n	10YR5/3			5	0		34	34	n	n				
		50	76	hCL	n	10YR5/3	Femn	com	5	0		25	31	y	n				
		76	120	C	n	10YR5/1	Fe	com	0	0	poor	31	0	y	y				
											Total	137	112						
											MB	21	1						

Droughtiness grade (DR)										2	2								
70	T	0	25	mCL	n	10YR4/2				15	0	39	39	n	n	/	1	3a	DR
		25	60	SCL	n	10YR4/6				15	0	41	45	n	n				
		60	120	hCL	n	10YR5/6				20	0	49	13	n	n				
		Total									128	97							
		MB									12	-14							
Droughtiness grade (DR)										2	3a								
71	T	0	30	SCL	n	10YR4/2				12	0	45	45	n	n	/	1	2	DR
		30	67	hCL	n	10YR4/4				12	0	43	53	n	n				
		67	80	SCL	calc	10YR4/4				15	0	11	4	n	n				
		80	120	SCL	calc	10YR4/6				20	0	32	0	n	n				
		Total									132	102							
MB									16	-9									
Droughtiness grade (DR)										2	2								
72	T	0	29	mCL	n	10YR4/2				10	0	47	47	n	n	//	2	2	WE DR
		29	50	mCL	n	10YR4/3				12	0	30	30	n	n				
		50	62	hCL	n	10YR5/3	Fem	com	5	0	11	18	y	n					
		62	120	C	mod	5N/	Fe	com	0	1	poor	41	10	y	y				
		Total									129	106							
MB									13	-5									
Droughtiness grade (DR)										2	2								
73	T Pit 4	0	26	SCL	n	10YR4/2				12	0	39	39	n	n	/	1	3a	DR
		26	45	SCL	n	10YR5/3	Fem	few	10	0	26	26	n	n					
		45	65	SCL	n	10YR5/6	Fem	com	5	0	21	29	n	n					
		65	90	SCL	n	10YR5/6	Fe	com	5	0	24	7	n	n					
		90	120	C	n	10YR5/6	Fe	few	10	0	22	0	n	n					

															Total	132	101				
															MB	16	-10				
															Droughtiness grade (DR)	2	3a				
74	T	0	26	hCL	n	10YR4/2			10	0		42	42	n	n	//	3a	3a	WE		
		26	53	hCL	n	10YR5/3, 10YR5/6	Fe	com	7	0		39	40	y	n						
		53	67	C	n	10YR5/2, 10YR5/6	Femn	many	5	0		11	21	y	n						
		67	120	C	n	10YR5/6	Fe	com	15	0		36	4	n	n						
																Total	128	108			
															MB	12	-3				
															Droughtiness grade (DR)	2	2				
75	T	0	23	hCL	n	10YR4/2			7	0		39	39	n	n	///	3b	3b	WE GW		
		23	47	C	n	10YR5/2	Fe	com	7	0		36	36	y	n						
		47	120	C	n	10YR5/1	Fe	many	0	0	poor	53	30	y	y						
																Total	127	104	Saturated		
																MB	11	-7			
															Droughtiness grade (DR)	2	2				
76	T	0	27	C	n	10YR4/2			1	0		45	45	n	n	//	3a	3a	WE		
		27	65	C	mod	2.5Y5/4			0	0		49	61	n	n						
		65	120	C	calc	10YR5/1	Fe	many	0	0	poor	39	7	y	y						
																Total	133	113			
																MB	17	2			
															Droughtiness grade (DR)	2	2				
77	T	0	27	hCL	n	10YR4/2			7	0		45	45	n	n	//	3a	3a	WE		
		27	65	C	n	10YR5/3	Fe	com	5	0		47	58	y	n						

65	100	C	calc	10YR5/2	Femn	many	5	0		27	8	y	n
100	120	C	calc	10YR5/2	Fe	com	0	7		16	0	y	n
Total										134	111		
MB										18	0		
Droughtiness grade (DR)										2	2		

78	T	0	25	C	n	2.5Y4/2			5	0		41	41	n	n	//	3a	3a	WE
		25	55	C	n	2.5Y5/2	Fe	few	2	0	m/poor	39	43	n	n				
		55	74	C	calc	2.5Y5/3	Fe	com	0	20	poor	13	19	y	y				
		74	120	C	calc	2.5Y5/2	Fe	com	0	20	poor	32	0	y	y				
	Total											125	102						
MB											9	-9							
Droughtiness grade (DR)											2	2							

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	117
MDpotato	111
FCD	120

Wetness Class Guidelines		II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm		>60cm	<60cm			1,431
SPL within 80cm, gleying at 40-70cm		>39cm	<39cm			Limitation
No SPL but gleying within 40cm		coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 614

Maximum depth of auger penetration is underlined

Site		Depth		Texture	CaCO ₃	Colour	Mottle	abund-	stone%	stone%	Struct-	APwheat	AP potato	Gley	SPL	WC	Wetness	Final	Limiting
No.		cm					colour	ance	hard	chalk	ure	mm	mm				grade WE	Grade	Factor(s)
79	T	0	30	C	n	2.5Y4/2			4	0		49	49	n	n	///	3b	3b	WE
		30	44	C	sli	2.5Y5/3	Fe	com	2	0	m/poor	20	20	y	n				
		44	120	C	calc	10YR5/1	Fe	many	0	0	poor	57	34	y	y				
		Total											126	103					
		MB											9	-8					
Droughtiness grade (DR)												2	2						
80	T	0	26	C	n	2.5Y4/2			3	0		43	43	n	n	///	3b	3b	WE
		26	53	C	mod	2.5Y5/3	Fe	com	0	0	m/poor	37	39	y	n				
		53	120	C	calc	N5/	Fe	many	0	2	poor	47	22	y	y				
		Total											127	104					
		MB											10	-7					
Droughtiness grade (DR)												2	2						
81	T	0	24	C	n	10YR4/2			5	0		39	39	n	n	///	3b	3b	WE
		24	55	C	sli	2.5Y5/3	Fe	com	5	0	m/poor	40	43	y	y				
		55	120	C	calc	5N/	Fe	many	0	0	poor	46	20	y	y				
		Total											124	101					
		MB											7	-10					
Droughtiness grade (DR)												2	2						
82	T	0	29	hCL	n	2.5Y4/2			3	0		51	51	n	n	I-II	3a	3a	WE GW
		29	57	SC	n	10YR5/6	Fe		10	0		35	38	(y)	n				
		57	120	SC	n	10YR5/6	Fe		10	0		57	18	(y)	n				
		Total											143	106	Saturated				
		MB											26	-5					

Droughtiness grade (DR)											2	2							
83	T	0	31	hCL	n	10YR4/2			3	0		54	54	n	n	//	3a	3a	WE
		31	90	C	n	2.5Y5/3	Fe	com	3	0		61	61	y	n				
		90	120	C	calc	10YR5/1	Fe	com	0	0	poor	21	0	y	y				
											Total	136	115						
											MB	19	4						
Droughtiness grade (DR)											2	2							
84	T	0	31	hCL	n	10YR4/2			3	0		54	54	n	n	/	2	2	WE DR
		31	65	hCL	n	10YR3/4	Fe	few	5	0		43	52	n	n				
		65	120	SCL	mod	10YR5/4			2	10		52	7	n	n				
											Total	150	113						
											MB	33	2						
Droughtiness grade (DR)											1	2							
85	T	0	25	C	n	10YR4/2			3	0		41	41	n	n	/	3a	3a	WE
		25	50	C	n	10YR5/3			3	0		39	39	n	n				
		50	85	C	n	10YR5/3	Fe	com	0	0		28	32	y	n				
		85	120	C	calc	10YR5/3	Fe	many	0	5		28	0	y	n				
											Total	136	112		hCL/C				
											MB	19	1						
Droughtiness grade (DR)											2	2							
86	T	0	30	mCL	n	10YR4/2			7	0		50	50	n	n	///	3a	3a	WE
		30	52	hCL	n	10YR5/3	Fe	com	10	0		31	32	y	n				
		52	65	C	mod	10YR5/2	Fe	com	0	0	poor	9	17	y	y				
		65	120	C	mod	10YR5/1	Fe	com	0	0	poor	39	7	y	y				
											Total	129	106		USS mottling locally varied				
											MB	12	-5						
Droughtiness grade (DR)											2	2							
87	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	/	3a	3a	WE
		28	40	C	n	10YR5/3			7	0		18	18	n	n				
		40	63	C	n	10YR5/4			7	0		25	34	n	n				

		63	80	C	mod	10YR4/6	Fe	com	15	0		12	10	n	n				
		80	120	C	mod	10YR4/6	Fe	com	20	0		26	0	n	n				
											Total	127	108						
											MB	10	-3						
											Droughtiness grade (DR)		2	2					
88	T	0	26	C	n	2.5Y4/2			3	0		43	43	n	n	//	3a	3a	WE
		26	64	C	sli	2.5Y5/3			0	0	m/poor	45	55	n	n				
		64	120	C	mod	10YR5/1	Fe	com	0	0	poor	39	8	y	y				
											Total	127	106						
											MB	10	-5						
											Droughtiness grade (DR)		2	2					
89	T	0	24	C	n	10YR4/2			3	0		40	40	n	n	///	3b	3b	WE
		24	35	C	n	2.5Y5/4	Fe	few	0	0		18	18	n	n				
		35	53	C	sli	2.5Y5/3	Fe/gr	com	0	0	poor	22	23	y	y				
		53	120	C	calc	10YR5/1	Fe	many	0	1	poor	47	22	y	y				
											Total	126	103						
											MB	9	-8						
											Droughtiness grade (DR)		2	2					
90	T	0	27	hCL	n	10YR4/2			5	0		46	46	n	n	I-II	3a	3a	WE
		27	63	hCL	sli	10YR4/6			5	0		47	55	n	n				
		63	75	SCL	calc	10YR5/4			0	15		11	10	n	n				
		75	120	C	calc	10YR6/1	Fe	many	0	2	poor	32	0	y	y				
											Total	137	111						
											MB	20	0						
											Droughtiness grade (DR)		2	2					
91	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	//	3a	3a	WE
		28	53	C	n	10YR5/3	Fe	com	5	0		36	38	y	n				
		53	120	hCL	n	10YR5/3	Fe	few	5	0		64	26	n	n				
											Total	146	110						
											MB	29	-1						

Droughtiness grade (DR)										2	2							
92	T	0	26	hCL	n	10YR4/2			3	0	45	45	n	n	/	2	2	WE DR
		26	60	C	n	10YR5/3			5	0	44	52	n	n				
		60	95	hCL	n	10YR5/4	Fe	com	10	0	32	15	n	n				
		95	120	mSL	n	10YR4/6			10	0	25	0	n	n				
											Total	146	112					
											MB	29	1					
Droughtiness grade (DR)										2	2							

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	119
MDpotato	114
FCD	115

Wetness Class Guidelines		II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm		>58cm	<58cm			1,438
SPL within 80cm, gleying at 40-70cm		>37cm	<37cm			Limitation
No SPL but gleying within 40cm		coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 596

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
93	T 0 29	hCL	n	10YR3/3			17	0		44	44	n	n	II	3a	3a	WE DR
	29 45	C	n	2.5Y4/3			15	0		22	22	n	n				
	45 68	C	n	2.5Y5/3	Fe	com	15	0		19	32	y	n				
	68 120	C	calc	10YR6/1	Fe	many	0	3	poor	36	3	y	y				
									Total	121	100						
									MB	2	-14						
									Droughtiness grade (DR)	3a	3a						
94	T 0 33	C	n	10YR3/3			5	0		53	53	n	n	III	3b	3b	WE
	33 50	C	sli	2.5Y5/3	Fe	com	5	0	m/poor	24	24	y	n				
	50 67	C	sli	2.5Y5/3	Fe	com	5	0	poor	11	21	y	y				
	67 120	C	calc	N6/	Fe	many	0	2	poor	37	4	y	y				
									Total	125	102						
									MB	6	-12						
									Droughtiness grade (DR)	2	3a						
95	T 0 30	C	n	10YR3/2			4	0		49	49	n	n	III	3b	3b	WE
Pit 5	30 40	C	n	10YR5/3	Fe	com	3	0		16	16	y	n				
	40 57	C	n	2.5Y5/3, 10YR5/2	Fe	com	3	0	poor	17	21	y	y				
	57 120	C	calc	10YR6/1	Fe	many	0	2	poor	44	17	y	y				
									Total	126	103						
									MB	7	-11						

Droughtiness grade (DR)										2	3a							
96	T	0	30	C	n	10YR3/2			4	0	49	49	n	n	///	3b	3b	WE
		30	53	C	n	10YR5/2	Fe	com	10	0	poor	26	27	y	y			
		53	120	C	calc	10YR6/1	Fe	many	0	2	poor	47	22	y	y			
											Total	121	98					
											MB	2	-16					
Droughtiness grade (DR)										3a	3a							
97	T	0	22	C	n	10YR3/2			4	0	36	36	n	n	///	3b	3b	WE
		22	47	C	n	2.5Y5/3	Fe	com	2	0	poor	32	32	y	y			
		47	120	C	calc	10YR6/1	Fe	many	0	3	poor	53	30	y	y			
											Total	121	98					
											MB	2	-16					
Droughtiness grade (DR)										3a	3a							
98	T	0	27	C	calc	10YR3/2			3	0	45	45	n	n	/	2	2	DR
		27	40	C	calc	10YR5/3			7	3	19	19	n	n				
		40	80	hCL	v.calc	10YR5/1			0	10	45	46	n	n				
		80	120	hCL	calc	10YR5/1	Fe	com	0	20	38	0	y	n				
											Total	146	110					
											MB	27	-4					
Droughtiness grade (DR)										2	2							
99	T	0	25	C	calc	10YR3/2			2	0	42	42	n	n	//	2	2	WE
		25	68	C	calc	2.5Y5/3			0	0	54	69	n	n				
		68	120	C	calc	2.5Y5/2	Fe	com	0	3	poor	36	3	y	y			
											Total	132	113					
											MB	13	-1					
Droughtiness grade (DR)										2	2							
100	T	0	25	C	n	10YR3/2			3	0	41	41	n	n	//	3a	3a	WE

		25	63	C	v.sli	2.5Y4/3			3	0		49	59	n	n				
		63	120	C	calc	10YR6/1	Fe	many	0	3	poor	40	9	y	y				
											Total	130	109						
											MB	11	-5						
											Droughtiness grade (DR)	2	2						
101	T	0	27	C	n	2.5Y4/2			3	0		45	45	n	n	///	3b	3b	WE
		27	66	C	v.sli	10YR6/1	Femn	many	0	0	poor	41	51	y	y				
		66	120	C	calc	N6/	Fe	many	0	0	poor	38	5	y	y				
											Total	124	101						
											MB	5	-13						
											Droughtiness grade (DR)	2	3a						
102	T	0	28	C	n	2.5Y4/2			5	0		45	45	n	n	///	3b	3b	WE
		28	50	C	n	10YR5/3	Femn	v.many	5	0		34	34	y	n				
		50	50	C	calc	2.5Y5/3	Fe	com	0	3	poor	0	0	y	y				
		50	120	C	calc	10YR5/1	Fe	com	0	3	poor	49	26	y	y				
											Total	128	105						
											MB	9	-9						
											Droughtiness grade (DR)	2	2						
103	T	0	28	C	n	2.5Y4/2			5	0		45	45	n	n	///	3b	3b	WE
Pit 6		28	63	C	sli	2.5Y5/2	Fe	com	0	0	poor	38	46	y	y				
		63	120	C	mod	10YR5/1	Fe	many	0	0	poor	40	9	y	y				
											Total	123	100						
											MB	4	-14						
											Droughtiness grade (DR)	3a	3a						
104	T	0	24	C	n	10YR4/2			3	0		40	40	n	n	///	3b	3b	WE
		24	120	C	mod	10YR5/1	Fe	many	0	0	poor	83	60	y	y				
											Total	122	99						
											MB	3	-15						

Droughtiness grade (DR)										3a	3a									
105	T	0	36	C	n	10YR4/2			2	0	60	60	n	n	//	3a	3a	WE		
		36	70	C	n	10YR5/3	Fe	many	2	0	38	53	y	n						
		70	120	C	n	10YR5/3	Femn	many	0	0	40	0	y	n						
											Total	138	113							
											MB	19	-1							
Droughtiness grade (DR)										2	2									
106	T	0	28	C	n	10YR4/2			8	0	44	44	n	n	///	3b	3b	WE		
		28	47	C	n	10YR5/3	Fe	com	3	0	30	30	y	n						
		47	120	C	n	10YR5/1	Fe	many	0	0	poor	53	30	y	y					
											Total	126	103							
											MB	7	-11							
Droughtiness grade (DR)										2	3a									
107	T	0	28	C	n	10YR3/2			7	0	44	44	n	n	//	3a	3a	WE		
		28	63	C	n	10YR5/4	Femn	few	7	0	43	52	n	n						
		63	120	SC	calc	10YR5/3	Femn	com	15	15	poor	38	8	y	y					
											Total	125	104							
											MB	6	-10							
Droughtiness grade (DR)										2	2									
108	T	0	30	C	n	10YR4/2			3	0	50	50	n	n	//	3a	3a	WE		
		30	66	C	n	2.5Y4/3			3	0	44	56	n	n						
		66	120	C	mod	10YR5/1	Fe	many	3	0	poor	37	5	y	y					
											Total	130	111							
											MB	11	-3							
Droughtiness grade (DR)										2	2									
109	T	0	37	C	n	10YR4/2			7	0	59	59	n	n	//	3a	3a	WE		

37	58	C	mod	2.5Y4/3			5	0		26	32	n	n		
58	120	C	calc	10YR5/1	Fe	com	0	5	poor	43	15	y	y		
Total										128	106				
MB										9	-8				
Droughtiness grade (DR)										2	2				

110	T	0	28	C	n	10YR4/2		7	0		44	44	n	n	//	3a	3a	WE
			28	59	C	n	10YR5/3		3	0		41	48	n	n			
			59	120	C	mod	10YR5/2	Femn	many	0	0	poor	43	14	y	y		
	Total										128	107						
	MB										9	-7						
Droughtiness grade (DR)										2	2							

111	T	0	33	C	n	10YR4/2		7	0		52	52	n	n	//	3a	3a	WE
			33	75	C	sli	2.5Y4/3		10	0		43	54	n	n			
			75	120	C	calc	10YR5/1	Fe	com	0	7	poor	32	0	y	y		
	Total										127	106						
	MB										8	-8						
Droughtiness grade (DR)										2	2							

112	T	0	27	C	n	10YR3/2		15	0		39	39	n	n	//	3a	3a	WE DR
			27	42	C	mod	10YR4/3		15	0		21	21	n	n			
			42	120	C	calc	10YR5/1	Fe	many	0	5	poor	59	36	y	y		
	Total										119	96	Lss- few lenses of sand, friable					
	MB										0	-18						
Droughtiness grade (DR)											3a	3a						

Lss- few lenses of sand, friable

113	T	0	30	C	n	10YR3/2		7	0		48	48	n	n	/	3a	3a	WE
		30	68	C	n	10YR4/1		7	0		43	57	n	n				
		68	92	C	n	10YR5/3	Fe	many	10	0		17	3	y	n			

<u>92</u>	120	C	n	10YR5/3	Fe	many	10	0	20	0	y	n				
									Total	129	107					
									MB	10	-7					
Droughtiness grade (DR)										2	2					

Pit 7	T	0	30	C	n	10YR3/2			7	0		48	48	n	n	//	3a	3a	WE
		30	60	C	n	2.5Y4/3			3	0		39	47	n	n				
		60	75	C	n	2.5Y5/3	Fe	com	3	0		12	16	y	n				
		75	120	C	calc	10YR5/1	Fe	com	0	3	poor	32	0	y	y				
										Total		130	110						
										MB		11	-4						
Droughtiness grade (DR)												2	2						

114	T	0	30	C	n	10YR3/2			10	0	46	46	n	n	///	3b	3b	WE
		30	54	C	n	2.5Y5/2	Fe	com	5	0	34	37	y	n				
		54	120	C	n	10YR5/1	Fe	many	0	3	poor	46	21	y	y			
										Total	126	103						
										MB	7	-11						
Droughtiness grade (DR)											2	3a						

115	T	0	29	mCL	n	10YR3/2	17	0	44	44	n	n	/	1	3a	DR
		29	40	SC	n	10YR4/4	20	0	13	13	n	n				
		40	120	SC	n	10YR4/4	20	0	69	37	n	n				
									Total	126	94	TS-mCL/hCL				
									MB	7	-20					
Droughtiness grade (DR)									2	3a						

116	T	0	30	hCL	n	10YR4/2			12	0	48	48	n	n	/	2	3a	DR
		30	50	SC	n	10YR4/4			20	0	24	24	n	n				
		50	62	SC	n	10YR4/4	mn	com	20	0	10	15	n	n				

<u>62</u>	120	SC	n	10YR4/4	mn	com	20	0	47	10	n	n
									Total	129	97	
									MB	10	-17	
Droughtiness grade (DR)										2	3a	

117	T	0	29	mCL	n	10YR4/2	12	0	46	46	n	n	/	1	3a	DR
		29	58	hCL	n	10YR4/3	12	0	37	41	n	n				
		58	100	hCL	n	10YR5/6	15	0	36	17	n	n				
		100	120	SCL	n	10YR5/6	20	0	16	0	n	n				
									Total	135	104	Some sand lenses in hCL LSS				
									MB	16	-10	TS mCL/SCL				
Droughtiness grade (DR)										2	3a					

118	T	0	32	C	n	10YR4/2	10	0	49	49	n	n	/	3a	3a	WE DR
		32	60	C	n	10YR5/2	10	0	33	41	n	n				
		60	78	C	n	10YR5/6	15	0	12	14	n	n				
		78	120	C	n	10YR5/6	20	0	27	0	n	n				
									Total	122	104					
									MB	3	-10					
Droughtiness grade (DR)										3a	3a					

Stone types		
%	TA _v	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	114
MDpotato	107
FCD	118

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>59cm	<59cm			1404
SPL within 80cm, gleying at 40-70cm	>38cm	<38cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 617

Maximum depth of auger penetration is underlined

62m

Site No.		Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
119	T	0	28	C	sli	10YR4/2		3	0		46	46	n	n	III	3a	3a	WE
		28	50	C	n	10YR5/3	Femn com	0	0		35	35	y	n				
		50	120	C	calc	10YR5/1	Fe many	0	0	poor	49	26	y	y				
										Total	130	107						
										MB	16	0						
								Droughtiness grade (DR)			2	2						
120	T	0	30	C	n	10YR4/2		3	0		50	50	n	n	II	3a	3a	WE
		30	60	C	sli	2.5Y5/2	Femn com	7	0		37	45	y	n				
		60	120	C	calc	10YR5/1	Fe com	0	0	poor	42	13	y	y				
										Total	129	107						
										MB	15	0						
								Droughtiness grade (DR)			2	2						
121	T	0	25	C	trace	10YR4/2		3	0		41	41	n	n	II	3a	3a	WE
		25	47	C	mod	2.5Y5/3		0	0		35	35	n	n				
		47	65	C	mod	10YR5/2	Fe com	0	0		17	29	y	n				
		65	120	C	calc	N5/	Fe many	0	3	poor	39	6	y	y				
										Total	132	112						
										MB	18	5						
								Droughtiness grade (DR)			2	2						
122	T	0	27	C	trace	10YR4/2		5	0		44	44	n	n	II	3a	3a	WE

27	63	C	mod	10YR5/3	Fe	few	3	0		46	56	n	n				
63	120	C	calc	10YR5/1	Fe	com	0	3	poor	40	9	y	y				
Total										130	109						
MB										16	2						
Droughtiness grade (DR)										2	2						

123	T	0	28	C	calc	10YR4/2				2	5		46	46	n	n	III	3a	3a	WE
			28	55	C	calc	N5/1	Fe	com	0	5	m/poor	35	39	y	n				
			55	120	C	calc	N5/1	Fe	many	0	3	poor	46	19	y	y				
	Total												126	104	variable USS					
	MB												12	-3						
Droughtiness grade (DR)												2	2							

124	T	0	24	C	calc	2.5Y4/2			2	5		39	39	n	n	//	2	2	WE DR
		24	55	C	calc	2.5Y5/2			0	12		44	47	n	n				
		55	120	C	calc	N5/1	Fe	com	0	7	poor	46	19	y	y				
	Total										128	106							
	MB										14	-1							
Droughtiness grade (DR)												2	2						

125	T	0	25	C	calc	10YR4/2				3	5		40	40	n	n	I-II	2	2	WE DR
			25	35	C	calc	2.5Y5/4	mn	com	0	5		16	16	n	n				
			35	70	C	v.calc	2.5Y5/2	Fe	few	0	15		38	53	n	n				
			70	120	C	v.calc	10YR6/1	Fe	com	0	20	poor	35	0	y	y				
	Total										129	109								
	MB										15	2								
Droughtiness grade (DR)													2	2						

126	T	0	26	C	calc	10YR4/2				3	5		42	42	n	n	II	2	2	WE DR
		26	45	C	calc	2.5Y5/4				0	10		29	29	n	n				
		45	63	C	v.calc	2.5Y5/2	Fe	com		0	15		18	27	y	n				

		63	120	C	v.calc	10YR5/1	Fe	many	0	15	poor	40	9	y	y		
											Total	129	107				
											MB	15	0				
											Droughtiness grade (DR)	2	2				
127	T	0	27	C	calc	10YR4/2			5	7		42	42	n	n	//	2
Pit 8		27	45	C	calc	2.5Y5/2			0	10		28	28	n	n		
		45	65	C	v.calc	2.5Y5/2	Fe	com	0	15		19	30	y	n		
		65	120	C	v.calc	10YR5/1	Fe	many	0	15	poor	39	6	y	y		
											Total	128	107				
											MB	14	0				
											Droughtiness grade (DR)	2	2				
128	T	0	30	C	calc	10YR4/2			3	5		49	49	n	n	/	2
		30	60	C	v.calc	2.5Y5/3			0	10		39	46	n	n		
		60	105	C	v.calc	2.5Y5/2	Fe	com	0	15		35	15	y	n		
		105	120	C	v.calc	10YR5/1	Fe	many	0	15	poor	11	0	y	y		
											Total	133	110				
											MB	19	3				
											Droughtiness grade (DR)	2	2				
129	T	0	27	C	sli	10YR4/2			3	0		49	49	n	n	/	2
		27	55	C	n	10YR5/3			3	0		39	46	n	n		
		55	103	C	n	10YR5/3	Fe	com	3	0		35	15	y	n		
		103	120	C	calc	10YR5/1	Fe	com	2	3	poor	11	0	y	y		
											Total	133	110				
											MB	19	3				
											Droughtiness grade (DR)	2	2				
130	T	0	30	C	mod	10YR4/2			3	3		49	49	n	n	I-II	2
		30	56	C	calc	10YR5/3			3	1		36	40	n	n		

Edge of crop

56	72	C	calc	10YR5/3	Fe	com	3	1		12	22	y	n				
72	120	C	calc	10YR5/2	Fe	com	3	0	poor	33	0	y	y				
Total										130	111						
MB										16	4						
Droughtiness grade (DR)										2	2						

131	T	0	26	C	trace	10YR4/2			2	0		43	43	n	n	//	3a	3a	WE		
		26	54	C	mod	2.5Y5/3	Fe	few	0	0		42	45	n	n						
		54	120	C	calc	N5/0	Fe	many	1	0	poor	46	21	y	y						
	Total												131	109							
	MB												17	2							
Droughtiness grade (DR)														2	2						

132	T	0	27	C	n	10YR4/2				3	0		45	45	n	n	//	2	2	WE DR
		27	45	C	mod	2.5Y5/3				0	0		29	29	n	n				
		45	120	C	calc	N5/0	Fe	many		0	3	poor	55	32	y	y				
	Total												129	106						
	MB										15	-1								
Droughtiness grade (DR)										2	2									

133	T	0	28	C	calc	10YR4/2				5	3		45	45	n	n	//	2	2	WE DR
		28	56	C	v.calc	2.5Y5/3				0	15		38	42	n	n				
		56	120	C	v.calc	N5/0	Fe	many		0	12	poor	45	18	y	y				
	Total												128	105						
	MB												14	-2						
Droughtiness grade (DR)												2	2							

134	T	0	28	C	calc	10YR4/2				2	10		45	45	n	n	//	2	2	WE DR
		28	56	C	v.calc	2.5Y5/4				0	10		39	43	n	n				
		56	120	C	v.calc	N5/0	Fe	com		0	12	poor	45	18	y	y				
	Total												128	106						

										MB	14	-1							
										Droughtiness grade (DR)	2	2							
135	T	0	29	C	calc	10YR4/2				3	5	47	47	n	n	/	2	2	WE DR
		29	80	C	v.calc	2.5Y5/3				0	7	57	64	n	n				
		80	120	C	v.calc	10YR6/1	Fe	com		0	15	poor	28	0	y	y			
											Total	131	111						
										MB	17	4							
										Droughtiness grade (DR)	2	2							
136	T	0	30	C	calc	10YR4/2				3	5	49	49	n	n	/	2	2	WE DR
		30	84	C	v.calc	2.5Y5/3				0	10	39	46	n	n				
		84	120	C	v.calc	10YR6/1	Fe	com		0	10	poor	35	15	y	y			
											Total	133	110						
										MB	19	3							
										Droughtiness grade (DR)	2	2							

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	114
MDpotato	107
FCD	118

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>59cm	<59cm			1404
SPL within 80cm, gleying at 40-70cm	>38cm	<38cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 617

Maximum depth of auger penetration is underlined

Site No.		Depth cm		Texture	CaCO ₃	Colour	Mottle colour	abund-ance	stone% hard	stone% chalk	Struct-ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
137	T	0	30	C	n	10YR4/2			3	0		50	50	n	n	III	3b	3b	WE
		30	120	C	n	10YR5/2	Fe	com	0	0	poor	75	52	y	y				
											Total	125	102						
											MB	11	-5						
											Droughtiness grade (DR)	2	2						
138	T	0	30	C	n	10YR4/2			2	0		50	50	n	n	II	3a	3a	WE
		30	60	C	n	2.5Y5/3			0	0		40	48	n	n				
		60	120	C	n	10YR5/1	Fe	many	0	0	poor	42	13	y	y				
											Total	132	111						
											MB	18	4						
											Droughtiness grade (DR)	2	2						
139	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	II	3a	3a	WE
		28	56	C	n	2.5Y5/3			0	0		40	45	n	n				
		56	120	C	n	2.5Y5/2	Fe	many	0	0	poor	45	18	y	y				
											Total	131	109						
											MB	17	2						
											Droughtiness grade (DR)	2	2						
140	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	II	3a	3a	WE
		28	45	C	n	10YR5/4			0	0		27	27	n	n				
		45	120	C	n	10YR5/1	Fe	many	0	0	poor	56	33	y	y				

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	117
MDpotato	111
FCD	120

Wetness Class Guidelines		II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm		>60cm	<60cm			1,431
SPL within 80cm, gleying at 40-70cm		>39cm	<39cm			Limitation
No SPL but gleying within 40cm		coarse subsoil		I	other cases	Grade 1

hard flint & pebble

AAR 614

Maximum depth of auger penetration is underlined

Site No.		Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abund- ance	stone% hard	stone% chalk	Struct- ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
142	T	0	26	C	trace	10YR4/2		5	0		42	42	n	n	//	3a	3a	WE
		26	50	C	n	10YR5/3	Fe few	3	0		37	37	n	n				
		50	120	C	calc	5N/0	Fe many	0	3	poor	49	26	y	y				
										Total	128	105						
										MB	11	-6						
Droughtiness grade (DR)											2	2						
143	T	0	27	hCL	n	10YR4/2		5	0		46	46	n	n	//	3a	3a	WE
		27	56	C	n	10YR5/3	Femn com	5	0		40	44	y	n				
		56	77	C	mod	10YR5/3	Femn com	5	5		16	21	y	n				
		77	120	C	calc	10YR6/1	Fe many	0	5	poor	30	0	y	y				
										Total	132	111						
Droughtiness grade (DR)											2	2						
144	T	0	30	mSL	n	10YR3/2		15	0		44	44	n	n	/	1	3a	DR
		30	57	SCL	n	10YR4/2		12	0		33	36	n	n				
		57	65	SCL	n	10YR4/3		12	0		7	11	n	n				
		65	120	C	n	10YR4/3	Fe com	20	0		36	7	n	n				
										Total	119	97						
Droughtiness grade (DR)											2	-14						
Droughtiness grade (DR)											3a	3a						

145	T	0	30	mSL	n	10YR3/2		15	0	44	44	n	n	/	1	3a	DR
		30	40	SCL	n	10YR4/2		12	0	13	13	n	n				
		40	65	SCL	n	10YR4/3		12	0	27	33	n	n				
		65	120	C	n	10YR4/3	Fe com	20	0	36	7	n	n				
										Total	119	97					
										MB	2	-14					
										Droughtiness grade (DR)	3a	3a					
146	T	0	30	mCL	n	10YR4/2		5	0	51	51	n	n	/	1	2	DR
		30	63	hCL	n	10YR5/3		3	0	44	51	n	n				
		63	120	hCL	n	10YR5/3	Fe com	3	0	55	11	n	n				
										Total	151	114					
										MB	34	3					
										Droughtiness grade (DR)	1	2					
147	T	0	26	hCL	n	10YR4/2		3	0	45	45	n	n	///	3b	3b	WE
		26	55	C	n	2.5Y5/2	Femn com	5	0	40	44	y	n				
		55	120	C	n	N5/0	Fe many	0	3	poor	46	19	y	y			
										Total	131	109					
										MB	14	-2					
										Droughtiness grade (DR)	2	2					
148	T	0	30	mSL	n	10YR3/2		12	0	45	45	n	n	/	1	3a	DR
		30	56	mSL	n	10YR5/4		10	0	33	35	n	n				
		56	65	mSL	n	10YR5/6		15	3	8	11	n	n				
		65	120	LmS	calc	10YR5/6		30	10	24	3	n	n				
										Total	111	95					
										MB	-6	-16					
										Droughtiness grade (DR)	3a	3a					
149	T	0	26	mSL	n	10YR3/2		12	0	39	39	n	n	/	1	3a	DR

		26	50	mSL	calc	10YR5/4			15	10		30	30	n	n		
		<u>50</u>	120	LmS	calc	10YR5/6			30	10		31	13	n	n		
											Total	100	82				
											MB	-17	-29				
											Droughtiness grade (DR)	3a	3a				
150	T	0	28	SCL	n	10YR4/2			7	0		44	44	n	n	/	1
		28	55	SCL	n	10YR4/6			7	0		36	38	n	n		
		55	65	mSL	sli	10YR4/6			15	0		9	13	n	n		
		<u>65</u>	120	LmS	calc	10YR5/6			20	10		28	4	n	n		
											Total	117	99				
											MB	0	-12				
											Droughtiness grade (DR)	3a	3a				
151	T	0	28	hCL	n	10YR4/2			12	0		45	45	n	n	//	3a
		28	45	hCL	n	10YR5/3	mn	few	5	0		26	26	n	n		
		45	120	C	n	10YR5/1	Fe	many	5	0	poor	53	31	y	y		
											Total	124	102				
											MB	7	-9				
											Droughtiness grade (DR)	2	2				
152	T	0	25	C	n	10YR4/2			2	0		42	42	n	n	/	3a
		25	45	C	n	10YR5/3			2	0		31	31	n	n		
		45	80	C	n	10YR5/3	Fe	com	5	0		31	38	y	n		
		80	120	SC	n	10YR5/3	Fe	com	10	0	poor	29	0	y	y		
											Total	133	111				
											MB	16	0				
											Droughtiness grade (DR)	2	2				
153	T	0	27	C	n	10YR4/2			2	0		45	45	n	n	/	3a
		27	60	C	n	10YR5/3	Fe	few	0	0		45	53	n	n		
		60	120	C	n	2.5Y5/3	Femn	com	3	0		47	16	y	n		

														Total	136	113				
														MB	19	2				
														Droughtiness grade (DR)	2	2				
154	T	0	30	C	n	10YR4/2			3	0		50	50	n	n	//	3a	3a	WE	
		30	50	C	n	2.5Y5/3			0	0		32	32	n	n					
		50	63	C	n	2.5Y5/3	Fe	few	0	0		10	21	n	n					
		63	120	C	sli	10YR6/1	Fe	many	0	0	poor	40	9	y	y					
														Total	132	111				
														MB	15	0				
														Droughtiness grade (DR)	2	2				
155	T	0	27	C	n	10YR4/2			3	0		45	45	n	n	//	3a	3a	WE	
		27	45	C	n	2.5Y5/3			0	0		29	29	n	n					
		45	63	C	n	2.5Y5/2	Fe	com	0	0		18	29	y	n					
		63	120	C	sli	N5/0	Fe	many	0	0	poor	40	9	y	y					
														Total	132	111				
														MB	15	0				
														Droughtiness grade (DR)	2	2				

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	119
MDpotato	114
FCD	114

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>58cm	<58cm			1,431
SPL within 80cm, gleying at 40-70cm	>37cm	<37cm			Limitation
No SPL but gleying within 40cm	coarse subsoil		I	other cases	Grade 1

hard flint & pebble

AAR 596

Maximum depth of auger penetration is underlined

Site No.		Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
156	T	0	27	C	n	10YR3/3		5	0		44	44	n	n	II	3a	3a	WE
		27	57	C	mod	10YR5/3	Fe few	2	0		42	47	n	n				
		57	120	C	calc	N5/0	Fe many	0	3	poor	44	17	y	y				
										Total	129	108						
										MB	10	-6						
										Droughtiness grade (DR)	2	2						
157 Pit 9	T	0	27	C	n	10YR3/3		3	0		45	45	n	n	III	3b	3b	WE
		27	45	C	mod	10YR5/2	Femn many	2	0	poor	28	28	y	y				
		45	120	C	calc	10YR6/1	Fe many	0	3	poor	55	32	y	y				
										Total	128	105						
										MB	9	-9						
										Droughtiness grade (DR)	2	2						
158	T	0	28	C	n	10YR3/3		3	0		46	46	n	n	II	3a	3a	WE
		28	54	C	mod	10YR5/3		0	0		38	42	n	n				
		54	73	C	calc	10YR5/2	Fe many	0	2	poor	13	21	y	y				
		73	120	C	calc	N5/0	Fe v.many	0	2	poor	33	0	y	y				
										Total	131	109						
										MB	12	-5						
										Droughtiness grade (DR)	2	2						
159 Pit 10	T	0	30	C	n	10YR3/3		3	0		50	50	n	n	III	3b	3b	WE
		30	68	C	calc	10YR5/1	Fe many	0	1	poor	39	49	y	y				

		68	120	C	v.calc	N5/0	Fe	many	0	2	poor	36	3	y	y		
											Total	124	101				
											MB	5	-13				
											Droughtiness grade (DR)	2	3a				
160	T	0	25	C	n	10YR3/3			3	0		41	41	n	n	///	3b
		25	54	C	mod	10YR5/2	Fe	many	5	0	poor	34	36	y	y		3b
		54	120	C	calc	N5/0	Fe	many	0	2	poor	46	21	y	y		3b
											Total	121	98				
											MB	2	-16				
											Droughtiness grade (DR)	3a	3a				
161	T	0	25	C	n	10YR3/3			3	0		41	41	n	n	///	3b
		25	54	C	mod	10YR5/2	Fe	many	5	0	poor	34	36	y	y		3b
		54	120	C	calc	N5/0	Fe	many	0	2	poor	46	21	y	y		3b
											Total	121	98				
											MB	2	-16				
											Droughtiness grade (DR)	3a	3a				
162	T	0	28	C	n	10YR3/3			13	0		42	42	n	n	///	3b
		28	47	C	n	10YR5/2	Femn	com	10	0	poor	22	22	y	y		3b
		47	120	C	calc	N5/0	Fe	many	0	3	poor	53	30	y	y		3b
											Total	117	94				
											MB	-2	-20				
											Droughtiness grade (DR)	3a	3a				
163	T	0	28	C	n	10YR3/3			3	0		46	46	n	n	///	3b
Pit 11		28	45	C	mod	10YR5/2	Fe	many	0	0	poor	22	22	y	y		3b
		45	120	C	calc	10YR6/1	Fe	many	0	2	poor	55	32	y	y		3b
											Total	124	101				
											MB	5	-13				
											Droughtiness grade (DR)	2	3a				

164	T	0	25	C	n	10YR3/3			2	0		42	42	n	n	///	3b	3b	WE
		25	35	C	n	10YR5/3			0	0		16	16	n	n				
		35	45	C	n	10YR5/2	Fe	com	0	0		16	16	y	n				
		45	60	C	mod	10YR5/2	Fe	many	0	1	poor	13	19	y	y				
		60	120	C	calc	10YR6/1	Fe	many	0	3	poor	42	13	y	y				
												Total	129	106					
												MB	10	-8					
Droughtiness grade (DR)											2	2							
165	T	0	30	C	n	10YR3/3			2	0		50	50	n	n	///	3b	3b	WE
		30	46	C	n	10YR5/1	Fe	many	0	0	poor	21	21	y	y				
		46	120	C	mod	N5/0	Fe	many	0	0	poor	54	31	y	y				
												Total	125	102					
												MB	6	-12					
		Droughtiness grade (DR)											2	3a					
		166	T	0	28	C	n	10YR3/3			3	0		46	46	n	n	//	3a
28	62			C	mod	2.5Y5/3			0	0		45	54	n	n				
62	120			C	calc	10YR5/1	Fe	many	0	1	poor	41	10	y	y				
										Total	132	111							
										MB	13	-3							
Droughtiness grade (DR)											2	2							
167	T			0	29	C	mod	10YR3/3			3	0		48	48	n	n	//	2
		29	56	C	calc	10YR5/4	Fe	few	0	10		37	42	n	n				
		56	120	C	v.calc	10YR5/1	Fe	com	0	15	poor	45	18	y	y				
												Total	130	107					
												MB	11	-7					
		Droughtiness grade (DR)											2	2					
		168	T	0	25	C	mod	10YR3/3			3	1		41	41	n	n	//	2

		25	55	C	calc	2.5Y5/2	Fe	few	0	7		43	47	n	n		
		55	120	C	v.calc	10YR6/1	Fe	com	0	15	poor	46	19	y	y		
											Total	130	107				
											MB	11	-7				
											Droughtiness grade (DR)	2	2				
169	T	0	28	C	mod	10YR3/3			3	2		46	46	n	n	//	2
		28	50	C	v.calc	2.5Y5/3			0	12		34	34	n	n		
		50	70	C	v.calc	2.5Y5/3			0	15		16	30	n	n		
		70	120	C	v.calc	10YR6/1	Fe	com	0	15	poor	35	0	y	y		
											Total	130	110				
											MB	11	-4				
											Droughtiness grade (DR)	2	2				
170	T	0	27	C	n	10YR4/2			3	0		45	45	n	n	//	3a
		27	52	C	n	10YR5/2			0	0		38	40	n	n		
		52	70	C	mod	10YR5/2	Fe	com	0	5		14	28	y	n		
		70	120	C	mod	10YR6/1	Fe	many	10	0	poor	32	0	y	y		
											Total	129	113				
											MB	10	-1				
											Droughtiness grade (DR)	2	2				
171	T	0	25	C	n	10YR3/3			3	0		41	41	n	n	//	3a
		25	56	C	n	10YR5/3			5	0		43	47	n	n		
		56	120	C	v.calc	10YR5/1	Femn	many	0	3	poor	45	18	y	y		
											Total	129	107				
											MB	10	-7				
											Droughtiness grade (DR)	2	2				
172	T	0	25	C	mod	10YR3/3			5	0		41	41	n	n	//	2
		25	40	C	mod	2.5Y5/3	Fe	com	3	0		23	23	y	n		
		40	62	C	calc	10YR5/2	Fe	many	0	3		25	35	y	n		

		62	120	C	calc	N4/0	Fe	many	0	7	poor	41	10	y	y				
											Total	130	109						
											MB	11	-5						
											Droughtiness grade (DR)	2	2						
173	T	0	27	hCL	n	10YR4/2			2	0		48	48	n	n	//	2	2	WE DR
		27	120	hCL	n	10YR5/3	Fe	com	0	0		107	69	y	n				
											Total	154	116						
											MB	35	2						
											Droughtiness grade (DR)	1	2						
174	T	0	29	C	sli	10YR3/3			3	0		48	48	n	n	I-II	2	2	WE DR
		29	40	C	n	10YR4/2			0	0		18	18	n	n				
		40	63	C	n	10YR4/2	Femn	many	10	0		24	33	y	n				
		63	120	SCL	n	10YR5/6			15	0		49	9	n	n				
											Total	138	108						
											MB	19	-6						
											Droughtiness grade (DR)	2	2						
175	T	0	25	hCL	n	10YR4/2			3	0		44	44	n	n	/	2	2	WE DR
		25	60	hCL	n	10YR5/4			3	0		49	54	n	n				
		60	120	SCL	n	10YR5/6	mn	com	7	0		56	14	n	n				
											Total	148	112						
											MB	29	-2						
											Droughtiness grade (DR)	2	2						
176	T	0	28	C	mod	10YR4/2			2	0		47	47	n	n	//	2	2	WE DR
		28	60	C	sli	2.5Y5/3	Femn	com	2	0		42	50	y	n				
		60	120	C	calc	10YR6/1	Fe	many	0	10	poor	42	13	y	y				
											Total	131	110						
											MB	12	-4						
											Droughtiness grade (DR)	2	2						

177	T	0	30	C	n	10YR4/2		3	0		50	50	n	n	/	3a	3a	WE
		30	106	C	n	10YR5/3		0	0		77	64	n	n				
		106	120	C	calc	2.5Y5/3	Fe	com	0	7		11	0	y	n			
											Total	137	114					
											MB	18	0					
											Droughtiness grade (DR)	2	2					
178	T	0	30	C	mod	10YR3/3		5	0		49	49	n	n	//	2	2	WE DR
		30	50	C	calc	2.5Y5/3		0	7		31	31	n	n				
		50	63	C	v.calc	2.5Y5/3	Fe	few	0	12		10	20	n	n			
		63	120	C	v.calc	10YR6/1	Fe	com	0	15		poor	40	9	y	y		
											Total	130	108					
											MB	11	-6					
											Droughtiness grade (DR)	2	2					
179-180																		
Removed from scope																		

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	116
MDpotato	110
FCD	122

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>60cm	<60cm			1428 D°
SPL within 80cm, gleying at 40-70cm	>40cm	<40cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 617

Maximum depth of auger penetration is underlined

39 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
181	T 0 29	mCL	n	10YR4/2			10	0		47	47	n	n	/	1	3a	DR
	29 40	mCL	n	10YR5/4			15	0		15	15	n	n				
	<u>40</u> 120	hCL	n	10YR5/4			25	0		66	37	n	n				
									Total	128	99			Superficial- Sand/gravel			
									MB	12	-11						
							Droughtiness grade (DR)			2	3a						
182	T 0 30	mCL	n	10YR4/2			5	0		51	51	n	n	///	3a	3a	WE
	30 50	C	n	2.5Y5/2	Fe	many	0	0	poor	26	26	y	y				
	50 120	C	sli	10YR6/1	Fe	many	0	0	poor	49	26	y	y				
									Total	126	103						
									MB	10	-7						
							Droughtiness grade (DR)			2	2						
183	T 0 30	mCL	n	10YR4/2			5	0		51	51	n	n	/	1	2	DR
	30 74	SCL	n	10YR5/4			7	0		50	56	n	n				
	74 120	hCL	n	10YR5/6			10	0		42	0	n	n				
									Total	144	108			74cm+ hCL/SCL-com sand lenses			
									MB	28	-2						
							Droughtiness grade (DR)			2	2						
184	T 0 28	hCL	n	10YR4/2			2	0		49	49	n	n	///	3b	3b	WE
	28 58	C	n	10YR5/3	Fe	com	2	0		41	47	y	n				

58	80	C	n	10YR5/3	Fe,Mn	many	10	0	m/poor	15	16	y	y
<u>80</u>	120	C	n	10YR6/1	Fe	com	15	0	poor	24	0	y	y
										Total	129	112	
										MB	13	2	
Droughtiness grade (DR)											2	2	

185	T	0	31	mCL	n	10YR4/2				3	0	54	54	n	n	//	2	2	WE DR
		31	50	hCL	n	10YR5/3	Femn	com		5	0	29	29	n	n				
		50	55	hCL	n	10YR5/4				15	0	4	7	n	n				
		<u>55</u>	120	hCL	n	10YR5/4				20	0	53	20	n	n				
										Total	140	110	Superficial- Sand/gravel						
										MB	24	0							
Droughtiness grade (DR)											2	2							

186	T	0	33	mCL	n	10YR4/2				5	0	57	57	n	n	/	1	2	DR
		33	72	hCL	n	10YR5/4				7	0	46	55	n	n				
		72	85	C	v.sli	10YR5/4				10	0	9	0	n	n				
		<u>85</u>	120	C	sli	2.5Y5/2	Fe	many		15	0	m/poor	23	0	y	y			
										Total	135	112	hCL/SCL						
										MB	19	2							
Droughtiness grade (DR)											2	2							

187	T	0	29	hCL	n	10YR4/2				2	0	51	51	n	n	///	3b	3b	WE
		29	59	C	n	10YR5/3	Fe	com		2	0	43	53	y	n				
		59	120	C	sli	10YR5/1	Fe	many		0	0	poor	40	9	y	y			
										Total	134	114							
										MB	18	4							
Droughtiness grade (DR)											2	2							

188	T	0	32	hCL	n	10YR4/2				2	0	57	57	n	n	///	3b	3b	WE
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		32	65	C	n	2.5Y5/2	Fe	many	0	0	poor	34	43	y	y				
		65	120	C	n	10YR6/1	Fe	com	0	5	poor	39	6	y	y				
												Total	129	106					
												MB	13	-4					
Droughtiness grade (DR)												2	2						
189	T	0	30	hCL	n	10YR4/2			3	0		52	52	n	n	///	3b	3b	WE
		30	48	hCL	n	10YR5/3	Fe	com	3	0		28	28	y	n				
		48	120	C	n	10YR5/1	Fe	many	0	0	poor	52	29	y	y				
													Total	132	109				
													MB	16	-1				
Droughtiness grade (DR)												2	2						
190	T	0	29	hCL	n	10YR3/2			2	0		51	51	n	n	///	3b	3b	WE
		29	44	C	n	10YR5/3	Fe	com	7	0		22	22	y	n				
		44	80	C	calc	10YR6/1	Fe	many	0	1	poor	29	34	y	y				
		80	90	hCL	calc	10YR6/4	Fe	com	0	15	poor	7	0	y	y				
		90	120	hCL	calc	10YR6/4	Fe	com	0	15	poor	21	0	y	y				
													Total	130	107				
													MB	14	-3				
Droughtiness grade (DR)												2	2						
191	T	0	27	hCL	n	10YR4/2			3	0		47	47	n	n	//	3a	3a	WE
		27	50	hCL	sli	10YR5/4	Fe	few	5	0		35	35	n	n				
		50	65	hCL	sli	10YR5/3	Fe	com	5	5		14	22	y	n				
		65	120	C	calc	2.5Y5/2	Fe	many	5	5	poor	37	6	y	y				
													Total	133	111				
												MB	17	1					
Droughtiness grade (DR)												2	2						

192	T	0	28	hCL	n	10YR4/2			2	0		49	49	n	n	//	3a	3a	WE
		28	53	C	n	2.5Y5/3	Fe	few	3	0		37	39	n	n				
		53	70	C	n	2.5Y5/2	Fe	many	0	0	poor	12	22	y	y				
		70	120	C	sli	10YR6/1	Fe	many	0	0	poor	35	0	y	y				
											Total	133	110						
											MB	17	0						
											Droughtiness grade (DR)	2	2						
193	T	0	30	C	n	10YR4/2			1	0		51	51	n	n	///	3b	3b	WE
		30	48	C	n	2.5Y5/3	Fe	com	0	0		29	29	y	n				
		48	55	C	n	2.5Y5/2	Fe	many	0	0	poor	6	9	y	y				
		55	120	C	n	10YR5/1	Fe	com	0	0	poor	46	20	y	y				
											Total	131	108						
											MB	15	-2						
											Droughtiness grade (DR)	2	2						
194	T	0	30	C	n	10YR4/2			1	0		51	51	n	n	///	3b	3b	WE
		30	60	C	n	2.5Y5/3	Fe	many	3	0	poor	32	38	y	y				
		60	120	C	mod	10YR5/1	Fe	many	0	0	poor	42	13	y	y				
											Total	125	101						
											MB	9	-9						
											Droughtiness grade (DR)	2	2						
195	T	0	32	C	n	10YR4/2			1	0		54	54	n	n	///	3b	3b	WE
		32	59	C	mod	2.5Y5/3	Fe,Mn	com	5	0	poor	28	33	y	y				
		59	120	C	mod	10YR5/1	Fe	many	0	3	poor	43	14	y	y				
											Total	125	102			Some hCL TS locally			
											MB	9	-8						
											Droughtiness grade (DR)	2	2						

196	T	0	31	C	n	10YR4/2			1	0		52	52	n	n	///	3b	3b	WE
		31	45	C	n	2.5Y5/3	Fe	com	2	0		22	22	y	n				
		45	70	C	n	2.5Y5/2	Fe	v.many	5	0	poor	20	31	y	y				
		70	120	C	calc	10YR5/1	Fe	many	0	2	poor	35	0	y	y				
											Total	129	105						
											MB	13	-5						
											Droughtiness grade (DR)	2	2						
197	T	0	25	C+	n	10YR4/2			2	0		42	42	n	n	///	3b	3b	WE
		25	62	C	n	2.5Y5/3	Fe	com	2	0	poor	40	47	y	y				
		62	120	C	sli	10YR5/1	Fe	com	0	0	poor	41	10	y	y				
											Total	122	99						
											MB	6	-11						
											Droughtiness grade (DR)	2	3a						
198	T	0	24	C+	n	10YR4/2			1	0		40	40	n	n	///	3b	3b	WE
		24	38	C	mod	2.5Y5/3	Fe	few	0	2	poor	18	18	(y)	y				
		38	50	C	mod	2.5Y5/3	Fe,Mn	com	0	2	poor	16	16	y	y				
		50	120	C	mod	10YR5/1	Fe	many	0	2	poor	49	26	y	y				
											Total	123	100						
											MB	7	-10						
											Droughtiness grade (DR)	2	3a						
199	T	0	26	C+	mod	10YR4/2			1	0		44	44	n	n	///	3b	3b	WE
		26	35	C	calc	2.5Y5/3	Fe	com	0	2	poor	12	12	y	y				
		35	50	C	calc	2.5Y5/3	Fe,Mn	com	0	2	poor	19	19	y	y				
		50	120	C	calc	10YR5/1	Fe	many	0	2	poor	49	26	y	y				
											Total	124	101						
											MB	8	-9						
											Droughtiness grade (DR)	2	2						
														USS dense-mottling faint					
														Variably calcareous locally					
														Calc TS, >50% clay, Subgrade 3b					

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7
hard	flint & pebble	

Climate Data	
MDwheat	116
MDpotato	111
FCD	120
AAR	614

Wetness Class Guidelines		II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm		>60cm	<60cm			1,429
SPL within 80cm, gleying at 40-70cm		>39cm	<39cm			Limitation
No SPL but gleying within 40cm		coarse subsoil	I	other cases	II	Grade 1
Maximum depth of auger penetration is <u>underlined</u>						

Site		Depth		Texture	CaCO ₃	Colour	Mottle	abund-	stone%	stone%	Struct-	APwheat	AP potato	Gley	SPL	WC	Wetness	Final	Limiting	
No.		cm					colour	ance	hard	chalk	ure	mm	mm				grade WE	Grade	Factor(s)	
200	T	0	29	hCL	n	10YR4/2			5	0		50	50	n	n	//	3a	3a	WE	
		29	50	hCL	n	10YR5/3			7	0		31	31	n	n					
		50	60	C	n	10YR5/2	Fe	com	10	0	poor	6	12	y	y					
		60	120	C	n	10YR5/1	Fe	many	15	0	poor	36	11	y	y					
		Total									124	104								
		MB									8	-7								
Droughtiness grade (DR)												2	2							
201	T	0	28	hCL	n	10YR4/2			7	0		47	47	n	n	//	3a	3a	WE	
		28	47	C	n	10YR5/4			10	0		28	28	n	n					
		47	70	C	mod	2.5Y5/2	Fe	com	0	3	poor	18	30	y	y					
		70	120	C	calc	10YR5/1	Fe	many	0	3	poor	35	0	y	y					
		Total									127	104								
		MB									11	-7								
Droughtiness grade (DR)												2	2							
202	T	0	25	mCL	n	10YR4/2			10	0		41	41	n	n	//	2	3a	DR	
		25	50	hCL	mod	10YR5/4	Fe	few	15	3		34	34	n	n					
		50	60	hCL	calc	10YR5/3	Fe	few	20	5		8	13	n	n					
		60	120	C	calc	10YR5/1	Fe	many	10	5	poor	38	12	y	y					
		Total									121	99	Locally varied stony subsoils							
		MB									5	-12								
Droughtiness grade (DR)												2	3a							

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	114
MDpotato	107
FCD	118

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>59cm	<59cm			1,404
SPL within 80cm, gleying at 40-70cm	>38cm	<38cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 617

Maximum depth of auger penetration is underlined

62m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abund- ance	stone% hard	stone% chalk	Struct- ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
203	T	0 27	C	mod	10YR4/2		2	0		45	45	n	n	II	2	2	WE
		27 47	C	mod	2.5Y5/3		0	0		32	32	n	n				
		47 80	C	calc	2.5Y5/2	Fe many	0	2	poor	25	30	y	y				
		80 120	C	very	10YR5/1	Fe many	0	3	poor	28	0	y	y				
										Total	130	107					
										MB	16	0					
										Droughtiness grade (DR)	2	2					

Stone types		
%	TA _v	EA _v
Hard	1	0.5
Chalk	10	7

Climate Data	
MDwheat	117
MDpotato	111
FCD	120

AAR 614

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>60cm	<60cm			1,431
SPL within 80cm, gleying at 40-70cm	>39cm	<39cm			Limitation
No SPL but gleying within 40cm	coarse subsoil		/ other cases	//	Grade 1

Maximum depth of auger penetration is underlined

Site No.		Depth cm		Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% Hard	stone% Chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
204	T	0	26	mCL	sli	10YR4/2			10	0		42	42	n	n	/	1	3a	DR
		26	40	mCL	sli	10YR5/6			15	5		18	18	n	n				
		40	120	SCL	calc				20	10	m/poor	62	29	n	n				
										Total	122	89	LSS-Calc gravel						
										MB	5	-22	mCL/SCL						
Droughtiness grade (DR)												2	3a						
205	T	0	28	mCL	mod	10YR4/2			3	0		49	49	n	n	/	1	3a	DR
		28	40	SCL	mod	10YR5/4			15	0		15	15	n	n				
		40	120	SCL	calc				15	0	m/poor	67	36	n	n				
										Total	131	100	mCL/SCL						
										MB	14	-11							
Droughtiness grade (DR)												2	3a						
206	T	0	27	mCL	sli	10YR4/2			7	0		45	45	n	n	/	1	3a	DR
		27	60	hCL	mod	10YR5/4	Fe	few	15	5		38	42	n	n				
		60	120	SCL	calc		Fe	com	20	10	m/poor	45	10	y	n				
										Total	128	97	LSS-Calc gravel						
										MB	11	-14							
Droughtiness grade (DR)												2	3a						
207	T	0	31	hCL	n	10YR4/2			5	0		53	53	n	n	//	3a	3a	WE
		31	65	SC	mod	10YR5/3	Fe,Mn	com	10	0		39	46	y	n				

		65	120	hCL	calc	10YR5/3, 10YR5/4	FeMn,Gr	many	15	5	poor	34	5	y	y				
											Total	127	104			Calc gravel			
											MB	10	-7						
									Droughtiness grade (DR)			2	2						
208	T	0	30	hCL	n	10YR4/2			4	0		52	52	n	n	/	2	2	WE DR
		30	62	hCL	mod	10YR5/4			15	0		38	44	n	n				
		62	120	SCL	calc				20	10		48	8	n	n				
											Total	137	104			LSS-Calc gravel			
											MB	20	-7						
									Droughtiness grade (DR)			2	2						
209	T	0	30	SCL	n	10YR4/2			7	0		47	47	n	n	/	1	3a	DR
		30	50	SCL	n				20	0		24	24	n	n				
		50	120	SCL	n				20	0		57	24	n	n				
											Total	129	95						
											MB	12	-16						
									Droughtiness grade (DR)			2	3a						
210	T	0	28	SCL	n	10YR4/2			7	0		44	44	n	n	/	1	3a	DR
		28	47	SCL	n	10YR4/3			15	0		24	24	n	n				
		47	80	SCL	n				15	0		30	29	n	n				
		80	120	C	n		Fe	com	15	0	poor	24	0	y	y				
											Total	123	98						
											MB	6	-13						
									Droughtiness grade (DR)			2	3a						
211	T	0	26	mCL	n	10YR4/2			8	0		43	43	n	n	/	1	2	DR
		26	60	hCL	n	10YR4/4			8	0		45	50	n	n				
		60	93	hCL	n	10YR5/4	Fe	com	5	0		32	15	n	n				

		93	120	SCL	calc	10YR6/4	Fe	com	5	0		26	0	n	n		
											Total	145	108				
											MB	28	-3				
										Droughtiness grade (DR)		2	2				
212	T	0	27	SCL	n	10YR4/2			7	0		43	43	n	n	/	1
		27	50	SCL	n	10YR4/3			15	0		29	29	n	n		
		50	120	SCL	n				20	0		57	24	n	n		
											Total	129	96				
											MB	12	-15				
										Droughtiness grade (DR)		2	3a				
213	T	0	28	SCL	sli	10YR4/2			5	0		45	45	n	n	/	1
		28	40	SCL	sli	10YR5/4			15	0		15	15	n	n		
		40	120	SCL	mod				20	5	m/poor	63	32	n	n		
											Total	123	92				
											MB	6	-19				
										Droughtiness grade (DR)		2	3a				
214	T	0	26	mCL	sli	10YR4/2			7	0		44	44	n	n	/	1
		26	40	SCL	sli	10YR5/4			15	0		18	18	n	n		
		40	120	SCL	calc				20	5	m/poor	63	32	n	n		
											Total	124	93				
											MB	7	-18				
										Droughtiness grade (DR)		2	3a				
215	T	0	27	mCL	n	10YR4/2			7	0		45	45	n	n	///	3a
		27	50	mCL	n	10YR5/3	Fe	com	10	0		33	33	y	n		
		50	55	hCL	n	10YR5/3	Fe	com	15	0		4	7	y	n		
		55	120	C	mod	10YR6/1	Fe	many	0	0	poor	46	20	y	y		

Dry/stony

											Total	128	105						
											MB	11	-6						
											Droughtiness grade (DR)	2	2						
216	T	0	30	mCL	n	10YR4/2			3	0		52	52	n	n	//	2	2	WE DR
		30	62	mCL	n	10YR5/3	Fe	com	5	0		42	49	y	n				
		62	120	SCL	calc	10YR5/4	Fe	few	5	0		44	10	n	n				
											Total	139	111						
											MB	22	0						
											Droughtiness grade (DR)	2	2						
217	T	0	25	C	n	10YR4/2			1	0		42	42	n	n	///	3b	3b	WE
		25	120	C	n	10YR5/2	Fe	many	0	0	poor	82	59	y	y				
												Total	124	101					
											MB	7	-10						
											Droughtiness grade (DR)	2	3a						
218	T	0	27	mCL	n	10YR4/2			5	0		46	46	n	n	///	3a	3a	WE
		27	50	hCL	n	10YR5/3	Fe	com	10	0		33	33	y	n				
		50	70	C	mod	2.5Y5/2	Fe	com	0	0	poor	14	26	y	y				
		70	120	C	calc	10YR6/1	Fe	many	0	0	poor	35	0	y	y				
											Total	128	105						
											MB	11	-6						
											Droughtiness grade (DR)	2	2						
219	T	0	30	hCL	n	10YR4/2			5	0		51	51	n	n	//	3a	3a	WE
		30	50	hCL	n	10YR5/3	Fe	few	15	0		27	27	n	n				
		50	120	C	mod	10YR5/2	Fe	many	0	0	poor	49	26	y	y				
											Total	128	105	TS mCL/hCL					
											MB	11	-7						

																	Droughtiness grade (DR)		2	2						
220	T	0	30	mCL	n	10YR4/2			7	0		50	50	n	n	///	3a	3a	WE							
		30	40	mCL	n	10YR5/3	Fe	com	10	0		14	14	y	n											
		40	55	hCL	n	10YR5/3	Fe	com	15	0		18	20	y	n											
		55	120	C	mod	10YR6/1	Fe	many	0	0	poor	46	20	y	y											
												Total	128	105												
										MB	11	-6														
																	Droughtiness grade (DR)		2	2						
221	T	0	28	mCL	n	10YR4/2			5	0		48	48	n	n	///	3a	3a	WE							
		28	50	hCL	n	10YR5/3	Fe	com	5	0		33	33	y	n											
		50	70	C	mod	2.5Y5/2	Fe	com	0	0	poor	14	26	y	y											
		70	120	C	calc	10YR6/1	Fe	many	0	0	poor	35	0	y	y											
												Total	130	107												
										MB	13	-4														
																	Droughtiness grade (DR)		2	2						
222	T	0	30	C	n	10YR4/2			2	0		50	50	n	n	//	3a	3a	WE							
		30	52	C	n	10YR5/3			0	0		34	35	n	n											
		52	70	C	n	10YR5/3	Fe	many	0	0	m/poor	14	26	y	y											
		70	120	C	n	2.5Y5/2	Fe	many	10	0	poor	32	0	y	y											
												Total	129	111												
										MB	12	0														
																	Droughtiness grade (DR)		2	2						
223	T	0	29	C	n	10YR4/2			3	0		48	48	n	n	///	3b	3b	WE							
		29	55	C	n	10YR5/3	Fe	com	7	0		35	39	y	n											
		55	65	C	sli	10YR5/2	Fe	many	0	0	poor	7	13	y	y											
		65	120	C	mod	10YR6/1	Fe	many	0	0	poor	39	7	y	y											

															Total			128	106			
															MB			11	-5			
															Droughtiness grade (DR)			2	2			
224	T	0	28	hCL	n	10YR4/2			2	0		49	49	n	n	//	3a	3a	WE			
		28	48	C	sli	2.5Y5/3			0	0		32	32	n	n							
		48	60	C	calc	2.5Y5/3	Fe	many	0	1	poor	10	15	y	y							
		60	120	C	very	10YR5/1	Fe	many	0	2	poor	42	13	y	y							
															Total			133	110			
															MB			16	-1			
															Droughtiness grade (DR)			2	2			
225	T	0	30	hCL	n	10YR4/2			2	0		53	53	n	n	//	3a	3a	WE			
		30	55	C	n	10YR5/3	Fe	few	0	0		36	40	n	n							
		55	120	C	mod	10YR6/1	Fe	many	0	0	poor	46	20	y	y							
																	Total			134	112	dry
															MB			17	1			
															Droughtiness grade (DR)			2	2			
226	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	///	3b	3b	WE			
		28	40	C	sli	10YR5/2	Fe	many	0	0	poor	16	16	y	y							
		40	120	C	mod	10YR6/1	Fe	many	0	0	poor	62	39	y	y							
																	Total			124	101	
															MB			7	-10			
															Droughtiness grade (DR)			2	3a			
227	T	0	30	C	n	10YR4/2			3	0		49	49	n	n	///	3b	3b	WE			
		30	40	C	sli	10YR5/2	Fe	many	0	0	m/poor	15	15	y	n							
		40	120	C	calc	10YR6/1	Fe	many	0	0	poor	62	39	y	y							
																	Total			126	103	

															MB		9	-8				
															Droughtiness grade (DR)		2	2				
228	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	///	3b	3b	WE			
		28	50	C	sli	10YR5//2	Fe	many	0	0	poor	29	29	y	y							
		50	120	C	mod	10YR6/1	Fe	many	0	0	poor	49	26	y	y							
		Total										124	101									
		MB										7	-10									
																	Droughtiness grade (DR)		2	3a		
229	T	0	26	C	sli	10YR4/2			3	0		43	43	n	n	///	3a	3a	WE DR			
		26	55	C	mod	10YR5/2	Fe	many	3	0	poor	34	37	y	y							
		55	120	C	calc	10YR6/1	Fe	many	0	0	poor	46	20	y	y							
		Total										122	99									
		MB										5	-12									
																	Droughtiness grade (DR)		2	3a		
230	T	0	28	hCL	n	10YR4/2			2	0		49	49	n	n	//	3a	3a	WE			
		28	52	C	n	10YR5/3			2	0		36	38	n	n							
		52	120	C	sli	10YR5/2	Fe	many	3	1	poor	47	22	y	y							
		Total										132	109	TS-hCL/C								
		MB										15	-2									
																	Droughtiness grade (DR)		2	2		
231	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	//	3a	3a	WE			
		28	48	C	n	10YR5/4			3	0		31	31	n	n							
		48	80	C	sli	2.5Y5/2	Fe	many	0	2	poor	24	28	y	y							
		80	120	C	calc	10YR5/1	Fe	many	0	5	poor	29	0	y	y							
		Total										130	105	TS-hCL/C								
		MB										13	-6									

															Droughtiness grade (DR)			2	2			
232	T	0	29	hCL	n	10YR4/2			5	0		50	50	n	n	//	3a	3a	WE			
		29	45	hCL	n	10YR5/3			5	0		24	24	n	n							
		45	65	C	n	10YR5/3	Fe	com	2	0		20	31	n	n							
		65	120	C	mod	10YR5/1	Fe	many	0	2	poor	39	6	y	y							
											Total	132	112									
										MB	15	1										
															Droughtiness grade (DR)			2	2			
233	T	0	30	hCL	n	10YR4/2			5	0		51	51	n	n	//	3a	3a	WE			
		30	47	C	n	10YR5/4			5	0		26	26	n	n							
		47	120	C	n	10YR5/1	Fe	many	0	0	poor	53	30	y	y							
											Total	130	107									
											MB	13	-4									
															Droughtiness grade (DR)			2	2			
234	T	0	28	hCL	n	10YR4/2			3	0		49	49	n	n	///	3b	3b	WE			
		28	60	C	n	2.5Y5/2	Fe	many	0	0	poor	36	42	y	y							
		60	120	C	calc	10YR5/1	Fe	many	0	0	poor	42	13	y	y							
											Total	126	103									
											MB	9	-8									
															Droughtiness grade (DR)			2	2			
235	T	0	30	hCL	trace	10YR4/2			3	0		52	52	n	n	///	3b	3b	WE			
		30	45	C	mod	10YR5/1	Fe	many	0	0	poor	20	20	y	y							
		45	120	C	calc	10YR5/1	Fe	many	0	3	poor	56	32	y	y							
											Total	128	103									
											MB	11	-8									
															Droughtiness grade (DR)			2	2			

236	T	0	29	hCL	n	10YR4/2			2	0		51	51	n	n	///	3b	3b	WE
		29	50	C	n	2.5Y5/2	Fe	com	0	0	poor	27	27	y	y				
		50	72	C	mod	2.5Y5/2	Fe	many	0	3	poor	16	25	y	y				
		72	120	C	calc	10YR5/1, N5/0	Fe	many	0	3	poor	34	0	y	y				
												Total	128	104					
										MB	11	-7							
										Droughtiness grade (DR)		2	2						
237	T	0	28	C	n	10YR4/2			2	0		47	47	n	n	///	3b	3b	WE
		28	38	C	n	10YR5/4			0	0		16	16	n	n				
		38	50	C	sli	2.5Y5/2	Fe	many	0	0	poor	16	16	y	y				
		50	70	C	calc	2.5Y5/2	Fe	many	0	3	poor	14	25	y	y				
		70	120	C	calc	10YR5/1	Fe	many	0	3	poor	35	0	y	y				
										Total	128	103							
										MB	11	-8							
										Droughtiness grade (DR)		2	2						
238	T	0	29	C	n	10YR4/2			2	0		48	48	n	n	///	3b	3b	WE
		29	35	C	n	10YR5/3	Fe	few	0	0	m/poor	9	9	n	n				
		35	70	C	mod	2.5Y5/2	Fe	many	0	0	poor	34	46	y	y				
		70	120	C	calc	10YR5/1	Fe	many	0	3	poor	35	0	y	y				
												Total	126	103					
										MB	9	-8							
										Droughtiness grade (DR)		2	2						

Stone types		
%	TA _v	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	119
MDpotato	114
FCD	115

Wetness Class Guidelines		II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm		>58cm	<58cm			1,438
SPL within 80cm, gleying at 40-70cm		>37cm	<37cm			Limitation
No SPL but gleying within 40cm		coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 596

Maximum depth of auger penetration is underlined

Site No.		Depth cm		Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)		
239	T	0	28	C	n	10YR4/2			2	0		47	47	n	n	///	3b	3b	WE		
		28	60	C	sli	10YR5/2	Fe	many	0	0	poor	36	42	y	y						
		60	120	C	mod	10YR5/1	Fe	many	0	0	poor	42	13	y	y						
												Total	124	101							
												MB	5	-13							
												Droughtiness grade (DR)		2	3a						
240	T	0	32	C	n	10YR4/2			2	0		53	53	n	n	///	3b	3b	WE		
		32	55	C	mod	2.5Y5/2	Fe	many	0	2	poor	26	29	y	y						
		55	120	C	calc	10YR5/1	Fe	many	0	2	poor	46	19	y	y						
												Total	126	102							
												MB	7	-12							
												Droughtiness grade (DR)		2	3a						
241	T	0	30	C	n	10YR4/2			2	0		50	50	n	n	///	3b	3b	WE		
		30	75	C	sli	10YR5/2	Fe	many	0	0	poor	44	52	y	y						
		75	120	C	mod	10YR5/1	Fe	many	0	0	poor	32	0	y	y						
												Total	125	102							
												MB	6	-12							
												Droughtiness grade (DR)		2	3a						
242	T	0	31	C	n	10YR4/2			2	0		52	52	n	n	///	3b	3b	WE		
		31	50	C	sli	2.5Y5/2	Fe	many	0	0	poor	25	25	y	y						

		50	120	C	calc	10YR5/1	Fe	many	0	2	poor	49	25	y	y				
											Total	126	102						
											MB	7	-12						
											Droughtiness grade (DR)	2	3a						
243	T	0	28	C	trace	10YR4/2			2	0		47	47	n	n	///	3b	3b	WE
		28	50	C	sli	10YR5/2	Fe	many	0	0	poor	29	29	y	y				
		50	120	C	mod	10YR6/1	Fe	many	0	0	poor	49	26	y	y				
											Total	124	101						
											MB	5	-13						
											Droughtiness grade (DR)	2	3a						
244	T	0	30	C	n	10YR4/2			2	0		50	50	n	n	///	3b	3b	WE
		30	45	C	n	10YR5/2	Fe	many	0	0	poor	20	20	y	y				
		45	55	C	mod	10YR5/2	Fe	many	0	0	poor	10	13	y	y				
		55	120	C	calc	10YR5/1	Fe	many	0	3	poor	46	19	y	y				
											Total	126	101						
											MB	7	-13						
											Droughtiness grade (DR)	2	3a						
245	T	0	26	C	trace	10YR4/2			2	0		43	43	n	n	///	3b	3b	WE
		26	66	C	sli	2.5Y5/2	Fe	many	0	0	poor	42	52	y	y				
		66	120	C	sli	2.5Y5/3	Fe	many	3	0	poor	37	5	y	y				
											Total	123	100						
											MB	4	-14						
											Droughtiness grade (DR)	3a	3a						
246	T	0	30	C	calc	10YR4/2			3	0		49	49	n	n	///	3a	3a	WE DR
		30	54	C	sli	10YR5/3	Fe	com	0	3	m/poor	31	34	y	y				
		54	120	C	very	10YR6/1	Fe	many	0	5	poor	47	20	y	y				

										Total	128	103							
										MB	9	-11							
										Droughtiness grade (DR)	2	3a							
247	T	0	26	C	n	10YR4/2			3	0		43	43	n	n	///	3b	3b	WE
		26	70	C	n	2.5Y5/3	Fe	many	3	0	poor	44	55	y	y				
		70	120	C	calc	10YR6/1	Fe	many	0	2	poor	35	0	y	y				
										Total	122	98							
										MB	3	-16							
										Droughtiness grade (DR)	3a	3a							
248	T	0	24	C	mod	10YR4/2			3	0		40	40	n	n	///	3a	3a	WE DR
		24	56	C	calc	2.5Y5/3	Fe	many	0	3	poor	37	40	y	y				
		56	120	C	calc	10YR6/1	Fe	many	0	5	poor	46	17	y	y				
										Total	122	97							
										MB	3	-17							
										Droughtiness grade (DR)	3a	3a							
249	T	0	23	C	n	10YR4/2			2	0		38	38	n	n	//	3a	3a	WE
		23	66	C	n	2.5Y5/3	Fe	com	2	0		55	67	y	n				
		66	120	C	calc	10YR5/1	Fe	many	0	3	poor	38	5	y	y				
										Total	132	111							
										MB	13	-3							
										Droughtiness grade (DR)	2	2							
250	T	0	27	C	calc	10YR4/2			2	1		45	45	n	n	///	3a	3a	WE DR
		27	37	C	calc	2.5Y5/3	Fe	com	0	0		16	16	y	n				
		37	62	C	calc	2.5Y5/3	Fe	com	0	3	poor	25	32	y	y				
		62	120	C	very	10YR6/1	Fe	many	0	3	poor	41	10	y	y				
										Total	127	102							

											MB	8	-12						
											Droughtiness grade (DR)	2	3a						
251	T	0	26	C	mod	10YR4/2			2	1		43	43	n	n	///	3a	3a	WE DR
		26	55	C	calc	2.5Y5/2	Fe	many	0	2	poor	34	37	y	y				
		55	120	C	calc	10YR6/1	Fe	many	0	2	poor	46	19	y	y				
												Total	123	99					
												MB	4	-15					
											Droughtiness grade (DR)	3a	3a						
252	T	0	25	C	calc	10YR4/2			2	0		42	42	n	n	///	3a	3a	WE DR
		25	55	C	very	2.5Y5/2	Fe	many	2	0	m/poor	39	43	y	y				
		55	120	C	very	10YR6/1	Fe	many	0	3	poor	46	19	y	y				
												Total	127	103					
												MB	8	-11					
											Droughtiness grade (DR)	2	3a						
253	T	0	27	C	n	10YR4/2			2	0		45	45	n	n	///	3b	3b	WE
		27	45	C	n	10YR5/2	Fe	v.many	0	0	poor	23	23	y	y				
		45	120	C	mod	10YR6/1	Fe	many	0	3	poor	56	32	y	y				
												Total	124	100					
												MB	5	-14					
											Droughtiness grade (DR)	2	3a						
254	T	0	28	hCL	n	10YR4/2			2	0		49	49	n	n	///	3b	3b	WE
		28	45	C	sli	10YR5/2	Fe	many	2	0	poor	22	22	y	y				
		45	120	C	calc	10YR6/1	Fe	many	0	2	poor	56	32	y	y				
												Total	127	103					
												MB	8	-11					
											Droughtiness grade (DR)	2	3a						

255	T	0	30	C	n	10YR4/2			2	0		50	50	n	n	///	3b	3b	WE
		30	60	C	n	10YR5/2	Fe	many	0	0	poor	33	39	y	y				
		60	120	C	n	10YR5/1	Fe	many	5	0	poor	40	12	y	y				
											Total	123	101						
											MB	4	-13						
											Droughtiness grade (DR)	3a	3a						
256	T	0	29	C	n	10YR4/2			1	0		49	49	n	n	///	3b	3b	WE
		29	65	C	n	10YR5/2	Fe	many	0	0	poor	38	47	y	y				
		65	120	C	sli	10YR5/1	Fe	many	3	0	poor	38	6	y	y				
											Total	124	102						
											MB	5	-12						
											Droughtiness grade (DR)	2	3a						
257	T	0	27	C	n	10YR4/2			3	0		45	45	n	n	///	3b	3b	WE
		27	50	C	sli	10YR5/1	Fe	many	0	0	poor	30	30	y	y				
		50	120	C	calc	10YR6/1	Fe	many	0	0	poor	49	26	y	y				
											Total	123	100						
											MB	4	-14						
											Droughtiness grade (DR)	3a	3a						
258	T	0	30	C	n	10YR4/2			2	0		50	50	n	n	///	3b	3b	WE
		30	50	C	sli	2.5Y5/2	Fe	many	0	0	poor	26	26	y	y				
		50	120	C	mod	10YR5/1	Fe	many	0	0	poor	49	26	y	y				
											Total	125	102						
											MB	6	-12						
											Droughtiness grade (DR)	2	3a						
259	T	0	29	C	n	10YR4/2			1	0		49	49	n	n	///	3b	3b	WE

		29	120	C	n	10YR5/1	Fe	many	0	0	poor	76	53	y	y				
											Total	125	102						
											MB	6	-12						
										Droughtiness grade (DR)	2	3a							
260	T	0	29	hCL	n	10YR4/2			2	0		51	51	n	n	I-II	3a	3a	WE
		29	70	hCL	n	10YR5/4			10	0		51	59	n	n				
		70	120	C	sli	10YR6/1	Fe	many	0	0	poor	33	0	y	y				
											Total	135	110						
											MB	16	-4						
										Droughtiness grade (DR)	2	2							
261	T	0	24	C	sli	10YR4/2			2	0		40	40	n	n	III	3a	3a	WE DR
		24	50	C	mod	2.5Y5/3	Fe	com	0	3	m/poor	37	37	y	y				
		50	120	C	v.calc	10YR6/1	Fe	many	0	3	poor	50	25	y	y				
											Total	126	102						
											MB	7	-12						
										Droughtiness grade (DR)	2	3a							
262	T	0	30	C	n	10YR4/2			1	0		50	50	n	n	III	3b	3b	WE
		30	52	C	sli	2.5Y5/2	Fe	many	0	0	poor	27	29	y	y				
		52	120	C	mod	10YR5/1	Fe	many	0	0	poor	48	23	y	y				
											Total	125	102						
											MB	6	-12						
										Droughtiness grade (DR)	2	3a							
263	T	0	25	C	n	10YR4/2			1	0		42	42	n	n	III	3b	3b	WE
		25	50	C	n	2.5Y5/2	Fe	many	0	0	poor	33	33	y	y				
		50	120	C	sli	10YR5/1	Fe	many	0	0	poor	49	26	y	y				
											Total	124	101						

										MB	5	-13						
										Droughtiness grade (DR)	2	3a						
264	T	0	30	C	n	10YR4/2			5	0	48	48	n	n	//	3a	3a	WE
		30	50	C	n	2.5Y6/3			0	0	32	32	n	n				
		50	120	C	mod	10YR5/1	Fe	many	0	2	poor	49	25	y	y			
											Total	130	106					
										MB	11	-8						
										Droughtiness grade (DR)	2	2						

Stone types		
%	TA _v	EA _v
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	119
MDpotato	114
FCD	114

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>58cm	<58cm			1,431
SPL within 80cm, gleying at 40-70cm	>37cm	<37cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard flint & pebble

AAR 596

Maximum depth of auger penetration is underlined

Site No.		Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abund-ance	stone% hard	stone% chalk	Struct-ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
265	T	0	28	hCL	n	10YR3/2		5	0		48	48	n	n	II	3a	3a	WE
		28	45	hCL	n	2.5Y5/3	Fe,Mn com	10	0		24	24	y	n				
		<u>45</u>	70	hCL	n	2.5Y5/3	Fe,Mn com	15	0		24	34	y	n				
		70	120	C	n	10YR5/2	Fe com	20	0	m/poor	31	0	y	y				
										Total	127	106						
										MB	8	-8						
										Droughtiness grade (DR)	2	2						
266	T	0	28	hCL	n	10YR3/2		12	0		44	44	n	n	II	3a	3a	WE DR
		28	45	hCL	n	10YR5/4		15	0		23	23	n	n				
		<u>45</u>	70	hCL	n	10YR5/3	Fe com	20	0		23	32	y	n				
		70	120	C	n	10YR5/2	Fe com	20	0	m/poor	31	0	y	y				
										Total	121	99						
										MB	2	-15						
										Droughtiness grade (DR)	3a	3a						
267	T	0	30	C	n	10YR4/2		2	0		50	50	n	n	III	3b	3b	WE
		30	60	C	n	10YR5/1	Femn v.many	0	0	poor	33	39	y	y				
		60	120	C	n	10YR5/1	Fe many	0	1	poor	42	13	y	y				
										Total	125	102						
										MB	6	-12						
										Droughtiness grade (DR)	2	3a						

268	T	0	29	C	n	10YR4/2			3	0		48	48	n	n	///	3b	3b	WE
		29	120	C	n	10YR5/1	Fe	many	5	0	poor	73	51	y	y				
											Total	121	98						
											MB	2	-16						
											Droughtiness grade (DR)	3a	3a						
269	T	0	29	C	n	10YR4/2			2	0		48	48	n	n	///	3b	3b	WE
		29	45	C	n	10YR5/2	Fe	many	0	1	poor	21	21	y	y				
		45	120	C	n	2.5Y5/2	Fe	com	0	0	poor	56	33	y	y				
											Total	124	101						
											MB	5	-13						
											Droughtiness grade (DR)	2	3a						
270	T	0	30	hCL	trace	10YR4/2			5	0		51	51	n	n	///	3b	3b	WE
		30	50	C	calc	2.5Y5/2	Fe	many	0	2	poor	25	25	y	y				
		50	120	C	calc	10YR5/1	Fe	many	0	5	poor	50	25	y	y				
											Total	127	101						
											MB	8	-13						
											Droughtiness grade (DR)	2	3a						
271	T	0	29	C	n	10YR4/2			2	0		48	48	n	n	///	3b	3b	WE
		29	57	C	mod	2.5Y5/1	Fe	many	0	1	poor	32	36	y	y				
		57	120	C	calc	10YR5/1	Fe	many	0	3	poor	45	16	y	y				
											Total	125	101						
											MB	6	-13						
											Droughtiness grade (DR)	2	3a						
272	T	0	26	mCL	n	10YR4/2			15	0		40	40	n	n	//	2	3a	DR
		26	40	SCL	n	7.5YR4/4			30	0		15	15	n	n				
		40	65	SCL	n	7.5YR4/4			30	0		21	26	n	n				

		65	120	C	n	10YR5/1	Fe	many	0	0	poor	39	7	y	y				
											Total	114	87						
											MB	-5	-27						
											Droughtiness grade (DR)	3a	3a						
273	T	0	29	C	trace	10YR4/2			2	0		48	48	n	n	///	3b	3b	WE
		29	65	C	sli	10YR5/2	Fe	many	0	0	poor	38	47	y	y				
		65	120	C	calc	10YR6/1	Fe	many	0	1	poor	39	6	y	y				
											Total	125	102						
											MB	6	-12						
											Droughtiness grade (DR)	2	3a						
274	T	0	27	C	n	10YR4/2			2	0		45	45	n	n	///	3b	3b	WE
		27	60	C	n	10YR5/1	Fe	many	0	0	poor	37	43	y	y				
		60	120	C	calc	10YR6/1	Fe	many	0	0	poor	42	13	y	y				
											Total	124	101						
											MB	5	-13						
											Droughtiness grade (DR)	2	3a						
275	T	0	28	C	n	10YR4/2			2	0		47	47	n	n	///	3b	3b	WE
		28	50	C	n	10YR5/1	Fe	many	0	0	poor	29	29	y	y				
		50	120	C	v.sli	N5/1	Fe	many	0	0	poor	49	26	y	y				
											Total	124	101						
											MB	5	-13						
											Droughtiness grade (DR)	2	3a						
276	T	0	28	C	n	10YR4/2			2	0		47	47	n	n	///	3b	3b	WE
		28	50	C	n	10YR5/2	Fe	many	0	0	poor	29	29	y	y				
		50	120	C	v.sli	N5/1	Fe	many	0	0	poor	49	26	y	y				
											Total	124	101						

																	MB	5	-13
																	Droughtiness grade (DR)	2	3a
277	T	0	30	C	trace	10YR4/2			2	0		50	50	n	n	///	3b	3b	WE
		30	74	C	sli	2.5Y5/2	Fe	many	0	0	poor	43	52	y	y				
		74	120	C	calc	10YR5/1	Fe	many	0	3	poor	33	0	y	y				
											Total	125	102						
											MB	6	-12						
											Droughtiness grade (DR)	2	3a						
278	T	0	30	C	trace	10YR4/2			5	0		48	48	n	n	//	3a	3a	WE
		30	50	C	mod	10YR5/3			0	2		31	31	n	n				
		50	120	C	calc	10YR5/1	Fe	com	0	5	poor	50	25	y	y				
											Total	130	105						
											MB	11	-9						
											Droughtiness grade (DR)	2	2						
279	T	0	29	C	n	10YR4/2			3	0		48	48	n	n	//	3a	3a	WE
		29	57	C	n	2.5Y5/3	Fe	few	0	2		39	44	n	n				
		57	120	C	v.sli	N4/0	Fe	many	0	5	poor	45	16	y	y				
											Total	131	108						
											MB	12	-6						
											Droughtiness grade (DR)	2	2						
280	T	0	30	C	n	10YR4/2			3	0		49	49	n	n	///	3b	3b	WE
		30	48	C	n	10YR5/3	Femn	com	0	0	m/poor	26	26	y	y				
		48	120	C	v.sli	10YR5/1	Fe	many	0	2	poor	52	28	y	y				
											Total	128	104						
											MB	9	-10						
											Droughtiness grade (DR)	2	3a						

281	T	0	28	C	sli	10YR4/2			3	0		46	46	n	n	//	2	2	WE DR		
		28	40	C	calc	2.5Y5/3	Fe	com	0	7		18	18	y	n						
		40	72	C	very	10YR5/4			0	10		32	43	n	n						
		72	120	C	very	2.5Y5/2	Fe	com	0	10	poor	35	0	y	y						
												Total	132	107							
												MB	13	-7							
												Droughtiness grade (DR)		2	2						
282	T	0	27	C	n	10YR4/2			2	0		45	45	n	n	//	3a	3a	WE		
		27	52	C	sli	10YR5/4			0	3		37	39	n	n						
		52	120	C	calc	10YR5/2	Fe	many	0	10	poor	50	21	y	y						
												Total	132	105							
												MB	13	-9							
														Droughtiness grade (DR)		2	2				
283	T	0	26	C	sli	10YR4/2			3	2		42	42	n	n	//	2	2	WE DR		
		26	70	C	calc	10YR5/3	Fe	com	0	5		53	67	y	n						
		70	120	C	very	2.5Y5/3	Fe	com	0	15	m/poor	39	0	y	y						
												Total	134	109							
												MB	15	-5							
														Droughtiness grade (DR)		2	2				
284	T	0	33	hCL	n	10YR4/2			3	0		58	58	n	n	//	3a	3a	WE		
		33	50	hCL	n	10YR5/3	Fe	few	3	0		26	26	n	n						
		50	120	C	n	10YR5/2	Fe	many	5	0	poor	47	25	y	y						
												Total	131	109							
												MB	12	-5							
														Droughtiness grade (DR)		2	2				

285	T	0	28	hCL	n	10YR4/2			2	0		49	49	n	n	/	2	2	WE DR
		28	70	hCL	n	7.5YR4/4	Mn	few	10	0		50	60	n	n				
		70	120	hCL	n	7.5YR4/6			13	0		44	0	n	n				
		Total										143	110						
		MB										24	-4						
Droughtiness grade (DR)										2	2								
286	T	0	28	C	n	10YR4/2			2	0		47	47	n	n	///	3b	3b	WE
		28	73	C	sli	10YR5/2	Fe	many	0	0	poor	45	55	y	y				
		73	120	C	calc	10YR6/1	Fe	many	0	3	poor	33	0	y	y				
		Total										125	101	Soil boundary					
		MB										6	-13						
Droughtiness grade (DR)										2	3a								
287	T	0	27	C	n	10YR4/2			2	0		45	45	n	n	///	3b	3b	WE
		27	56	C	sli	10YR5/3	Fe	com	0	0		42	46	y	n				
		56	120	C	calc	10YR5/1	Fe	many	0	3	poor	45	18	y	y				
		Total										132	109	Soil boundary					
		MB										13	-5						
Droughtiness grade (DR)										2	2								
288	T	0	30	C	n	10YR4/2			5	0		48	48	n	n	///	3b	3b	WE
		30	61	C	sli	10YR5/3	Fe	many	0	0	poor	34	40	y	y				
		61	120	C	calc	10YR5/1	Fe	many	0	2	poor	42	11	y	y				
		Total										124	100	Soil boundary					
		MB										5	-14						
Droughtiness grade (DR)										2	3a								
289	T	0	27	C	sli	10YR4/2			3	2		44	44	n	n	//	2	2	WE DR
		27	70	C	calc	2.5Y5/3	Fe	few	0	10		50	62	n	n				

70	120	C	very	10YR5/2	Fe	many	0	15	poor	37	0	y	y
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Total	130	106
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MB	11	-8
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Droughtiness grade (DR)	2	2
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290	T	0	27	C	mod	10YR4/2		5	2		43	43	n	n	//	2	2	WE DR
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		27	57	C	very	2.5Y5/3		0	2		42	47	n	n				
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		57	120	C	very	2.5Y5/2	Fe	com	0	10	poor	46	15	y	y			
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Total	130	105
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MB	11	-9
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Droughtiness grade (DR)	2	2
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291	T	0	26	C	mod	10YR4/2		3	0		43	43	n	n	//	2	2	WE DR
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		26	59	C	very	2.5Y5/3	Fe	com	0	3		45	51	y	n			
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		59	120	C	very	10YR5/2	Fe	many	0	7	poor	44	13	y	y			
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Total	131	107
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MB	12	-7
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Droughtiness grade (DR)	2	2
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Stone types		
%	TAv	EAv
Hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	121
MDpotato	117
FCD	107

AAR 583

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>56cm	<56cm			1,438 D°
SPL within 80cm, gleying at 40-70cm	*only				Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

Maximum depth of auger penetration is underlined

32m

Site No.		Depth cm		Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% Hard	stone% chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
292	T	0	28	hCL	n	10YR3/2			1	0		50	50	n	n	I	2	2	WE DR
		28	58	hCL	n	10YR5/4			1	0		43	48	n	n				
		58	120	mCL	n	10YR5/6	Mn	com	2	0		61	19	n	n				
											Total	154	116						
											MB	33	-1						
									Droughtiness grade (DR)			1	2						
293	T	0	26	hCL	sli	10YR3/2			3	1		45	45	n	n	II	2	2	WE DR
		26	50	C	sli	10YR4/4			3	1		37	37	n	n				
		50	60	C	very	2.5Y5/3	Fe	com	0	10	m/poor	7	14	y	n				
		60	120	C	very	2.5Y5/2	Fe	com	0	12	poor	42	13	y	y				
											Total	132	109						
											MB	11	-8						
									Droughtiness grade (DR)			2	2						
294	T	0	25	hCL	sli	10YR4/2			2	0		44	44	n	n	II	2	2	WE DR
		25	68	C	mod	10YR5/3	Mn	few	3	0		53	67	n	n				
		68	120	C	very	2.5Y5/2	Fe,Mn	com	0	10	poor	36	3	y	y				
											Total	133	114						
											MB	12	-3						
									Droughtiness grade (DR)			2	2						
295	T	0	25	hCL	trace	10YR3/2			2	0		44	44	n	n	II	3a	3a	WE

USS-some loamy lenses

25	48	C	mod	10YR5/4	Mn	few	0	2		37	37	n	n		
48	56	hCL	mod	10YR4/6	Mn	com	0	0		9	13	n	n		
56	120	C	very	2.5Y5/2	Fe	com	0	7	poor	45	18	y	y		
Total										135	111				
MB										14	-6				
Droughtiness grade (DR)										2	2				

296	T	0	24	mCL	n	10YR4/2				1	0	43	43	n	n	/	1	2	DR
		24	70	mCL	n	10YR5/4				2	0	60	72	n	n				
		70	120	mCL	n	10YR5/4				1	0	50	0	n	n				
Total										153	115	LSS-some sand lenses							
MB										32	-2								
Droughtiness grade (DR)										1	2								

297	T	0	29	hCL	n	10YR4/2				2	0	51	51	n	n	I-II	3a	3a	WE
		29	50	hCL	sli	10YR5/3	Fe	com		3	0	33	33	y	n				
		50	70	hCL	very	10YR6/3	Fe	few		0	15	19	30	n	n				
		<u>70</u>	100	hCL	very	10YR6/3	Fe	few		0	15	29	0	n	n				
		100	120	C	very	2.5Y5/2	Fe	com		0	15	poor	14	0	y	y			
Total										146	114	50+ Chalky loam USS mottling faint/locally varied							
MB										25	-3								
Droughtiness grade (DR)										2	2								

298	T	0	30	hCL	sli	10YR4/2				5	2	51	51	n	n	//	2	2	WE DR
		30	63	hCL	sli	10YR5/3				5	2	43	50	n	n				
		63	120	C	calc	10YR5/2	Fe	many		2	5	poor	39	9	y	y			
Total										133	110								
MB										12	-7								
Droughtiness grade (DR)										2	2								

299	T	0	29	hCL	n	10YR4/2			2	0	51	51	n	n	//	3a	3a	WE				
		29	45	hCL	n	10YR5/3	Fe,Mn	com	5	0	24	24	y	n								
		45	65	C	n	10YR5/3	Fe,Mn	com	10	0	18	29	y	n								
		65	120	C	very	10YR5/2	Fe	many	5	5	poor	37	6	y	y							
								Total			130	111										
						MB			9	-6												
						Droughtiness grade (DR)					2	2										
300	T	0	27	hCL	trace	10YR4/2			2	0	48	48	n	n	//	3a	3a	WE				
		27	60	hCL	calc	10YR6/3			7	7	43	48	n	n								
		60	120	C	very	10YR5/2	Fe	many	5	10	poor	40	12	y	y							
								Total			130	108										
								MB			9	-9										
						Droughtiness grade (DR)					2	2										
301	T	0	28	hCL	trace	10YR4/2			3	0	49	49	n	n	/-//	3a	3a	WE				
		28	68	C	sli	10YR5/3	Fe,Mn	com	3	0	48	62	y	n								
		68	83	C	very	10YR6/3			0	12	12	3	n	n								
		83	120	C	very	10YR5/2	Fe	many	0	15	poor	26	0	y	y							
								Total			135	114	USS mottling faint/locally varied									
						MB			14	-3												
						Droughtiness grade (DR)					2	2										
302	T	0	28	hCL	n	10YR4/2			3	0	49	49	n	n	//	3a	3a	WE				
		28	40	C	n	10YR5/3	Fe	com	0	0	19	19	y	n								
		40	62	C	mod	10YR5/3	Fe	com	0	2	25	35	y	n								
		62	120	C	very	10YR5/1	Fe	com	0	10	poor	41	10	y	y							
								Total			134	113										
						MB			13	-4												
						Droughtiness grade (DR)					2	2										

303	T	0	27	hCL	n	10YR4/2			2	0		48	48	n	n	I-II	3a	3a	WE
		27	45	hCL	n	10YR4/3			3	0		28	28	n	n				
		45	70	C	mod	10YR5/3			10	0		22	36	n	n				
		70	120	C	very	10YR5/2	Fe	com	0	10	poor	35	0	y	y				
											Total	132	112						
											MB	11	-5						
											Droughtiness grade (DR)	2	2						
304	T	0	28	hCL	sli	10YR4/3			2	0		49	49	n	n	I	2	2	WE DR
		28	70	hCL	sli	10YR4/3	patches	red	2	0		54	66	n	n				
		70	120	hCL	mod	10YR5/4			0	2		50	0	n	n				
											Total	153	115						
											MB	32	-2						
											Droughtiness grade (DR)	1	2						
305	T	0	29	hCL	n	10YR4/3			3	0		51	51	n	n	I	2	2	WE DR
		29	45	hCL	n	10YR6/4			0	0		26	26	n	n				
		45	80	hCL	calc	10YR6/4			0	5		37	39	n	n				
		80	120	C	calc	10YR5/4			0	10		32	0	n	n				
											Total	145	116						
											MB	24	-1						
											Droughtiness grade (DR)	2	2						
306	T	0	28	hCL	trace	10YR4/2			1	0		50	50	n	n	II	3a	3a	WE
		28	62	C	calc	2.5Y5/2			0	3		44	54	n	n				
		62	70	C	very	2.5Y5/2	Fe	com	0	10	poor	6	10	y	y				
		70	120	C	very	2.5Y5/2	Fe	com	0	10	poor	35	0	y	y				
											Total	135	114						
											MB	14	-3						

Droughtiness grade (DR)										2	2								
307	T	0	30	hCL	trace	10YR4/2				2	0	53	53	n	n	//	3a	3a	WE
		30	57	C	calc	2.5Y5/3				0	5	37	42	n	n				
		57	120	C	very	2.5Y5/2	Fe	com		0	10	poor	44	17	y	y			
											Total	134	112						
											MB	13	-5						
Droughtiness grade (DR)										2	2								
308	T	0	30	hCL	mod	10YR4/3				3	2	52	52	n	n	/	2	2	WE DR
		30	62	hCL	calc	10YR5/3				0	2	44	51	n	n				
		62	120	hCL	n	10YR5/4				0	0	58	13	n	n				
											Total	154	116						
											MB	33	-1						
Droughtiness grade (DR)										1	2								
309	T	0	28	hCL	mod	10YR4/2				3	2	49	49	n	n	//	2	2	WE DR
		28	40	C	calc	2.5Y5/4				0	3	19	19	n	n				
		40	63	C	very	2.5Y5/3				0	7	26	36	n	n				
		63	120	C	very	2.5Y5/2	Fe	com		2	10	m/poor	42	10	y	y			
											Total	135	113						
										MB	14	-4							
Droughtiness grade (DR)										2	2								
310	T	0	27	hCL	trace	10YR4/2				3	0	47	47	n	n	/	2	2	WE DR
		27	52	hCL	sli	10YR5/3				3	0	38	39	n	n				
		52	75	C	sli	10YR5/3				5	0	18	27	n	n				
		75	80	C	sli	10YR5/3				10	0	4	0	n	n				
		80	120	C	sli	10YR5/3				10	0	29	0	n	n				
										Total	135	114							

										MB	14	-3						
										Droughtiness grade (DR)	2	2						
311	T	0	26	hCL	mod	10YR3/2			2	0	46	46	n	n	//	2	2	WE DR
		26	68	hCL	calc	2.5Y5/3			0	3	56	66	n	n				
		68	75	C	very	2.5Y5/3	Fe	com	0	10	m/poor	5	3	y	y			
		75	120	C	very	2.5Y5/2	Fe	com	0	15	poor	32	0	y	y			
											Total	138	115					
										MB	17	-2						
										Droughtiness grade (DR)	2	2						
312	T	0	29	hCL	sli	10YR3/2			2	0	51	51	n	n	/	2	2	WE DR
		29	50	C	very	10YR6/3			0	10	32	32	n	n				
		50	75	C	very	10YR6/3			0	15	20	30	n	n				
		75	120	C	very	2.5Y5/2	Fe	com	0	15	poor	32	0	y	y			
											Total	135	114					
										MB	14	-3						
										Droughtiness grade (DR)	2	2						
313	T	0	29	hCL	mod	10YR3/2			3	0	51	51	n	n	/	2	2	WE DR
		29	75	C	very	2.5Y5/3			0	5	53	64	n	n				
		75	85	C	very	2.5Y5/2	Fe	com	0	7	poor	7	0	y	y			
		85	120	C	very	2.5Y5/2	Fe	com	0	15	poor	25	0	y	y			
											Total	135	115					
										MB	14	-2						
										Droughtiness grade (DR)	2	2						
314	T	0	28	hCL	mod	10YR3/2			1	0	50	50	n	n	I-II	2	2	WE DR
		28	50	C	calc	2.5Y5/3	Mn	com	0	5	35	35	n	n				
		50	70	C	calc	2.5Y5/3	Mn	com	0	10	16	31	n	n				

70	120	C	very	2.5Y5/2	Fe	com	0	10	poor	35	0	y	y
----	-----	---	------	---------	----	-----	---	----	------	----	---	---	---

Total	135	115
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MB	14	-2
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Droughtiness grade (DR)	2	2
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315	T	0	30	hCL	calc	10YR4/2	3	0	52	52	n	n	/	2	2	WE DR
-----	---	---	----	-----	------	---------	---	---	----	----	---	---	---	---	---	-------

		30	50	hCL	calc	10YR5/4	0	3	32	32	n	n				
--	--	----	----	-----	------	---------	---	---	----	----	---	---	--	--	--	--

		50	70	hCL	very	10YR6/4	0	7	20	31	n	n				
--	--	----	----	-----	------	---------	---	---	----	----	---	---	--	--	--	--

		70	120	hCL	very	10YR6/4	0	15	48	0	n	n				
--	--	----	-----	-----	------	---------	---	----	----	---	---	---	--	--	--	--

Total	151	115
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MB	30	-2
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Droughtiness grade (DR)	1	2
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316	T	0	26	hCL	calc	10YR4/2	2	0	46	46	n	n	/	2	2	WE DR
-----	---	---	----	-----	------	---------	---	---	----	----	---	---	---	---	---	-------

		26	120	hCL	calc	10YR5/4	0	2	108	70	n	n				
--	--	----	-----	-----	------	---------	---	---	-----	----	---	---	--	--	--	--

Total	154	116
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MB	33	-1
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Droughtiness grade (DR)	1	2
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317	T	0	29	hCL	calc	10YR4/2	3	0	51	51	n	n	/	2	2	WE DR
-----	---	---	----	-----	------	---------	---	---	----	----	---	---	---	---	---	-------

		29	50	hCL	very	10YR5/4	0	0	34	34	n	n				
--	--	----	----	-----	------	---------	---	---	----	----	---	---	--	--	--	--

		50	55	hCL	very	10YR5/4	0	5	5	8	n	n				
--	--	----	----	-----	------	---------	---	---	---	---	---	---	--	--	--	--

		55	120	hCL	very	10YR5/4	0	10	63	23	n	n				
--	--	----	-----	-----	------	---------	---	----	----	----	---	---	--	--	--	--

Total	152	115
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MB	31	-2
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Droughtiness grade (DR)	1	2
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318	T	0	28	hCL	calc	10YR4/2	2	0	49	49	n	n	/	2	2	WE DR
-----	---	---	----	-----	------	---------	---	---	----	----	---	---	---	---	---	-------

		28	65	hCL	very	10YR5/6	0	3	50	59	n	n				
--	--	----	----	-----	------	---------	---	---	----	----	---	---	--	--	--	--

		65	120	hCL	very	10YR5/6	0	7	54	8	n	n				
--	--	----	-----	-----	------	---------	---	---	----	---	---	---	--	--	--	--

															Total			153	116			
															MB			32	-1			
															Droughtiness grade (DR)			1	2			
319	T	0	30	hCL	mod	10YR4/2			3	0		52	52	n	n	/	2	2	WE DR			
		30	50	hCL	mod	10YR5/6			0	5		31	31	n	n							
		50	80	hCL	calc	10YR5/6			0	10		29	31	n	n							
		80	120	C	very	10YR5/2	Fe,Mn	com	0	15	poor	28	0	y	y							
															Total			141	115			
															MB			20	-2			
															Droughtiness grade (DR)			2	2			
320	T	0	30	hCL	n	10YR4/2			3	0		52	52	n	n	/	2	2	WE DR			
		30	80	hCL	n	10YR5/4			3	0		60	62	n	n							
		80	120	C	calc	10YR5/2	Fe,Mn	many	0	5	poor	28	0	y	y							
																Total			141	115		
															MB			20	-2			
															Droughtiness grade (DR)			2	2			
321	T	0	30	hCL	mod	10YR4/2			3	0		52	52	n	n	/	2	2	WE DR			
		30	45	hCL	mod	10YR5/2			3	2		23	23	n	n							
		45	60	mCL	calc	10YR5/6			0	5		18	24	n	n							
		60	80	hCL	calc	10YR5/6			0	7		20	16	n	n							
		80	120	C	very	10YR5/2	Fe,Mn	com	0	15	poor	28	0	y	y							
															Total			141	115			
															MB			20	-2			
															Droughtiness grade (DR)			2	2			
322	T	0	30	hCL	mod	10YR3/2			2	0		53	53	n	n	/	2	2	WE DR			
		30	65	hCL	calc	10YR5/3			0	3		47	55	n	n							

65	80	hCL	calc	2.5Y5/4			0	7		15	8	n	n		
<u>80</u>	120	C	very	10YR5/2	Fe,Mn	com	0	15	poor	28	0	y	y		
										Total	142	116			
										MB	21	-1			
										Droughtiness grade (DR)	2	2			

323	T	0	29	hCL	mod	10YR3/2		5	0		50	50	n	n	/	2	2	WE DR
		29	60	hCL	calc	10YR5/4		0	5		43	49	n	n				
		60	65	hCL	calc	10YR6/4		0	10		5	8	n	n				
		65	80	hCL	calc	10YR6/4		0	15		14	8	n	n				
		80	120	C	very	10YR5/2	Fe,Mn	com	0	15	poor	28	0	y	y			
											Total	140	114					
											MB	19	-3					
										Droughtiness grade (DR)		2	2					

Appendix 3: Soil pit profile descriptions and photographs

Pit 1		Description (in winter wheat)
Ap	0-28 cm	Dark greyish brown (2.5Y4/2) heavy clay loam with 6-10% hard small and medium sized stones. Friable breaking into coarse to fine subangular fragments with much root. Slightly calcareous.
A/B	28-38 cm	Tongues of topsoil in subsoil (described below). Earthworms present and roots. Loose mixture of firm medium subangular blocks and friable darker soil.
Bw	38-45 cm	Olive-yellow (2.5Y6/8) clay, unmottled. Moderate firm medium subangular blocks. 6-10% stones. Slightly calcareous.
BC(g)	45-60 cm	Clay with flints and some chalk. Light grey (5Y7/2) clay with brown (2.5Y6/8) mottles. Friable moderate medium subangular blocky structure; biopores. Very calcareous
BCg	60-100 cm	Pale brown (2.5Y7/4) changing to grey (N6/0) clay with iron mottles. Dense (slowly permeable.)

Geology: Glacial Till capped with stonier loamier material.

Comment: well-structured topsoil and upper subsoil with good water supply to crops. Drainage impedance in lower subsoil only. Wetness Class is II. ALC Grade is 2 (Wetness and droughtiness).

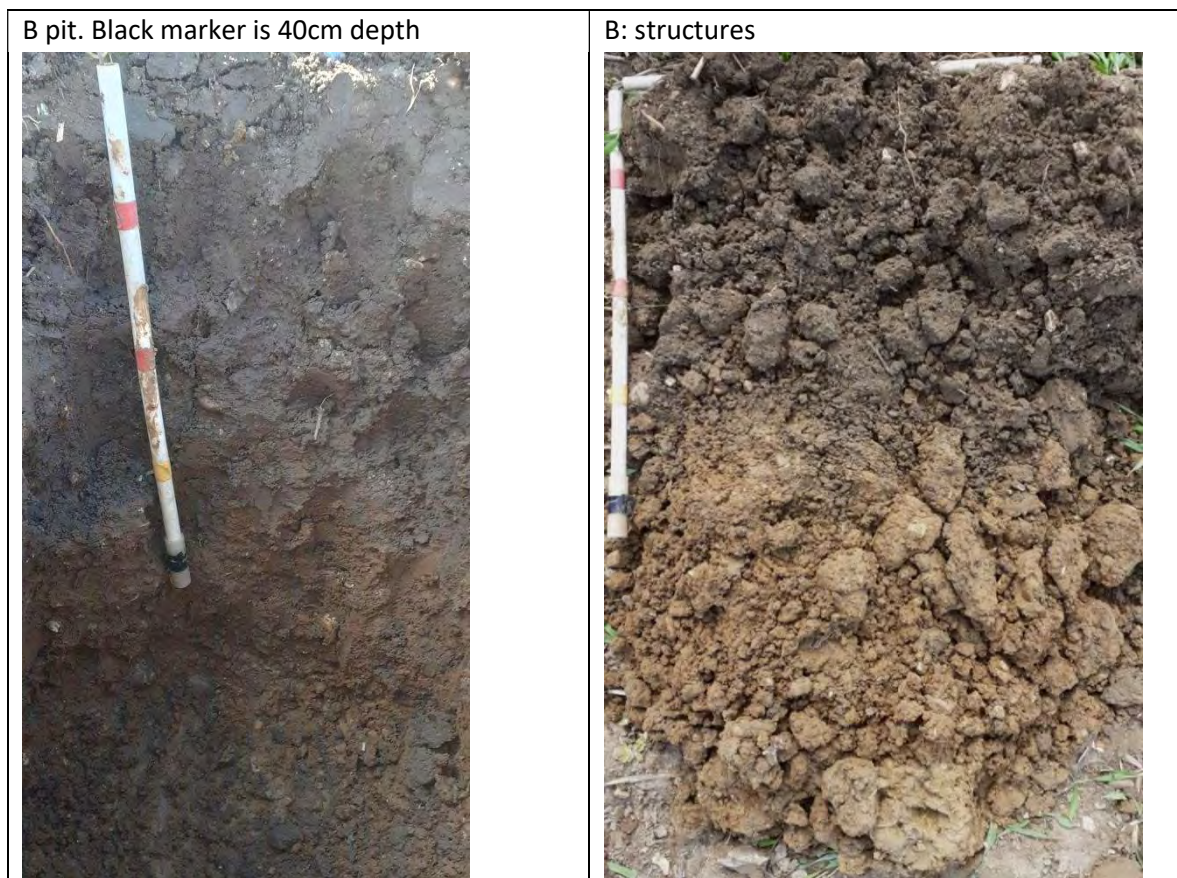


Porous aggregates in upper and lower subsoil

Pit 2		Description (in spring cereal)
Ap	0-30 cm	Dark greyish brown (2.5Y4/2) medium clay loam with 6-10% hard small and medium sized stones. Very friable breaking into medium and fine subangular fragments. Non-calcareous.
A/Eb	30-38 cm	Tongues of topsoil in subsoil (see below). Earthworms and roots. Friable medium subangular blocks and darker soil.
Ebg	38-60 cm	Pale brown (2.5Y5/3) heavy clay loam with many fine red mottles and organic matter (earthworm channels). Well-developed structure (falls off spade) medium subangular blocky. ~15% stones. Non-calcareous.
Btg	60-72 cm	2.5Y6/4 stony loamy clay with common mottles. Moderately developed medium to coarse angular blocky structure, biopores and fine root. Water enters pit at 65cm. Non-calcareous.
BCg	72-100 cm	Greyish olive (2.5Y6/2) stoneless clay (slowly permeable).

Geology: River Terrace Deposits on Oxford Clay.

Comment: the upper subsoil has good structure and the drainage impedance occurs deeper than 60cm depth, so Wetness Class is II. ALC Grade is 2 (Wetness and droughtiness).





Pit 3 overview



Unmottled clay upper subsoil



Slowly permeable clay lower subsoil



Pit 4 overview



Sandy clay loam topsoil



Friable sandy clay loam upper subsoil



Friable sandy clay loam lower subsoil



Pit 5 overview



Clay topsoil



Mottled upper subsoil clay between 30-40cm



Lower subsoil dense grey clay



Pit 7 overview



Clay topsoil



Unmottled friable clay upper subsoil



Dense grey clay lower subsoil



Pit 8 overview



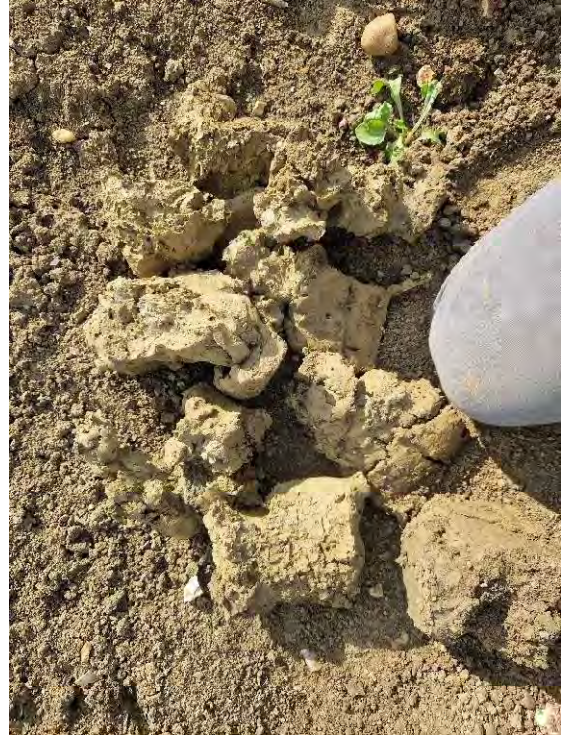
Unmottled, upper subsoil clay with calcareous stone



Upper subsoil clay with calcareous stone



Pit 9 overview



Plastic coarse upper subsoil



Grey, mottled upper subsoil



Upper subsoil auger arisings at 157/pit 9



Pit 10 overview



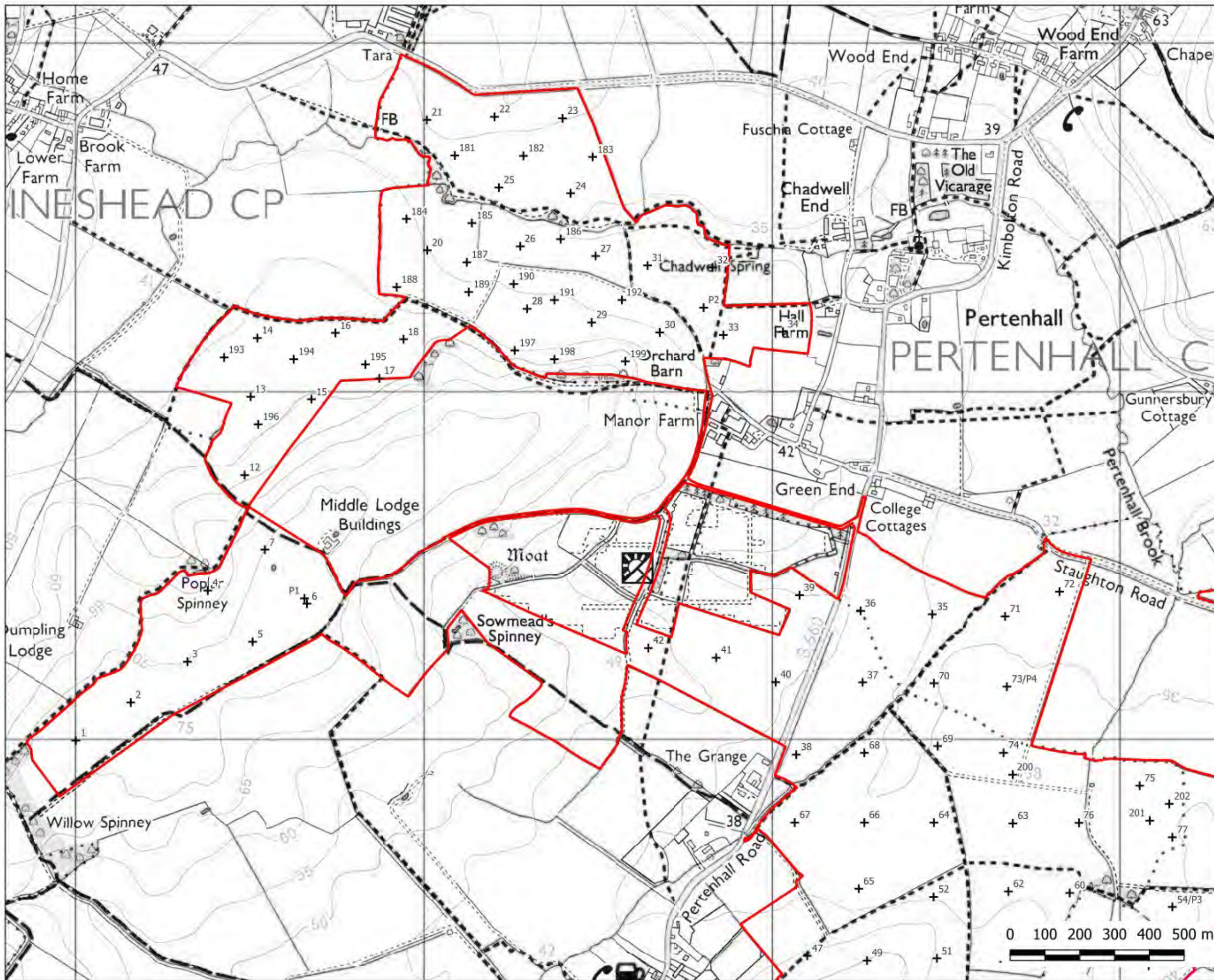
Topsoil arisings



Upper subsoil arisings



Grey, mottled upper subsoil



**Observations 8-11, 19, 44-46 & 179-180 removed from scope and are not mapped.

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 - + P Pit
 - Scheme boundary

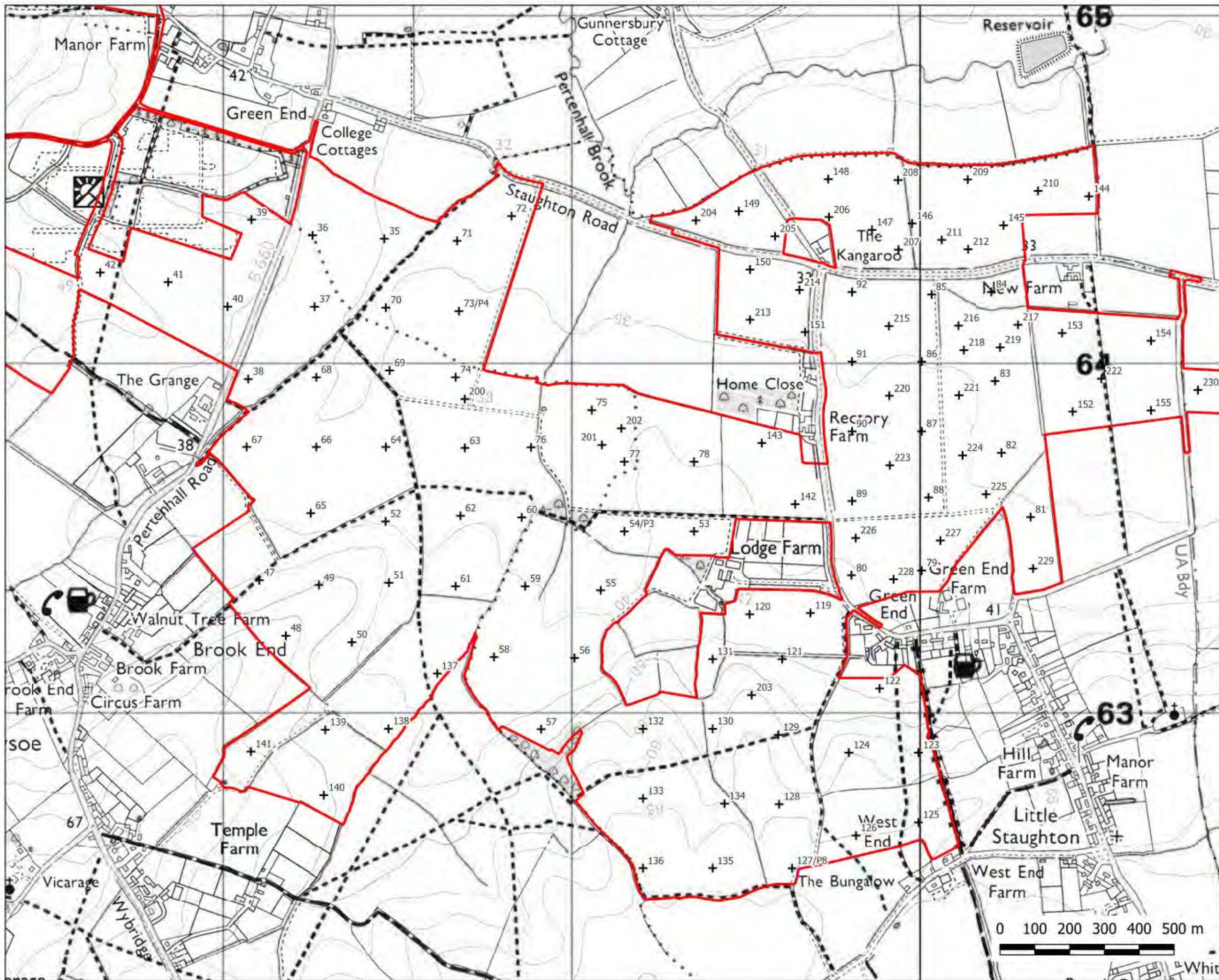
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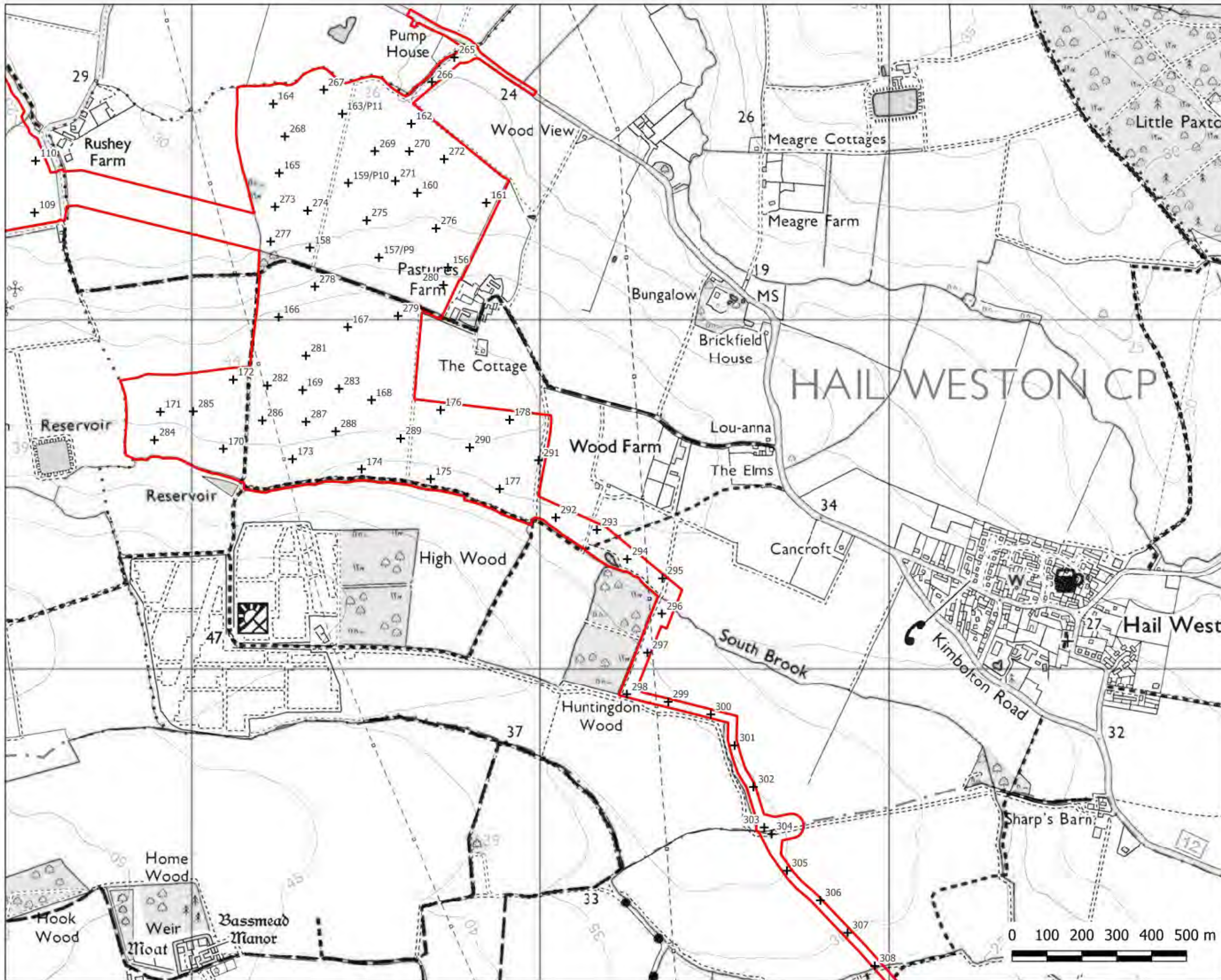
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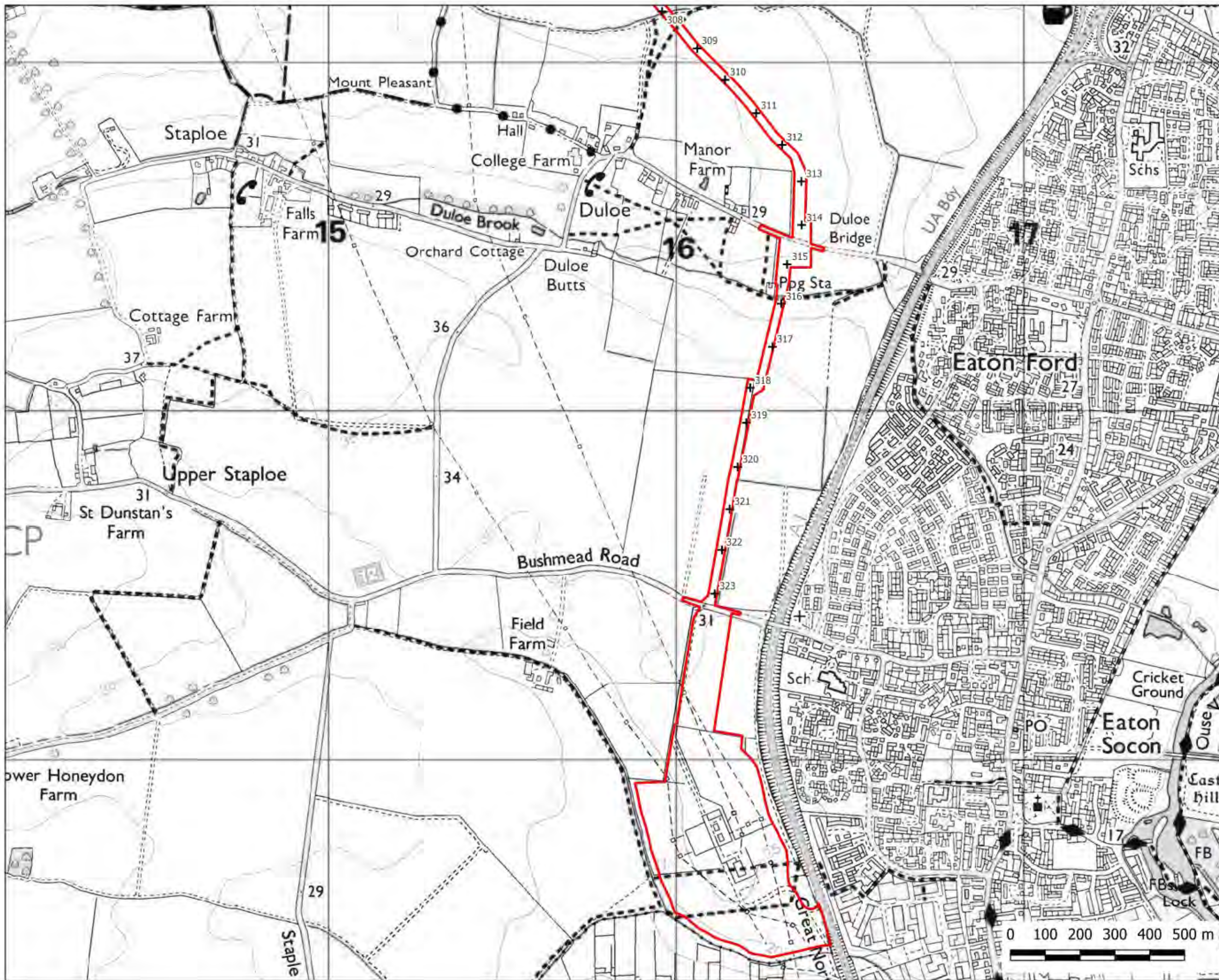
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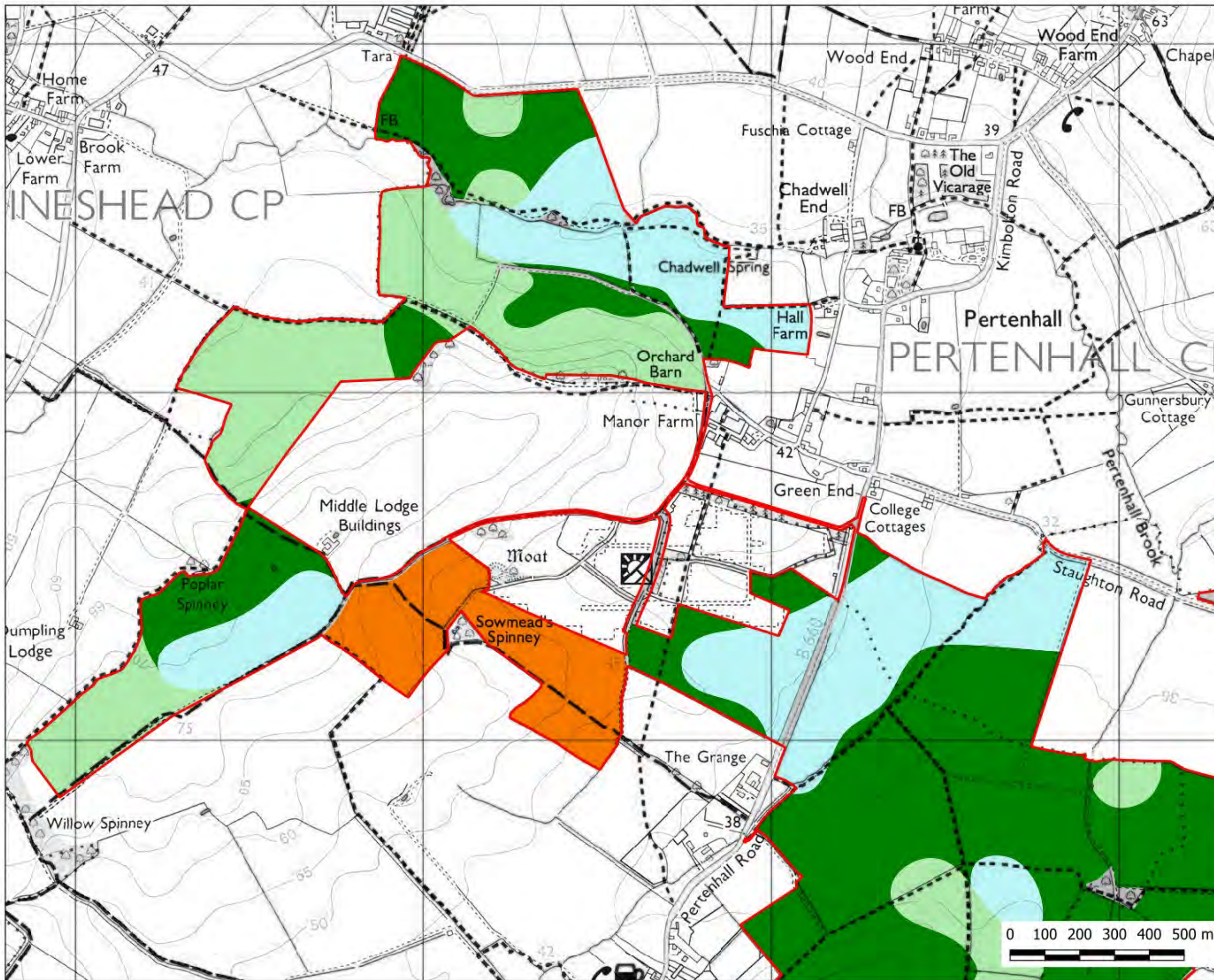
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- Subgrade 3b
- Grade 4
- Grade 5
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- Not surveyed

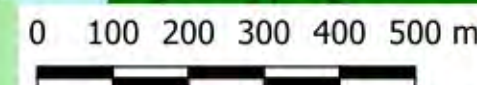
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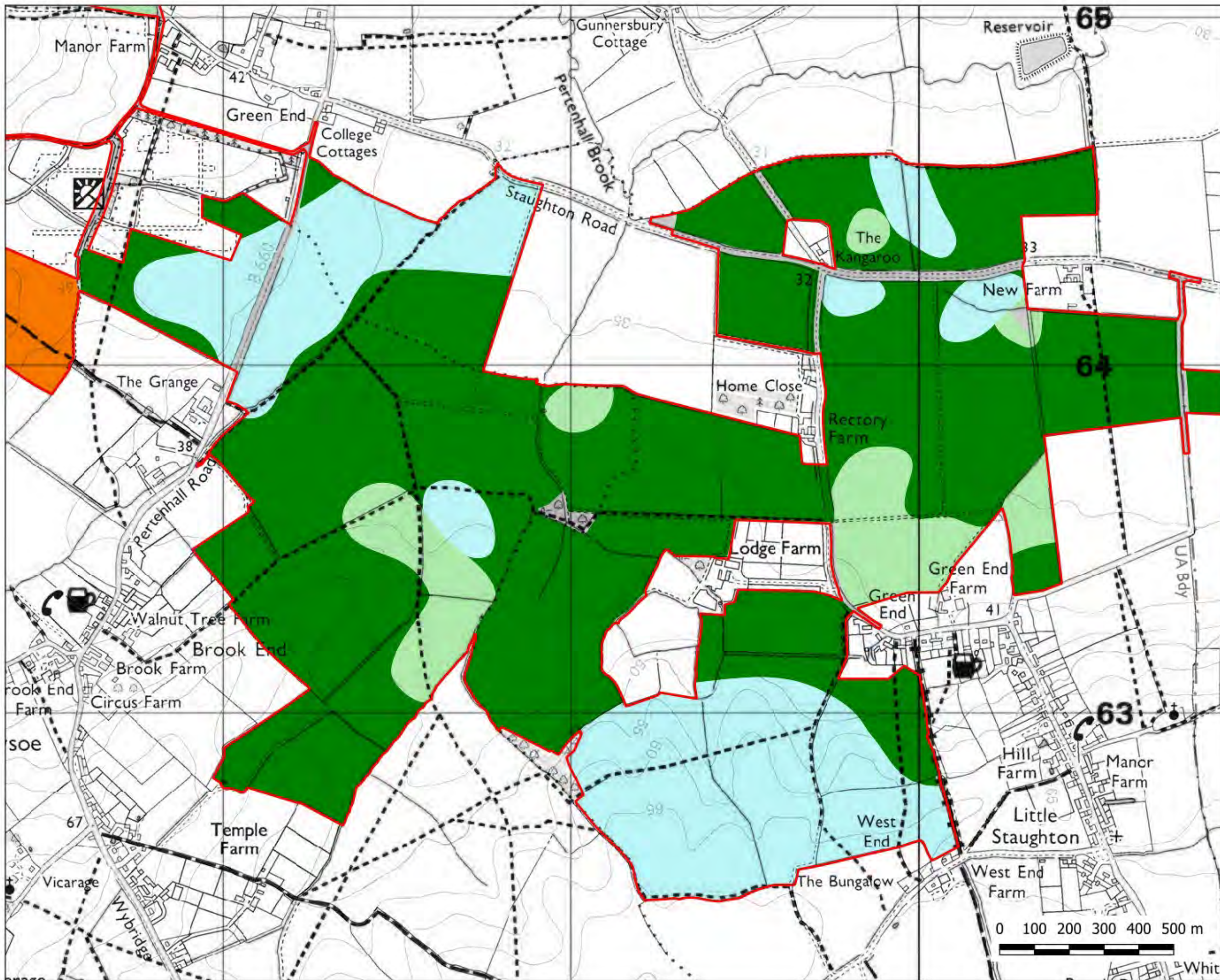
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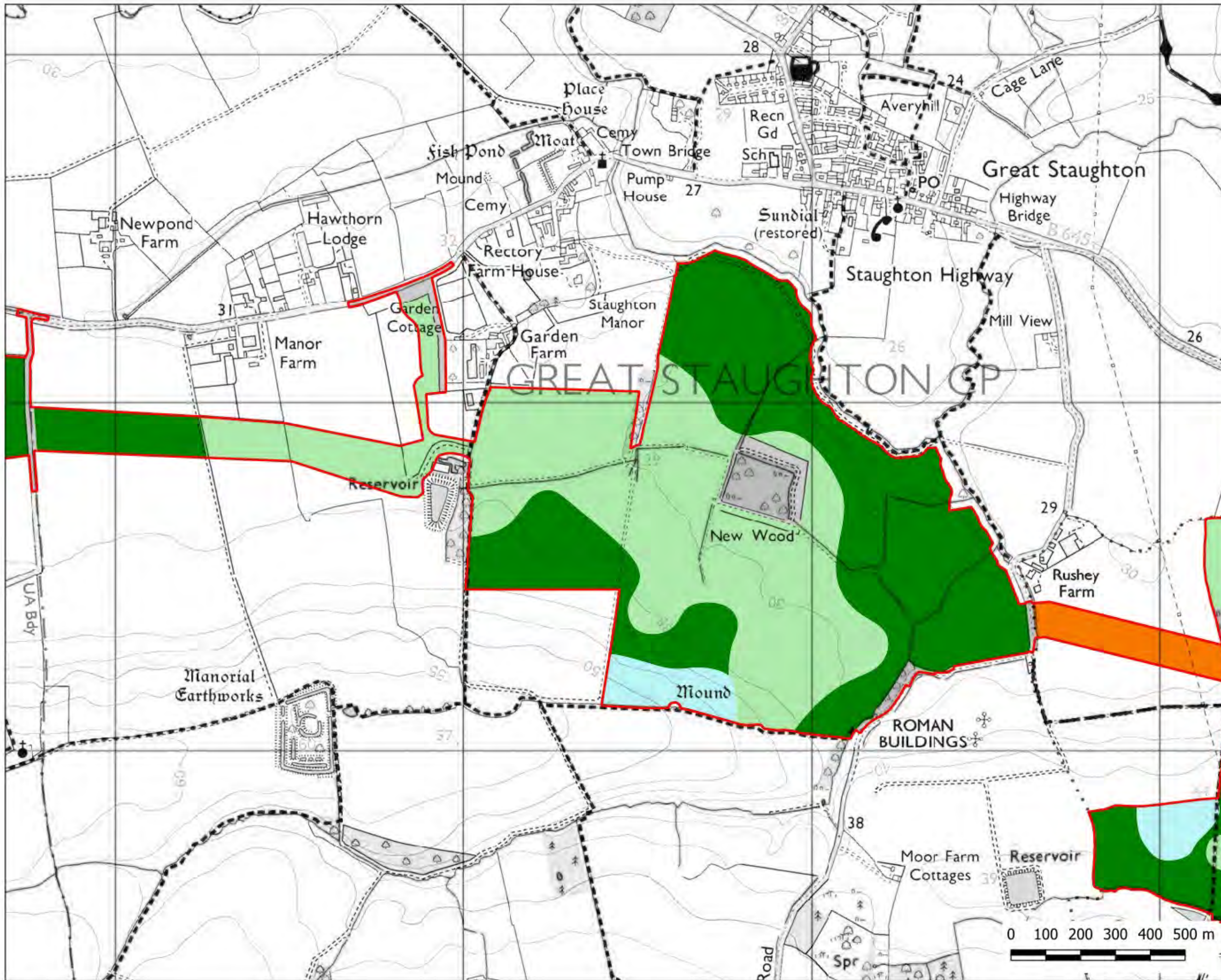
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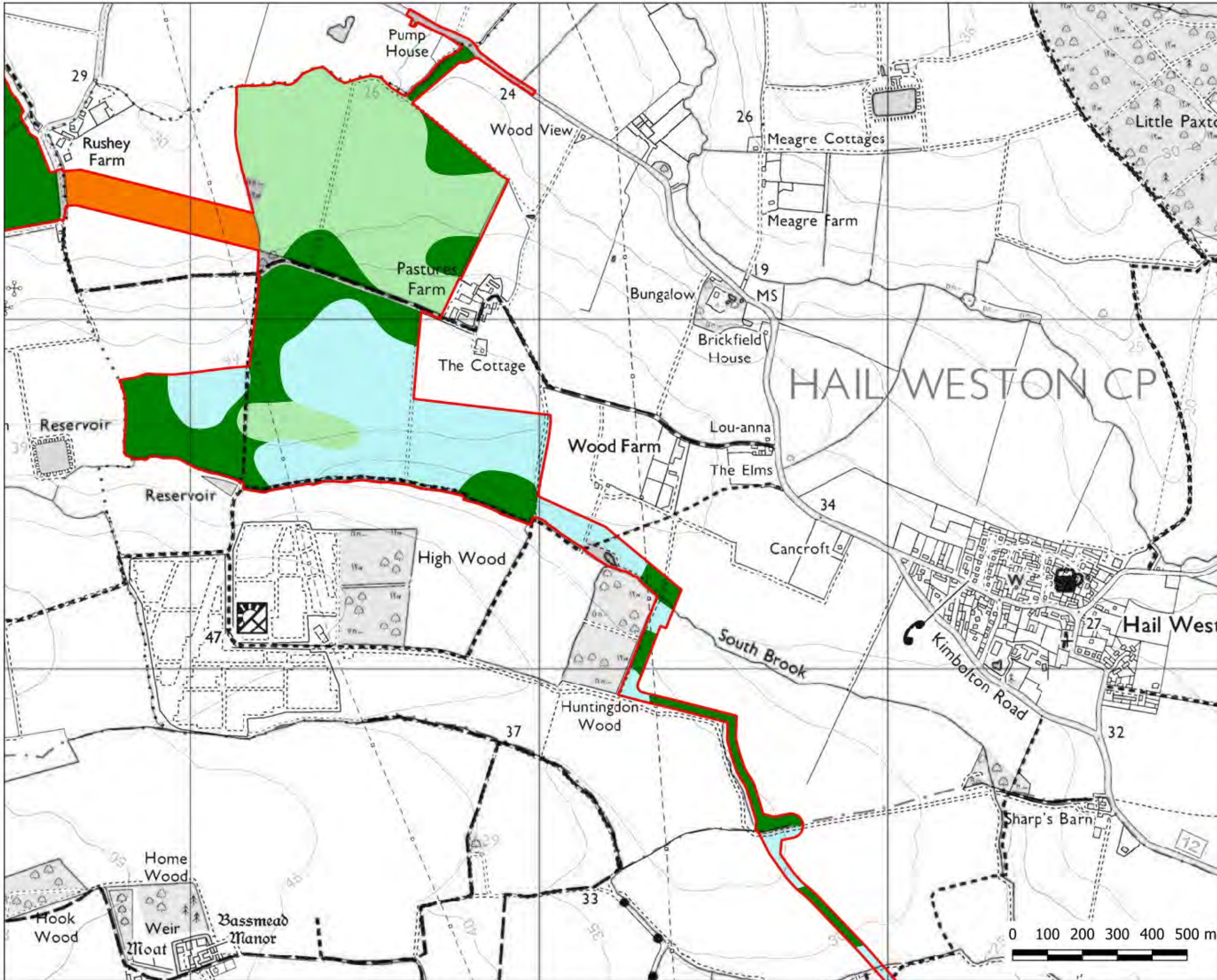
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