



Botley West Solar Farm

Environmental Statement

Volume 3

Appendix 17.1: Agricultural Land Classification and Soil Survey Report

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Botley West Solar Farm

Agricultural Land Classification and Soil Resources

Volume I of II

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VOLUME II

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1 Introduction

- 1.1 Reading Agricultural Consultants Ltd (RAC) is instructed by Photovolt Development Partners GmbH to investigate the Agricultural Land Classification (ALC) and soil resources of land subject to the proposals for Botley West Solar Farm, Oxfordshire, by means of a survey of soil and site 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 very 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 **MAFF (1988)**. *Agricultural Land Classification of England and Wales. Revised guidelines and criteria for grading the quality of agricultural land*. [Agricultural Land Classification of England and Wales: Revised criteria for grading the quality of agricultural land - ALC011 \(naturalengland.org.uk\)](#)

² **Natural England (2012)**. *Technical Information Note 049 - Agricultural Land Classification: protecting the best and most versatile agricultural land*, Second Edition. [Agricultural Land Classification: protecting the best and most versatile agricultural land - TIN049 \(naturalengland.org.uk\)](#)

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 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 predominantly Grade 3, with Grade 4 in the valleys of the River Dorn and River Evenlode, and to the east of Farmoor Reservoir, and Grade 2 to the west of Cassington. 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 survey according to the published guidelines. This survey follows the detailed methodology set out in the ALC guidelines. An observation density of one soil profile per 2ha was initially employed due to the extent of the site boundaries as well as the long-term but temporary nature of solar farm development. This initial survey was supplemented by additional observations following consultations with Natural England.

2 Site and climatic conditions

General features, land form and drainage

- 2.1 The site extends to approximately 1,317ha of agricultural land within three broad locations:
- land between Wootton and Tackley;
 - land west of Yarnton and north of Cassington; and
 - land west of Botley at Oxford.
- 2.2 The land is primarily in arable cultivation. The main areas of grassland are adjacent to the River Dorn and around Burleigh Wood.
- 2.3 Across the entire site area, the topography is overall gently undulating at altitudes of between around 65m and 120m above Ordnance Datum (AOD). The altitude generally falls with distance south, other than into the river valleys. The slopes are shallow and are typically not limiting to agricultural land quality.
- 2.4 Drainage of the site is by a combination of the slopes and field ditches which direct water into the valleys of the Rivers Dorn, Evenlode and Thames.

Agro-climatic conditions

- 2.5 Agro-climatic data for the site have been interpolated from the Meteorological Office's standard 5km grid point dataset at numerous representative points and altitudes, and are given in Table 1. The site is moderately warm with moderate rainfall. Moisture deficits are moderate to moderately large. The number of Field Capacity Days is about average for lowland England (150) and is favourable for providing opportunities for agricultural field work. There is no overriding climatic limitation to agricultural land quality.

Table 1: Local agro-climatic conditions

Parameter	Value						
Easting	445679	445533	446186	444715	443878	443121	445925
Northing	220800	219000	217800	213720	213011	212275	205378
Altitude (mAOD)	110	95	98	85	68	75	75
Average Annual Rainfall (mm)	701	691	685	682	668	673	646
Accumulated Temperatures >0°C (day°)	1,383	1,400	1,397	1,414	1,434	1,427	1,427
Field Capacity Days	153	151	149	148	146	146	136
Average Moisture Deficit, wheat (mm)	99	102	102	104	106	105	110
Average Moisture Deficit, potatoes (mm)	89	92	92	95	99	97	103

Soil parent material and soil type

- 2.6 The bedrock geology mapped by the British Geological Survey³ across most of the site area, from Burleigh Wood and south, comprises the Oxford Clay Formation and the West Walton Formation mapped together as one unit. The Oxford Clay Formation includes grey silicate mudstone with sporadic limestone nodules. The West Walton Formation includes calcareous mudstone, silty mudstone and siltstone, with some fine-grained sandstones and limestone or siltstone nodules.
- 2.7 Narrow bands of mudstone and sandstone of the Kellaways Formation mark the boundary to separate units of the Forest Marble Formation and the Cornbrash Limestone Formation which occur north, west and south of Burleigh Wood and generally west of the River Evenlode where the topography is flatter. The Forest Marble Formation has variably calcareous silicate-mudstone with cross-bedded limestone units, with some parts dominated by the limestone. The Cornbrash Formation is characterised by fine- to medium-grained limestone.
- 2.8 In the northern site area between Wootton and Tackley, the bedrock is predominantly a mix of the Forest Marble Formation and the Cornbrash Formation, with the addition of the White Limestone Formation in the west, comprising pale grey to off-white or yellowish limestone with localised variations in composition. A small area of the Hampen Formation limestone is mapped at Sansom's Platt.
- 2.9 Superficial deposits mainly comprise pockets of sand and gravel formations mapped between Cassington and Burleigh Road. Superficial deposits of alluvium are mapped in conjunction with the River Evenlode. A small pocket of head deposits is mapped on the north side of the B4027, east of Stratford Lane.
- 2.10 The Soil Survey of England and Wales soil association mapping⁴ (1:250,000 scale) shows the:
- Elmtun 1 association (343a) across much of the north of the site, characterised by shallow, well drained, brashy, calcareous fine loamy soils over limestone;
 - Elmtun 3 association (343c) also in the north of the site, also characterised by shallow, well drained, brashy, calcareous fine loamy soils over limestone but including some deeper, slowly permeable, seasonally waterlogged and mainly calcareous clayey soils;

³ **British Geological Survey (2023)**. *BGS Geology Viewer*, <https://www.bgs.ac.uk/map-viewers/bgs-geology-viewer/>

⁴ **Soil Survey of England and Wales (1984)**. *Soils of South East England* (1:250,000), Sheet 6

- Aberford association (511a) across the remainder of the north which includes soils similar to the Elmton 1 and 3 associations but is only locally brashy;
- Denchworth association (712b) across most of the central area between Yarnton and Cassington, and in the south at Farmoor, characterised by seasonally waterlogged, clayey soils;
- Essendon association (714d) around Bladon Heath, comprising seasonally waterlogged, coarse loamy over clayey soils;
- Sutton 1 association (571u) in patches on river terraces west of Carsington and Kidlington and comprising well drained, fine and coarse loamy soils that are locally calcareous and in places shallow over gravel;
- Badsey 1 association (511h) west of Cassington and west of Lower Road, characterised by well drained, calcareous and non-calcareous, fine loamy soils over limestone gravel;
- Kelmscot association (832) north-east of Eynsham, characterised by calcareous, fine loamy soils over gravel that are variably affected by groundwater, and associated with non-calcareous, clayey soils over gravel on flat land; and
- Fladbury 1 association (813b) in the valley of the River Evenlode, comprising stoneless, clayey soils variably affected by groundwater⁵.

⁵ **Jarvis et al (1984)**. *Soils and Their Use in South East England*. Soil Survey of England and Wales Bulletin 15, Harpenden.

3 Agricultural land quality

Soil survey methods

- 3.1 The initial survey in 2023 examined 622 soil profiles using an Edelman (Dutch) auger, together with 36 soil pits excavated by spade to examine subsoil structures and stone content at an overall observation density of approximately one per two hectares and otherwise in accordance with the established recommendations for ALC surveys². Observations numbered 334-359 were removed from the scope of the survey and have not been included within this report.
- 3.2 A further 40 observations were examined during a second round of surveying in 2024 following consultation with Natural England to further investigate the boundaries of isolated areas of BMV land identified.
- 3.3 The locations of observations are indicated on Figure RAC/9962/1. At each observation point the following characteristics were assessed for each soil horizon up to a maximum of 120cm or any impenetrable layer:
- soil texture;
 - stone content;
 - colour (including localised mottling);
 - consistency;
 - structural condition;
 - free carbonate; and
 - depth.
- 3.4 In total, 25 topsoil samples were submitted to a laboratory for determination of particle size distribution, pH, organic matter content and/or nutrient contents (P, K, Mg). Results are presented in Appendix 1.
- 3.5 Soil Wetness Class (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 15cm 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 agricultural land quality has been carried out according to the revised ALC guidelines¹. 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 The site area is divided into 20 Parcel Plots, each described in turn below. Four main soil types have been identified and categorised according to their main limitations in the ALC, and are shown on Figure RAC/9962/2.

Denman's Farm (Observations 1-37 and 630-636 on Figure RAC/9962/1A)

- 3.9 The area surveyed has some permanent pasture (north and south of the farmstead) but is mainly in grass leys, arable crops and maize. The land north of Denman's Farm and the overhead power line is level or on a 1° northerly slope. The southern part of the land has moderate slopes (2-6°) facing north-west, north or north-east with some north-south valley features. The land west of the Farmoor to Cumnor road has gentler (1-4°) slopes, again mainly in a northerly direction.
- 3.10 The north-western part of the large field north of Denman's Farm is in Flood Zone 3; the rest of the land has no designated flood risk. The land has functioning ditches and underdrains, although wetter patches were evident in parts of the flatter land and footslope areas at the time of survey.
- 3.11 The majority of soils have 23cm-28cm depth of dark greyish to olive brown (2.5Y4/2 to 2.5Y5/3 in the Munsell soil colour charts⁷), non-calcareous clay or silty clay topsoil. The structure is granular at the surface, transitioning to medium subangular blocks. The upper subsoil is olive-coloured (5Y5/2 to 5Y5/4) clay with fine mottles which is very firm with a weak prismatic structure, passing to pale olive (5Y6/4) calcareous clay with a medium subangular blocky structure at around 38cm depth. From 55cm depth, the subsoil is grey (N6/1) mottled calcareous clay with a weakly developed coarse structure extending to depth. The main soil is assessed as WC III as the upper subsoil compaction could be easily ameliorated, and the soil limited to Subgrade 3b by wetness.

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 Where the clay is calcareous to the surface (Observations 11, 12, 13, 22, 30, 632 and 633), the structure is better developed in the topsoil and upper subsoil which is usually unmottled in the top 40cm. The WC is II or III, resulting in a wetness limitation to Subgrade 3a.
- 3.13 In Observation 25 the topsoil is heavy clay loam overlying moderately structured clay at about 35cm. This profile is in WC II and is also limited to Subgrade 3a.
- 3.14 At Observations 2, 3, 6, 7, 8, 10, 630, 631 and 635, the topsoil is dark greyish or olive brown (2.5Y5/3) clay or silty clay which commonly includes a low volume of limestones and is (slightly) calcareous and of granular structure. The clay subsoil becomes slowly permeable at depths of between 30cm and 65cm (WC II to IV). A composite sample taken from Observations 30 to 32 comprised 7% CaCO₃ and 52% clay. Clay content of more than 50% can be used to downgrade calcareous soils and furthermore in Observation 30 the soil has previously been disturbed and reinstated over an installed pipeline. Accordingly most of this area is assessed as Subgrade 3b although this is marginal to 3a as the land is distinctly easier working than decalcified clays.
- 3.15 In Observations 4, 5 and 35, the topsoil is typically dark brown (2.5Y4/2) calcareous heavy clay loam with distinct granular structure. The upper soil is formed of loamier 'drift' containing 6%-15% limestone and siliceous stones, becoming stonier with depth. Clay does not occur within 80cm. The profiles are in WC I or II and are limited equally by wetness and droughtiness to Grade 2.

Parcel 1 (Observations 38-76 and 637-639 on Figure RAC/9962/1B)

- 3.16 The sloping land on the west comprises 23cm-28cm depth of (olive) brown (2.5Y4/3 or 2.5Y5/3) clay or heavy clay loam topsoil which is variably pebbly and usually non-calcareous. The topsoil forms adherent blocks which pull apart easily and are porous with roots. Subsoil within 45cm is stoneless olive-yellow or yellow (2.5Y6/6 or 2.5Y7/8) non-calcareous clay with massive structure which is slowly permeable, locally interbedded with reddish-yellow mottled clay loam. Where the clay starts immediately beneath the topsoil, the WC is IV. Where stony material extends deeper the WC is III but in both cases the profiles are limited to Subgrade 3b due to wetness.
- 3.17 In the south and along the eastern edge of Parcel 1, the topsoil is brown (10YR4/3 or 10YR4/4) calcareous silty clay or heavy clay loam. The stone content varies between around 8% and 30% and includes high proportions of limestone. The topsoil and subsoil are well structured and pass to very calcareous, very stony material (gravel or limestone) at depths of between 40 and 60cm. In the north-west plateau, thin gravel overlies clay. All of these soils are well drained in WC I and are limited to Subgrade 3a due to droughtiness.

- 3.18 Across the central portion of Parcel 1 the topsoil is brown or yellowish brown (7.5YR4/4 or 7.5YR5/4) medium clay loam, which is non-calcareous and includes around 4%-15% pebbles. Acidic patches are common. Upper subsoil is yellowish-brown or strong brown clay loam with moderately developed, coarse angular blocky structures, overlying redder (5YR4/6) silty clay or heavy silty clay loam subsoil starting at variable depth, with some mottling evident. The subsoil is friable with a moderate, fine subangular blocky structure, transitioning to weakly developed angular blocks. Limestone usually occurs deeper than 80cm and locally the lower subsoil is deep slowly permeable clay. Compaction was observed in the upper layers but the profiles are moderately well drained (WC II or I) resulting in Grade 2. In the north of Parcel 1, the topsoil is sandy silt loam which passes to a gravelly layer below a depth of 60cm (WC I). Most of these profiles have good moisture reserves and are also classified as Grade 2.
- 3.19 In Observations 637 and 639, the topsoil is dark brown (10YR4/2) sandy clay loam over a sandy clay loam upper subsoil and either a sandy clay or sandy loam lower subsoil. Both profiles contain ochreous mottling within a depth of 40cm and are of WC II or III, depending on whether the lower subsoil is slowly permeable. Profiles are classified as Grade 2 or Subgrade 3a depending on the severity of the overriding wetness limitation.

Parcel 2 (Observations 77-92 on Figure RAC/9962/1B)

- 3.20 Land in the east and south of Parcel 2 is most limited by wetness and flood risk whilst land in the centre and north is limited most by droughtiness.
- 3.21 Across the land in the east and south, the topsoil is primarily dark greyish brown (10YR4/2) clay of 23cm average depth. In the south, the topsoil is non-calcareous and in the east is slightly to moderately calcareous. The stone content is very low at around 1-3%.
- 3.22 The upper subsoil comprises grey (10YR6/1 or N5/) clay. The upper subsoil is stoneless or very slightly stony, is mottled, gleyed and slowly permeable. Similar to the topsoil, in the east the upper subsoil is non-calcareous and in the south is slightly to moderately calcareous.
- 3.23 In the south-east there is a lower subsoil of black (10YR2/1) organic clay which was saturated at the time of survey. The soils are all within Flood Zone 3. All are in WC IV and limited by wetness and flood risk to Subgrade 3b.
- 3.24 In two locations in the south (Observations 79 and 80), there is an upper subsoil of mottled, brown (10YR5/3) heavy clay loam which passes to mottled, brown clay subsoil, or yellowish brown calcareous sandy loam. The clay and heavy clay loam subsoil horizons are gleyed but are permeable and the profiles are in WC II. The area is on the edge of Flood Zone 3 and the profiles

are limited by wetness and flood risk to Subgrade 3a. Observation 91a is mapped in accordance with this soil type and comprises unmottled heavy clay loam to a depth of 79cm at which depth the profile stops over bedrock. This observation is WC I and has a slight deficit in available water, restricting the profile to Grade 2 by both wetness and droughtiness.

- 3.25 In the centre of Parcel 2, the topsoil is typically dark brown or dark greyish brown (10YR3/3 or 10YR4/2) clay or heavy clay loam, or in Observation 85 is sandy clay loam. The average depth is 26cm. The stone content is variable: on the west side there is 30%-35% total stone, mostly comprising limestones. Elsewhere the topsoil is only slightly stony.
- 3.26 The upper subsoil is dark yellowish brown, brown or yellowish brown (10YR4/4, 10YR5/3 or 10YR5/4) clay, with one sandy clay loam. The upper subsoil is slightly stony and slightly or moderately calcareous in most cases.
- 3.27 The upper subsoil passes to a lower subsoil of very calcareous, dark yellowish brown (10YR4/6) loamy medium sand and limestone gravel at an average depth of just 38cm. The profiles are well drained, in WC I, and are limited by droughtiness to Subgrade 3a or Subgrade 3b, depending on the upper subsoil stone content and the depth to sand and gravel.
- 3.28 In the north of the parcel, the limestone gravel within the subsoil becomes shallower over the limestone bedrock. Where the limestone gravel is thin or lacking within the subsoil, observations are mapped within the 'shallow soils over limestone' unit on Figure RAC/9962/2. These soils are restricted to Subgrade 3a or 3b by droughtiness depending on the depth over limestone.
- 3.29 Land in the south of Parcel 2 was surveyed by ADAS on behalf of MAFF⁸ in 1992. As the ALC is concerned with the long-term, inherent physical properties of land and soil, the results of this survey remain valid and this land has been classified mostly as Subgrade 3b, with smaller areas of Grade 2 and Subgrade 3a in the south-west.

Parcel 3 (Observations 93-217 and 640-648 on Figure RAC/9962/1B)

- 3.30 Parcel 3 has a range of topographic characteristics including a hill summit, some steeper valley slopes over 7 degrees which are limiting to Subgrade 3b, mainly in the west of the Parcel but

⁸ **ADAS (1992).** *Land North-East of Eynsham, Oxfordshire. Reconnaissance survey, ALC Map and Report. MAFF reference 3305/017/91. Agricultural Land Classification detailed Post 1988 ALC survey, Eynsham, North East - ALCR01791* (naturalengland.org.uk)

also in the north, and low-lying land in a floodplain. These features give rise to differing soil types.

- 3.31 Across the flatter land north and west of Cassington and around Purwell Farm, the topsoil is mainly sandy clay loam or heavy clay loam, although there are instances of medium clay loam and clay. The topsoil is dark brown or dark greyish brown (10YR3/3 or 10YR4/2), moderately or very calcareous and is slightly or moderately stony, with up to 30% limestone.
- 3.32 The subsoil either comprises loamy medium sand to depth, occasionally with a thin transitional layer of medium sandy loam, or otherwise there is an intermediary upper subsoil horizon with textures similar to the respective topsoil texture. In both types the upper subsoil is brown, dark yellowish brown or yellowish brown (10YR4/3, 10YR4/4, 10YR4/6, 10YR5/4 or 10YR5/6) and is mainly very calcareous. Where the texture is fine loamy as the topsoil, the stone content is between 10% and 20%, including a larger proportion of limestone. These intermediary horizons typically have a fine to medium subangular structure and are friable. The loamy medium sand subsoil is substantially stonier, with a volume content typically of 40% to 50%. Where this subsoil type is recorded, it has a fine to medium coarse granular structure which is very friable.
- 3.33 Most of the soil profiles are limited by droughtiness to Subgrade 3a. Where the profiles pass to loamy medium sand subsoil within around 26cm depth, there is a more severe droughtiness limitation to Subgrade 3b. In two isolated locations (Observations 131 and 139), the sandy material starts at depths of 62cm and 90cm, giving a less severe droughtiness limitation to Grade 2.
- 3.34 The soil characteristics along the western edge of Parcel 3 reflect the Flood Zone. The topsoil is dark brown or dark greyish brown (10YR3/3 or 10YR4/2) clay or heavy clay loam of 22cm average depth. The stone content is low, typically around 2%-3%. The southern and northern topsoils are non-calcareous but the central topsoils are moderately calcareous.
- 3.35 The subsoil horizons consistently comprise stoneless, slightly or moderately calcareous gleyed clay which in most locations is slowly permeable immediately beneath the topsoil. The clay is grey or greyish brown (including 10YR5/1, 10YR5/2, 10YR6/1, 2.5Y5/2 and N5/) typically passing to grey (10YR6/1) at depth. Subsoils typically have a very coarse prismatic or angular blocky structure. Commonly clay along within the river flood plain has a more plastic consistency, although generally the consistency is very firm. The soil profiles are in WC IV or occasionally WC III and are limited by wetness and flood risk to Subgrade 3b.

- 3.36 A subtype similar to those described above is present throughout Parcel 3 and includes predominantly dark greyish brown (10YR4/2), slightly stony clay topsoil which is non-calcareous. There are instances of heavy clay loam.
- 3.37 The upper subsoils are often brown or light olive brown (10YR5/3 or 2.5Y5/3) mottled clay. In most locations the upper subsoil is gleyed but permeable. In these instances the structure is observed as medium subangular blocky. This passes to grey lower subsoil clay as found in the floodplain soils, which is stoneless and slowly permeable and has a firm coarse prismatic structure with some more angular peds observed. Most of the profiles are in WC IV with the remainder in WC III. With clay topsoil there is a wetness limitation to Subgrade 3b across all profiles. Profiles of WC III with a heavy clay loam topsoil are limited to the extent.
- 3.38 All clayey profiles of WC III or IV within and outside the floodplain are mapped on Figure RAC/9962/2 in the 'imperfectly to poorly draining clayey soils WC III-IV' category.
- 3.39 A variation of this type occurs mainly in the north and south-east of Parcel 3 in which the subsoils are only gleyed below a depth of 40cm and become slowly permeable at depths greater than around 50cm. These profiles are in WC II but with clay topsoils continue to be limited by wetness to Subgrade 3b. Those of WC II with a heavy clay loam topsoil are restricted to Subgrade 3a.
- 3.40 Identified in the south-west and roughly in a band across the parcel to the north of Purwell Farm, this soil type includes slightly to moderately stony heavy clay loam topsoil which is dark brown or dark greyish brown (10YR3/3 or 10YR4/2). There are a few instances of clay topsoil and one of sandy clay loam (Observation 178). In the south-west the topsoil is calcareous whilst in the northern band the topsoil is primarily non-calcareous.
- 3.41 The upper subsoil is clay or heavy clay loam which is brown (10YR4/3 or 10YR5/3), dark yellowish brown (10YR4/4 or 10YR4/6) or yellowish brown (10YR5/4 or 10YR5/6) and is variably calcareous. In most profiles the upper subsoil is only slightly stony but there are instances of moderate stoniness (Observations 111, 180 and 192). There is typically no mottling. The upper subsoil is permeable and has a medium subangular blocky structure, readily breaking down.
- 3.42 The profiles pass to clay or heavy clay loam lower subsoils which are also typically slightly stony. Most are yellowish brown (10YR5/4, 10YR5/6 or 10YR5/8). Ochreous mottles and manganese concretions are more common but no gleying is evident. These lower subsoils, similar to the upper subsoils, have a medium subangular blocky structure. In two isolated locations

(Observations 117 and 180) the clay passes to a lower subsoil of slowly permeable grey or greenish grey (10YR5/1 or N5/1) clay.

- 3.43 The soil profiles are adequately drained throughout and with no significant gleying, they are in WC I. The profiles are limited equally by droughtiness and/or wetness to Grade 2, other than where the topsoil is non-calcareous clay where they are limited by wetness to Subgrade 3a.
- 3.44 Profiles assessed as WC I-II are mapped on Figure RAC/9962/2 as 'well drained to moderately drained clayey or loamy soils WC I-II'.

Parcel 4 (Observations 218-224 on Figure RAC/9962/1B)

- 3.45 Parcel 4 is situated within a flood zone. The topsoil resource comprises variably calcareous dark brown (10YR3/3) clay of 29cm average depth. Most of the topsoil is free of stones.
- 3.46 In the north of Parcel 4 there is an upper subsoil of permeable greyish brown or brown (10YR5/2 or 10YR5/3) clay which is moderately calcareous but in all other locations the topsoil directly lies over gleyed and slowly permeable clay which in most instances is grey (10YR5/1). The subsoil typically becomes more heavily mottled with depth, and in all cases is slowly permeable.
- 3.47 One profile (Observation 224) is in WC III; all others are in WC IV. The land is limited by wetness and flood risk to Subgrade 3b.

Parcel 5 (Observations 225-264 and 649-650 on Figure RAC/9962/1B)

- 3.48 At the time of survey the land was cropped with beans in the northern fields, wheat in the centre and a new grass ley in the south. The east was stubble and long leys.
- 3.49 The land is intersected by deep functioning ditches and the groundwater level was controlled at the time of sampling.
- 3.50 At the southern and western edges and in the north, there is a silty clay or heavy clay loam topsoil which is brown or yellowish brown (10YR4/3 or 10YR5/4). The depth is between 22cm and 29cm. The topsoil is moderately or very calcareous and slightly to moderately stony. In some places there is a reddish yellow or very pale brown (7.5YR6/6 or 10YR6/4) heavy clay loam or silty clay subsoil of up to 13cm thickness and with a brashy limestone content of up to 25%. All profiles pass to Cornbrash limestone bedrock at an average depth of 32cm. The profiles are limited by droughtiness and sometimes also by depth to Subgrade 3b.

- 3.51 A similar but deeper soil type is present mainly in the south of Parcel 5 but, with the limestone present from an average depth of 46cm, there is a less severe droughtiness limitation to Subgrade 3a. The topsoil is also locally medium clay loam.
- 3.52 The other calcareous soil type is found in the north of Parcel 5. The topsoil is dark yellowish brown or olive brown (10YR4/4 or 2.5Y4/4) heavy clay loam or silty clay. Subsoil horizons are of similar textures but become mottled and greenish grey (10Y7/1 or N6/1) with depth. The subsoils are free of stones, gleyed and slowly permeable. The profiles are in WC II or III and are limited by wetness to Subgrade 3a.
- 3.53 The main non-calcareous soil type is found across much of Parcel 5. The topsoil is slightly compact but friable heavy silty clay loam which is dark yellowish brown or yellowish brown (10YR4/4, 10YR4/6 or 10YR5/4). This passes to a slightly stony or stoneless, mainly heavy silty clay loam upper subsoil which is dark yellowish brown, yellowish brown or brownish yellow (10YR4/6, 10YR5/4, 10YR5/6 or 10YR6/6). This transitions to a brown or strong brown (7.5YR5/4 or 7.5YR5/6) lower subsoil of heavy silty clay loam or silty clay lower subsoil in most cases, which is commonly mottled. In localised areas there is limestone present from depths of between 80cm and 100cm. The profiles are in WC I and limited mostly to Grade 2 by droughtiness and workability.
- 3.54 Across the east of Parcel 5, the soils are alluvial. The topsoil contains few or no stones and the texture varies from heavy clay loam to clay. In the grassland, the topsoil structural condition is good with 10% organic matter.
- 3.55 The subsoil is clayey, of various colours and is often but not always mottled/gleyed, and is occasionally slowly permeable. The clay can extend to depth but more frequently lies over calcareous sand and gravel (at as little as 50cm depth).
- 3.56 Depending on depth to the slowly permeable layer, if present, the WC varies from II to IV. The land is classified as Subgrade 3b in the eastern part regardless of the WC due to the heavy topsoil textures.
- 3.57 Groundwater was encountered at between 50cm and 100cm depth but seems to be adequately controlled. The land alongside the river is situated within Flood Zone 3 and has been restricted to Subgrade 3b in line with the potential for flooding.

Parcel 6 (Observations 265-273 and 651-652 on Figure RAC/9962/1B)

- 3.58 In the very south of Parcel 6, at Observation 265, the soil profile comprises a brashy silty clay topsoil to a depth of 25cm. The topsoil is dark yellowish brown (10YR4/4), moderately calcareous and moderately stony, to include around 5% hard stone and 15% limestone. Limestone is present at around 30cm depth, resulting in an equal droughtiness and depth limitation to Subgrade 3b.
- 3.59 In the south and west the topsoil is non-calcareous, heavy silty clay loam which is brown or yellowish brown (7.5YR4/3, 7.5YR5/3, 7.5YR5/4, 10YR5/3 or 10YR5/4) and of 26cm average depth. The stone content is low, typically around 4% by volume.
- 3.60 The upper subsoil is mainly heavy silty clay loam in the south, or clay or silty clay in the west, which is brown, light brown or pale brown (7.5YR5/3, 7.5YR6/4 or 10YR6/3). The stone content continues to be low at around 5%. Mottles are usually present and sometimes result in gleying. The lower subsoils are clay or silty clay and are mainly brown (7.5YR5/4, 7.5YR5/4 or 10YR5/3) but also occasionally strong brown or light brown (7.5YR4/6 or 7.5YR6/3). There is a moderate to poor structure with affected permeability and variable mottling. In the south, limestone occurs within 80cm depth, and across the west is slightly deeper. Profiles range from WC II in the south-west to WC IV in the west. With heavy topsoils, most are limited by wetness to Subgrade 3b, other than the profile of WC II which is limited to Subgrade 3a.
- 3.61 In the east and north of Parcel 6, the topsoil is calcareous heavy clay loam which is brown or dark yellowish brown (10YR4/3 or 10YR4/4). It is slightly to moderately stony, including hard stone and limestone. The topsoil has a loose, fine blocky and coarse granular structure and is well rooted.
- 3.62 Upper subsoil comprises yellowish brown or brown (10YR5/4 or 7.5YR5/4) heavy clay loam which is slightly or moderately calcareous. The stone content increases slightly with depth. A moderately calcareous, yellow (2.5Y7/6) clay lower subsoil has a moderate to poor structure which reduces permeability. Limestone bedrock is present from depths between 45cm and 90cm. The profiles are in WC I or II and are mainly limited by droughtiness to Subgrade 3a. Where the limestone is at greater depth in the north-east (Observation 272), the droughtiness limitation is less severe, to Grade 2. No limestone was present within Observation 652, instead this profile is limited to Grade 2 by wetness.

Parcels 7, 8 and 9 (Observations 274-280 on Figure RAC/9962/1C)

- 3.63 The water meadows of Parcels 7, 8 and 9 are all mapped as Flood Zone 3 and all share one main soil type, which can be subdivided by wetness class.
- 3.64 The topsoil is organic clay or silty clay which is most commonly olive brown (2.5Y4/3) but with instances of yellowish brown (10YR5/4), dark greyish brown (2.5Y4/2) and light olive brown (2.5Y5/3). The average depth is 24cm. The topsoils generally become more strongly calcareous with distance north. The topsoil is friable and well rooted with granular structure.
- 3.65 In most profiles, the upper subsoil is light yellowish brown or light olive brown (2.5Y5/6 or 2.5Y6/6) calcareous clay with little mottling and some organic matter inclusion, locally passing to less permeable, mottled, light brownish grey (2.5Y6/2) clay within 50cm and groundwater starting at depths of between 80cm and 100cm. The profiles are in WC II or III and with organic clay topsoil. Observation 279 is limited by wetness to Subgrade 3a. The remaining observations are restricted to Subgrade 3b by flood risk and are located in Flood Zone 3.
- 3.66 In Parcel 8, the topsoil/upper subsoil interface is greyish brown (2.5Y5/2) with many mottles and firm, medium subangular blocks. The main subsoils are light brownish grey to light yellowish brown (2.5Y6/2 or 2.5Y6/3) clay with a moderate, firm coarse angular to prismatic structure. The subsoils transition to greenish grey or light greenish grey (10Y6/1 or 10Y7/1) at variable depth. The profiles are slowly permeable within a depth of 40cm and are in WC IV. There is a wetness (and flood risk) limitation to Subgrade 3b.

Parcel 10 (Observations 281-288 on Figure RAC/9962/1C)

- 3.67 There is one main topsoil type in Parcel 10 which can be subdivided according to wetness class. The topsoil comprises dark greyish brown (10YR4/2) clay which is occasionally organic. The topsoil is variably calcareous and typically stoneless or slightly stony, although at Observations 283 and 288 there is substantially more stone, with the volume measuring around 30% in total and 20-25% larger than 2cm. The average topsoil depth is 27cm.
- 3.68 The upper subsoil is also clay which is brown (10YR5/3) in most places and occasionally grey or greyish brown (10YR6/1 or 2.5Y5/2), and passes to grey (10YR5/1 or 10YR6/1) clay with depth. The subsoil is variably calcareous and usually stoneless to slightly stony, other than where the corresponding topsoil is moderately stony where the stone content is around 20%.

- 3.69 In the west of Parcel 10, the upper subsoils are permeable and only sometimes gleyed, and only become slowly permeable at depth. The profiles in the west are in WC II and the main limitations are topsoil stone content (at Observations 283 and 288) or wetness which limit to Subgrade 3b.
- 3.70 Elsewhere in Parcel 10 the subsoil is gleyed and usually slowly permeable immediately beneath the topsoil and the profiles are in WC IV. With clay topsoil there is a wetness limitation to Subgrade 3b. One profile in WC III with organic clay topsoil is limited most by flood risk and is also classified as Subgrade 3b.

Parcel 11 (Observations 289-305 on Figure RAC/9962/1C)

- 3.71 The topsoil in Parcel 11 is mostly dark greyish brown (10YR4/2) clay or heavy clay loam. It is predominantly slightly stony and non-calcareous or occasionally slightly calcareous. Ochreous mottles are commonly seen in the topsoil which is gleyed in the east of Parcel 11.
- 3.72 Most of the subsoil material of the main soil type comprises greyish brown or grey (10YR5/2 or 10YR6/1) clay with many distinct ochreous mottles and which is gleyed and slowly permeable. In areas there is a thin intermediary upper subsoil of mottled brown (10YR5/3) clay which is gleyed but permeable. The profiles are in WC IV, or occasionally III, and are limited by wetness to Subgrade 3b.
- 3.73 Of the other profiles, the subsoil characteristics mainly include non-calcareous to very slightly calcareous, yellowish brown (10YR5/8) clay, with manganese nodules or occasionally ochreous mottles. The subsoil is slightly stony and permeable, sometimes passing to grey (10YR6/1) clay as in the main soil type. The profiles are in WC I or II and generally limited by wetness to Grade 2 or Subgrade 3a respectively.
- 3.74 At Observation 295, the subsoil is very calcareous, very stony (limestone gravel) dark yellowish brown (10YR4/6) medium sandy loam. The profile was only able to be observed to 45cm depth due to the high proportion of stone. It is assumed that the medium sandy loam material continues to moderate depth before passing to the clay characteristic over the rest of the parcel. The profile is assessed as WC I-II and is limited equally by soil wetness and droughtiness to Subgrade 3a.

Parcel 12 (Observations 306-312 on Figure RAC/9962/1C)

- 3.75 The topsoil is dark brown or dark greyish brown (10YR3/3 or 10YR4/2) heavy clay loam or clay. The average depth is 24cm but ranges from 10cm to 35cm. Most of the topsoil is friable and free of stones. Few mottles are occasionally observed.

- 3.76 On the lower slopes in the west of Parcel 12, the upper subsoil is greyish brown (10YR5/2 or 2.5Y5/2) and on the upper slopes in the east is brown or olive brown (10YR5/3 or 2.5Y4/3). The upper subsoil comprises mottled clay which is firm and free of stone. Generally on the eastern side, the upper subsoil is moderately well structured and is permeable, whilst in the west it is poorly structured and slowly permeable.
- 3.77 With the exception of the northernmost profile (Observation 312), the upper subsoils in Parcel 12 pass to grey or light olive brown (10Y5/1 or 2.5Y5/3) clay which is firm, gleyed and slowly permeable. The profiles are in WC III or IV depending on the permeability of the upper subsoil. With heavy clay loam and clay topsoil there is a wetness limitation in all profiles to Subgrade 3b.
- 3.78 Observation 312 has a permeable upper subsoil that extends to 70cm depth, beneath which is the slowly permeable clay. The profile is in WC II and is limited by wetness to Subgrade 3a.

Parcel 13 (Observation 313 and 654-657 on Figure RAC/9962/1C)

- 3.79 The topsoil is dark brown (10YR3/3) heavy clay loam. The topsoil is moderately stony at around 25% by volume and includes large stones which prevented progress of the auger beyond the topsoil. It is possible that this area has previously been subject to disturbance.
- 3.80 Assuming a slightly stony clay subsoil with reduced permeability in line with surrounding observations, there is likely to be a droughtiness limitation to Subgrade 3a due to the stone content reducing available water; however the heavy topsoil texture results in a more severe limitation to Subgrade 3b due to wetness.

Parcel 14 (Observations 314-333 and 653 on Figure RAC/9962/1C)

- 3.81 The topsoil in Parcel 14 is heavy clay loam or clay which is dark greyish brown or occasionally brown (10YR4/2 or 10YR4/3). The average depth is 26cm. The topsoil is slightly stony and is firm, with a weakly developed, medium angular blocky structure. Rare fine roots and visible channels and macropores are observed. There is an abrupt boundary to the upper subsoil.
- 3.82 Other than at Observation 320, the upper subsoil is clay and is mostly brown (10YR5/3) or otherwise greyish brown or light olive brown (10YR5/2 or 2.5Y5/3). The clay is firm or very firm, sometimes plastic, mottled and has a coarse angular blocky structure with rare fine roots and fissures.
- 3.83 The upper subsoil transitions to grey or greenish grey (10YR5/1 or 10Y5/1) clay lower subsoil across most of Parcel 14. In the west, there are instances of yellowish brown and brownish yellow subsoil (10YR5/4 and 10YR6/6). Rare fine roots were observed to around 50cm depth in

an excavated pit. The structure is weak and massive and the consistency is very firm. The lower subsoils are mostly non-calcareous but are moderately or very calcareous in a roughly crescent shape through Parcel 14.

- 3.84 The main soil type is poorly drained in WC IV and is limited by wetness to Subgrade 3b.
- 3.85 Observations 316 and 318 are better drained and in WC III but remain limited by wetness to Subgrade 3b. Observation 320 and 653 are in WC II with a wetness limitation to Subgrade 3a.

Worton (Observations 360-387 on Figure RAC/9962/1B)

- 3.86 The topsoil comprises heavy clay loam or clay of 29cm average depth, ranging from 20cm to 36cm. It is most often dark greyish brown or olive brown (10YR4/2, 2.5Y4/2 or 2.5Y4/2), slightly stony and non-calcareous. The structure is moderately developed and forms fine angular blocky peds. There is a straight, abrupt boundary to the upper subsoil.
- 3.87 The upper subsoil is brown or greyish brown (10YR5/2, 10YR5/3, 2.5Y5/2, 2.5Y5/3) clay which is distinctly mottled and gleyed. The clay is firm or plastic forming weakly developed, medium and coarse angular blocks which inhibit drainage. In the south of the parcel the stone content of the upper subsoil is moderate at 25%-30% but elsewhere is low at up to 10%. At Observations 368 and 369, the subsoil horizons are increasingly calcareous with depth.
- 3.88 The lower subsoils are similarly greyish brown or brown which some grey and light brownish grey (e.g. 10YR5/1 and 2.5Y6/2). Most are stoneless or only very slightly stony. The lower subsoil clay is plastic, gleyed and weakly developed. Profiles are in WC IV or occasionally WC III and, with non-calcareous heavy topsoils, are limited by wetness to Subgrade 3b.
- 3.89 One profile (Observation 367) differs. The upper subsoil is brown (7.5YR4/2) sandy clay loam which is moderately stony (25%) and mottled. The profile was observable to a depth of 60cm. No impermeable material was found within this depth. The profile is in WC II and limited by wetness to Subgrade 3a.

Parcel 15 (Observations 388-451 on Figure RAC/9962/1C)

- 3.90 Mainly across the north of the parcel, the topsoil is typically brown (7.5YR4/3, 10YR4/3), calcareous silty clay or heavy (silty) clay loam with 10-25% stone, predominantly limestone. The topsoil has excellent granular structure with abundant roots. There is occasionally a thin subsoil layer of moderately stony, yellowish brown or brownish yellow (10YR5/4, 10YR5/6 or 10YR6/6) heavy clay loam or silty clay but in most locations the topsoil lies directly over very stony or extremely stony material (50-75% limestone). Locally, large slabs of limestone occur within a

depth of 30cm. These profiles are well drained but limited to Subgrade 3b by both depth and droughtiness.

- 3.91 Mainly found along the north-eastern edge and in the very north, the soil characteristics are similar to those described above but the upper subsoil, present in all cases, is only slightly to moderately stony. Limestone is present from an average depth of 44cm. The profiles are limited by droughtiness, and sometimes also by depth, to Subgrade 3a.
- 3.92 Found centrally within Parcel 15, the soil profiles include slightly stony, non-calcareous, dark yellowish brown (10YR4/4) clay loam topsoil. The average depth is 25cm. The upper subsoil is brownish yellow (10YR6/6) or strong brown (7.5YR5/6) clay loam or silty clay, locally mottled. At depths of between 35cm and 60cm, this lies over limestone or a very stony sandy clay loam (Head) possibly overlying Kellaways Clay at a depth of 80cm. Within a few peripheral profiles, the slightly stony clay loam continues to depth.
- 3.93 The soil profiles are well drained or moderately well drained (WC I or II) and are mostly limited to Subgrade 3a by wetness and/or droughtiness (depending on the presence of and depth to very stony material or limestone).
- 3.94 Across the south and in some of the north-west of Parcel 15, there are deep clayey soils. The topsoil is commonly olive brown or light olive brown (2.5Y4/3 or 2.5Y5/3), slightly stony, non-calcareous heavy clay loam or clay.
- 3.95 The upper subsoils are also non-calcareous heavy clay loam or clay and are greyish brown (10YR5/2, 2.5Y5/2), light olive brown (2.5Y5/3, 2.5Y5/4) or light yellowish brown (2.5Y6/3). The upper subsoils are slightly stony, mottled and gleyed but permeable or moderately permeable. The upper subsoils pass to slowly permeable, light grey or light greenish grey (2.5Y7/2, N7/1 or 10Y7/1) clay at depths between 32cm and 50cm. Where the slowly permeable clay starts within a depth of 40cm, the profiles are WC IV, but otherwise WC III, and all are limited by wetness to Subgrade 3b, with a heavy topsoil. Observation 402 is assessed as Subgrade 3a with a medium clay loam topsoil.

Parcel 16 (Observations 452-462 on Figure RAC/9962/1C)

- 3.96 The topsoil comprises heavy clay loam or occasionally clay which is primarily dark greyish brown or brown (10YR4/2 or 10YR4/3). The topsoil is moderately to very calcareous in most of the Parcel but non-calcareous along the north-eastern edge. The topsoil is slightly to moderately stony which in places includes larger limestone stones.

- 3.97 At Observations 453 and 456, the topsoil lies directly over limestone. In most other locations, there is a very thin transitional upper subsoil horizon of brown, strong brown or yellowish brown (7.5YR5/4, 7.5YR5/6, or 10YR5/4) clay or occasionally heavy clay loam which is very calcareous and moderately to very stony with limestone fragments. The average depth to limestone in these profiles is 30cm. In both cases, there is an equal limitation from depth and droughtiness to Subgrade 3b.
- 3.98 At Observations 454 and 462, the upper subsoil is strong brown (7.5YR4/6 or 7.5YR5/8) non- to slightly calcareous, clay or heavy clay loam. The upper subsoil is stoneless to very slightly stony. The lower subsoil characteristics are similar but may be more calcareous, and pass to limestone at an average depth of 50cm. These profiles are limited by depth and droughtiness to Subgrade 3a.
- 3.99 In one profile (Observation 457), observed to depth, there is an additional lower subsoil horizon from 70cm depth comprising greenish grey (N5/1) gleyed and slowly permeable clay. The profile is in WC I to II and is limited by wetness to Subgrade 3a.

Parcel 17 (Observations 463-469 and 658-659 on Figure RAC/9962/1C)

- 3.100 Along the western and northern edge of the parcel the topsoil is yellowish brown or dark yellowish brown (10YR4/6 or 10YR5/4) heavy clay loam or clay of 25cm average depth. The topsoil is moderately calcareous, except in Observation 469, and slightly stony.
- 3.101 The subsoil is slightly or moderately stony, very calcareous (except in Observation 469), reddish yellow, brownish yellow or strong brown (7.5YR6/6 or 10YR6/6 or 7.5YR4/6) clay with some faint ochreous or common grey mottles. Limestone starts at depths of between 48cm and 60cm. The profiles are limited to Subgrade 3a due to droughtiness.
- 3.102 Along the eastern side of the parcel, the topsoil is brown (10YR4/3) heavy clay loam. The topsoil is non-calcareous and slightly stony. Upper subsoil horizons are generally clayey, non-calcareous and variably mottled but permeable. At Observation 464 there is a lower subsoil of moderately permeable clay with sand which extends to depth. This profile is WC I to II and is limited by wetness to Subgrade 3a. At Observation 466 the soil passes to limestone with some limestone gravel. This profile is affected most by droughtiness and is limited to Subgrade 3a.
- 3.103 Observation 463 to the south-west comprises heavy clay loam over medium clay loam. Within this profile, the lower subsoil comprises slightly stony, ochreous (7.5YR6/8) and grey mottled sandy (clay) loam to depth, which is assessed as WC II and classified as Grade 2.

- 3.104 Observation 658 is broadly similar to Observation 463 except that it contains slowly permeable sandy clay within the lower subsoil. This profile is of WC III and classified as Subgrade 3a.
- 3.105 One profile (Observation 468) includes clay textures throughout. The subsoil is light grey (5Y7/2 to N7/1), stoneless and slowly permeable from a depth of 35cm. The profile is poorly drained, in WC IV, and is limited by wetness to Subgrade 3b.

Lionza North (Observations 470-629 and 660-669 on Figure RAC/9962/1D)

- 3.106 Soils within Lionza North are predominantly shallow over limestone. Within this main soil unit, there are isolated patches of deeper clayey soils, some over limestone to a depth greater than 60cm.
- 3.107 The topsoil of the main soils comprises mostly calcareous clay or heavy clay loam with some silty clay and silty clay loam in the south. The topsoil is typically very dark greyish brown (10YR3/2), dark brown (10YR3/3) or brown (10YR4/3, 7.5YR4/4) with some more yellowish or olive colouring. The topsoil mostly has a fine to medium subangular blocky structure and is friable. Limestone fragments of variable size are present in the topsoil and, where the percentage of stones larger than 2cm is greater than 15%, the profiles are limited to Subgrade 3b.
- 3.108 The upper subsoil mostly comprises heavy clay loam or clay, which is brown (10YR5/3, 7.5YR4/4, 7.5YR5/4), yellowish brown (10YR5/4), strong brown 7.5YR4/6), pale brown (10YR6/3). The upper subsoil commonly has relatively high levels of fractured limestone, up to 60%, especially where the depth over limestone is shallow. There is a discernible upper subsoil horizon in many profiles across the parcel. The upper subsoil lies over the limestone bedrock.
- 3.109 These profiles drain freely into the bedrock and are WC I. Profiles are restricted to Subgrade 3b or Subgrade 3a depending on the depth to the bedrock and the volume of stone throughout the profile.
- 3.110 There are isolated patches of deeper clayey soils within the main soil unit. These topsoils comprise mostly calcareous, dark brown (10YR3/3), dark yellowish brown (10YR4/4), olive brown (2.5Y4/3) or light olive brown (2.5Y5/3) clay or, to a lesser extent, silty clay or heavy silty clay loam.
- 3.111 The topsoil lies over a mostly calcareous clay subsoil which has locally varied characteristics. Profiles with poorly structured, slowly permeable subsoils within a relatively shallow depth and subsoil gleying are assessed as WC III-IV. These profiles are classified as Subgrade 3a or Subgrade 3b depending on the extent of the wetness limitation.

3.112 Better drained profiles with permeable subsoils or a greater depth to a slowly permeable horizon are assessed as WC I or II and are classified as Grade 2 or Subgrade 3a. Some profiles within this type are also limited by droughtiness to Subgrade 3a where limestone is recorded at depth within the soil profile and subsoil stone is relatively high.

Overall site ALC

3.113 The ALC distribution within the site is shown in Figure RAC/9962/3 and the areas of each grade are given in Table 2.

Table 2: ALC areas

Grade	Description	Area (ha)	%
Grade 1	Excellent quality	2	0.15
Grade 2	Very good quality	97	7.4
Subgrade 3a	Good quality	406	30.8
Subgrade 3b	Moderate quality	810	61.5
Non-agricultural		2	0.15
Total		1,317	100.0



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VOLUME II

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Appendix 1: Laboratory Data

Parcel #	Profile No.	pH	P		K		Mg		Sand %	Silt %	Clay %	OM %	Texture
			mg/l	Index	mg/l	Index	mg/l	Index					
Denmans Farm	7, 8, 10	8.1	26.4	3	253	3	206	4	16	32	52	3.2	C
Denmans Farm	20-21	7.2	32.6	3	193	2+	232	4	15	37	48	2.9	C
Denmans Farm	Near 23	5.1	-	-	-	-	-	-	-	-	-	-	-
Parcel 1	54	7.2	8.8	0	153	2-	54.5	2	25	34	41	4.1	C
Parcel 1	59/63	5.8	8.2	0	74.5	1	38.5	1	29	52	19	2.2	MCL
Parcel 2	83	6.9	12.8	1	134	2-	59.7	2	28	32	40	4.1	C
Parcel 3	100	7.9	20.8	2	151	2-	28.8	1	48	25	27	3.9	HCL
Parcel 3	130	7.8	15.6	2	157	2-	47	1	31	33	36	3.6	C
Parcel 3	155	8.3	12.4	1	130	2-	33.4	1	62	18	20	4.4	SCL
Parcel 3	197	7.4	6.4	0	195	2+	64.8	2	21	34	45	4.0	C
Parcel 5	242	6.8	9.2	0	86.6	1	38.8	1	24	47	29	3.1	HCL
Parcel 5	254	7.5	9.4	0	154	2-	102	3	3	25	72	9.5	oC
Parcel 6	268	7.9	10	1	174	2-	39.6	1	33	33	34	4.2	HCL
Parcel 8	277-278	7.4	18	2	172	2-	101	3	2	26	72	10.0	oC
Parcel 10	286	7.7	14.8	1	151	2-	91.4	2	6	33	61	9.7	oC
Parcel 11	293	5.9	7.4	0	102	1	56.4	2	24	44	32	3.6	HCL
Parcel 14	325	7.8	28.8	3	208	2+	129	3	9	33	58	4.0	C
Worton	386	7.9	91.2	5	188	2+	97.8	2	17	32	51	4.5	C
Parcel 15	399	6.6	35.6	3	120	1	55.1	2	35	37	28	4.0	HCL
Parcel 15	438, 442	7.7	60.6	4	290	3	63.6	2	19	45	36	7.2	OC/ZC
Parcel 15	450,451	7.8	27.2	3	299	3	52	2	17	46	22	7.6	HCL
Lionza North	598	-	-	-	-	-	-	-	27	38	35	-	C/HCL
Lionza North	605	-	-	-	-	-	-	-	23	30	47	-	C
Lionza North	614	-	-	-	-	-	-	-	22	31	47	-	C
Lionza North	628	-	-	-	-	-	-	-	7	33	60	-	C

* - Indicates not tested

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.

445925 205378

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	110
MDpotato	103
FCD	136

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>64cm	37-64cm	<37cm		1427 D°
SPL within 80cm, gleying at 40-70cm	>46cm	<46cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard

AAR 646

Maximum depth of auger penetration is underlined

75 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
1	0	18	hZCL	n	2.5Y4/3					34	34	n	n	IV	3b	3b	WE
	18	32	ZC	n	2.5Y5/3	Fe*	many			21	21	y	n				
	32	63	ZC	n	2.5Y5/3	Fe*	many		poor	31	37	y	y				
	63	105	C	mod	N7/1	Fe	many	5	poor	29	9	y	y				
	<u>105</u>	120	MSt							8	0	y	y				
				6/6 & 5/3				Total	122	101					GR.gradient	2o	NW
				Head				MB	12	-2					ST.stone>2cm		
								Droughtiness grade (DR)	2	2					Maize stubble		
2	0	28	ZC	vslight	2.5Y5/3			2		47	47	n	n	III	3b	3b	WE
	28	40	C	slight	5Y5/4				poor	15	15	n	n				
	40	60	C	slight	5Y6/4	OMFe	com f	2		24	32	y	n				
	60	90	C	mod	5Y5/2	Fe	many		poor	21	13	y	y				
	<u>90</u>	120	MSt		N6/1				poor	15	0	y	y				
				Granular				Total	122	107					GR.gradient		
				topsoil				MB	12	4					ST.stone>2cm		
				or ZC				Droughtiness grade (DR)	2	2					Sown. Wet spot to east		
3	0	30	ZC	vslight	2.5Y5/3			2		53	53	n	n	III	3b	3b	WE
	30	45	C	vslight	5Y5/4				m/poor	22	22	n	n				
	45	60	C	slight	5Y6/4	Fe	com f		poor	14	20	y	y				
	60	90	C	mod	5Y6/2	Fe	com		poor	21	13	y	y				
	<u>90</u>	120	MSt		N6/1				poor	15	0	y	y				
				Granular				Total	124	107					GR.gradient	1o	NE

					topsoil				MB	14	-1							ST.stone>2cm	
					o hCL				Droughtiness grade (DR)	2	2							Sown	
8	T	0	28	ZC	trace	2.5Y5/3				48	48	n	n	//	3b	3b		WE	
		28	40	C	trace	5Y5/3	Fe	com		16	16	y	n						
		40	75	C	slight	5Y5/2	Fe	com f		33	44	y	n						
		75	90	C	mod	7.5Y6/2	Fe	com		11	0	y	y						
		<u>90</u>	120	MSt						15	0	y	y						
						Granular				Total	122	107						GR.gradient	
						topsoil				MB	12	4						1-2o	N
										Droughtiness grade (DR)	2	2						Sown	
9	T	0	20	hZCL	n	2.5Y4/2				38	38	n	n	///	3b	3b		WE	
		20	30	ZC	n	5Y5/2	OMFe	com f		15	15	y	n						
		30	42	ZC	n	5Y5/3	Fe	com		14	14	y	y						
		42	65	ZC	mod	5Y5/2	N6/1	many	5	21	30	y	n						
		65	120	C	mod	N6/1	Fe	com		39	7	y	y						
										Total	127	104						5o	NE
						Olive-blue				MB	17	1						ST.stone>2cm	
						42-65				Droughtiness grade (DR)	2	2						Grass	
10	T	0	25	C	slight	2.5Y4/3				43	43	n	n	///	3b	3b		WE	
		25	32	C	n	5Y5/3	OM			11	11	n	n						
		32	50	C	n	5Y6/4		com f		26	26	y	n						
		50	85	C	mod	5Y5/2	Fe	com		25	26	y	y						
		85	105	C	mod	N6/1	Fe	many		14	0	y	y						
		<u>105</u>	120	MSt						8	0	y	y						
						Granular				Total	126	106						GR.gradient	
						topsoil				MB	16	3						ST.stone>2cm	
						or hCL				Droughtiness grade (DR)	2	2						Sown	
11	T	0	28	ZC	slight	2.5Y5/3				48	48	n	n	///	3a	3a		WE	
		32	45	C	n	2.5Y5/4	OMFe	com f		19	19	n	n						
		45	70	LC	slight	10YR6/3	Fe	com f	5	20	30	y	y						
		70	120	ZC	slight	10YR6/3	Fe	many		35	0	y	y						
						10YR6/3				Total	121	97						GR.gradient	
																		5o	NE

					& 6/6					MB	11	-6	ST.stone>2cm						
					Head					Droughtiness grade (DR)	2	2	Winter beans						
Pit 1	T	0	25	C	slight	2.5Y5/3				1	42	42	n	n	//	3a	3a	WE	
		25	40	C	mod	5Y5/2				2	24	24	n	n					
		40	55	C	mod	5Y5/3	Fe	com f		2	20	24	y	n					
		55	80	C	mod	N7/1	5Y6/6	many		5	poor	17	19	y	y				
		80	100	hZCL	mod						m/poor	16	0	y	y				
		<u>100</u>	120	MSt							poor	10	0	y	y				
											Total	129	108	GR.gradient				4o	N
											MB	19	5	ST.stone>2cm					
											Droughtiness grade (DR)	2	2	Winter beans.					
12	T	0	25	C+	slight	2.5Y5/3					43	43	n	n	///	3a	3a	WE	
		25	65	C	mod	N5/1	5Y5/4	many			m/poor	48	58	y	n				
		65	105	C	mod	N6/1	Fe	many		5	poor	27	6	y	y				
		<u>105</u>	120	MSt							poor	8	0	y	y				
											Total	125	107	GR.gradient				4o	NW
											MB	15	4	ST.stone>2cm					
											Droughtiness grade (DR)	2	2	Winter beans. Compact 18-25cm					
13	T	0	25	ZC	slight	2.5Y4/2				2	2	41	41	n	n	///	3a	3a	WE
		25	45	ZC	slight	2.5Y5/3	OM			2	2	m/poor	26	26	n	n			
		45	65	ZC	mod	2.5Y5/4	Fe	com		5	5	m/poor	17	25	n	(y)			
		65	100	C	very	N6/1	5Y5/4	many			poor	25	7	y	y				
		<u>100</u>	120	MSt							poor	10	0	y	y				
											Total	118	98	GR.gradient				5o	NW
											MB	8	-5	ST.stone>2cm					
											Droughtiness grade (DR)	2	2	Winter beans. Better drained					
14	T	0	20	ZC	n	5Y5/4					34	34	n	n	///	3b	3b	WE	
		20	44	C	n	5Y5/3	OM				m/poor	35	35	n	n				
		44	100	C	mod	10Y5/1	Fe	com			poor	43	34	y	y				
		<u>100</u>	120	MSt							poor	10	0	y	y				
											Total	122	103	GR.gradient				5o	NW
											MB	12	0	ST.stone>2cm					

															Droughtiness grade (DR)		2	2	Winter beans. Wet in valley to NW		
15	T	0	20	C	slight	2.5Y5/3				48	48	n	n	IV	3b	3b	WE				
		20	35	C	mod	2.5Y5/3	Fe	com		m/poor	19	19	y	n							
		35	68	C	mod	N6/1	5Y5/4	many	5	poor	20	30	y	y							
		68	100	C	very	N7/1	Fe	many		poor	35	0	y	y							
		<u>100</u>	120	MSt						poor	35	0	y	y							
											Total	121	97			GR.gradient	5o	NW			
									MB	11	-6			ST.stone>2cm							
															Droughtiness grade (DR)		2	2	Winter beans. Difficult soil		
16	T	0	32	ZC	slight	2.5Y4/3				53	53	n	n	III	3b	3b	WE				
		32	50	C	n	2.5Y5/3	Fe	com f	2	poor	23	23	y	(y)							
		50	70	hZCL	mod	5Y5/2	Fe	com	2	3	m/poor	15	28	y	n						
		70	100	C	mod	N6/1	Fe	com			poor	21	0	y	y						
		<u>100</u>	120	MSt						poor	10	0	y	y							
											Total	123	104			GR.gradient	3o	NW			
									MB	13	1			ST.stone>2cm							
															Droughtiness grade (DR)		2	2	Winter beans (wet in valley to west)		
17	T	0	25	C+	trace	2.5Y4/2				42	42	n	n	III	3b	3b	WE				
		28	35	C	n	5Y5/3	OM			m/poor	10	10	n	n							
		35	44	C	n	5Y6/4	Fe	com f		m/poor	13	13	y	(y)							
		44	75	C	slight	5Y5/2	Fe	com		poor	25	34	y	y							
		75	100	C	very	N7/1	Fe	com		poor	18	0	y	y							
		<u>100</u>	120	MSt						poor	10	0	y	y							
									Total	118	99			GR.gradient							
									MB	8	-4			ST.stone>2cm							
															Droughtiness grade (DR)		2	2	Stubble		
18	T	0	23	C	n	2.5Y4/2				39	39	n	n	II	3b	3b	WE				
		23	33	C	n	2.5Y5/2	OM				16	16	n	n							
		33	50	C		5Y5/3	Fe	few f		m/poor	25	25	n	n							
		50	70	C		5Y5/2	Fe	com		poor	14	26	y	y							
		70	100	C	mod	10Y6/1	Fe	com		poor	21	0	y	y							
		<u>100</u>	120	MSt						poor	10	0	y	y							

													Total	125	106					GR.gradient	1o	NW	
													MB	15	3					ST.stone>2cm			
													Droughtiness grade (DR)		2	2					Stubble		
19	T	0	25	C	n	2.5Y4/2			2	42	42	n	n	//	3b	3b	WE						
		28	35	C	n	2.5Y5/2	OM		2	11	11	n	n										
		35	55	C	n	5Y5/4				poor	23	26	n	n									
		55	80	C	mod	5Y6/3	Fe	com f		poor	18	20	y	y									
		80	100	C	mod	N5/1	Fe	many		poor	14	0	y	y									
		<u>100</u>	120	MSt						poor	10	0	y	y									
													Total	117	98					GR.gradient			
													MB	7	-5					ST.stone>2cm			
													Droughtiness grade (DR)		2	2					Stubble		
20	T	0	25	C+	n	2.5Y5/3				43	43	n	n	//	3b	3b	WE						
		25	42	C	n	2.5Y5/4	OMFe	com f		m/poor	25	25	(y)	n									
		42	70	ZC	n	5Y6/4				m/poor	26	38	n	n									
		70	100	ZC	v.slight	10Y6/2	Fe	com		poor	21	0	y	y									
		<u>100</u>	120	C	MSt					poor	14	0	y	y									
													Total	128	105					GR.gradient			
													MB	18	2					ST.stone>2cm			
													Droughtiness grade (DR)		2	2					Stubble		
Pit 1	T	0	24	C+	n	2.5Y4/3				41	41	n	n	///	3b	3b	WE						
		24	39	C	n	5Y5/3	OMFe	com f		poor	20	20	y	(y)									
		39	58	C	slight	5Y6/4	OMFe	few	5	5	22	28	n	n									
		58	100	C	mod	N6/1	Fe	com		poor	29	16	y	y									
		<u>100</u>	120	MSt						poor	10	0	y	y									
													Total	122	104					GR.gradient	1o	N	
													MB	12	1					ST.stone>2cm			
													Droughtiness grade (DR)		2	2					Spring barley. Wet spot to east		
21	T	0	25	C+	n	2.5Y4/3				43	43	n	n	///	3b	3b	WE						
		25	35	C	n	2.5Y5/4	OMFe	com f		poor	13	13	(y)	n									
		35	70	C	slight	5Y5/2	OM		5	5	37	51	(y)	n									
		70	100	C	mod	N6/1	Fe	com		poor	21	0	y	y									

		<u>100</u>	120	MSt					poor	10	0	y	y				
									Total	123	107			GR.gradient	1o	N	
									MB	13	4			ST.stone>2cm			
									Droughtiness grade (DR)	2	2			Spring barley. Wet spot to south			
22	T	0	23	C+	slight	5Y5/3			2	39	39	n	n	//	3b	3a	WE
		23	50	C	slight	5Y5/4	OM		2	m/poor	39	39	n	n			
		50	70	C	mod	5Y5/2	Fe	com		poor	14	26	y	y			
		70	120	C	mod	N6/1	Fe	many		poor	35	0	y	y			
									Total	126	103			GR.gradient	1o	N	
						Granular			MB	16	0			ST.stone>2cm			
						topsoil			Droughtiness grade (DR)	2	2			Spring barley. Wet spot to south			
23	T	0	27	C	n	2.5Y5/3				46	46	n	n	IV	3b	3b	WE
		28	35	C	n	2.5Y5/4	OM			m/poor	10	10	n	n			
		35	45	C	n	5Y5/3	Fe	com		poor	13	13	y	y			
		45	70	C	slight	5Y6/4	Fe	com	5	poor	20	31	y	y			
		70	93	C	mod	5Y6/4	Fe	com	5	poor	16	0	y	y			
		<u>93</u>	120	MSt						poor	14	0	y	y			
									Total	118	100			GR.gradient			
									MB	8	-3			ST.stone>2cm			
									Droughtiness grade (DR)	2	2			Stubble, rutted			
24	T	0	25	C+	trace	2.5Y4/3				42	42	n	n	III	3b	3b	WE
		25	52	C	n	2.5Y5/4	OM			poor	36	36	n	n			
		52	100	C	n	5Y6/2	Fe	com f		poor	14	26	y	y			
		<u>100</u>	120	C	MSt					poor	35	0	y	y			
									Total	127	104			GR.gradient			
						Granular			MB	17	1			ST.stone>2cm			
						topsoil			Droughtiness grade (DR)	2	2			Spring barley.			
25	T	0	28	hCL	n	2.5Y4/3				50	50	n	n	//	3a	3a	WE
		28	35	hCL	n	2.5Y4/2				11	11	n	n				
		35	50	C	n	2.5Y5/4	OM			m/poor	22	22	n	n			
		50	90	C/CL	n	2.5Y6/4	Mn	com		poor	28	25	n	y			
		90	120	C	mod	N6/1				poor	21	0	y	y			

													Total	132	108					
													Head	MB	22	5	GR.gradient			
													Droughtiness grade (DR)		2	2	ST.stone>2cm			
																	Spring barley			
26	T	0	28	ZC	n	5Y5/3	Fe	few			48	48	n	n	IV	3b	3b	WE		
		28	40	C		5Y6/3	Fe	com	poor		16	16	y	y						
		40	65	C	slight	5Y6/3	Fe	com	poor		24	33	y	y						
		65	120	C	mod	N5/1	Fe	many	poor		39	7	y	y						
													Total	125	102	GR.gradient				
													Head	MB	15	-1	ST.stone>2cm			
													Droughtiness grade (DR)		2	2	Spring barley (eroded soil on slope)			
27	T	0	28	hCL	n	2.5Y4/2					50	50	n	n	III	3b	3b	WE		
		28	34	hCL	n	2.5Y4/2					10	10	n	n						
		34	55	C	n	5Y6/3	Fe	com f	m/poor		27	30	y	n						
		55	75	C	n	10Y6/1	Fe	com	poor		14	20	y	y						
		75	88	C/CL	n	2.5Y6/4	Mn	com	10	poor	8	0	y	y						
		88	120	C	mod	7.5GY6/1			poor		22	0	y	y						
													Total	132	110	GR.gradient				
													Head	MB	22	7	ST.stone>2cm			
													Droughtiness grade (DR)		2	2	Spring barley (wet areas to north)			
28	T	0	27	C	n	2.5Y5/3			2		45	45	n	n	III	3b	3b	WE FL		
		27	35	C	n	2.5Y5/4			2	poor	10	10	n	n						
		35	50	hCL	mod	5Y6/3	FeMn	com	3	3	23	23	y	n						
		50	65	C	mod	5Y6/3	Fe	many	poor		11	20	y	y						
		65	100	C	very	10Y7/1	Fe	com	poor		25	7	y	y						
		<u>100</u>	120	MSt					poor		10	0	y	y						
													Total	123	104	FL.Flood Risk				
													Head	MB	13	1	EA Fz 3			
													Droughtiness grade (DR)		2	2	ST.stone>2cm			
																	Ley			
29	T	0	28	ZC	n	2.5Y5/3					48	48	n	n	II	3b	3b	WE		
		28	45	C	n	2.5Y5/4	OM			m/poor		25	25	n	n					
		45	70	C	slight	10YR6/3	Mn	com	3	3	21	32	y	n						
		70	95	C	very	N7/1	Fe	com	poor		18	0	y	y						

		<u>95</u>	120	MSt					poor	13	0	y	y					
					10YR6/6				Total	123	105			GR.gradient				
					& 6/3				MB	13	2			ST.stone>2cm				
									Droughtiness grade (DR)	2	2			Ley				
30	T	0	28	C	slight	2.5Y4/3			2	2	46	46	n	n	///	3a	3a	WE
		28	42	C	slight	2.5Y5/4	OM		2	2	m/poor	20	20	n	n			
		42	55	C	mod	5Y6/3	Fe	com		10	poor	13	16	y	y			
		55	80	C	mod	5Y6/2	Fe	com			poor	18	20	y	y			
		80	120	C	very	10GY6/1					poor	28	0	y	y			
						Granular					Total	124	101					
						topsoil					MB	14	-2					
									Droughtiness grade (DR)	2	2			Ley				
31	T	0	24	oZC	n	2.5Y3/2					55	55	n	n	///	3a	3a	WE
		24	45	C		2.5Y4/2	OMFe	many			m/poor	30	30	y	n			
		45	90	C	slight	7.5Y5/2	Fe	com			poor	35	33	y	y			
		<u>90</u>	120	MSt							poor	15	0	y	y			
											Total	135	118					
											MB	25	15					
									Droughtiness grade (DR)	2	1			Permanent Grass				
32	T	0	24	hZCL	n	2.5Y4/2					46	46	n	n	///	3b	3b	WE
		24	38	ZC		2.5Y5/2	OMFe	com			m/poor	19	19	y	n			
		38	55	C		10Y5/1	Fe	com			poor	19	22	y	y			
		55	100	C	slight	5Y6/3	Fe	few			poor	32	20	y	y			
		<u>100</u>	120	MSt							poor	10	0	y	y			
											Total	125	106					
											MB	15	3					
									Droughtiness grade (DR)	2	2			Permanent Grass				
33	T	0	28	C	n	2.5Y5/3					48	48	n	n	IV	3b	3b	WE
		28	32	C		2.5Y5/2	OMFe	com			6	6	y	n				
		32	70	C	n	2.5Y5/2	Fe	com			poor	37	49	y	y			
		70	100	C	slight	N7/1	Fe	many			poor	21	0	y	y			
		<u>100</u>	120	MSt							poor	10	0	y	y			

											Total	122	103					GR.gradient	3o	N			
											MB	12	0					ST.stone>2cm					
											Droughtiness grade (DR)		2	2					Ley				
34	T	0	28	ZC	n	2.5Y5/3				48	48	n	n	III	3b	3b	WE						
		28	40	C		5Y5/3	OMFe	com f		poor	16	16	y	(y)									
		40	70	C	mod	5Y6/3	Fe	com		poor	27	39	y	y									
		70	120	C	very	N7/1	Fe	many		poor	35	0	y	y									
											Total	125	102					GR.gradient	2o	NE			
											MB	15	-1					ST.stone>2cm					
											Droughtiness grade (DR)		2	2					Ley				
35	T	0	30	hCL	slight	2.5Y4/2				3	2	52	52	n	n	II	2	2	WE DR				
		30	50	hCL	mod	2.5Y4/2	OM	com	3	2	31	31	n	n	or I								
		50	80	SCL	mod	10YR6/4	Fe	com	10	5	26	26	y	(y)									
		80	100	C	mod	N6/0	Fe	com	0		poor	14	0	y	y								
		<u>100</u>	120	MSt							poor	10	0	y	y								
											Granular		Total	132	108					GR.gradient	1o	N	
											Top		MB	22	5					ST.stone>2cm			
											Head		Droughtiness grade (DR)		2	2					Winter wheat		
35a	T	0	28	C	n	2.5Y4/3				48	48	n	n	III	3b	3b	WE						
		28	42	C		2.5Y5/2	OMFe	com f		m/poor	20	20	y	n									
		42	80	C	n	2.5Y5/2	Fe	com		poor	31	36	y	y									
		<u>80</u>	120	C/CL	n				30		poor	20	0	y	y								
											Total	120	104					GR.gradient	1o	NE			
											Head		MB	10	1					ST.stone>2cm			
											Droughtiness grade (DR)		2	2					Ley				
36	T	0	28	LC	n	2.5Y4/2				48	48	n	n	III	3b	3b	WE						
		28	45	LC	n	2.5Y5/4	OM			m/poor	25	25	n	n									
		45	65	LC	n	2.5Y6/4	Fe	com		poor	20	29	y	y									
		65	105	C	n	2.5Y6/3	OMFe	com		poor	28	7	y	y									
		<u>105</u>	120	C/CL					30		poor	8	0	y	y								
											Total	128	108					GR.gradient	2o	N			
											Head		MB	18	5					ST.stone>2cm			

										Droughtiness grade (DR)		2		2		Winter wheat		
37	T	0	28	ZC	n	2.5Y4/3	Fe	few		48	48	n	n	IV	3b	3b	WE	
		28	34	C		2.5Y4/2	OMFe	com	m/poor	25	25	y	n					
		34	50	C	n	5Y6/3	Fe	com	poor	20	29	y	y					
		50	100	C	mod	7.5GY7/1	Fe	many	poor	28	7	y	y					
		<u>100</u>	120	MSt					poor	8	0	y	y					
										Total	128	108						
										MB	18	5						
										Droughtiness grade (DR)	2	2						
												GR.gradient		2o		N		
												ST.stone>2cm						
												Winter wheat (wet by wood)						

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	105
MDpotato	97
FCD	146

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	39-67cm	<39cm		1427 D°
SPL within 80cm, gleying at 40-70cm	>50cm	<50cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard

AAR 673

Maximum depth of auger penetration is underlined

75 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
38	0	29	LC	slight	10YR4/3		12	12		39	39	n	n	/	2	3a	DR
	29	50	hCL	very	10YR5/4		15	25	good	29	29	n	n				
	<u>50</u>	120	Lst							21	8						
	Total										89	76	ST.stone>2cm >5% 2				
MB										-16	-21						
Droughtiness grade (DR)										3a	3a	Drilled (maize?)					
39	0	28	hCL	v.slight	10YR4/6		10	5		44	44	n	n	/	2	3a	DR
	28	40	hCL	very	10YR5/4		10	15	good	20	20	n	n				
	40	50	hCL	very			10	15		13	13	n	n				
	<u>50</u>	120	Lst							21	8						
Total										97	84	GR.gradient 1o S					
MB										-8	-13						
Droughtiness grade (DR)										3a	3a	Drilled (maize?)					
40	0	30	hCL	n	10YR4/6		9	3		48	48	n	n	/	2	3a	DR
	30	40	hCL	mod	10YR5/4		0	15	good	18	18	n	n				
	40	50	SCL	very			0	35		11	11	n	n				
	<u>50</u>	120	Lst							21	8						
Total										99	86						
MB										-6	-11						
Droughtiness grade (DR)										3a	3a	Drilled (maize?)					
41	0	30	hCL	mod	10YR4/4		10	10		45	45	n	n	/	2	3a	DR
	30	40	hCL	mod	10YR5/4		10	20	good	16	16	n	n				
	<u>40</u>	50	SCL	very			0	60		8	8	n	n				
	50	120	Lst							21	8						
Total										90	77						
MB																	

									MB	-15	-20	ST.stone>2cm				>5%	2	
									Droughtiness grade (DR)	3a	3a	Drilled (maize?)						
42	T	0	28	hCL	slight	10YR4/4		10	5		44	44	n	n	/	2	3a	DR
		28	40	hCL	very	10YR5/4		5	10	good	22	22	n	n				
		40	52	hCL	very			5	10		16	17	n	n				
		<u>52</u>	120	Lst							20	7						
									Total		102	90						
									MB	-3	-7							
									Droughtiness grade (DR)	3a	2	Drilled (maize?)						
43	T	0	27	hCL	slight	7.5YR4/3		8	4		43	43	n	n	/	2	3a	DR
		27	37	LC	slight	7.5YR5/3		4	10		14	14	n	n				
		37	50	SCL	very	10YR5/4		0	30	good	19	19	n	n				
		<u>50</u>	120	Lst							21	8						
									Total		97	84						
									MB	-8	-13							
									Droughtiness grade (DR)	3a	3a	Spring beans						
44	T	0	27	hCL	n	10YR5/4		10	0		44	44	n	n	///	3b	3b	WE
		27	46	hCL	n	2.5Y7/8	Fe com	10	0		28	28	n	n				
		46	67	C	n	2.5Y6/4	FeMn many	10	0	poor	16	25	y	y				
		<u>67</u>	120	hCL				40	0		33	3	n	n				
									Stony		Total	120	99					
									Head		MB	15	2					
									Droughtiness grade (DR)	2	2	Spring beans (poor)						
45	T	0	32	hCL	v.slight	10YR4/6		6	6		52	52	n	n	/	2	3a	DR
		32	42	hCL	slight	10YR5/4		6	10	good	18	18	n	n				
		42	55	hZCL		7.5YR6/4		0	10		17	20	n	n				
		<u>55</u>	120	Lst							20	6						
									Total		106	96						
									MB	1	-1							
									Droughtiness grade (DR)	3a	2	Drilled (maize?)						
46	T	0	32	hZCL	n	7.5YR4/4		6	0		57	57	n	n	/	2	2	WK DR
		32	45	ZC	n	7.5YR5/4		5	0		19	19	n	n				

		45	80	ZC		7.5YR6/4		5	0	m/poor	28	32	n	n				
		<u>80</u>	120	Lst							12	0						
											Total		116	108				
											MB		11	11				
											Droughtiness grade (DR)		2	1			Drilled (maize?)	
47	T	0	30	hCL	slight	7.5YR4/4		6	4		49	49	n	n	/	2	3a	DR
		30	40	hCL	slight	7.5YR4/6		6	4		15	15	n	n				
		40	52	ZC	mod	7.5YR6/8		0	20		14	15	n	n				
		<u>60</u>	120	Lst							18	4						
											Total		96	83				
											MB		-9	-14				
											Droughtiness grade (DR)		3a	3a			Drilled (maize?)	
48	T	0	28	hCL	n	10YR4/4		10	0		46	46	n	n	/	2	2	WE DR
		28	40	hCL		10YR5/4		10	0		17	17	n	n				
		40	55	hCL		10YR6/6	OM	20	0	m/poor	15	17	n	n				
		55	80	C	n	2.5Y7/6	Fe com f	0	0	poor	18	20	n	y				
		80	120	C	n	2.5Y6/4	Fe many	0	0	poor	28	0	y	y				
											Total		123	100				GR.gradient
											MB		18	3			2o	E
						Head on Clay					Droughtiness grade (DR)		2	2			Spring beans	
49	T	0	27	hCL	slight	7.5YR4/3		3	3		46	46	n	n	/	2	3a	DR
		27	39	hCL	slight	7.5YR5/4		4	4		18	18	n	n				
		39	48	SCL	very			0	30	good	13	13	n	n				
		<u>48</u>	120	Lst							22	9						
											Total		99	86				GR.gradient
											MB		-6	-11			2o	N
						or LC					Droughtiness grade (DR)		3a	3a			Spring beans	
50	T	0	27	hZCL	n	7.5YR4/4		4	0		44	44	n	n	/	2	3a	DR
		27	50	ZC	n	7.5YR5/4		4	0	m/poor	30	30	n	n				
		50	65	LC	slight	10YR5/6		0	10		13	22	n	n				
		<u>65</u>	120	Lst							17	2						
											Total		103	98				

Pit 3	T	0	24	LC	n	2.5Y4/3			4	0	39	39	n	n	IV	3b	3b	WE	
		24	30	C		2.5Y5/4	OM	com	5	0	m/poor	8	8	n	n				
		30	50	C		2.5Y6/6	Grey	com	0	0	poor	26	26	n	y				
		50	100	C	v.slight	5Y6/2	Fe	com	0	0	poor	35	26	y	y				
		<u>100</u>	120	MSt					0	0	poor	10	0	y	y				
											Total	119	100	GR.gradient			2o	S	
											MB	14	3						
											Droughtiness grade (DR)		2	2				Spring beans	
55	T	0	24	LC	v.slight	10YR4/3			5	3		38	38	n	n	I	2	3a	DR
		24	35	LC	slight	10YR5/3			5	3		16	16	n	n				
		35	48	SCL	very				n	30	good	19	19	n	n				
		<u>48</u>	120	Lst								21	9						
											Total	94	82						
											MB	-11	-15						
											Droughtiness grade (DR)		3a	3a				Spring beans (better)	
56	T	0	27	SZL	n	7.5YR4/4			8	0		47	47	n	n	I	1	2	DR
		27	55	mCL		7.5YR5/4			10	0		38	41	n	n				
		55	80	hZCL	n	7.5YR6/4			5	0	m/poor	19	21	n	n				
		80	120	C		5YR5/4	grey	com	0	0	poor	28	0	n	y				
											Total	132	109						
											MB	27	12						
											Droughtiness grade (DR)		2	1				Spring beans	
57	T	0	27	hCL	n	10YR4/4			12	0		43	43	n	n	III	3b	3b	WE
		28	42	LC		2.5Y5/4	Fe	com f	5	0	m/poor	19	19	n	n				
		42	60	C		2.5Y6/3	Mn	com	5	0	poor	17	22	y	y				
		60	100	C		7.5YR6/8	grey	many	0	0	poor	28	13	n	y				
		<u>100</u>	120	MSt					0	0	poor	10	0	y	y				
											Total	117	98	GR.gradient			4o	SE	
											MB	12	1						
											Droughtiness grade (DR)		2	2				Spring beans	
58	T	0	25	ZC	n	2.5Y4/2	Fe	few	4	0		41	41	n	n	IV	3b	3b	WE
		28	35	C		5Y6/4	OM		4	0	m/poor	10	10	y	n				

		35	50	C	n	5Y7/4	Fe	many	0	5	poor	19	19	y	y					
		50	100	LC	n	10YR6/2	Fe	many	0	0	poor	35	25	y	y					
		100	120	CL	n	7.5YR6/8	grey	many	0	0	poor	14	0	n	y					
												Total		118	94					
												Clay YR		MB	13	-3	GR.gradient 4o SW			
												and grey		Droughtiness grade (DR)		2	2	Rough grass		

59	T	0	28	mCL	n	7.5YR45/4			5	0		48	48	n	n	/	2	2	WE DR
Pit 4		28	48	mCL		10YR6/6			5	0	m/poor	27	27	n	n				
		48	70	hZCL		7.5YR5/4			0	0		23	37	n	n				
		70	85	ZC		5YR4/6	& 5/3	com	0	0	poor	11	0	n	(y)				
		<u>85</u>	120	Lst								11	0						
												Total		119	112				
												MB		14	15				
												Droughtiness grade (DR)		2	1	Spring beans			

60	T	0	22	C	n	2.5Y5/4			4	0		36	36	n	n	IV	3b	3b	WE
		22	32	C		5Y7/4	Fe	com	0	0		16	16	y	n				
		32	60	C		5Y7/4	Fe	many	0	0	poor	30	36	y	y				
		60	95	C	n	5Y7/8	FeMn	many	0	0	poor	25	13	n	y				
		<u>95</u>	120	Mst					0	0	poor	13	0	y	y				
												Total		119	101				
												MB		14	4	GR.gradient 3o E			
												Droughtiness grade (DR)		2	2	Spring beans (better crop)			

61	T	0	25	LC	slight	2.5Y4/3			15	5		35	35	n	n	IV	3b	3b	WE
		28	35	C	slight	5Y6/3	Fe	com	15	5		9	9	y	n				
		35	70	C	mod	5Y7/4	Fe	many	0	0	poor	34	46	y	y				
		70	100	C	slight	10GY7/1	Fe	many	0	0	poor	21	0	y	y				
		<u>100</u>	120	Mst					0	0	poor	10	0	y	y				
												Total		109	90				
												MB		4	-7	GR.gradient Brow			
												Droughtiness grade (DR)		3a	2	ST.stone>2cm >5% 2			
														Spring beans					

62	T	0	24	C	slight	2.5Y5/4			10	5		35	35	n	n	IV	3b	3b	WE
		24	33	C	slight	2.5Y5/3	Fe	com	5	5		13	13	y	n				

		33	70	C	slight	5Y6/4	Fe	many	0	0	poor	36	48	y	y					
		70	110	C	v.slight	10GY7/1	Fe	many	0	0	poor	28	0	y	y					
		<u>110</u>	120	Mst					0	0	poor	5	0	y	y					
												Total		118	97	GR.gradient			3o	E
												MB		13	0					
												Droughtiness grade (DR)		2	2	Spring beans (better crop)				

63	T	0	27	mCL	n	7.5YR5/4			8	0		45	45	n	n	/	1	2	DR	
		27	42	mCL		7.5YR5/4			5	0		23	23	n	n					
		42	70	ZC		7.5YR5/6			0	0	m/poor	26	38	n	n					
		70	120	C	n	5YR5/4	grey	com	0	0	poor	35	0	n	y					
												Total		129	106					
												MB		24	9					
												Droughtiness grade (DR)		2	2	Spring beans				

63a	T	0	27	mCL	n	7.5YR5/4			10	0		44	44	n	n	//	2	2	DR WE	
		27	65	mCL		7.5YR5/4	OM		5	0		49	58	n	n					
		65	120	ZC	n	5YR6/4	grey	com	0	0	poor	39	6	y	y					
												Total		132	108	GR.gradient			1-2o	E
												MB		27	11					
												Droughtiness grade (DR)		2	1	Spring beans				

64	T	0	27	hCL	n	7.5YR4/4			4	0		44	44	n	n	/	2	2	WK DR	
		27	50	ZC		7.5YR5/4			0	0		35	35	n	n					
		50	70	ZC		7.5YR6/4			0	0	m/poor	15	27	n	n					
		70	86	hCL	very	5YR5/4	Fe	com	0	10		15	0	y	n					
		<u>86</u>	120	Lst								10	0							
												Total		119	106					
												MB		14	9					
												Droughtiness grade (DR)		2	2	Spring beans				

65	T	0	27	hCL	vslight	7.5YR4/4			6	4		44	44	n	n	/	2	3a	DR
		27	42	hCL		7.5YR5/4			6	4		22	22	n	n				
		42	50	ZC		7.5YR6/6			0	0	m/poor	11	11	n	n				
		50	65	hCL	very				0	10		14	22	n	n				
		<u>65</u>	120	Lst								17	2						

													Total	108	101							
													MB	3	4							
													Droughtiness grade (DR)		3a	2	Spring beans					
66	T	0	27	hCL	n	7.5YR4/3				20	0		39	39	n	n	//	3a	3a	WE		
		27	35	hCL	n	7.5YR5/3				20	0	good	14	14	n	n						
		35	55	LC		5YR6/6	Fe	com	10	0	poor	20	23	n	n							
		55	120	LC		5Y7/6	Fe	com	0	0	poor	46	19	n	y							
													Total	119	94	GR.gradient			3o	E		
													MB	14	-3							
													Droughtiness grade (DR)		2	2	Spring beans					
67	T	0	28	hCL	mod	10YR4/3				10	20		38	38	n	n	/	2	3a	DR		
		28	45	hCL	very		OM				10	20	good	27	27	n	n					
		45	80	SCL					40	20		18	18	n	n							
		80	120	C					0	0	poor	28	0	n	n							
													Total	110	82	GR.gradient			1o	E		
													Gravel			ST.stone>2cm			>5%	2		
													Cap			Droughtiness grade (DR)			2	3a	Spring beans	
68	T	0	25	C	n	2.5Y4/4				15	0		37	37	n	n	IV	3b	3b	WE		
		25	30	C			Fe	com	15	0		7	7	y	n							
		30	75	C		2.5Y7/6	Fe	com	0	0	poor	44	52	n	y							
		75	100	C	n	5Y5/6	& 7/6	many	0	0	poor	18	0	n	y							
		100	120	Mst					0	0	poor	10	0	y	y							
													Total	114	95	GR.gradient			3o	E		
													MB	9	-2							
													Droughtiness grade (DR)		2	2	Spring beans					
69	T	0	27	hCL	n	7.5YR5/4				8	0		45	45	n	n	/	2	2	WE		
		27	35	hCL		10YR6/6				8	0		12	12	n	n						
		35	70	LC		7.5YR6/6	Fe	com f	10	0		38	51	n	n							
		70	120	C		10Y6/1	Fe	com	0	0	poor	35	0	y	y							
													Total	130	108							
													MB	25	11							
													Droughtiness grade (DR)		2	1	Drilled					

70	T	0	27	LC	slight	10YR4/3		5	10		40	40	n	n	/	2	3a	DR	
		27	45	C	mod	10YR5/3		5	10		25	25	n	n					
		<u>45</u>	120	Lst								23	10						
		Total										89	76	ST.stone>2cm >5% 2					
Droughtiness grade (DR)										3a	3a	Drilled							
71	T	0	28	hCL	n	10YR5/3		8	0		47	47	n	n	//	3a	3a	WE	
		28	44	hCL		7.5YR5/4		8	0		24	24	n	n					
		44	65	LC		7.5YR6/4	Fe com f	10	0		21	30	y	n					
		65	82	C		7.5YR6/4	Fe com	0	0	poor	12	7	y	y					
		<u>82</u>	120	Lst							11	0							
Total										114	107								
Droughtiness grade (DR)										2	1	Drilled							
71a	T	0	28	C	slight	10YR5/4		5	10		42	42	n	n	/	2	3a	DR	
		28	47	C	mod	10YR5/3		5	20	good	32	32	n	n					
		<u>47</u>	120	Lst							22	9							
Total										95	82	ST.stone>2cm >5% 2							
Droughtiness grade (DR)										3a	3a	Drilled							
72	T	0	28	SZL	n	10YR5/4		8	0		49	49	n	n	/	1	2	DR	
		28	40	mCL		10YR6/6		8	0		18	18	n	n					
		40	50	hCL				25	0	good	16	16	n	n					
		<u>50</u>	80	SCL				40	20		14	14	n	n					
		80	120	Mst				0	0	poor	20	0	y	y					
Gravel depth uncertain										Total	117	97	GR.gradient 1o E						
Droughtiness grade (DR)										2	2	Drilled							
73	T	0	28	hCL	mod	2.5Y4/4		15	10		39	39	n	n	/	2	3a	DR	
		28	50	hCL	mod	2.5Y5/3		15	10		28	28	n	n					
		<u>50</u>	80	SCL				40	20		14	14	n	n					
		80	120	C						poor	28	0	n	n					

													Total			109	81								
													Gravel			MB	4	-16	GR.gradient			2o	E		
													Cap			Droughtiness grade (DR)		3a	3a	ST.stone>2cm			>5%	2	
																Droughtiness grade (DR)			Spring beans						
74	T	0	28	LC	n	2.5Y4/3			10	0		43	43	n	n	///	3b	3b	WE						
		28	32	LC		5Y7/4	Mn		15	0		6	6	n	n										
		32	70	C		2.5Y7/6			0	0	poor	37	49	n	y										
		70	120	C	n	2.5Y7/8	grey	many f	0	0	poor	35	0	n	y										
													Total			121	98	GR.gradient			2o	E			
													MB			16	1	ST.stone>2cm			>5%	2			
													Droughtiness grade (DR)			2	2	Spring beans							
75	T	0	28	SZL	slight	10YR4/4			6	2		49	49	n	n	/	1	2	DR						
		28	65	mCL		7.5YR5/4	OM		10	0		45	54	n	n										
		<u>65</u>	80	SCL					40	20		7	4	n	n										
		80	120	Mst					0	0	poor	20	0	y	y										
													Gravel			Total		122	107	GR.gradient			1o	E	
													depth			MB		17	10	ST.stone>2cm			>5%	2	
													uncertain			Droughtiness grade (DR)		2	2	Spring beans					
																Droughtiness grade (DR)			Drilled						
76	T	0	28	LC	n	2.5Y4/4			4	0		46	46	n	n	//	3b	3b	WE						
		28	45	C		2.5Y7/8	FeOM	com	0	0	m/poor	25	25	n	(y)										
		45	70	mCL		2.5Y7/6	Fe	com	0	0	m/poor	24	35	n	n										
		70	120	mCL		2.5Y7/6	Fe	many	0	0	poor	35	0	n	y										
													Total			129	105	GR.gradient			2o	E			
													MB			24	8	ST.stone>2cm			>5%	2			
													Droughtiness grade (DR)			2	2	Spring beans							

Stone types		
%	TAv	EAv
hard	1	0.5
Lstone	4	3

hard flint & pebble

Climate Data	
MDwheat	108
MDpotato	100
FCD	144

AAR 660

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>66cm	39-66cm	<39cm		1436
SPL within 80cm, gleying at 40-70cm	>49cm	<49cm			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% Lstone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
77	0	22	C	n	10YR4/2	Fe com	0	0		37	37	y	n	IV	3b	3b	WE FL
	22	120	C	n	N5/	Fe many	0	0	poor	85	62	y	y				
										Total	123	100	EA-FZ3-3b				
										MB	15	0					
										Droughtiness grade (DR)		2	2				
78	0	20	C	n	10YR4/2		0	3		33	33	n	n	IV	3b	3b	WE GW FL
	20	52	C	n	10YR6/1	Fe many	0	0	poor	40	42	y	y				
	52	120	OC	n	10YR2/1		0	0		109	41	n	n				
										Total	182	116	LSS- saturated				
										MB	74	16	EA-FZ3-3b				
									Droughtiness grade (DR)		1	1					
79 Pit 5	0	26	hCL	n	10YR4/2		3	0		45	45	n	n	//	3a	3a	WE
	26	57	hCL	n	10YR5/3	Femn com	3	0		44	48	y	n				
	57	120	C	n	10YR5/3	Femn many	10	0		46	19	y	n				
										Total	135	113					
										MB	27	13					
									Droughtiness grade (DR)		2	1					
80	0	25	hCL	n	10YR3/3		3	0		44	44	n	n	//	3a	3a	WE
	25	53	hCL	n	10YR5/3	Fe com	0	0		43	45	y	n				
	53	70	hCL	n	10YR5/2	Femn many	0	0		17	27	y	n				
	70	80	mSL	very	10YR5/6		0	40		8	0	n	n				
	<u>80</u>	120	LmS	very	10YR5/6		0	40		19	0	n	n				
										Total	131	116					
									MB	23	16						
									Droughtiness grade (DR)		2	1					

81	T	0	27	C	calc	10YR4/2		5	25		35	35	n	n	/	2	3b	DR
		27	40	C	mod	10YR5/4		0	30		16	16	n	n				
		40	120	LmS	very	10YR4/6		10	40		36	19	n	n				
		Total											87	70				
MB											-21	-30						
Droughtiness grade (DR)											3b	3b						
82	T	0	23	C	n	10YR3/2		1	2		38	38	n	n	/V	3b	3b	WE FL
		23	120	C	n	10YR6/1	Fe many	0	0	poor	84	61	y	y				
		Total											122	99	EA-FZ3-3b			
		MB											14	-1				
Droughtiness grade (DR)											2	2						
83 Pit 6	T	0	28	C	sli	10YR4/2		5	10		42	42	n	n	/	2	3a	DR
		28	35	C	sli	10YR4/4		5	10		10	10	n	n				
		35	45	C	sli	10YR5/4		0	30		12	12	n	n				
		45	120	LmS	very	10YR4/6		0	40		37	18	n	n				
Total											101	81						
MB											-7	-19						
Droughtiness grade (DR)											3a	3a						
84	T	0	24	hCL	mod	10YR3/3		5	10		38	38	n	n	/	2	3a	DR
		24	36	C	mod	10YR4/4		5	10		17	17	n	n				
		36	120	LmS	very	10YR4/6		0	40		43	24	n	n				
		Total											98	78				
MB											-10	-22						
Droughtiness grade (DR)											3a	3a						
85	T	0	25	SCL	calc	10YR3/3		5	30		31	31	n	n	/	1	3b	DR
		25	120	LmS	very	10YR5/6		0	40		51	32	n	n				
		Total											82	62				
MB											-26	-38						
Droughtiness grade (DR)											3b	3b						
86	T	0	24	C	mod	10YR4/2		1	0		40	40	n	n	/V	3b	3b	WE FL
		24	120	C	mod	10YR6/1	Fe many	0	0	poor	83	60	y	y				
		Total											123	100	EA-FZ3-3b			

									MB	15	0								
									Droughtiness grade (DR)		2	2							
87	T	0	28	C	n	10YR4/2				3	2	46	46	n	n	/	3a	3a	WE DR
		28	45	C	n	10YR4/4				5	5	25	25	n	n				
		<u>45</u>	120	LmS	very	10YR4/6				0	40	37	18	n	n				
										Total		108	88						
									MB	0	-12								
									Droughtiness grade (DR)		3a	3a							
88	T	0	25	hCL	mod	10YR4/4				12	8	37	37	n	n	/	2	3b	DR
		25	32	hCL	very	10YR7/4				10	20	good	11	11	n	n			
		<u>32</u>	120	Lst								28	15						
										Total		76	63						
									MB	-32	-37								
								Dry	Droughtiness grade (DR)		3b	3b							
89	T	0	25	hCL	mod	10YR4/3				12	8	37	37	n	n	/	2	3b	DR
		25	38	hCL	very	10YR7/4				10	20	good	20	20	n	n			
		<u>38</u>	120	Lst								26	13						
								or Lst		Total		83	70						
								gravel		MB	-25	-30							
								Dry	Droughtiness grade (DR)		3b	3a							
90	T	0	23	C	sli	10YR4/2				2	0	38	38	n	n	/V	3b	3b	WE FL
		23	45	C	sli	10YR5/2	Fe	many		0	0	poor	29	29	y	y			
		45	120	C	mod	10YR6/1	Femn	many		0	0	poor	56	33	y	y			
										Total		122	99						
									MB	14	-1								
									Droughtiness grade (DR)		2	2							
91	T	0	25	hCL	mod	10YR4/4				8	4	40	40	n	n	/	2	3a	DR
		25	50	SCL	extr	10YR7/3				5	15	32	32	n	n				
		<u>50</u>	120	Lst								21	8						
								Soft		Total		93	80						
								sandy		MB	-15	-20							
								Lst	Droughtiness grade (DR)		3a	3a							

91a	T	0	30	hCL	n	7.5YR4/4	0	0	54	54	n	n	/	2	2	DR WK
		30	79	hCL		7.5YR6/6	0	0	61	64	n	n				
		<u>79</u>	120	Lst					12	0						
						Fine		Total	127	118						
						sandy		MB	19	18						
						to silty		Droughtiness grade (DR)	2	1						
92	T	0	25	hZCL	mod	10YR4/3	10	5	41	41	n	n	/	2	3a	DR DP
		25	35	hCL	mod	10YR7/4	5	10	good	18	18	n	n			
		35	45	hCL	very	10YR7/4	10	20		12	12	n	n			
		<u>45</u>	120	Lst						23	10					
								Total	95	82						
						Dry		MB	-13	-18						
								Droughtiness grade (DR)	3a	3a						
92a	T	0	25	hZCL	slight	10YR4/3	8	4	42	42	n	n	/	2	3b	DR
		25	32	hCL	mod	10YR7/4	10	20	good	11	11	n	n			
		<u>32</u>	120	Lst						28	15					
										Total	82	69				
						Dry		MB	-26	-31						
								Droughtiness grade (DR)	3b	3b						

Stone types		
%	TAv	EAv
hard	1	0.5
Lstone	4	3

hard flint & pebble

Climate Data	
MDwheat	105
MDpotato	97
FCD	144

AAR 668

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>66cm	39-66cm	<39cm		1414
SPL within 80cm, gleying at 40-70cm	>49cm	<49cm			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% Lstone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
93	0	18	hCL	n	10YR3/3		0	0		32	32	n	n	IV	3b	3b	WE FL
	18	35	C	sli	10YR5/2	Fe com	0	0	poor	22	22	y	y				
	35	60	C	mod	10YR5/2	Fe many	0	0	poor	27	33	y	y				
	60	120	C	n	10YR5/1	Femn many	0	0	poor	42	13	y	y				
	Total										123	100	EAFZ3-3b				
MB										18	3						
Droughtiness grade (DR)										2	2						
94	0	25	hCL	mod	10YR4/2		5	10		39	39	n	n	I	2	2	WE DR
	25	65	SCL	very	10YR4/6		0	15		47	53	n	n				
	65	120	SCL	very	10YR5/8		0	10		51	7	n	n				
	Total										137	100					
	MB										32	3					
Droughtiness grade (DR)										1	2						
95	0	20	hCL	n	10YR3/3	Fe com	2	0		35	35	n	n	IV	3b	3b	WE
	20	62	C	mod	2.5Y5/2	Fe com	0	0	poor	47	55	y	y				
	62	120	C	mod	10YR6/1	Femn many	0	0	poor	41	10	y	y				
	Total										123	100	Just outside EAFZ3				
	MB										18	3					
Droughtiness grade (DR)										2	2						
96	0	27	hCL	n	10YR4/2		3	5		45	45	n	n	I	2	2	WE
	27	96	C	v.sli	10YR4/3		0	7		70	65	n	n				
	96	120	hCL	mod	10YR4/6		0	7		23	0	n	n				
	Total										138	111					
	MB										33	14					
Droughtiness grade (DR)										1	1						

97	T	0	24	mCL	mod	10YR3/3		2	10	39	39	n	n	/	1	3a	DR	
		24	40	mCL	mod	10YR4/4		0	15	23	23	n	n					
		40	60	LmS	very	10YR4/4		0	20	13	16	n	n					
		<u>60</u>	120	LmS	very	10YR4/6		0	50	27	7	n	n					
										Total	102	84						
										MB	-3	-13						
										Droughtiness grade (DR)		3a	3a					
98	T	0	35	C	n	10YR3/3	Fe	com	5	2	56	56	n	n	IV	3b	3b	WE GR
		35	86	C	v.sli	10YR5/2	Fe	many	3	0	poor	43	44	y	y			
		86	120	C	sli	10YR5/1	Femn	v.many	0	0	poor	24	0	y	y			
												Total	123	100	Base of 7de slope- 3b (GR)			
										MB	18	3						
										Droughtiness grade (DR)		2	2					
99	T	0	25	C	sli	10YR3/3		3	5	40	40	n	n	III	3a	3a	WE	
		25	57	C	mod	2.5Y5/3	Fe	com	10	0		41	46	y	n			
		57	120	C	very	10YR5/1	Fe	com	10	0	poor	40	15	y	y			
												Total	121	101				
										MB	16	4						
										Droughtiness grade (DR)		2	2					
100 Pit 7	T	0	27	hCL	mod	10YR3/3		3	10	43	43	n	n	/	2	3a	DR	
		27	60	LmS	very	10YR4/6		0	50	19	21	n	n					
		<u>60</u>	120	LmS	very	10YR4/6		0	50	27	7	n	n					
												Total	90	71				
										MB	-15	-26						
										Droughtiness grade (DR)		3a	3a					
101	T	0	25	mCL	mod	10YR3/3		2	10	41	41	n	n	/	1	3a	DR	
		25	30	mCL	mod	10YR4/4		0	20	7	7	n	n					
		<u>30</u>	120	LmS	very	10YR4/6		0	50	45	26	n	n					
												Total	92	73				
										MB	-13	-24						
										Droughtiness grade (DR)		3a	3a					
102	T	0	27	C	n	10YR3/3		2	3	44	44	n	n	I-II	3b	3b	WE GR	

27	75	C	sli	2.5Y5/3				0	3		56	67	n	n			
75	120	C	mod	10YR5/2	Femn	com		0	3	poor	31	0	y	y			
											Total		131	111	Base of 8-9 de slope- 3b (GR)		
											MB		26	14			
											Droughtiness grade (DR)		2	1			

103	T	0	27	C	n	10YR4/2					7	2		42	42	n	n	/V	3b	3b	WE
		27	45	C	sli	10YR5/2	Fe	many			0	5	poor	23	23	y	y				
		45	120	C	n	10YR5/1	Fe	com			0	0	poor	56	33	y	y				
											Total		120	97							
											MB		15	0							
											Droughtiness grade (DR)		2	2							

104	T	0	25	hCL	trace	10YR3/3					12	0		40	40	n	n	/	2	2	WE DR
		25	70	hCL	v.sli	10YR4/4					12	0		53	64	n	n				
		70	120	hCL	v.sli	10YR5/8	Mn	com			5	0		48	0	n	n				
											Total		141	104							
											MB		36	7							
											Droughtiness grade (DR)		1	2							

105	T	0	24	hCL	sli	10YR3/3					2	5		41	41	n	n	/	2	3a	DR
		24	50	mSL	very	10YR4/4					0	50		25	25	n	n				
		<u>50</u>	120	LmS	very	10YR4/6					0	50		32	13	n	n				
											Total		97	78							
											MB		-8	-19							
											Droughtiness grade (DR)		3a	3a							

106	T	0	23	C	n	10YR4/2					5	3		36	36	n	n	//	3b	3b	WE
		23	69	C	sli	2.5Y5/3					3	0		57	72	n	n				
		69	120	C	mod	10YR6/1	Fe	com			0	0		41	2	y	y				
											Total		134	109							
											MB		29	12							
											Droughtiness grade (DR)		2	1							

107	T	0	26	C	n	10YR4/2					7	3		40	40	n	n	//	3b	3b	WE
		26	55	C	sli	2.5Y5/3					3	0		41	45	n	n				
		55	120	C	n	10YR5/2	Fe	com			0	5	poor	44	19	y	y				

														Total	126	104					
														MB	21	7					
														Droughtiness grade (DR)		2	2				
108	T	0	26	hCL	n	10YR4/2			10	2		42	42	n	n	III	3b	3b	WE		
		26	52	C	n	10YR5/3	Femn	many	3	0		39	40	y	n						
		52	120	C	n	10YR5/1	Fe	com	0	0	poor	48	23	y	y						
														Total	128	105					
														MB	23	8					
														Droughtiness grade (DR)		2	2				
109	T	0	25	hCL	n	10YR3/3			5	0		43	43	n	n	I	2	2	WE		
		25	72	hCL	n	10YR4/4			3	2		59	69	n	n						
		72	120	hCL	n	10YR4/6	mn	com	3	2		46	0	n	n						
														Total	148	112					
														MB	43	15					
														Droughtiness grade (DR)		1	1				
110	T	0	25	C	n	10YR3/3	Fe	com	2	0		42	42	n	n	IV	3b	3b	WE FL		
		25	120	C	sli	10YR6/1	Fe	many	0	0	poor	82	59	y	y						
																Total	123	100			
														MB	18	3					
														Droughtiness grade (DR)		2	2				
111	T	0	27	hCL	mod	10YR3/3			5	20		39	39	n	n	I	2	3a	DR		
		27	100	hCL	very	10YR4/6			0	40		62	48	n	n						
		100	120	hCL	very	10YR4/6			0	40		14	0	n	n						
														Total	115	87					
														MB	10	-10					
														Droughtiness grade (DR)		2	3a				
112	T	0	25	C	n	10YR4/2			7	0		40	40	n	n	II-III	3b	3b	WE		
		25	49	C	n	2.5Y5/3	Fe	few	0	0		38	38	n	n						
		49	120	C	n	10YR5/1	Fe	com	0	0	poor	50	27	y	y						
														Total	128	105					
														MB	23	8					
														Droughtiness grade (DR)		2	2				

113	T	0	28	hCL	n	10YR4/2			5	2	47	47	n	n	IV	3b	3b	WE	
		28	120	C	n	10YR5/1	Fe	many	0	0	poor	78	55	y	y				
												Total		125	102				
												MB		20	5				
												Droughtiness grade (DR)		2	2				
114	T	0	26	hCL	sli	10YR4/2			5	2	44	44	n	n	I	2	2	WE	
		26	63	hCL	n	10YR4/4			10	0		47	54	n	n				
		63	120	hCL	v.sli	10YR5/8	mn	com	10	3		50	10	n	n				
												Total		141	107				
												MB		36	10				
										Droughtiness grade (DR)		1	1						
115	T	0	24	hCL	n	10YR3/3			3	2	41	41	n	n	III	3b	3b	WE FL	
		24	56	C	v.sli	10YR5/3	Femn	many	0	2		46	50	y	n				
		56	120	C	mod	10YR5/1	Fe	many	0	0	poor	45	18	y	y				
												Total		132	110	EAFZ3-3b			
												MB		27	13				
										Droughtiness grade (DR)		2	1						
116	T	0	28	hCL	mod	10YR3/3			5	30	36	36	n	n	III	3b	3b	WE GR	
		28	40	hCL	very	10YR4/6			0	40		13	13	n	n				
		40	120	C	mod	N5/1	Fe	com	2	0	poor	61	38	y	y				
												Total		111	88	Top of 8-10 de slope- 3b (GR)			
												MB		6	-9				
										Droughtiness grade (DR)		2	2						
117	T	0	30	hCL	sli	10YR4/2			10	5	47	47	n	n	I	2	2	WE DR	
		30	71	C	sli	10YR5/3			0	7		46	61	n	n				
		71	107	SCL	very	10YR5/8			0	20		31	0	n	n				
		107	120	C	mod	10YR5/1	Fe	many	0	0	poor	9	0	y	y				
												Total		133	107				
										MB		28	10						
										Droughtiness grade (DR)		2	1						
118	T	0	28	C	n	10YR4/2			7	2	44	44	n	n	IV	3b	3b	WE	
		28	70	C	n	10YR5/1	Fe	many	0	0	poor	43	55	y	y				

		70	120	C	n	N5/	Fe	com	0	0	poor	35	0	y	y				
											Total	121	98						
											MB	16	1						
											Droughtiness grade (DR)		2	2					
119	T	0	26	hCL	n	10YR4/2			7	0		44	44	n	n	/V	3b	3b	WE
		26	120	C	n	10YR5/2	Femn	v.many	0	0	poor	80	57	y	y				
											Total	124	101						
											MB	19	4						
											Droughtiness grade (DR)		2	2					
120	T	0	25	hCL	mod	10YR3/3			3	5		42	42	n	n	/	2	2	WE DR
		25	48	C	mod	10YR4/4			10	3		33	33	n	n				
		48	120	C	n	10YR5/8			10	5		52	31	n	n				
											Total	126	105						
											MB	21	8						
											Droughtiness grade (DR)		2	2					
121	T	0	17	hCL	n	10YR4/2			2	0		30	30	n	n	/V	3b	3b	WE MR GR
		17	38	C	n	10YR5/2	Fe	com	0	0		34	34	y	n				
		38	120	C	sli	10YR6/1	Fe	many	0	0	poor	65	42	y	y				
											Total	128	105						
											MB	23	8						
											Droughtiness grade (DR)		2	2					
122	T	0	30	SCL	mod	10YR4/2			10	7		43	43	n	n	/	1	3a	DR
		30	40	mSL	very	10YR4/3			5	15		13	13	n	n				
		40	80	mSL	very	10YR5/3			0	40		34	32	n	n				
		<u>80</u>	120	LmS	very	10YR5/3			0	40		19	0	n	n				
											Total	109	88						
											MB	4	-9						
											Droughtiness grade (DR)		3a	2					
123	T	0	27	C	n	10YR4/2			7	3		42	42	n	n	//	3b	3b	WE
		27	60	C	n	10YR5/3			10	0		41	48	n	n				
		60	120	C	mod	N5/	Fe	many	0	0	poor	42	13	y	y				
											Total	124	103						

R+F on uneven slope-3b MR
9-10 de slope- 3b (GR)

										MB	19	6						
										Droughtiness grade (DR)		2	2					
124	T	0	27	C	n	10YR4/2		5	2		43	43	n	n	IV	3b	3b	WE
		27	120	C	n	10YR6/1	Fe	many	0	0	poor	79	56	y	y			
											Total		122	99				
										MB	17	2						
										Droughtiness grade (DR)		2	2					
125	T	0	26	hCL	n	10YR4/2		10	2		42	42	n	n	//	3a	3a	WE
		26	37	hCL	n	10YR4/4		15	0		15	15	n	n				
		<u>37</u>	120	hCL	n	10YR4/4	Fe	com	20	0		74	43	y	n			
											Total		130	100				
										MB	25	3						
										Droughtiness grade (DR)		2	2					
126	T	0	24	hCL	mod	10YR3/3		10	3		38	38	n	n	/	2	2	WE DR
		24	65	hCL	mod	10YR4/4		10	5		49	57	n	n				
		65	80	C	sli	10YR4/6		7	0		11	7	n	n				
		<u>80</u>	120	C	sli	10YR4/6		7	0		30	0	n	n				
											Total		128	103				
										MB	23	6						
										Droughtiness grade (DR)		2	2					
127	T	0	25	hCL	n	10YR4/2		2	0		44	44	n	n	/	2	3b	MR GR
		25	90	C	n	10YR5/3		2	0		71	71	n	n				
		90	120	C	n	10YR4/3	Fe	com	0	0		24	0	y	n			
											Total		139	115				
										MB	34	18						
										Droughtiness grade (DR)		1	1					
128	T	0	30	SCL	mod	10YR4/2		10	2		45	45	n	n	/	1	3a	DR
		30	44	SCL	mod	10YR4/6		10	5		18	18	n	n				
		44	50	mSL	very	10YR5/3		0	40		6	6	n	n				
		<u>50</u>	120	LmS	very	10YR5/3		0	40		34	14	n	n				
											Total		104	84				
										MB	-1	-13						

Remnant R+F on uneven slope-3b MR
7-9 de slope- 3b (GR)

											Droughtiness grade (DR)		3a	3a					
129	T	0	25	C	n	10YR4/2			5	7		38	38	n	n	//	3b	3b	WE
		25	45	C	n	10YR5/3			5	7		29	29	n	n				
		45	68	hCL	very	10YR5/8			0	20		22	31	n	n				
		68	120	C	n	5N/	Fe	com	0	0	poor	36	3	y	y				
		Total											126	101					
MB											21	4							
Droughtiness grade (DR)											2	2							
130	T	0	25	C	mod	10YR4/2			10	3		40	40	n	n	/	2	2	WE DR
		25	120	C	sli	10YR4/4			15	5		79	59	n	n				
		Total											119	99					
MB											14	2							
Droughtiness grade (DR)											2	2							
131	T	0	26	C	mod	10YR3/3			7	7		39	39	n	n	/	2	2	WE DR
		26	50	C	sli	10YR4/4			10	0		35	35	n	n				
		50	62	C	sli	10YR4/6			5	0		9	18	n	n				
		62	120	LmS	very	10YR5/8			0	30		30	6	n	n				
Total											112	98							
MB											7	1							
Droughtiness grade (DR)											2	2							
132	T	0	24	C	n	10YR3/3	Fe	com	2	0		40	40	n	n	/V	3b	3b	WE
		24	120	C	mod	10YR5/1	Fe	many	0	0	poor	83	60	y	y				
		Total											123	100					
MB											18	3							
Droughtiness grade (DR)											2	2							
Subsoil plastic																			
133	T	0	25	SCL	mod	10YR4/2			0	30		33	33	n	n	/	1	3b	DR
		25	120	LmS	very	10YR5/6			0	50		48	29	n	n				
		Total											80	62					
MB											-25	-35							
Droughtiness grade (DR)											3b	3b							
134	T	0	26	C	trace	10YR4/2			10	0		40	40	n	n	//	3b	3b	WE
		26	60	SC	v.sli	10YR5/3	Femn	v.many	10	0		42	46	y	n				

		60	92	SC	v.sli	10YR5/8	Femn	few	15	0		27	13	n	n					
		92	120	C	n	N5/1	Fe	com	0	0	poor	20	0	y	y					
												Total	129	99						
												MB	24	2						
												Droughtiness grade (DR)	2	2						
135	T	0	25	C	n	10YR4/2			10	0		39	39	n	n	//	3b	3b	WE	
		25	50	C	n	10YR5/4	Fe	com	5	0		38	38	n	n					
		50	96	C	n	2.5Y5/2	Femn	v.many	2	0	poor	32	26	y	y					
		96	120	C	n	10YR5/1	Fe	com	0	0	poor	17	0	y	y					
												Total	125	102						
												MB	20	5						
												Droughtiness grade (DR)	2	2						
136	T	0	24	hCL	n	10YR3/3			5	3		40	40	n	n	//	3a	3a	WE	
		24	43	C	n	10YR5/3	Femn	com	2	3		29	29	y	n					
		43	120	hCL	n	10YR5/2, 10YR4/4	Femn	many	2	0		80	42	y	n					
												Total	149	112						
												MB	44	15						
												Droughtiness grade (DR)	1	1						
137	T	0	24	C	sli	10YR4/2			7	2		37	37	n	n	/V	3b	3b	WE	
		24	36	C	sli	2.5Y5/3	Fe	few	0	0		19	19	n	n					
		36	120	C	v.sli	10YR6/1	Fe	many	0	0	poor	67	44	y	y					
												Total	124	101						
												MB	19	4						
												Droughtiness grade (DR)	2	2						
138	T	0	23	C	mod	10YR3/3			5	3		36	36	n	n	/	2	2	WE DR	
		23	120	C	v.sli	10YR4/6			10	0		90	68	n	n					
												Total	126	105						
												MB	21	8						
												Droughtiness grade (DR)	2	2						
139	T	0	25	hCL	mod	10YR3/3			3	7		41	41	n	n	/	2	2	WE DR	
		25	55	hCL	mod	10YR4/4			0	10		42	44	n	n					
		55	90	SCL	very	10YR5/8			0	30		28	18	n	n					

		<u>90</u>	120	mSL	very	10YR5/8			0	30		26	0	n	n				
												Total	136	103					
												MB	31	6					
												Droughtiness grade (DR)	1	2					
140	T	0	23	hCL	mod	10YR3/3			5	15		35	35	n	n	/	2	3b	DR
Pit 8		23	40	LmS	very	10YR4/6			0	50		11	11	n	n				
rong		<u>40</u>	120	LmS	very	10YR4/6			0	50		38	20	n	n				
												Total	84	65					
												MB	-21	-32					
												Droughtiness grade (DR)	3b	3b					
140a	T	0	22	SCL	mod	10YR3/3			5	25		28	28	n	n	/	1	3b	DR
		22	30	LmS	very	10YR4/6			0	50		5	5	n	n				
		<u>30</u>	120	LmS	very	10YR4/6			0	50		45	26	n	n				
												Total	78	60					
												MB	-27	-37					
												Droughtiness grade (DR)	3b	3b					
141	T	0	25	hCL	mod	10YR3/3			5	0		43	43	n	n	/	2	2	WE
		25	45	C	sli	10YR4/3			5	0		31	31	n	n				
		45	120	C	n	10YR4/6	Fe	com	3	2		61	38	n	n				
												Total	135	112					
												MB	30	15					
												Droughtiness grade (DR)	1	1					
142	T	0	27	C	n	10YR4/2			3	0		45	45	n	n	/V	3b	3b	WE
		27	120	C	sli	10YR6/1	Fe	many	0	0	poor	79	56	y	y				
												Total	124	101					
												MB	19	4					
												Droughtiness grade (DR)	2	2					
143	T	0	24	C	trace	10YR4/2			5	2		38	38	n	n	//	3b	3b	WE
		24	45	C	mod	2.5Y5/3	Fe	few	3	2		32	32	n	n				
		45	70	C	sli	10YR5/2	Fe	many	0	2		24	39	y	n				
		70	120	C	n	N5/1	Fe	many	0	2	poor	35	0	y	y				
												Total	129	110					

										MB	24	13							
										Droughtiness grade (DR)		2	1						
144	T	0	25	C	trace	10YR4/2			10	3		38	38	n	n	///	3b	3b	WE
		25	36	C	v.sli	10YR4/3			12	0		16	16	n	n				
		36	55	C	n	2.5Y5/3	Fe	com	12	0		23	27	y	n				
		55	70	C	n	10YR5/2	Femn	v.many	15	0	poor	9	17	y	y				
		70	120	C	n	10YR5/1	Fe	many	15	0	poor	30	0	y	y				
									Total			116	97						
											MB	11	0						
									Droughtiness grade (DR)			2	2						
145	T	0	25	C	sli	10YR4/2			7	2		39	39	n	n	//	3a	3a	WE
		25	60	C	mod	2.5Y5/3			0	2		47	55	n	n				
		60	120	C	mod	10YR6/1	Femn	many	0	2	poor	42	13	y	y				
									Total			128	107						
											MB	23	10						
									Droughtiness grade (DR)			2	1						
146	T	0	30	hCL	mod	10YR4/2			0	7		51	51	n	n	I-II	2	3b	GR
		30	57	hCL	mod	10YR4/2			0	10		36	40	n	n				
		57	75	hCL	mod	10YR4/2			0	20		15	18	n	n				
		75	120	C	mod	N5/	Fe	com	0	10	poor	30	0	y	y				
									Total			132	109						
											MB	27	12						
									Droughtiness grade (DR)			2	1						
147	T	0	22	C	n	10YR3/3			1	2		36	36	n	n	IV	3b	3b	WE FL
		22	120	C	mod	10YR6/1	Femn	many	0	0	poor	85	62	y	y				
									Total			122	99						
											MB	17	2						
									Droughtiness grade (DR)			2	2						
148	T	0	24	C	trace	10YR3/3			2	2		39	39	n	n	///	3b	3b	WE GR
		24	50	C	sli	2.5Y5/3	Femn	com	0	2		41	41	y	n				
		50	120	C	mod	10YR5/1	Fe	many	0	2	poor	48	26	y	y				
									Total			129	106						

Top of 8-10de slope- 3b (GR)

Subsoil plastic

EAZFZ3-3b

											8-9de slope- 3b (GR)								
											MB	24	9						
											Droughtiness grade (DR)		2	2					
149	T	0	26	SCL	very	10YR3/3			0	30	34	34	n	n	/	1	3b	DR	
		26	120	LmS	very	10YR5/4			0	50	47	29	n	n					
											Total		81	63					
											MB	-24	-34						
											Droughtiness grade (DR)		3b	3b					
150	T	0	25	hCL	n	10YR3/3			7	0	42	42	n	n	/	2	2	WE	
		25	60	hCL	n	10YR5/4			5	0	48	53	n	n					
		60	120	hCL	v.sli	10YR5/4	Femn	com	5	0	57	15	n	n					
											Total		147	111					
											MB	42	14						
											Droughtiness grade (DR)		1	1					
151	T	0	25	C	sli	10YR4/2			5	3	40	40	n	n	//	3a	3a	WE	
		25	50	C	sli	10YR5/3	Femn	com	5	3	37	37	y	n					
		50	73	C	n	10YR4/4	Femn	com	5	0	18	31	n	n					
		73	120	hCL	n	10YR4/4	Femn	com	5	0	45	0	n	n					
											Total		139	107					
											MB	34	10						
											Droughtiness grade (DR)		1	1					
152	T	0	23	C	n	10YR4/2			5	0	37	37	n	n	/V	3b	3b	WE	
		23	120	C	n	10YR6/1	Fe	many	0	0	poor	84	61	y	y				
											Total		121	98					
											MB	16	1						
											Droughtiness grade (DR)		2	2					
153	T	0	23	C	n	10YR4/2			10	2	35	35	n	n	/V	3b	3b	WE	
		23	36	C	sli	2.5Y5/3	Fe	few	5	2	20	20	n	n					
		36	120	C	n	10YR6/1	Fe	many	0	0	poor	67	44	y	y				
											Total		122	99					
											MB	17	2						
											Droughtiness grade (DR)		2	2					
154	T	0	27	C	n	10YR4/2			10	0	42	42	n	n	/	3a	3a	WE	

		27	120	C	n	10YR4/4		7	0		87	64	n	n				
										Total	128	106						
										MB	23	9						
										Droughtiness grade (DR)	2	2						
155	T	0	20	SCL	very	10YR3/3		0	30		26	26	n	n	/	1	3b	DR
Pit 9		20	40	LmS	very	10YR4/4		0	50		13	13	n	n				
		<u>40</u>	120	LmS	very	10YR4/6		0	50		38	20	n	n				
										Total	77	59						
										MB	-28	-38						
										Droughtiness grade (DR)	3b	3b						
156	T	0	25	C	mod	10YR4/2		3	2		41	41	n	n	///	3a	3a	WE
		25	46	C	mod	2.5Y5/4		0	5		32	32	n	n				
		46	120	C	mod	10YR6/1	Fe	many	0	3	poor	53	31	y	y			
										Total	126	104						
										MB	21	7						
										Droughtiness grade (DR)	2	2						
157	T	0	23	C	n	10YR4/2		5	2		37	37	n	n	///	3b	3b	WE
		23	52	C	mod	2.5Y5/2	Femn	many	0	5	poor	35	36	y	y			
		52	120	C	mod	10YR6/1	Femn	many	0	2	poor	47	23	y	y			
										Total	119	96						
										MB	14	-1						
										Droughtiness grade (DR)	2	2						
158	T	0	25	C	trace	10YR4/2		10	1		38	38	n	n	///	3b	3b	WE
		25	45	C	mod	2.5Y5/3		5	2		30	30	n	n				
		45	120	C	mod	10YR6/1	Fe	many	0	2	poor	55	32	y	y			
										Total	123	100						
										MB	18	3						
										Droughtiness grade (DR)	2	2						
159	T	0	24	C	n	10YR4/2		10	0		37	37	n	n	///	3b	3b	WE
		24	45	C	sli	10YR5/3		5	5		31	31	n	n				
		45	50	C	n	10YR6/1	Femn	many	15	0	poor	6	6	y	y			
		<u>50</u>	120	C	n	10YR6/1	Femn	many	20	0	poor	40	21	y	y			

														Total	113	95					
														MB	8	-2					
														Droughtiness grade (DR)		2	2				
160	T	0	27	hCL	mod	10YR4/2			5	2	46	46	n	n	///	3a	3b	GR			
		27	50	C	very	10YR5/4	Fe	few	0	15	33	33	n	n							
		50	120	C	very	10YR5/1	Fe	many	0	2	poor	48	26	y	y						
												Total	127	104							
														MB	22	7	Top of 7-9de slope- 3b (GR)				
														Droughtiness grade (DR)		2	2				
161	T	0	30	C	n	10YR3/3			1	0	51	51	n	n	///	3b	3b	WE			
		30	57	C	n	2.5Y5/3	Femn	many	0	0	38	43	y	n							
		57	120	C	sli	10YR5/1	Fe	many	0	0	poor	44	17	y	y						
												Total	132	111							
														MB	27	14					
														Droughtiness grade (DR)		2	1				
162	T	0	25	C	n	10YR3/3			2	0	42	42	n	n	//	3b	3b	WE			
		25	60	C	n	10YR5/3	Femn	com	2	0	47	55	y	n							
		60	82	C	n	10YR5/4	mn	many	2	0	17	16	n	n							
		82	120	SCL	n	10YR5/8	Femn	com	5	0	36	0	n	n							
										Total	142	112									
														MB	37	15	Edge of 7-9de slope- 3b (GR)				
														Droughtiness grade (DR)		1	1				
163	T	0	23	SCL	mod	10YR3/3			3	17	33	33	n	n	/	1	3a	DR			
		23	50	mSL	very	10YR5/4			0	15	36	36	n	n							
		50	62	LmS	very	10YR5/6			0	15	7	10	n	n							
		62	83	LmS	very	10YR5/6			0	30	11	6	n	n							
		83	120	SC	mod	10YR4/6			0	15	33	0	n	n							
										Total	119	85									
														MB	14	-12					
														Droughtiness grade (DR)		2	3a				
164	T	0	24	C	sli	10YR4/2			3	2	39	39	n	n	-//	3a	3a	WE			
		24	65	C	mod	10YR4/3			3	2	51	63	n	n							

		65	75	C	mod	10YR5/3	Femn	com	3	2		8	8	y	n					
		75	120	C	very	N5/1	Fe	com	0	3	poor	31	0	y	y					
												Total	129	109						
												MB	24	12						
												Droughtiness grade (DR)	2	1						
165	T	0	24	C	n	10YR4/2			3	0		40	40	n	n	IV	3b	3b	WE	
		24	60	C	mod	10YR5/2	Fe	com	0	0	poor	41	47	y	y					
		60	120	C	mod	10YR5/2	Fe	com	0	0	poor	42	13	y	y					
												Total	122	99						
												MB	17	2						
												Droughtiness grade (DR)	2	2						
166	T	0	25	C	trace	10YR4/2			15	2		36	36	n	n	IV	3b	3b	WE	
		25	50	C	n	10YR6/1	Fe	many	10	0	poor	30	30	y	y					
		50	120	C	n	N5/	Fe	many	0	0	poor	49	26	y	y					
												Total	114	91						
												MB	9	-6						
												Droughtiness grade (DR)	2	2						
167	T	0	26	C	n	10YR4/2			10	0		40	40	n	n	IV	3b	3b	WE	
		26	38	C	v.sli	2.5Y5/3			5	0		18	18	n	n					
		38	120	C	n	10YR6/1	Fe	many	0	0	poor	65	42	y	y					
												Total	123	100						
												MB	18	3						
												Droughtiness grade (DR)	2	2						
168	T	0	30	C	n	10YR4/2			12	2		44	44	n	n	//	3b	3b	WE	
		30	80	C	n	10YR5/3, 10YR4/6	Femn	many	15	0		48	55	y	n					
		<u>80</u>	120	C	n	10YR5/3, 10YR4/6	Femn	many	20	0		26	0	y	n					
												Total	119	99						
												MB	14	2						
												Droughtiness grade (DR)	2	2						
169	T	0	25	C	n	10YR4/2			10	2		38	38	n	n	IV	3b	3b	WE	
		25	36	C	n	10YR5/3	Femn	com	0	0		18	18	y	n					

		36	120	C	n	10YR6/1	Fe	many	0	0	poor	67	44	y	y				
												Total		123	100				
												MB		18	3				
												Droughtiness grade (DR)		2	2				
170	T	0	25	C	n	10YR4/2			10	2		38	38	n	n	IV	3b	3b	WE
		25	35	C	sli	2.5Y5/3			5	5		15	15	n	n				
		35	120	C	n	10YR6/1	Fe	many	0	0	poor	69	46	y	y				
												Total		121	98				
												MB		16	1				
												Droughtiness grade (DR)		2	2				
171	T	0	26	C	trace	10YR4/2			20	2		35	35	n	n	IV	3b	3b	WE
		26	55	C	sli	2.5Y5/2	Fe	com	0	0	poor	35	38	y	y				
		55	120	C	sli	N5/	Fe	many	0	0	poor	46	20	y	y				
												Total		115	92				
												MB		10	-5				
												Droughtiness grade (DR)		2	2				
172	T	0	25	SCL	very	10YR3/3			5	25		32	32	n	n	III	2	3a	DR
		25	40	LmS	very	10YR4/6			0	30		11	11	n	n				
		40	55	C	n	N6/1	Femn	many	3	0	poor	16	19	y	y				
		55	120	C	n	2.5YR5/2	Fe	few	0	0	poor	46	20	n	y				
												Total		105	82				
												MB		0	-15				
												Droughtiness grade (DR)		3a	3a				
173	T	0	23	C	sli	10YR3/3			3	5		46	46	n	n	III	3a	3b	GR
		23	46	C	sli	2.5Y5/3			2	0		29	31	n	n				
		46	120	C	n	10YR6/1	Fe	many	0	0	poor	33	19	y	y				
												Total		117	95				
												MB		12	-2				
												Droughtiness grade (DR)		2	2				
174	T	0	17	C	mod	10YR4/2			3	0		28	28	n	n	IV	3b	3b	WE FL
		17	120	C	sli	N5/	Fe	many	0	0	poor	92	69	y	y				
												Total		120	97				
												MB							
												Droughtiness grade (DR)							

Edge of 7-8de slope- 3b (GR)

EAZFZ3-3b

										MB	15	0							
										Droughtiness grade (DR)									
											2	2							
175	T	0	26	C	n	10YR4/2				3	0	43	43	n	n	/	3a	3a	WE
		26	63	C	n	10YR4/4				5	0	47	56	n	n				
		63	72	C	n	10YR4/4	Mn	com		5	0	7	11	n	n				
		<u>72</u>	120	C	n	10YR4/4	Mn	com		15	0	33	0	n	n				
										Total		129	110						
										MB	24	13							
										Droughtiness grade (DR)									
											2	1							
176	T	0	26	SCL	calc	10YR3/3				5	25	34	34	n	n	/	1	3a	DR
		26	35	mSL	very	10YR4/4				0	40	10	10	n	n				
		<u>35</u>	120	LmS	very	10YR4/4				0	40	44	25	n	n				
										Total		87	68						
										MB	-18	-29							
										Droughtiness grade (DR)									
											3a	3a							
177	T	0	23	C	mod	10YR4/2				10	2	35	35	n	n	///	3a	3a	WE
		23	45	C	v.sli	2.5Y5/2	Fe	com		0	0	35	35	y	n				
		45	120	C	n	10YR6/1	Fe	many		0	0	poor 56	33	y	y				
										Total		126	103						
										MB	21	6							
										Droughtiness grade (DR)									
											2	2							
178	T	0	30	SCL	n	10YR4/2				20	0	41	41	n	n	/	1	2	DR
		30	62	hCL	n	10YR4/6	Fe	few		20	0	36	42	n	n				
		62	120	hCL	n	10YR5/6	Femn	com		7	0	54	12	n	n				
										Total		131	95						
										MB	26	-2							
										Droughtiness grade (DR)									
											2	2							
179	T	0	22	hCL	n	10YR4/2				20	0	32	32	n	n	/	2	2	WE DR
		22	45	hCL	n	10YR4/6	mn	com		15	0	32	32	n	n				
		<u>45</u>	120	hCL	n	10YR4/6	Femn	com		20	0	63	33	n	n				
										Total		127	96						
										MB	22	-1							

														Droughtiness grade (DR)		2	2				
180	T	0	30	hCL	very	10YR4/2			0	20		46	46	n	n	/	2	2	WE DR		
		30	55	hCL	very	10YR4/3			0	30		29	31	n	n						
		55	105	C	very	10YR4/3			0	30		33	19	n	n						
		105	120	C	very	N5/1	Fe	many	0	0	poor	11	0	y	y						
		Total											117	95							
MB											12	-2									
														Droughtiness grade (DR)		2	2				
181	T	0	20	C	sli	10YR4/2			2	5		32	32	n	n	//	3a	3a	WE		
		20	45	C	mod	2.5Y5/3			0	5		39	39	n	n						
		45	63	C	mod	2.5Y5/3	Fe	com	0	5		18	28	y	n						
		63	120	C	v.sli	10YR6/1	Fe	many	0	0	poor	40	9	y	y						
		Total											128	107							
MB											23	10									
														Droughtiness grade (DR)		2	1				
182	T	0	26	C	mod	10YR4/2			2	0		43	43	n	n	///	3a	3b	FL		
		26	46	C	v.sli	2.5Y5/3	Fe	com	0	0	m/poor	29	29	y	n						
		46	60	C	v.sli	2.5Y5/3, 10YR6/1	Fe	many	0	0	poor	12	18	y	y						
		60	120	C	mod	10YR5/1	Fe	many	0	0	poor	42	13	y	y						
		Total											127	104	EAFZ3-3b						
MB											22	7									
														Droughtiness grade (DR)		2	2				
183	T	0	23	SCL	calc	10YR4/2			0	30		30	30	n	n	/	1	3b	DR		
		23	80	LmS	very	10YR4/6			0	40		33	33	n	n						
		80	120	LmS	very	10YR4/6			0	40		19	0	n	n						
Total											83	63									
MB											-22	-34									
														Droughtiness grade (DR)		3b	3b				
184	T	0	24	hCL	very	10YR3/3			0	30		33	33	n	n	/	2	3a	DR		
		24	54	C	very	10YR5/3			0	20		38	41	n	n						
		54	120	LmS	very	10YR4/6			0	40		32	11	n	n						
Total											103	85									

									MB	-2	-12							
									Droughtiness grade (DR)		3a	3a						
185	T	0	25	C	sli	10YR4/2		3	5		40	40	n	n	///	3a	3a	WE
		25	43	C	sli	2.5Y5/3	Fe	com	0	3		28	28	y	n			
		43	120	C	sli	10YR6/1	Fe	many	0	0	poor	58	35	y	y			
											Total	126	103					
									MB	21	6							
									Droughtiness grade (DR)		2	2						
186	T	0	28	C	n	10YR4/2		5	0		45	45	n	n	/	3a	3a	WE
		28	70	C	n	10YR5/4		12	0		45	60	n	n				
		70	120	C	n	10YR5/6	mn	com	5	0		38	0	n	n			
											Total	129	105					
									MB	24	8							
									Droughtiness grade (DR)		2	2						
187	T	0	15	C	mod	10YR4/2		2	0		25	25	n	n	IV	3b	3b	WE FL
		15	35	C	mod	2.5Y5/3	Fe	com	0	0	m/poor	29	29	y	n			
		35	60	C	mod	2.5Y5/2	Fe	many	0	0	poor	27	33	y	y			
		60	120	C	calc	10YR6/1	Fe	many	0	0	poor	42	13	y	y			
											Total	123	100					
									MB	18	3							
									Droughtiness grade (DR)		2	2						
188	T	0	26	C	mod	10YR4/2		2	0		43	43	n	n	IV	3b	3b	WE FL
		26	55	C	mod	2.5Y5/2	Femn	com	0	0	poor	35	38	y	y			
		55	120	C	calc	10YR6/1	Fe	many	0	3	poor	45	19	y	y			
											Total	123	100					
									MB	18	3							
									Droughtiness grade (DR)		2	2						
189	T	0	30	C	n	10YR4/2		3	0		50	50	n	n	/	3a	3a	WE
		30	62	C	n	10YR5/4		5	0		40	49	n	n				
		<u>62</u>	120	C	n	10YR5/6		15	0		40	11	n	n				
											Total	129	109					
									MB	24	12							

														Droughtiness grade (DR)		2	1			
190	T	0	25	C	n	10YR4/2		5	0		41	41	n	n	<i>IV</i>	3b	3b	WE		
		25	38	C	n	2.5Y5/3		0	0		21	21	n	n						
		38	60	C	n	10YR5/1	Fe many	0	0	poor	23	29	y	y						
		60	120	C	n	10YR5/1	Fe com	0	0	poor	42	13	y	y						
											Total	126	103							
											MB	21	6							
														Droughtiness grade (DR)		2	2			
191	T	0	23	C	mod	10YR3/3		3	7		36	36	n	n	<i>I</i>	2	2	WE DR		
		23	60	C	n	10YR5/6	mn com	7	0		48	55	n	n						
		60	120	C	n	10YR5/6	mn many	7	0		45	15	n	n						
											Total	129	106							
											MB	24	9							
														Droughtiness grade (DR)		2	2			
192	T	0	28	hCL	mod	10YR3/3		5	10		44	44	n	n	<i>II</i>	2	2	WE DR		
		28	83	C	calc	10YR5/3	Fe com	0	30		49	52	y	n						
		83	120	hCL	calc	10YR4/6	Fe com	0	20		32	0	n	n						
											Total	125	96							
											MB	20	-1							
														Droughtiness grade (DR)		2	2			
193	T	0	25	C	n	10YR4/2		5	0		41	41	n	n	<i>II</i>	3b	3b	WE		
		25	50	C	n	10YR5/3	Fe many	5	0		38	38	y	n						
		50	120	C	n	10YR5/2	Femn many	5	0		53	31	y	n						
											Total	132	109							
											MB	27	12							
														Droughtiness grade (DR)		2	1			
194	T	0	24	C	trace	10YR3/3		5	0		39	39	n	n	<i>II</i>	3b	3b	WE		
		24	57	C	sli	2.5Y5/3	mn com	0	0		47	53	n	n						
		57	120	C	calc	10YR5/1	Femn com	0	5	poor	43	16	y	y						
											Total	129	108							
											MB	24	11							
														Droughtiness grade (DR)		2	1			

195	T	0	26	C	mod	10YR4/2		3	2		42	42	n	n	//	3a	3b	GR	
		26	50	C	mod	2.5Y5/3		2	0		38	38	n	n					
		50	120	C	calc	10YR5/1	Fe	many	2	0	poor	48	26	y	y				
	Total										128	105	7-8de slope in NW corner of field						
	MB										23	8							
Droughtiness grade (DR)										2	2								
196	T	0	26	C	n	10YR4/2		3	3		42	42	n	n	//	3b	3b	WE GR	
		26	62	C	n	2.5Y4/3		5	0		46	55	n	n					
		62	120	C	n	10YR5/3	Fe	v.many	15	0	poor	35	9	y	y				
	Total										123	106	Edge of 7-9 de slope- 3b (GR)						
	MB										18	9							
Droughtiness grade (DR)										2	2								
197 Pit 10	T	0	26	C	n	10YR4/2		5	0		42	42	n	n	IV	3b	3b	WE	
		26	120	C	n	10YR6/1	Fe	many	0	0	poor	80	57	y	y				
		Total										122	99						
	MB										17	2							
	Droughtiness grade (DR)										2	2							
198	T	0	32	C	trace	10YR4/2		3	3		52	52	n	n	III	3b	3b	WE	
		32	49	C	sli	2.5Y5/3	Fe	few	0	5		26	26	n	n				
		49	60	C	n	2.5Y5/3	Fe	many	0	0	poor	8	14	y	y				
		60	120	C	sli	10YR6/1	Fe	many	0	0	poor	42	13	y	y				
	Total										128	105	EAFZ3-3b						
MB										23	8								
Droughtiness grade (DR)										2	2								
199	T	0	23	C	mod	10YR4/2		2	5		37	37	n	n	IV	3b	3b	WE FL	
		23	62	C	mod	2.5Y5/2	Femn	many	0	0	poor	44	51	y	y				
		62	120	C	calc	10YR6/1	Fe	many	0	0	poor	41	10	y	y				
	Total										121	98	EAFZ3-3b						
MB										16	1								
Droughtiness grade (DR)										2	2								
200	T	0	23	C	mod	10YR4/2		2	2		38	38	n	n	III	3a	3b	FL	
		23	57	C	mod	2.5Y5/3	Fe	com	0	2		48	54	y	n				

		57	120	C	calc	10YR6/1	Fe	many	0	0	poor	44	17	y	y				
												Total		130	108	EAFZ3-3b			
												MB		25	11				
												Droughtiness grade (DR)		2	1				
201	T	0	27	C	n	10YR4/2			5	3		43	43	n	n	///	3b	3b	WE FL
		27	48	C	n	10YR5/2	Fe	com	0	2	m/poor	30	30	y	n				
		48	120	C	n	10YR6/1	Fe	many	0	0	poor	52	29	y	y				
												Total		124	101	EAFZ3-3b			
												MB		19	4				
												Droughtiness grade (DR)		2	2				
202	T	0	27	hCL	n	10YR4/2			3	0		47	47	n	n	//	3a	3a	WE
		27	60	hCL	n	10YR4/3			0	0		47	53	n	n				
		60	120	C	v.sli	N5/	Fe	com	0	0	poor	42	13	y	y				
												Total		136	113				
												MB		31	16				
												Droughtiness grade (DR)		1	1				
203	T	0	28	C	n	10YR4/2			3	0		46	46	n	n	//	3b	3b	WE
		28	45	C	n	10YR5/2	Femn	com	0	0		27	27	y	n				
		45	70	C	n	10YR5/2	Femn	many	0	0		24	40	y	n				
		70	120	C	n	10YR6/1	Fe	many	0	0	poor	35	0	y	y				
												Total		132	113	3b slope to south-east of point			
												MB		27	16				
												Droughtiness grade (DR)		2	1				
204	T	0	23	C	n	10YR4/2			3	0		38	38	n	n	///	3b	3b	WE GR
		23	55	C	n	2.5Y5/3	Femn	com	0	0	poor	39	42	y	n				
		55	120	C	sli	10YR5/1	Femn	com	0	0	poor	46	20	y	y				
												Total		122	99	Corner on edge of 3b slope GR 3a/3b			
												MB		17	2				
												Droughtiness grade (DR)		2	2				
205	T	0	25	C	n	10YR4/2			10	0		39	39	n	n	IV	3b	3b	WE
		25	67	C	n	10YR5/1	Femn	many	20	0	poor	36	45	y	y				
		67	120	C	n	10YR6/1	Fe	many	0	0	poor	37	4	y	y				

															Total	112	87				
															MB	7	-10				
															Droughtiness grade (DR)		2	3a			
206	T	0	23	C	n	10YR4/2				3	0	38	38	n	n	IV	3b	3b	WE		
		23	120	C	sli	N5/	Fe	many	0	0	poor	84	61	y	y						
															Total	122	99				
															MB	17	2				
															Droughtiness grade (DR)		2	2			
207	T	0	24	C	n	10YR4/2				7	0	38	38	n	n	IV	3b	3b	WE		
		24	50	C	n	10YR5/2	Femn	com	5	0	poor	32	32	y	y						
		50	120	C	sli	10YR5/2	Femn	com	5	0	poor	47	25	y	y						
															Total	117	95				
															MB	12	-2				
															Droughtiness grade (DR)		2	2			
208	T	0	18	C	v.sli	10YR4/2				1	2	30	30	n	n	IV	3b	3b	WE		
		18	120	C	calc	N5/	Fe	many	0	3	poor	89	66	y	y						
															Total	119	96				
															MB	14	-1				
															Droughtiness grade (DR)		2	2			
209	T	0	26	C	n	10YR4/2				5	0	42	42	n	n	III	3b	3b	WE		
		26	35	C	n	2.5Y5/3				5	0	14	14	n	n						
		35	43	C	n	2.5Y5/3	Femn	com	5	0		12	12	y	n						
		43	70	C	mod	10YR6/1	Fe	many	5	0	poor	22	33	y	y						
		70	120	C	mod	10YR6/1	Fe	many	0	0	poor	35	0	y	y						
															Total	125	102				
															MB	20	5				
															Droughtiness grade (DR)		2	2			
210	T	0	23	C	mod	10YR4/2	Fe	few	3	0	38	38	n	n	IV	3b	3b	WE FL			
		23	50	C	mod	10YR5/2	Femn	many	0	0	poor	35	35	y	y						
		50	120	C	sli	10YR6/1	Fe	many	0	0	poor	49	26	y	y						
															Total	122	99				
															MB	17	2				
																		EAFZ3-3b			

													Droughtiness grade (DR)		2	2				
211	T	0	26	C	n	10YR4/2			3	0		43	43	n	n	IV	3b	3b	WE	
		26	82	C	n	10YR6/1	Fe	many	0	0	poor	54	57	y	y					
		82	120	C	v.sli	N5/	Fe	com	0	0	poor	27	0	y	y					
	Total											123	100							
MB											18	3								
													Droughtiness grade (DR)		2	2				
212	T	0	25	C	n	10YR4/2			7	0		40	40	n	n	II-III	3b	3b	WE	
		25	49	C	mod	10YR5/3	Fe	few	0	3	m/poor	34	34	n	n					
		49	120	C	sli	10YR6/1	Femn	many	0	0	poor	50	27	y	y					
	Total											124	101							
MB											19	4								
													Droughtiness grade (DR)		2	2				
213	T	0	25	C	n	10YR4/2			3	0		41	41	n	n	IV	3b	3b	WE	
		25	44	C	n	10YR5/2	Femn	com	3	0	poor	24	24	y	y					
		44	120	C	sli	10YR5/1	Fe	many	0	0	poor	57	34	y	y					
	Total											122	99							
MB											17	2								
													Droughtiness grade (DR)		2	2				
214	T	0	24	C	mod	10YR4/2			3	5		38	38	n	n	IV	3b	3b	WE	
		24	38	C	calc	2.5Y5/3	Fe	com	0	5		22	22	y	n					
		38	120	C	calc	10YR5/1	Fe	many	0	10	poor	61	39	y	y					
	Total											120	98							
MB											15	1								
													Droughtiness grade (DR)		2	2				
215	T	0	25	C	n	10YR3/2			5	0		41	41	n	n	II	3b	3b	WE	
		25	37	C	n	10YR4/2	mixed	com	5	0		18	18	y	n					
		37	120	C	n	10YR5/3	mixed	com	5	0		73	50	y	n					
	Total											132	109	Potential disturbed ground- varied SS						
MB											27	12								
													Droughtiness grade (DR)		2	1				
216	T	0	23	hCL	sli	10YR3/2			2	0		41	41	n	n	IV	3b	3b	WE FL	

23	40	C	mod	10YR5/3	Femn	com	0	0	poor	22	22	y	y					
40	120	C	calc	10YR6/1	Fe	many	0	0	poor	62	39	y	y					
Total										125	102			EAZFZ3-3b				
MB										20	5							
Droughtiness grade (DR)										2	2							

217	T	0	20	hCL	n	10YR3/2		2	0		35	35	n	n	/V	3b	3b	WE FL	
		20	120	C	calc	10YR5/1	Fe	many	0	0	poor	88	65	y	y				
Total										123	100			EAZFZ3-3b					
MB										18	3								
Droughtiness grade (DR)										2	2								

Stone types		
%	TAv	Eav
hard	1	0.5
Lstone	4	3

hard flint & pebble

Climate Data	
MDwheat	107
MDpotato	100
FCD	145

AAR 664

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	39-67cm	<39cm		1,438
SPL within 80cm, gleying at 40-70cm	>50cm	<50cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

Maximum depth of auger penetration is underlined

Elevation: 65m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% Lstone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
218	0	22	C	mod	10YR3/3		1	0		37	37	n	n	IV	3b	3b	WE FL
	22	57	C	very	10YR5/1	Fe v.many	0	0	poor	41	46	y	y				
	57	120	C	mod	10YR4/1	Fe many	0	0	poor	44	17	y	y				
	Total										<u>122</u>	<u>99</u>	EAFZ3		3b		
	MB										15	-1					
Droughtiness grade (DR)										2	2						
219	0	30	C	mod	10YR3/3		0	0		51	51	n	n	IV	3b	3b	WE FL
	30	52	C	mod	10YR5/1	Fe many	0	0	poor	27	29	y	y				
	52	120	C	mod	10YR6/1	Fe many	0	0	poor	48	23	y	y				
	Total										<u>126</u>	<u>103</u>	EAFZ3		3b		
	MB										19	3					
Droughtiness grade (DR)										2	2						
220	0	35	C	mod	10YR3/3		0	0		60	60	n	n	IV	3b	3b	WE FL
	35	60	C	very	N5/1	Fe v.many	0	0	poor	27	33	y	y				
	60	120	C	mod	10YR5/1	Fe many	0	0	poor	42	13	y	y				
	Total										<u>128</u>	<u>105</u>	EAFZ3		3b		
	MB										21	5					
Droughtiness grade (DR)										2	2						
221	0	32	C	mod	10YR3/3		0	0		54	54	n	n	IV	3b	3b	WE FL
	32	40	C	mod	10YR5/2	Fe v.many	0	0	poor	13	13	y	y				
	40	60	C	mod	10YR5/1	Fe many	0	0	poor	20	26	y	y				
	60	120	C	n	10YR5/1	Fe many	0	0	poor	42	13	y	y				
	Total										<u>129</u>	<u>106</u>	EAFZ3		3b		
MB										22	6						
Droughtiness grade (DR)										2	2						

222	T	0	30	C	sli	10YR3/3			0	0		51	51	n	n	IV	3b	3b	WE FL	
		30	68	C	mod	10YR5/1	Fe	v.many	0	0	poor	39	49	y	y					
		68	120	C	n	10YR5/1	Fe	many	0	0	m/poor	42	3	y	y					
		Total											131	104			EAFZ3	3b		
MB											24	4								
Droughtiness grade (DR)											2	2								
223	T	0	27	C	sli	10YR3/3			0	0		46	46	n	n	IV	3b	3b	WE FL	
		27	38	C	mod	10YR5/2	Fe	com	0	0		21	21	y	n					
		38	120	C	mod	10YR6/1	Fe	many	2	0	poor	61	38	y	y					
		Total											128	105			EAFZ3	3b		
MB											21	5								
Droughtiness grade (DR)											2	2								
224	T	0	27	C	very	10YR3/3			2	5		43	43	n	n	III	3a	3b	FL	
		27	50	C	mod	10YR5/3	Femn	few	5	0		35	35	n	n					
		50	120	C	mod	10YR5/2	Femn	many	5	0	m/poor	50	28	y	y					
		Total											128	106			EAFZ3	3b		
MB											21	6								
Droughtiness grade (DR)											2	2								

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

hard pebbles & flints

Climate Data	
MDwheat	106
MDpotato	99
FCD	146

AAR 668

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	39-67cm	<39cm		1434 D°
SPL within 80cm, gleying at 40-70cm	>50cm	<50cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

Maximum depth of auger penetration is underlined

68 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
225	0	22	ZC	v.slight	10YR5/4		0	8		35	35	n	n	/	3a	3a	WE DR DP
	22	35	ZC	mod	7.5YR6/6		5	10	good	24	24	n	n				
	<u>35</u>	120	Lst							27	14						
										Total	86	73					
										MB	-20	-26					
										Droughtiness grade (DR)		3a	3a	Grass ley			
226	0	24	ZC	mod	10YR5/4		5	10		36	36	n	n	/	2	3b	DR
	24	37	hCL	very	10YR7/4	Mn	10	20	good	20	20	n	n				
	<u>37</u>	120	Lst							26	13						
										Total	82	69					
										MB	-24	-30					
										Droughtiness grade (DR)		3b	3a	Grass ley			
227	0	25	hCL	mod	10YR4/3		10	5		39	39	n	n	/	2	3a	DR ST
	25	41	hCL	very	10YR7/4	Mn	10	20	good	25	25	n	n				
	<u>41</u>	120	Lst							25	12						
										Total	89	76					
										MB	-17	-23					
										Droughtiness grade (DR)		3a	3a	Grass ley			
228	0	24	hCL	mod	10YR5/4		10	5		37	37	n	n	/	2	3a	DR
	24	50	hCL	very	10YR7/4		10	20	good	41	41	n	n				
	<u>50</u>	120	Lst							21	8						
										Total	99	86	GR.gradient				
										MB	-7	-13	1o				
										Droughtiness grade (DR)		3a	3a	Grass ley		E	
229	0	25	hCL	mod	10YR5/4		10	5		39	39	n	n	/	2	3a	DR ST DP

		25	41	hCL	very	10YR7/4	Mn	10	20	good	25	25	n	n				
		<u>41</u>	120	Lst							25	12						
						Some				Total	89	76						
						large				MB	-17	-23						
						brash				Droughtiness grade (DR)	3a	3a						
230	T	0	23	mCL	mod	10YR4/3		8	4		37	37	n	n	/	2	3a	DR
		23	60	hCL	mod	10YR5/4		15	10	good	55	60	n	n				
		<u>60</u>	120	Lst							18	4						
										Total	110	101						
										MB	4	2						
										Droughtiness grade (DR)	3a	2						
231	T	0	30	hCL		10YR5/4		6	0		51	51	n	n	/	2	3a	DR
		30	55	hZCL	slight	7.5YR4/4	Mn	6	0		37	40	n	n				
		<u>55</u>	120	Lst							20	6						
										Total	107	97						
						Mottled				MB	1	-2						
						above Lst				Droughtiness grade (DR)	3a	2						
232	T	0	25	LC	very	10YR4/3		10	10		35	35	n	n	/	2	3b	DR
		25	38	hCL	very	10YR7/4		0	25	good	22	22	n	n				
		<u>38</u>	120	Lst							26	13						
										Total	83	70						
										MB	-23	-29						
										Droughtiness grade (DR)	3b	3a						
233	T	0	25	hCL	mod	10YR4/3		10	10		37	37	n	n	/	2	3a	DR DP
		25	42	hCL	very	10YR7/4		0	30	good	27	27	n	n				
		<u>42</u>	120	Lst							24	11						
										Total	88	75						
										MB	-18	-24						
										Droughtiness grade (DR)	3a	3a						

234	T	0	29	hZCL	very	10YR5/4		6	6		47	47	n	n	/	2	3b	DR DP	
		<u>29</u>	120	Lst							29	16							
												Total	76	63					
												MB	-30	-36					
												Droughtiness grade (DR)		3b	3b	W Wheat			
235	T	0	30	hZCL		10YR4/4		4			55	55	n	n	/	2	2	DR WE	
		30	45	hZCL		10YR6/6	Mn	com			26	26	n	n					
		45	57	ZC	mod		Fe	com	20		11	13	y	n					
		<u>57</u>	120	Lst							19	6							
												Total	111	99					
										MB	5	0							
										Droughtiness grade (DR)		2	2	Winter wheat (tall crop)					
235a	T	0	25	mCL	slight	10YR4/4		2	2		43	43	n	n	/	1	1		
		25	65	mCL		10YR4/6		5	0		52	61	n	n					
		65	120	hZCL		7.5YR5/4	Fe	com f	0	0	m/poor	44	7	y	n				
												Total	140	112	GR.gradient 2o N				
												MB	34	13					
										Droughtiness grade (DR)		1	1	Winter wheat (tall crop)					
236	T	0	30	hZCL		10YR4/6		6	0		54	54	n	n	/	2	2	WK	
		30	42	hZCL		10YR5/6		5	0		19	19	n	n					
		42	55	ZC		7.5YR5/4		0	0	m/poor	15	18	n	n					
		55	120	hZCL		7.5YR5/4		0	0	m/poor	52	22	n	n					
												Total	140	113					
										MB	34	14							
										Droughtiness grade (DR)		1	1	Winter wheat (tall crop)					
237	T	0	22	ZC	n	2.5Y5/3					37	37	n	n	//	3b	3b	WE FL	
		22	42	C		2.5Y5/4	Fe	com f	0	m/poor	29	29	n	n					
		42	80	ZC	slight	7.5YR6/4	Mn	com	10	m/poor	30	34	y	n					
		80	100	SCL	slight				25		15	0	y	n					
		<u>100</u>	120	SL					40		14	0	y	n					
												Total	125	101	GW.Groundwater 80cm				
										MB	19	2	FL.Flood Risk EAFz3 3b						
										Droughtiness grade (DR)									

80 120 Lst

12 0

Total 133 125

MB 27 26

Droughtiness grade (DR) 2 1

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Winter wheat (tall crop)

Pit 11	T	0	30	hZCL	10YR4/6			0	0	57	57	n	n	/	2	2	DR WE
		30	45	hZCL	10YR5/6			0	0	26	26	n	n				
		45	80	hZCL	7.5YR5/4	Mn	com	0	0	39	43	n	n				
		100	120	Lst						12	0						

Total 133 125

MB 27 26

Droughtiness grade (DR) 2 1

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Winter wheat (tall crop)

243	T	0	20	C+	n	2.5Y4/3			0	0	34	34	n	n	/V	3b	3b	WE FL	
		20	30	C		2.5Y5/4	OM		0	0	16	16	n	n					
		30	60	C	n	2.5Y6/4	Fe	com f	0	0	poor	33	39	y	y				
		60	90	C		2.5Y6/2	FeMn	many	0	0	poor	21	13	y	y				
		90	100	SL	very	10YR7/3		many	15	15		8	0	y	n				
		100	120	SL/LS					25	25		10	0	y	n				

Total 122 102

MB 16 3

Droughtiness grade (DR) 2 2

GW.Groundwater	60 cm
FL.Flood Risk	EAFz3 3b

Sprayed off

244	T	0	28	ZC	slight	2.5Y4/4			0	4	46	46	n	n	/	2	3b	FL
		28	45	hZCL		10YR5/6			0	0	29	29	n	n				
		45	50	hZCL		10YR4/4	Mn	com	0	0	9	9	n	n				
		50	66	SL	mod	10YR7/2			25	0	13	18	n	n				
		66	120	SL/LS	mod	10YR7/2			25	25	28	3	n	n				

Total 125 105

MB 19 6

Droughtiness grade (DR) 2 2

GW.Groundwater	50 cm
FL.Flood Risk	EAFz3 3b

W Wheat

245	T	0	28	hCL	n	10YR4/4			6	2	47	47	n	n	//	3a	3a	WE	
		28	45	CL		10YR4/6			6	2	25	25	n	n					
		45	75	ZC	mod	10YR5/4			6	2	m/poor	24	31	n	n				
		75	100	LC	mod	5Y7/3	Mn	many	10	0	poor	16	0	y	y				

										Total	94	81	GW.Groundwater >50cm					
				or hCL						MB	-12	-18						
				FM Lst						Droughtiness grade (DR)	3a	3a	W Wheat					
250	T	0	25	hCL	n	10YR5/4		6	0		42	42	n	n	/	2	2	WK DR
		25	40	hCL		10YR5/6	grey	com f	10	0		22	22	n	n			
		40	80	ZC	n	7.5YR5/6	grey	com f	0	0	m/poor	36	41	n	n			
		80	120	C		10YR6/6	Mngrey	many	20	0	m/poor	24	0	n	(y)			
										Total	125	105						
										MB	19	6						
										Droughtiness grade (DR)	2	2	Winter wheat (tall crop)					
251	T	0	20	oC	n	2.5Y4/3		0	0		34	34	n	n	/	2	3b	GW FL
		20	35	C	n	2.5Y5/4		0	0		24	24	n	n				
		35	49	C	n	2.5Y6/4		0	0	poor	18	18	n	n				
		49	70	SL		10YR7/3	FeMn	many	10	10		20	26	y	n			
		70	120	SL/LS				25	25		26	0	y	n				
										Total	121	102	GW.Groundwater 50 cm 3b					
										MB	15	3	FL.Flood Risk EAFz3 3b					
										Droughtiness grade (DR)	2	2	Grass (uneven height). Drains OK but high GW					
252	T	0	20	hZCL	n	2.5Y4/3			4		37	37	n	n	/	2	3a	FL
		20	32	hZCL		2.5Y4/3		5	5		19	19	n	n				
		32	45	ZC		2.5Y5/3		5	5	m/poor	16	16	n	n				
		45	120	SL/LS		10YR7/2		25	25		40	18	n	n				
										Total	111	90						
										MB	5	-9	FL.Flood Risk Edge of EAFz3 3a					
										Droughtiness grade (DR)	2	2	W Wheat					
253	T	0	25	hCL	slight	10YR4/3		8	4		40	40	n	n	/	2	3a	DR
		25	48	hCL	mod	10YR5/6		10	5	good	42	42	n	n				
		48	120	Lst							22	9						
						or				Total	104	91						
						gravel				MB	-2	-8						
										Droughtiness grade (DR)	3a	2	W Wheat					
254	T	0	28	oC	trace	10YR4/3		0	0		64	64	n	n	///	3a	3b	FL

Pit 12	28	45	C	slight	2.5Y5/3	Fe	com	0	0		27	27	y	n				
	45	80	C	mod	5Y7/2	Fe	many	0	0	poor	28	33	y	y				
	80	120	C	slight	10GY7/1	FeMn	many	0	0	poor	28	0	y	y				
											Total	147	124					
										MB	41	25						
										Droughtiness grade (DR)		1	1					
												GW.Groundwater		80 cm				
												FL.Flood Risk		EAFz3		3b		
												Grass (tall)						
255	T	0	26	hZCL	n	7.5YR4/4		0	0		38	38	n	n	//	3a	3a	WE
		26	50	hZCL	n	7.5YR6/6		0	0		25	25	n	n				
		50	85	mCL	mod	10YR5/3	Fe	com	5	5		22	31	y	n			
		85	120	C	mod	7.5GY7/1	Fe	com	0	0	poor	28	0	y	y			
											Total	124	100					
										MB	18	1						
										Droughtiness grade (DR)		2	2					
												Spring beans (bare). Tested for acidity (pH 6.4)						
255a	T	0	20	hZCL	n	2.5Y4/3		0	4		37	37	n	n	/	2	3b	FL GW
		20	32	hZCL		2.5Y4/3		5	5		19	19	n	n				
		45	50	ZC		2.5Y5/3		10	10		16	16	n	n				
		<u>50</u>	120	SL/LS		10YR7/2		25	25		40	18	n	n				
											Total	111	90					
										MB	5	-9						
										Droughtiness grade (DR)		2	2					
												Grass set aside in long depression						
256	T	0	26	hCL		10YR4/4		2	2		45	45	n	n	/	2	3a	DR
		26	50	LC		10YR5/4	Fe	com f	2	2	m/poor	34	34	n	n			
		50	60	C	slight	10YR5/4	Fe	com	0	0	poor	7	13	n	n			
		<u>60</u>	120	Lst							18	4						
											Total	104	96					
										MB	-2	-3						
										Droughtiness grade (DR)		3a	2					
												Spring beans (poor establishment)						
257	T	0	35	mCL	slight	10YR5/4		10	5		55	55	n	n	//	2	2	WE DR
		35	60	hCL	slight	10YR6/6		10	5		30	35	n	n				
		60	120	C	mod	10Y7/2	Fe	com	0	0	poor	42	13	y	y			
											Total	126	102					
										MB	20	3						
										Droughtiness grade (DR)		3a	2					
												Spring beans (poor establishment)						
												GR.gradient		1o		NE		

														Droughtiness grade (DR)		1	1	Grass (tall)		
262	T	0	24	hCL	slight	2.5Y4/4			10	10	36	36	n	n	///	3a	3a	WE		
		24	32	hCL	slight				10	10	good	14	14	n	n					
		32	50	ZC	slight	7.5YR4/6	grey	com	0	0		27	27	n	n					
		50	95	C	slight	N6/1	Fe	com	0	0	poor	32	26	y	y					
		95	100	mCL	very				0	0	poor	4	0	y	y					
		<u>100</u>	120	mCL	Zst				0	0	poor	14	0	y	y					
											Total		126	103						
											MB		20	4	ST.stone>2cm >5% 2					
											Droughtiness grade (DR)		2	2	Spring beans, a few stonier patches					
263	T	0	25	hCL		2.5Y4/4			10	0	41	41	n	n	/	2	2	WE DR		
		25	40	ZC		7.5YR4/6			0	0	23	23	n	n						
		40	65	C		7.5YR6/4			10	0	m/poor	23	33	n	n					
		65	90	C	mod	7.5YR5/6			10	0	poor	16	6	n	y					
		<u>90</u>	120	Lst							9	0								
											Total		111	102	GR.gradient 1o E					
											MB		5	3						
											Droughtiness grade (DR)		2	2	Sp beans					
264	T	0	25	hCL	slight	10YR4/6			6	4	41	41	n	n	/	2	3a	DR		
		25	50	ZC	mod	7.5YR5/6			0	4	36	36	n	n						
		<u>50</u>	120	Lst							21	8								
											Total		98	85						
											MB		-8	-14						
											Droughtiness grade (DR)		3a	3a	Sp beans					
264a	T	0	28	hCL	very	10YR4/3			0	25	41	41	n	n	/	2	3b	DR DP ST		
		<u>28</u>	120	Lst							30	17								
											Total		70	57	ST.stone>6cm >10% 3b					
											MB		-36	-42						
											Droughtiness grade (DR)		3b	3b	Spring beans (poor)					

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

hard pebbles & flints

Climate Data	
MDwheat	105
MDpotato	98
FCD	147

AAR 674

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	40-67cm	<40cm		1430 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

Maximum depth of auger penetration is underlined

72 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
265	0	25	ZC	mod.	10YR4/4		5	15		36	36	n	n	/	2	3b	DR DP
	<u>25</u>	30	ZC	mod			0	50	good	6	6	n	n				
	30	120	Lst							29	16						
	Total									71	58	GR.gradient		2o	N		
MB									-34	-40	ST.stone>2cm		>5%	2			
Droughtiness grade (DR)										3b	3b	Beans					
265a	0	26	hCL	slight	10YR4/4		5	5		43	43	n	n	//	2	2	WE DR
	26	45	hCL	slight	7.5YR5/4		5	0		29	29	n	n				
	45	70	ZC		7.5YR5/4	Fe	com f	5	0	m/poor	21	32	n	n			
	70	120	C		10YR7/8	FeMn	com	0	0	poor	35	0	y	y			
Total									127	104	GR.gradient		footslope				
MB									22	6							
Droughtiness grade (DR)										2	2	Beans					
266	0	24	hZCL	n	7.5YR4/3		3	3		43	43	n	n	//	3a	3a	WE
	24	60	hZCL		7.5YR6/4	Fe	com	5	0		52	58	y	n			
	60	74	ZC		7.5YR5/4	Fe	com	5	0	m/poor	10	13	n	n			
	<u>74</u>	120	Lst							14	0						
Total									119	114							
MB									14	16							
Droughtiness grade (DR)										2	1	Beans					
267	0	27	hZCL	n	10YR5/4		4	0		49	49	n	n	//	3a	3a	WE
	27	45	hZCL		7.5YR5/3	Fe	com f	5	0		29	29	y	n			
	45	60	ZC		7.5YR4/6	grey	com	0	0	m/poor	14	20	n	n			
	60	78	hZCL	n	7.5YR5/4	Fe	com	5	0		17	16	n	n			
	<u>78</u>	120	Lst							13	0						

													Total		123	115				
													MB		18	17				
													Droughtiness grade (DR)		2	1	Beans			
Pit 13	T	0	27	hCL	mod	10YR4/3				10	10		40	40	n	n	/	2	3a	DR
		27	40	CL	v.slight	7.5YR6/6	grey	com	f	0	5		20	20	n	n				
		40	55	mCL		7.5YR5/3	Fe	few	f	0	0		21	24	n	n				
		55	70	SC	very	7.5YR5/2	FeMn	com		10	10		13	19	y	n				
		<u>70</u>	120	Lst										15	0					
													Total		109	103				
													MB		4	5	ST.stone>2cm			
													Droughtiness grade (DR)		3a	2	Beans			
268	T	0	26	hCL	mod	10YR4/3				8	8		40	40	n	n	/	2	3a	DR
		26	46	hCL	mod	10YR6/6	good			10	10		35	35	n	n				
		<u>46</u>	120	Lst									23	10						
													Total		98	85	Or gravel			
													MB		-7	-13	ST.stone>2cm			
													Droughtiness grade (DR)		3a	3a	Beans			
269	T	0	25	hCL	mod	10YR4/3				15	10		35	35	n	n	/	2	3a	DR
		25	45	hCL	mod	7.5YR5/4	good			15	10		33	33	n	n				
		<u>45</u>	120	Lst									23	10						
													Total		91	78	ST.stone>2cm			
													MB		-14	-20	>10%			
													Droughtiness grade (DR)		3a	3a	Beans (thinner patch)			
270a	T	0	27	mCL	n	7.5YR5/4				6	0		46	46	n	n	///	3a	3a	WE
		27	35	mCL		7.5YR5/6				5	0		12	12	n	n				
		35	60	ZC/ZCL		7.5YR6/4	Fe	com		0	0	m/poor	30	35	y	n				
		60	105	C		7.5YR5/3	brown	many		0	0	poor	32	13	y	y				
		<u>105</u>	120	MSt						0	0	poor	8	0	y	y				
													Total		127	106				
													MB		22	8				
													Droughtiness grade (DR)		2	2	Beans			
270	T	0	30	hZCL	n	7.5YR5/3	Fe	few	4	0		55	55	n	n	IV	3b	3b	WE	

30	50	C	7.5YR6/4	Fe	com	0	0	poor	26	26	y	y
50	80	hZCL	7.5YR6/3	Fe	com	0	0	m/poor	24	29	y	(y)
<u>80</u>	90	C	7.5GY7/1	FeMn	many	0	50		6	0	y	n
90	120	Lst							9	0		

Total	119	110
MB	14	12

Droughtiness grade (DR)

2 1

Bare (wet spot)

271	T	0	24	hZCL	n	10YR5/3			4	0	44	44	n	n	///	3b	3b	WE
		24	42	ZC		10YR6/3	Fe	com	5	0	26	26	y	n				
		42	78	C		10YR5/3	Fe	com	0	0	30	36	y	y				
		<u>78</u>	90	C		7.5GY7/1	FeMn	many	0	50	7	0	y	n				
		90	120	Lst							9	0						

Total	115	106
MB	10	8

Droughtiness grade (DR)

2 2

Beans, thin crop

272	T	0	26	hCL	slight	10YR4/4			5	5	43	43	n	n	//	2	2	WE DR
		26	45	hCL	slight	10YR5/4			8	8	26	26	n	n				
		45	55	CL	very			com f	0	25	11	13	n	n				
		55	66	C	mod	2.5Y7/6	Fe	com f	0	5	8	15	n	n				
		66	95	C	mod	2.5Y7/3	Fe	com	0	5	20	5	y	y				
		<u>95</u>	120	Lst							8	0						

Total	115	102
MB	10	4

Droughtiness grade (DR)

2 2

Beans (tall)

273	T	0	25	hCL	mod	10YR4/4			8	8	39	39	n	n	///	2	3a	DR
		25	35	hCL	slight	7.5YR5/4			8	8	14	14	n	n				
		35	50	ZC		7.5YR5/3	Fe	com f	5	5	21	21	y	n				
		50	65	C	mod	2.5Y7/6	FeMn	com	0	10	11	20	n	(y)				
		65	85	C	mod	2.5Y7/6	Fe	com	0	10	13	6	n	y				
		<u>85</u>	120	Lst							11	0						

Total	108	99
MB	3	1

Droughtiness grade (DR)

3a

2

Beans

40	75	ZC/C	slight	2.5Y6/4	Fe	com f	0	0	m/poor	33	42	y	n
75	120	hZCL	slight	2.5Y6/6	Fe	com f	0	0	m/poor	36	0	n	n
Total										145	119		
MB										39	21		
Droughtiness grade (DR)										1	1		

GW.Groundwater	100cm	
FL.Flood Risk	EAFz3	3b
Grass near river		

Stone types		
%	TAv	EAv
hard	1	0.5
Lst	4	3

hard flint & pebble

Climate Data	
MDwheat	105
MDpotato	96
FCD	147

AAR 678

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	40-67cm	<40cm		1422 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			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% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
281	0	28	oC	mod.	10YR3/3		0	0		64	64	n	n	II-III	3a	3b	FL
	28	51	C	mod.	10YR5/3	Fe few	0	0		36	37	n	n				
	51	120	C	mod.	10YR5/1	Fe many	0	0	poor	48	25	y	y				
	Total										149	126	Field in EAFZ3- Subgrade 3b				
	MB										44	30					
Droughtiness grade (DR)										1	1						
282	0	23	C	mod.	10YR4/2		3	0		38	38	n	n	IV	3b	3b	WE
	23	120	C	n	10YR6/1	Fe com	0	0	poor	84	61	y	y				
	Total										122	99					
	MB										17	3					
	Droughtiness grade (DR)										2	2					
283	0	28	C	very	10YR4/2		0	30		37	37	n	n	II	3a	3b	ST
	28	64	C	mod.	10YR5/3	Fe few	0	20		40	49	n	n				
	64	120	C	very	10YR5/1	Fe com	0	10	poor	37	7	y	y				
	Total										113	93	TS stone 20-25%>2cm Lots of large stone				
	MB										8	-3					
Droughtiness grade (DR)										2	2						
284	0	26	C	n	10YR4/2		10	0		40	40	n	n	IV	3b	3b	WE
	26	50	C	v.sli	10YR5/3	Fe many	3	0	poor	30	30	y	y				
	50	120	C	n	10YR6/1	Fe many	5	0	poor	47	25	y	y				
	Total										117	95					
	MB										12	-1					
Droughtiness grade (DR)										2	2						
285	0	25	C	trace	10YR4/2		5	0		41	41	n	n	II	3b	3b	WE

		25	120	C	n	10YR5/2, 10YR5/3	Femn	many	0	0	96	72	y	n					
											Total	136	113						
											MB	31	17						
											Droughtiness grade (DR)		1	1					
286	T	0	30	oC	mod.	10YR4/2			0	0	69	69	n	n	<i>III</i>	3a	3b	FL	
		30	60	C	mod.	10YR5/3	Fe	com	0	0	40	48	y	n					
		60	102	C	mod.	10YR5/3	Fe	com	0	0	poor	29	13	y	y				
		102	120	C	mod.	10YR5/2	Femn	many	0	0	poor	13	0	y	y				
											Total	151	130	Field in EAFZ3- Subgrade 3b					
											MB	46	34						
											Droughtiness grade (DR)		1	1					
287	T	0	28	C	n	10YR4/2			5	0	45	45	n	n	<i>IV</i>	3b	3b	WE	
		28	83	C	n	2.5Y5/2	Fe	many	3	0	poor	50	53	y	y				
		83	120	C	n	10YR6/1	Fe	many	0	0	poor	26	0	y	y				
											Total	122	98						
											MB	17	2						
											Droughtiness grade (DR)		2	2					
288	T	0	26	C	very	10YR4/2			0	30	34	34	n	n	<i>II</i>	3a	3b	ST	
		26	64	C	mod.	10YR5/3	Fe	few	0	20	42	52	n	n					
		64	120	C	very	10YR5/1	Fe	com	0	10	poor	37	7	y	y				
											Total	113	93	TS stone 20-25%>2cm					
											MB	8	-3	Lots of large stone					
											Droughtiness grade (DR)		2	2					
289	T	0	29	hCL	n	10YR4/2	Fe	com	3	0	51	51	y	n	<i>IV</i>	3b	3b	WE	
		29	70	C	n	10YR5/2	Fe	many	3	0	poor	40	52	y	y				
		70	120	C	n	10YR5/1	Fe	v.many	0	0	poor	35	0	y	y				
											Total	126	103						
											MB	21	7						
											Droughtiness grade (DR)		2	2					
290	T	0	27	C	n	10YR4/2	Fe	few	5	0	44	44	n	n	<i>IV</i>	3b	3b	WE	
		27	63	C	n	10YR6/1	Fe	many	3	0	poor	38	46	y	y				

		63	120	C	n	10YR6/1	Fe	many	5	0	poor	38	9	y	y				
											Total	120	98						
											MB	15	2						
											Droughtiness grade (DR)	2	2						
291	T	0	28	C	n	10YR4/2			15	0		41	41	n	n	IV	3b	3b	WE
		28	68	C	n	10YR5/2	Fe/red	many	7	0	poor	39	49	y	y				
		<u>68</u>	120	C	n	10YR5/1	Fe	many	15	0	poor	31	2	y	y				
											Total	111	92						
											MB	6	-4						
											Droughtiness grade (DR)	2	2						
292	T	0	27	hCL	n	10YR4/2			15	2		41	41	n	n	II	3a	3a	WE
		27	60	C	n	10YR5/3	Femn	com	10	0		41	48	y	n				
		60	120	C	n	10YR5/8	Femn	com	0	0		48	16	n	n				
											Total	130	105						
											MB	25	9						
											Droughtiness grade (DR)	2	2						
293	T	0	28	hCL	n	10YR4/2			12	0		45	45	n	n	III	3b	3b	WE
		28	40	C	n	10YR5/3	Fe	com	3	0		19	19	y	n				
		40	65	C	n	10YR5/2	Femn	many	0	0	poor	24	33	y	y				
		65	120	C	n	10YR6/1	Fe	many	0	0	poor	39	7	y	y				
											Total	125	102						
											MB	20	6						
											Droughtiness grade (DR)	2	2						
294	T	0	25	C	n	10YR4/2	Fe	com	5	0		41	41	y	n	IV	3b	3b	WE
		25	120	C	n	10YR6/1	Fe	many	0	0	poor	82	59	y	y				
											Total	122	99						
											MB	17	3						
											Droughtiness grade (DR)	2	2						
295	T	0	25	C	mod.	10YR4/2			5	10		37	37	n	n	I-II	3a	3a	DR WE
		25	45	mSL	very	10YR4/6			0	40		21	21	n	n				
		<u>45</u>	70	mSL	very	10YR4/6			0	40		21	27	n	n				
		70	120	C	very	10YR6/1	Fe	com	0	0	poor	35	0	y	y				

															Total	114	85				
															MB	9	-11				
															Droughtiness grade (DR)		2	3a			
296	T	0	26	hCL	n	10YR4/2			12	0		41	41	n	n	IV	3b	3b	WE		
		26	35	C	n	10YR5/3	Fe	com	3	0		14	14	y	n						
		35	120	C	n	10YR6/1	Fe	many	0	0	poor	69	46	y	y						
															Total	124	101				
															MB	19	5				
															Droughtiness grade (DR)		2	2			
297	T	0	29	hCL	n	10YR4/2	Fe	com	7	0		49	49	y	n	III	3b	3b	WE		
		29	46	C	n	10YR5/2	Femn	com	5	0		26	26	y	n						
		46	120	C	n	10YR6/1	Femn	many	0	0	poor	54	31	y	y						
															Total	129	106				
															MB	24	10				
															Droughtiness grade (DR)		2	2			
298	T	0	20	C	sli	10YR4/2			2	3		33	33	n	n	IV	3b	3b	WE		
		Pit 15	20	120	C	mod.	10YR6/1	Fe	many	0	0	poor	88	65	y	y					
															Total	121	98				
															MB	16	2				
															Droughtiness grade (DR)		2	2			
299	T	0	25	C	sli	10YR4/2			1	2		41	41	n	n	I	2	2	WE		
		25	106	C	v.sli	10YR5/8	mn	many	3	0		82	70	n	n						
		106	120	hCL	n	10YR5/6	Femn	com	3	0		14	0	n	n						
															Total	137	111				
															MB	32	15				
															Droughtiness grade (DR)		1	1			
300	T	0	27	C	n	10YR4/2	Fe	few	7	0		43	43	n	n	IV	3b	3b	WE		
		27	70	C	n	10YR5/1	Fe	many	0	0	poor	53	69	y	y						
		70	120	C	v.sli	10YR6/1	Fe	many	0	0	poor	35	0	y	y						
															Total	131	112				
															MB	26	16				
															Droughtiness grade (DR)		2	1			

301	T	0	28	C	n	10YR4/2	Fe	com	5	0	45	45	y	n	IV	3b	3b	WE
		28	120	C	n	10YR6/1	Fe	many	0	0	poor	78	55	y	y			
											Total	123	100					
											MB	18	4					
											Droughtiness grade (DR)	2	2					
302	T	0	20	C	mod.	10YR4/2			0	20	29	29	n	n	I	2	3a	ST
		20	52	C	v.sli	10YR5/8	mn	com	0	0	50	51	n	n				
		52	110	C	mod.	10YR5/8			0	7	44	27	n	n				
		110	120	C	n	10YR6/1	Fe	many	0	0	poor	7	0	y	y			
											Total	130	107					
										MB	25	11						
										Droughtiness grade (DR)	2	1						
303	T	0	22	C	mod.	10YR4/2			0	9	35	35	n	n	I	2	2	WE DR
		22	70	C	v.sli	7.5YR5/8	mn	com	0	0	61	77	n	n				
		70	120	C	mod.	7.5YR5/8	mn	com	0	10	38	0	n	n				
											Total	133	112					
										MB	28	16						
										Droughtiness grade (DR)	2	1						
304	T	0	28	C	mod.	10YR4/2			0	26	38	38	n	n	II	3a	3a	WE ST
		28	50	C	very	10YR5/2	Fe	com	0	30	27	27	y	n				
		50	120	C	very	10YR5/2	Fe	com	0	30	46	25	y	n				
											Total	111	90					
										MB	6	-6						
										Droughtiness grade (DR)	2	2						
305	T	0	24	C	sli	10YR4/2			2	5	38	38	n	n	IV	3b	3b	WE
		24	32	C	sli	10YR5/3			2	0	13	13	n	n				
		32	120	C	n	10YR6/1	Fe	com	0	0	poor	72	49	y	y			
											Total	123	100					
										MB	18	4						
										Droughtiness grade (DR)	2	2						

TS stone 7/10/3- around ob
 TS stone variable across ha frequent patches of 3a

TS stone 5/3/1

TS stone 10/12/4- around ob
 TS stone variable across ha frequent patches of 3a
 Profile potentially over limestone at depth

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

hard flint & pebble

Climate Data	
MDwheat	104
MDpotato	95
FCD	148

AAR 682

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	40-68cm	<40cm		1414 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			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)	
306	T 0	18	C	10YR3/3	Fe	few	0	0		31	31	n	n	III	3b	3b	WE	
	18	40	C	10YR4/2	Fe	com	0	0		35	35	y	n					
	40	85	C	10YR5/3	Fe	many	2	0	poor	37	38	y	y					
	85	120	C	10Y5/1	Fe	com	0	0	poor	25	0	y	y					
	Total										127	104						
MB										23	9							
Droughtiness grade (DR)										2	2							
307	T 0	32	C	10YR4/2			0	0		54	54	n	n	IV	3b	3b	WE	
	32	45	C	10YR5/2	Fe	com	0	0	poor	17	17	y	y					
	45	120	C	10Y5/1	Fe	com	0	0	poor	56	33	y	y					
	Total										127	104						
	MB										23	9						
Droughtiness grade (DR)										2	2							
308	T 0	15	hCL	10YR4/2			0	0		27	27	n	n	III	3b	3b	WE	
	15	48	C	2.5Y4/3	Fe	com	0	0		53	53	n	n					
	48	80	C	2.5Y5/3	Fe	com	0	0	poor	24	29	y	y					
	80	120	C	10Y5/1	Fe	com	0	0	poor	28	0	y	y					
	Total										131	108						
MB										27	13							
Droughtiness grade (DR)										2	1							
309	T 0	25	C	10YR4/2			0	0		43	43	n	n	IV	3b	3b	WE	
	25	50	C	2.5Y5/2	FeMn	com	0	0	poor	33	33	y	y					
	<u>50</u>	80	C	2.5Y5/2	FeMn	com	10	0	poor	19	24	y	y					
	80	120	C	10Y5/1	Fe	com	0	0	poor	28	0	y	y					
	Total										122	99						

										MB	18	4						
										Droughtiness grade (DR)		2	2					
310	T	0	10	C	10YR3/3						17	17	n	n	///	3b	3b	WE
		10	45	C	10YR5/2	FeMn	com	0	0		56	56	y	n				
		45	120	C	2.5Y5/3	FeMn	many	0	0	poor	56	33	y	y				
										Total	128	106						
										MB	24	11						
										Droughtiness grade (DR)		2	1					
311	T	0	30	hCL	10YR4/2			0	0		54	54	n	n	IV	3b	3b	WE
		30	80	C	trace	10YR5/3	Fe	com	10	0	poor	43	47	y	y			
		80	120	C	mod	2.5Y5/3	Fe	many	0	0	poor	28	0	y	y			
										Total	125	101						
										MB	21	6						
										Droughtiness grade (DR)		2	2					
312	T	0	35	hCL	10YR4/2	Fe	few	0	0		63	63	n	n	II	3a	3a	WE
		35	70	C		10YR5/3	FeMn	com	0	0		40	56	y	n			
		70	120	C		10YR5/3	Fe	com	0	0	poor	35	0	y	y			
										Total	138	119						
										MB	34	24						
										Droughtiness grade (DR)		1	1					
313	T	0	20	hCL	10YR3/3			25	0		28	28	n	n	III-IV	3b	3b	WE
		<u>20</u>	40	hCL	10YR3/3			25	0		25	18	n	n				
		40	120	C		Fe	com	10	0	poor	56	41	y	y				
										Total	108	87						
										MB	4	-8						
										Droughtiness grade (DR)		3a	2					
314	T	0	24	C	10YR4/2			0	0		41	41	n	n	IV	3b	3b	WE
		24	120	C	2.5Y5/3	Fe	com	0	0	poor	83	60	y	y				
										Total	124	101						
										MB	20	6						
										Droughtiness grade (DR)		2	2					
315	T	0	26	C	10YR4/1	Fe	com	0	0		44	44	y	n	IV	3b	3b	WE

Very stony topsoil - impen to gouge auger

														Total	136	106					
														MB	32	11					
														Droughtiness grade (DR)		1	1				
321	T	0	30	hCL	10YR4/2			5	0		51	51	n	n	IV	3b	3b	WE			
		30	45	C	10YR5/3	Fe	com	5	0	poor	19	19	y	y							
		45	80	ZC	5GY5/1	Fe	few	0	0	poor	27	30	y	y							
		80	120	ZC	5GY5/1	Fe	few	5	0	poor	27	0	y	y							
														Total	124	100					
														MB	20	5					
														Droughtiness grade (DR)		2	2				
322	T	0	25	C	10YR4/2			2	0		42	42	n	n	IV	3b	3b	WE			
		25	60	C	10YR5/3	Fe	com	10	0	poor	36	41	y	y							
		60	120	C	2.5Y5/3	Fe	com	0	0	poor	42	13	y	y							
														Total	120	96					
														MB	16	1					
														Droughtiness grade (DR)		2	2				
323	T	0	22	C	10YR4/2			1	0		37	37	n	n	IV	3b	3b	WE			
		22	80	C	10YR5/2	Fe	com	0	0	poor	57	62	y	y							
		80	120	C	10YR5/1	Fe	com	0	0	poor	28	0	y	y							
														Total	122	99					
														MB	18	4					
														Droughtiness grade (DR)		2	2				
324	T	0	28	C	10YR4/2			8	0		44	44	n	n	IV	3b	3b	WE			
		28	75	C	2.5Y5/3	FeMn	com	0	0	poor	46	55	y	y							
		75	120	C	10YR5/1	Fe	com	0	0	poor	32	0	y	y							
														Total	122	99					
														MB	18	4					
														Droughtiness grade (DR)		2	2				
325	T	0	27	C	10YR4/2			2	0		45	45	n	n	IV	3b	3b	WE			
Pit 16		27	40	C	10YR5/3	Fe	com	10	0	poor	15	15	y	y							
		40	120	C	slight 10Y4/1	Fe	com	0	0	poor	62	39	y	y							
														Total	122	99					

									MB	18	4							
									Droughtiness grade (DR)		2	2						
326	T	0	35	hCL				1	0		62	62	n	n	IV	3b	3b	WE
		35	50	C				0	0	poor	20	20	y	y				
		<u>50</u>	120	C				0	0	poor	49	26	y	y				
										Total	131	108						
									MB	27	13							
									Droughtiness grade (DR)		2	1						
327	T	0	32	C				12	0		48	48	n	n	IV	3b	3b	WE
		32	120	C				0	0	poor	72	49	y	y				
										Total	121	98						
									MB	17	3							
									Droughtiness grade (DR)		2	2						
328	T	0	25	C				0	0		43	43	n	n	IV	3b	3b	WE
		25	75	C				1	0	poor	50	58	y	y				
		75	120	C	mod			0	0	poor	32	0	y	y				
										Total	124	100						
									MB	20	5							
									Droughtiness grade (DR)		2	2						
329	T	0	26	C				5	0		42	42	n	n	IV	3b	3b	WE
		26	80	C				1	0	poor	52	57	y	y				
		<u>80</u>	120	C	very			0	0	poor	28	0	y	y				
										Total	122	99						
									MB	18	4							
									Droughtiness grade (DR)		2	2						
330	T	0	20	C				5	0		32	32	n	n	IV	3b	3b	WE
		20	50	C				0	0	poor	39	39	y	y				
		<u>50</u>	120	C				0	0	poor	49	26	y	y				
										Total	120	97						
									MB	16	2							
									Droughtiness grade (DR)		2	2						
331	T	0	22	C				5	0		36	36	n	n	IV	3b	3b	WE

dry

22	40	C		10YR5/3	Fe	many	0	0	poor	23	23	y	y	
40	80	C		2.5Y5/2	Fe	com	0	0	poor	34	39	y	y	
80	120	C	very	10Y5/1	Fe	com	0	0	poor	28	0	y	y	
										Total	121	98		
										MB	17	3		
										Droughtiness grade (DR)	2	2		

332	T	0	28	C		10YR4/2		5	0		45	45	n	n	IV	3b	3b	WE
		28	78	C		10YR5/3	Fe	com	0	0	poor	48	55	y	y			
		<u>78</u>	120	C		10YR5/2	FeMn	com	0	0	poor	29	0	y	y			
										Total	123	100						
										MB	19	5						
										Droughtiness grade (DR)	2	2						

333	T	0	22	C		10YR4/2		1	0		37	37	n	n	IV	3b	3b	WE
		22	50	C		10YR5/3	Fe	com	0	0	poor	36	36	y	y			
		<u>50</u>	80	C		10YR5/3	Fe	com	0	0	poor	21	26	y	y			
		80	120	C		2.5Y5/2	Fe	com	0	0	poor	28	0	y	y			
										Total	122	99						
										MB	18	4						
										Droughtiness grade (DR)	2	2						

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	107
MDpotato	100
FCD	143

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>66cm	39-66cm	<39cm		1414 D°
SPL within 80cm, gleying at 40-70cm	>49cm	<49cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 665

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)
360	0	25		10YR4/2			10			41	41	n	n	III	3b	3b	WE
	25	52		10YR4/3	Fe	com	25		poor	26	27	n	y				
	<u>52</u>	80		10YR4/3	Fe	com	25		poor	15	18	n	y				
	80	120					10		poor	25	0	y	y				
	Total									107	86						
MB									0	-14							
Droughtiness grade (DR)									3a	3a							
361	0	26		10YR4/2			5			45	45	n	n	IV	3b	3b	WE
	26	30		2.5Y5/3	FeMn	com	30		poor	4	4	y	y				
	<u>30</u>	50		2.5Y5/3	FeMn	com	25		poor	20	20	y	y				
	50	120		2.5Y5/2	Fe	com	10		poor	44	24	y	y				
	Total									113	92						
MB									6	-8							
Droughtiness grade (DR)									2	2							
362	0	35		10YR3/2			5			60	60	n	n	IV	3b	3b	WE
	35	62		2.5Y5/3	FeMn	com	5		poor	27	33	y	y				
	62	120		2.5Y5/2	Fe	com	0		poor	41	10	y	y				
	Total									127	104						
	MB									20	4						
Droughtiness grade (DR)									2	2							
363	0	36		10YR3/2			10			62	62	n	n	IV	3b	3b	WE
	36	85		2.5Y5/2	FeMn	com	1		poor	42	44	y	y				
	85	120		2.5Y5/2	Fe	com	1		poor	24	0	y	y				
	Total									128	106						
	MB									21	6						

														Droughtiness grade (DR)		2	2				
364	T	0	35	C	10YR4/2			10		54	54	n	n	IV	3b	3b	WE				
		35	60	C	10YR5/2			Fe	com	2	poor	26	32	y	y						
		<u>60</u>	120	C	10YR5/2			Fe	com	1	poor	42	13	y	y						
												Total	122	99							
												MB	15	-1							
														Droughtiness grade (DR)		2	2				
365	T	0	22	C	10YR4/2			10		34	34	n	n	IV	3b	3b	WE				
		22	35	C	10YR5/3			Fe	com	25	poor	13	13	y	y						
		<u>35</u>	50	C	10YR5/3			Fe	com	30	poor	14	14	y	y						
		50	120	C	10YR5/2			Fe	com	5	poor	47	25	y	y						
												Total	108	86							
										MB	1	-14									
														Droughtiness grade (DR)		3a	3a				
366	T	0	32	hCL	5YR4/2			12		51	51	n	n	IV	3b	3b	WE				
		32	70	SC	7.5YR5/3			FeMn	com	20	poor	32	40	y	y						
		<u>70</u>	120	SC	7.5YR5/3			FeMn	com	20	poor	33	0	y	y						
												Total	116	91							
										MB	9	-9									
														Droughtiness grade (DR)		2	2				
367	T	0	32	hCL	7.5YR3/2			15		49	49	n	n	II	3a	3a	WE				
		32	60	SCL	7.5YR4/2			Fe	com	25		28	32	y	n						
		<u>60</u>	80	SCL	7.5YR4/2			Fe	com	25		15	12	y	n						
		80	120	C						10	poor	29	0	y	y						
												Total	122	93							
										MB	15	-7									
														Droughtiness grade (DR)		2	2				
368	T	0	35	hCL	10YR4/2			10		57	57	n	n	IV	3b	3b	WE				
		35	40	C	10YR5/2			Fe	com	10	poor	6	6	y	y						
		40	82	C	mod	10YR5/3			Fe	com	2	poor	35	38	y	y					
		82	120	C	very	10YR6/2			Fe	com	2	poor	26	0	y	y					
												Total	124	101							

Impenetrable to gouge auger

									MB	17	1						
									Droughtiness grade (DR)		2	2					
369	T	0	30	C	v.sli	10YR4/2		5		49	49	n	n	IV	3b	3b	WE
		30	60	C	slight	10YR5/3	Fe	com	10	poor	30	35	y	y			
		60	90	C	mod	2.5Y5/3	Fe	com	1	poor	21	13	y	y			
		90	120	C	mod	2.5Y5/3	Fe	com	1	poor	21	0	y	y			
									Total	120	97						
									MB	13	-3						
									Droughtiness grade (DR)		2	2					
370	T	0	35	hCL		2.5Y4/3		5		60	60	n	n	IV	3b	3b	WE
		35	70	C		2.5Y5/3	Fe	com	2	poor	33	45	y	y			
		70	120	C		2.5Y5/1	Fe	com	0	poor	35	0	y	y			
									Total	128	105						
									MB	21	5						
									Droughtiness grade (DR)		2	2					
371	T	0	35	hCL		2.5Y4/3		5		60	60	n	n	IV	3b	3b	WE
		35	70	C		2.5Y5/3	Fe	com	2	poor	33	45	y	y			
		70	120	C		2.5Y5/1	Fe	com	0	poor	35	0	y	y			
									Total	128	105						
									MB	21	5						
									Droughtiness grade (DR)		2	2					
372	T	0	28	C		10YR4/2		8		44	44	n	n	IV	3b	3b	WE
		28	80	C		2.5Y5/3	Fe	com	5	poor	47	52	y	y			
		80	120	C	v.sli	2.5Y5/2	Fe	com	0	poor	28	0	y	y			
									Total	119	96						
									MB	12	-4						
									Droughtiness grade (DR)		2	2					
373	T	0	30	C		10YR4/2		8		47	47	n	n	IV	3b	3b	WE
		30	120	C		2.5Y5/3	Fe	com	0	poor	75	52	y	y			
									Total	122	99						
									MB	15	-1						
									Droughtiness grade (DR)		2	2					

Groundwater at 20cm

374	T	0	25	C		10YR4/2			1		47	47	n	n	IV	3b	3b	WE	
		25	75	C		10YR5/3	Fe	com	1	poor	75	52	y	y					
		75	120	C		10YR5/3	Fe	com	1	poor	75	52	y	y					
										Total	122	99							Groundwater in lower subsoil
										MB	15	-1							
Droughtiness grade (DR)										2	2								
375	T	0	20	C		2.5Y4/2			2		33	33	n	n	IV	3b	3b	WE	
		20	55	C	slight	2.5Y5/3	Fe	com	1	poor	42	45	y	y					
		55	120	C	mod	2.5Y6/3	Fe	com	1	poor	45	19	y	y					
										Total	121	98							
										MB	14	-2							
Droughtiness grade (DR)										2	2								
376	T	0	24	hCL		10YR4/2			1		43	43	n	n	IV	3b	3b	WE	
		24	85	C		2.5Y5/2	Fe	com	0	poor	58	60	y	y					
		85	120	C		10YR5/1	Fe	com	0	poor	25	0	y	y					
										Total	126	103							
										MB	19	3							
Droughtiness grade (DR)										2	2								
377	T	0	20	hCL		10YR4/2	Fe	few	1		36	36	n	n	IV	3b	3b	WE	
		20	120	C		10YR5/2	Fe	com	0	poor	88	65	y	y					
											Total	124	101						
										MB	17	1							
	Droughtiness grade (DR)										2	2							
378	T	0	35	hCL		10YR4/2	Fe	few	1		62	62	n	n	IV	3b	3b	WE	
		35	78	C		2.5Y5/3	Fe	com	0	poor	39	46	y	y					
		78	120	C		2.5Y6/2	Fe	com	0	poor	29	0	y	y					
										Total	131	108							
										MB	24	8							
Droughtiness grade (DR)										2	2								
379	T	0	25	hCL		10YR4/2			1		45	45	n	n	IV	3b	3b	WE	
		25	85	C		10YR5/3	Fe	com	0	poor	57	59	y	y					
		85	120	C		10YR5/1	Fe	com	0	poor	25	0	y	y					

								Total	126	103						
								MB	19	3						
								Droughtiness grade (DR)	2	2						
380	T	0	34	hCL	10YR4/2		1		61	61	n	n	IV	3b	3b	WE
		34	65	C	2.5Y5/3	Fe	com	0	poor	31	40	y	y			
		65	120	C	2.5Y5/2	Fe	com	0	poor	39	7	y	y			
								Total	130	107						
								MB	23	7						
								Droughtiness grade (DR)	2	2						
381	T	0	34	C	2.5Y4/3		1		57	57	n	n	IV	3b	3b	WE
		34	120	C	2.5Y5/3	Fe	com	0	poor	70	47	y	y			
								Total	127	104						
								MB	20	4						
								Droughtiness grade (DR)	2	2						
382	T	0	22	C	10YR4/2		2		37	37	n	n	IV	3b	3b	WE
		22	120	C	10YR5/3	Fe	com	2	poor	84	61	y	y			
								Total	121	98						
								MB	14	-2						
								Droughtiness grade (DR)	2	2						
383	T	0	34	hZCL	2.5Y4/2		1		64	64	n	n	IV	3b	3b	WE
		34	65	C	10YR5/2	Fe	com	0	poor	31	40	y	y			
		65	120	C	10YR5/2	Fe	com	0	poor	39	7	y	y			
								Total	134	111						
								MB	27	11						
								Droughtiness grade (DR)	2	1						
384	T	0	30	C	2.5Y4/3		1		51	51	n	n	IV	3b	3b	WE
		30	120	C	2.5Y5/3	Fe	com	0	poor	75	52	y	y			
								Total	126	103						
								MB	19	3						
								Droughtiness grade (DR)	2	2						
385	T	0	28	C	10YR4/2		1		47	47	n	n	IV	3b	3b	WE
		28	90	C	10YR5/3	Fe	com	0	poor	57	55	y	y			

Wet at surface

		90	120	C		10YR5/1	Fe	com	0	poor	21	0	y	y				
										Total	125	102						
										MB	18	2						
										Droughtiness grade (DR)	2	2						
386	T	0	22	C		2.5Y4/3			2		37	37	n	n	IV	3b	3b	WE
Pit 17		22	80	C		2.5Y5/3	Fe	com	0	poor	57	62	y	y				
		<u>80</u>	120	C		2.5Y5/3	Fe	com	0	poor	28	0	y	y				
										Total	122	99						
										MB	15	-1						
										Droughtiness grade (DR)	2	2						
387	T	0	36	hCL		10YR4/2			2		64	64	n	n	IV	3b	3b	WE
		36	90	C		2.5Y5/3	Fe	com	0	poor	46	44	y	y				
		<u>90</u>	120	C		10YR5/3	Fe	com	0	poor	21	0	y	y				
										Total	131	108						
										MB	24	8						
										Droughtiness grade (DR)	2	2						

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	104
MDpotato	96
FCD	147

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	40-67cm	<40cm		1411 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard pebbles etc

AAR 681

Maximum depth of auger penetration is underlined

85 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)	
388	T 0	24	hCL	n	10YR4/2		4	0		42	42	n	n	IV	3b	3b	WE	
	24	33	C		10YR5/2	MnFe	many	4	0	m/poor	13	13	y	n				
	33	85	C	slight	2.5Y6/3	Fe	com	0	0	poor	47	48	y	y				
	<u>85</u>	120	Mst					0	0	poor	18	0	y	y				
	Total										118	102	GR.gradient		3o	E		
MB										14	6							
Droughtiness grade (DR)										2	2	Set aside scrub						
389	T 0	23	LC	n	10YR4/3		4	0		38	38	n	n	III	3b	3b	WE	
	23	42	LC	n	2.5Y6/3	Fe	many	10	0	m/poor	25	25	y	n				
	42	70	C		2.5Y7/2	Fe	com	0	0	poor	24	36	y	y				
	70	100	C		N7/1	Fe	many	0	0	poor	21	0	y	y				
	<u>100</u>	120	Mst	n				0	0	poor	10	0	y	y				
Total										118	99	GR.gradient		1o	E			
MB										14	3							
Droughtiness grade (DR)										2	2	Grass-clover ley						
390	T 0	27	hCL	n	2.5Y5/3	Fe	few	6	0		46	46	n	n	IV	3b	3b	WE
	27	39	C	n	2.5Y6/3	red	com	8	0	m/poor	16	16	y	n				
	39	100	C	n	7.5GY7/1	Fe	pred	0	0	poor	49	40	y	y				
	<u>100</u>	120	Mst					0	0	poor	10	0	y	y				
	Total										121	102						
MB										17	6							
Droughtiness grade (DR)										2	2	Grass-clover ley						
391	T 0	24	CL	n	2.5Y4/3	Fe	few	8	0		40	40	n	n	IV	3b	3b	WE
	24	33	C	n	2.5Y6/3	red	com	10	0		13	13	y	n				
	33	105	C	n	N7/1	Fe	red	0	0	poor	61	48	y	y				

		<u>105</u>	120	Mst				0	0	poor	8	0	y	y				
											Total	121	101					
											MB	17	5					
											Droughtiness grade (DR)	2	2		Grass-clover ley			
392	T	0	25	mCL	n	10YR4/4		12			40	40	n	n	/	1	3a	DR
		25	35	mCL	n	10YR6/6		35			11	11	n	n				
		<u>35</u>	80	SCL				60			23	23	n	n				
		80	120	Mst				0		poor	20	0	y	y				
											Total	93	74					
											MB	-11	-22					
											Droughtiness grade (DR)	3a	3a		Grass-clover ley, not stunted			
393	T	0	25	hCL	n	10YR3/3		15	0		39	39	n	n	//	3a	3a	WE
		25	40	CL				25	0	good	24	24	n	n				
		40	75	hCL		10YR6/3	Fe	com	12	0		36	43	y	n			
		75	100	hCL		10YR6/3, 7.5YR6/8	grey	pred	12	0	poor	16	0	y	y			
		100	120	C	n	N7/1	Fe	com	0	0	poor	14	0	y	y			
											Total	129	105			GR.gradient	10	E
											MB	25	9			ST.stone>2cm		
											Droughtiness grade (DR)	2	2		Disced (after WOSR)			
394	T	0	30	mCL	n	10YR4/2		15	0		46	46	n	n	//	2	3a	DR
		30	48	mCL	n	10YR5/3	Fe	com	30	0		21	21	y	n			
		<u>48</u>	70	SCL				50	0		12	18	y	n				
		70	120	SC				15	0	poor	34	0	y	y				
											Total	114	85			GR.gradient	10	NE
											MB	10	-11			ST.stone>2cm	>5%	2
											Droughtiness grade (DR)	2	3a		Disced (after WOSR)			
394a	T	0	27	CL	n	10YR4/2		10	0		44	44	n	n	///	3a	3a	WE
		27	40	CL	n	7.5YR6/4	Fe	com f	12	0		18	18	y	n			
		40	48	hCL			Fe	com	12	0		11	11	y	n			
		48	80	LC		5YR5/3, 5YR4/8	grey	pred	12	0	poor	21	24	y	y			
		<u>80</u>	120	SL				30	0		23	0	y	n				

													Total	118	98					GR.gradient	1o	NE
													MB	14	2					ST.stone>2cm		
													Droughtiness grade (DR)		2	2					Discd (after WOSR)	
395	T	0	27	CL	n	10YR4/2			15	0		42	42	n	n	//	3a	3a	WE			
		27	50	CL	n	7.5YR5/2, 7.5YR6/8	greyOM	com f	35	0	good	32	32	y	n							
		50	65	hCL			Fe	com	15	0		13	21	y	n							
		65	80	LC		5YR5/3, 5YR6/8	grey	pred	10	0	m/poor	10	6	y	n							
		80	100	SC		2.5Y7/8			20	0		13	0	n	n							
		<u>100</u>	120	SCL				30	0		12	0	n	n								
													Total	121	100					GR.gradient	1o	NE
													MB	17	4					ST.stone>2cm		
													Droughtiness grade (DR)		2	2					Discd (after WOSR)	
396	T	0	27	mCL	n	10YR4/3			4	0		47	47	n	n	//	2	2	WE DR			
		27	45	mCL		2.5Y6/4	Fe	com f	10	0		26	26	y	n							
		45	55	hSCL		2.5Y6/3	Fe	com	5	0	poor	10	12	y	n							
		55	100	fSCL		2.5Y5/2, 2.5Y7/8	grey	com	5	0		43	23	y	n							
		<u>100</u>	120	fSst				0	0		6	0	n	n								
													Total	132	108					GR.gradient	1o	SW
													MB	28	12					ST.stone>2cm		
													Droughtiness grade (DR)		2	1					Discd (after WOSR)	
397	T	0	27	C	n	2.5Y5/3	Fe	few	4			44	44	n	n	///	3b	3b	WE			
		27	33	C	n	2.5Y5/2	Fe	com	5			9	9	y	n							
		33	41	C	n	7.5GY7/1	red	many	5		m/poor	11	11	y	n							
		41	80	C	n	N7/1	Fe	many	0		poor	33	38	y	y							
		80	120	C	n			0		poor	28	0	y	y								
													Total	125	102					GR.gradient		
													MB	21	6					ST.stone>2cm		
													Droughtiness grade (DR)		2	2					Grass-clover ley	
398	T	0	25	hCL	n	10YR4/4	Fe	few	4			43	43	n	n	///	3b	3b	WE			
		25	43	C	n	2.5Y5/3	Fe	many	0		m/poor	26	26	y	n							
		43	100	C	n	7.5GY7/1	Fe	pred	0		poor	44	35	y	y							

		<u>100</u>	120	Mst				0	poor	10	0	y	y				
									Total	124	105			GR.gradient			
									MB	20	9			ST.stone>2cm			
									Droughtiness grade (DR)	2	2			Grass-clover ley (taller)			
399	T	0	27	hCL	n	7.5YR4/4		10	0	44	44	n	n	///	3b	3b	WE
		27	50	hCL	n	7.5YR5/2, 7.5YR6/8	greyOM	com	12	0	33	33	y	n			
		50	65	LC		5YR5/3, 5YR6/8	grey	pred	12	0	9	17	y	y			
		65	90	hCL					12	0	19	6	y	n			
		<u>90</u>	120	SCL					30	0	17	0	y	y			
									Total	122	100			GR.gradient			
									MB	18	4			ST.stone>2cm			
									Droughtiness grade (DR)	2	2			Discd (after WOSR)			
P37	T	0	27	hCL	n	7.5YR4/4		6	0	46	46	n	n	///	3b	3b	WE
		27	45	hCL	n	2.5Y6/4	FeMn	com	12	0	26	26	y	n			
		45	70	LC		10YR6/3	RedMn	many	12	0	22	32	y	y			
		70	90	SC		5YR5/3, 5YR5/6	grey	pred	15	0	14	0	y	y			
		<u>90</u>	120	SCL					30	0	17	0	y	y			
									Total	124	104			GR.gradient			
									MB	20	8			ST.stone>2cm			
									Droughtiness grade (DR)	2	2			Discd (after WOSR)			
400	T	0	27	mCL	n	10YR4/3		2	0	48	48	n	n	//	2	2	WE
		27	50	mCL		2.5Y6/4	FeOM	many	2	0	36	36	y	n			
		50	68	fSCL		7.5YR6/6	grey	com	0	0	18	29	y	n			
		68	80	mCL		7.5GY7/2	Fe	com	0	0	12	3	y	n			
		80	120	C	n	N7/1	Fe	com	0	0	28	0	y	y			
									Total	142	116			GR.gradient		1o	SW
									MB	38	20			ST.stone>2cm			
									Droughtiness grade (DR)	1	1			Discd (after WOSR)			
401	T	0	25	mCL	n	10YR4/2		3	0	44	44	n	n	//	2	2	WE
		25	50	mCL		10YR5/3	Fe	com	5	0	38	38	y	n			
		50	120	SCL		10YR6/4	Fe	few	5	0	67	29	n	n			

													Total	149	110				
													MB	45	14				
													Droughtiness grade (DR)		1	1			
402	T	0	27	mCL	v.sli	10YR4/2			3	0	47	47	n	n	///	3a	3a	WE	
		27	43	hCL	mod	10YR5/3	Femn	few	0	0	26	26	n	n					
		43	120	C	calc	10YR5/1	Femn	many	0	0	poor	58	35	y	y				
															Total	131	108		
													MB	27	12				
													Droughtiness grade (DR)		2	1			
403	T	0	24	C	n	2.5Y5/3			4		39	39	n	n	///	3b	3b	WE	
		24	40	C	n	2.5Y6/3	red	com	10		m/poor	21	21	y	n				
		40	55	C	n	2.5Y6/3	Fe	many	20			16	20	y	n				
		55	100	C	n	N7/1	Fe	many	0		poor	32	20	y	y				
		100	120	Mst	n				0		poor	10	0	y	y				
													Total	118	99				
													MB	14	3				
													Droughtiness grade (DR)		2	2			
404	T	0	24	C	n	2.5Y4/3			4		39	39	n	n	///-IV	3b	3b	WE	
		24	40	C	n	2.5Y5/2	Fe	com	4			25	25	y	n				
		40	55	C	n	7.5GY7/1	Fe	many	0		poor	17	20	y	y				
		55	70	mCL	n	7.5YR6/8	grey	many	10			14	22	n	n				
		70	120	C	n	7.5GY8/1	Fe	pred	0		poor	35	0	y	y				
													Total	129	105				
													MB	25	9				
													Droughtiness grade (DR)		2	2			
405	T	0	27	mCL	n	10YR4/2			25	0	37	37	n	n	/	1	3a	DR	
		27	45	mCL	n	10YR6/6			35	0	19	19	n	n					
		45	80	SCL					60	0	16	17	n	n					
		80	120	Mst					0	0	poor	20	0	y	y				
													Total	93	73				
													MB	-11	-23				
													GR.gradient		1o	NE			
													ST.stone>2cm		>10%	3a			

											Droughtiness grade (DR)		3a	3a	Grass-clover ley, stunted				
406	T	0	27	hCL	n	10YR5/3			12	0	43	43	n	n	///	3b	3b	WE	
		27	38	hCL	n	7.5YR5/6	grey	faint	12	0	16	16	n	n					
		38	50	hCL		2.5Y5/3	red	com	12	0	17	17	y	n					
		50	75	SC		10YR6/3	red	many	12	0	m/poor	20	25	y	y				
		75	120	C		7.5YR5/2, 7.5YR6/8	grey	pred	5	0	poor	30	0	y	y				
		Total											126	101	GR.gradient				1o
MB											22	5	ST.stone>2cm						
											Droughtiness grade (DR)		2	2	Disc'd (after WOSR)				
407	T	0	27	hCL	n	10YR4/3			6	0	46	46	n	n	//	3a	3a	WE DR	
		27	35	hCL	n	2.5Y5/3	Fe	com	10	0	12	12	y	n					
		35	45	C	n	2.5Y5/2	Fe	many	5	0	poor	12	12	y	n				
		45	63	hCL	n	2.5Y5/3	red	many	20	0		17	23	y	n				
		63	120	Lst								17	3	n	n				
Total											104	96	GR.gradient						
Combrash											0	0	ST.stone>2cm						
											Droughtiness grade (DR)		3a	2	Disc'd (after WOSR)				
408	T	0	28	hCL	n	10YR4/2			6	0	48	48	n	n	///	3b	3b	WE	
		28	48	hCL	n	2.5Y6/4	Fe	com	10	0	29	29	y	n					
		48	65	C		2.5Y5/2	Fe	com	0	0	15	27	y	n					
		65	100	C	n	7.5GY7/1	Fe	com	0	0	poor	25	7	y	y				
		100	120	MSt					0	0	poor	10	0	y	y				
Total											126	110	GR.gradient				1o	N	
Kellaways											22	14	ST.stone>2cm						
Clay											Droughtiness grade (DR)		2	1	Disc'd (after WOSR)				
409	T	0	26	mCL	n	10YR4/2			5	2	44	44	n	n	/	1	3a	DR	
		26	50	hCL	n	10YR4/6	mn	com	7	0	36	36	n	n					
		50	60	hCL	very	10YR4/6			0	10	9	15	n	n					
		60	120	Lst							18	4							
Total											107	99							
MB											3	3							
											Droughtiness grade (DR)		3a	2					

410	T	0	24	C	n	2.5Y5/3		4	0	39	39	n	n	IV	3b	3b	WE
		24	35	C	n	2.5Y6/3	Fe com	4	0	m/poor	15	15	y	n			
		35	100	C	n	7.5GY7/1	Fe pred	0	0	poor	55	46	y	y			
		100	120	Mst	n			0	0	poor	10	0	y	y			
											Total	119	100				
										MB	15	4					
Droughtiness grade (DR)										2	2			Scrub			
411	T	0	25	hCL	n	2.5Y5/3		8	0	42	42	n	n	III	3b	3b	WE
		25	50	hCL	n	2.5Y6/3	Fe com	15	0	34	34	y	n				
		50	70	C	n	7.5GY7/1	Fe pred	10	0	poor	13	24	y	y			
		70	100	C	n	N7/1	Fe many	0	0	poor	21	0	y	y			
		100	120	Mst	n			0	0	poor	10	0	y	y			
										Total	120	100					
										MB	16	4					
Droughtiness grade (DR)										2	2			Grass-clover ley			
412	T	0	28	CL	n	2.5Y4/4		8	0	47	47	n	n	III	3b	3b	WE
		28	41	C	n	2.5Y6/3	Fe many	10	0	m/poor	17	17	y	n			
		41	100	C	n	10YR5/1	red many	10	0	poor	42	34	y	y			
		100	120	Mst	n	7.5GY8/1		0	0	poor	10	0	y	y			
											Total	116	98				
										MB	12	2					
Droughtiness grade (DR)										2	2			Grass-clover ley			
413	T	0	27	mCL	n	10YR4/6		6		46	46	n	n	II	2	2	WE DR
		27	43	CL	n	10YR5/2	Fe com f	10		23	23	y	n				
		43	50	C	n	10Y6/1	Fe many	0		poor	9	9	y	(y)			
		50	90	SCL	n	7.5YR5/3	Fe com	15			34	26	y	n			
		90	120	C	n	7.5GY6/1	Fe many	0		poor	21	0	y	y			
										Total	133	104					
										MB	29	8					
Droughtiness grade (DR)										2	2			GR.gradient	2o	S	
Droughtiness grade (DR)										2	2			Winter wheat.			
414	T	0	27	hZCL	n	10YR5/4		8	0	47	47	n	n	I	2	3a	DR DP

		27	40	ZC		7.5YR5/6	grey	few	8	0	m/poor	16	16	n	n								
		<u>40</u>	120	Lst								25	12										
												Total	89	76									
												MB	-15	-20									
												Droughtiness grade (DR)	3a	3a	Winter wheat. Mossy topsoil.								
415	T	0	26	C	n	10YR4/2			3	0		43	43	n	n	IV	3b	3b	WE				
		26	60	C	n	10YR6/1	Fe	many	0	0	poor	38	44	y	y								
		60	120	C	n	10YR6/1	Fe	com	0	0	poor	42	13	y	y								
												Total	123	100									
												MB	19	4									
												Droughtiness grade (DR)	2	2									
416	T	0	28	hCL	n	10YR4/2			2	0		49	49	n	n	III	3b	3b	WE				
		28	55	C	n	10YR5/1	Fe	many	7	0		37	40	y	n								
		55	70	C	n	10YR6/1	Fe	many	3	2	poor	10	19	y	y								
		<u>70</u>	120	C	n	10YR6/1	Fe	many	10	0	poor	32	0	y	y								
												Total	128	109									
												MB	24	13									
												Droughtiness grade (DR)	2	1									
417	T	0	26	hCL	n	2.5Y4/3			8	0		43	43	n	n	III	3b	3b	WE				
		26	40	C	n	2.5Y6/3	Fe	com	8	0	m/poor	19	19	y	n								
		40	50	C	n	2.5Y5/2	red	many	20	0		13	13	y	n								
		50	120	C	n	7.5GY8/1	red	pred	0	0	poor	49	26	y	y								
												Total	124	101									
												MB	20	5									
												Droughtiness grade (DR)	2	2	GR.gradient 1o S								
																				Winter wheat.			
418	T	0	27	CL	n	10YR5/4	Fe	few	6	0		46	46	n	n	II	3a	3a	WE DR				
		27	35	C	n	7.5YR5/3	Fe	com f	6	0	m/poor	11	11	y	n								
		35	63	C	mod	7.5YR5/4	OMFe	com	0	10		32	41	y	n								
		<u>63</u>	120	Lst								17	3										
												Total	106	101									
												MB	2	5									
												Droughtiness grade (DR)	3a	2	Winter wheat.								

419	T	0	28	hZCL	slight	10YR4/6		4	4	50	50	n	n	/	2	3a	DR	
		28	55	hCL	very	10YR6/8		0	15	36	38	n	n					
		55	120	Lst						20	6							
		Total								105	94							
MB								1	-2									
Droughtiness grade (DR)										3a	2	Winter wheat						
420	T	0	25	hCL	n	2.5Y5/3		4	0	43	43	n	n	IV	3b	3b	WE	
		25	32	hCL	n	2.5Y5/3	Fe com	10	0	10	10	y	n					
		32	50	C	n	2.5Y6/4	Fe many f	0	0	poor	23	23	y	y				
		50	120	C	n	7.5GY7/1	red many	0	0	poor	49	26	y	y				
		Total										126	103					
MB										22	7	GR.gradient		2o	NE			
Droughtiness grade (DR)										2	2	Ley (cut)						
421	T	0	29	hCL	n	10YR4/2		7	0	49	49	n	n	///	3b	3b	WE	
		29	48	hCL	n	10YR5/3	Fe com	15	0	26	26	y	n					
		48	70	C	n	10YR6/1	Fe many	0	0	poor	17	29	y	y				
		70	120	C	n	10YR6/1	Fe com	0	0	poor	35	0	y	y				
		Total										126	103					
MB										22	7							
Droughtiness grade (DR)										2	2							
422	T	0	30	mCL	n	10YR4/2		7	0	50	50	n	n	//	2	2	WE DR	
		30	60	mCL	n	10YR5/3		12	0	37	43	n	n					
		60	120	C	n	10YR6/1	Fe com	20	0	poor	34	11	y	y				
		Total										122	104					
MB										18	8							
Droughtiness grade (DR)										2	2							
423	T	0	23	mCL	n	10YR4/4		6	0	39	39	n	n	//	2	2	DR WE	
		23	46	hCL	n	10YR5/6		10	0	33	33	n	n					
		46	65	SCL	very			20	20		14	19	n	n				
		65	120	C				0	0	poor	39	7	(y)	y				
		Total										125	98					
MB										21	2	GR.gradient		1o	E			

														Droughtiness grade (DR)		2	2	Winter wheat		
424	T	0	23	CL	n	10YR4/4				6	0	39	39	n	n	//	3a	3a	DR	
		23	50	CL	n	10YR6/6				15	0	37	37	n	n					
		50	65	SCL						50	0	8	12	n	n					
		65	120	C						0	0	poor	39	7	(y)	y				
										Total		123	95							
										MB		19	-1							
														Droughtiness grade (DR)		2	2	Winter wheat		
425	T	0	25	mCL		10YR4/4				6	2	42	42	n	n	/	1	3a	DR DP	
		25	37	CL	slight	10YR5/6				5	5	18	18	n	n					
		37	120	Lst								26	13							
										Total		86	73	GR.gradient					1o	E
										MB		-18	-23							
														Droughtiness grade (DR)		3a	3a	Winter wheat (mossy topsoil)		
426	T	0	23	mCL	n	2.5Y5/2				6	0	39	39	n	n	IV	3b	3b	WE	
		23	32	C	n	2.5Y5/3	Fe	com	10	0	13	13	y	n						
		32	50	C	n	10Y7/1	FeMn	many	0	0	poor	23	23	y	y					
		50	120	C	n	7.5GY7/1	red	many	0	0	poor	49	26	y	y					
										Total		125	102	GR.gradient					1o	N
										MB		21	6							
														Droughtiness grade (DR)		2	2	Ley (cut)		
427	T	0	25	hCL	n	2.5Y4/3				12	0	40	40	n	n	//	3a	3a	WE	
		25	50	hCL	n	2.5Y6/6				25	0	31	31	n	n					
		50	70	SCL	n					40	0	12	19	n	n					
		70	120	C	n	7.5GY7/1				0	0	poor	35	0	(y)	y				
										Total		118	89	GR.gradient					1-2o	NE
										MB		14	-7							
														Droughtiness grade (DR)		2	2	Ley (cut)		
428	T	0	25	hCL	n	10YR4/2				3	0	44	44	n	n	IV	3b	3b	WE	
		25	120	C	n	10YR6/1	Fe	many	0	0	poor	82	59	y	y					
										Total		125	102							
										MB		21	6							

													Droughtiness grade (DR)		2	2			
429	T	0	23	hCL	n	10YR5/4			6	0	39	39	n	n	///	3b	3b	WE	
		23	48	hCL	n	10YR6/4	Fe	few f	8	0	37	37	n	n					
		48	120	C	n	10Y7/1	Fe	many	0	0	poor	52	29	y	y				
												Total	128	105			GR.gradient	1o	E
												MB	24	9					
													Droughtiness grade (DR)		2	2	Winter wheat		
430	T	0	25	CL	n	10YR4/4			8	0	42	42	n	n	/	2	2	DR WE	
		25	45	mCL	n	7.5YR5/6			10	0	29	29	n	n					
		45	65	ZC		7.5YR6/6	Mn	com	20	0	16	24	n	n					
		65	80	SCL					40	0	9	5	n	n					
		80	120	C					0	0	poor	28	0	(y)	y				
										Total	124	100			GR.gradient	1o	E		
										MB	20	4							
													Droughtiness grade (DR)		2	2	Winter wheat		
431	T	0	25	ZC	slight	10YR4/4			6	6	38	38	n	n	/	2	3b	DR DP	
		25	29	ZC	very	10YR5/4			0	25	good	7	7	n	n				
		29	120	Lst								29	16						
												Total	74	61					
										MB	-30	-35							
													Droughtiness grade (DR)		3b	3b	Winter wheat		
432	T	0	27	LC	n	10YR4/4			4	0	44	44	n	n	//	3b	3b	WE	
		27	40	ZC	n	2.5Y5/3	Fe	com f	5	0	19	19	y	n					
		40	50	ZC	n	2.5Y5/3	FeMn	many	10	0	14	14	y	n					
		50	65	LC	very	2.5Y8/3			0	20		12	20	n	n				
		65	120	Lst								17	2						
										Total	105	99							
										MB	1	3							
													Droughtiness grade (DR)		3a	2	Ley (cut)		
433	T	0	25	hCL	n	2.5Y4/3			4	0	43	43	n	n	///	3b	3b	WE	
		25	41	hCL	n	2.5Y5/4	Fe	com f	4	0	25	25	y	n					

		<u>31</u>	120	Lst						29	16						
									Total	77	64						
									MB	-27	-32						
									Droughtiness grade (DR)		3b	3b					Spring barley
439	T	0	24	hCL	slight	10YR5/4		4	4	40	40	n	n	//	2	3a	DR
		24	58	hCL	mod	10YR5/4	Fe	few f	4	4	46	51	n	n			
		<u>58</u>	120	Lst						19	5						
									Total	105	96						valley
									MB	1	0						
									Droughtiness grade (DR)		3a	2					Winter wheat
440	T	0	25	hCL	mod	10YR4/2		2	10	41	41	n	n	/	2	3b	DR
		25	33	hCL	very	10YR5/6		0	25	good	13	13	n	n			
		<u>33</u>	120	Lst						28	15						
									Total	82	69						
									MB	-22	-27						
									Droughtiness grade (DR)		3b	3a					Spring barley (uneven crop)
441	T	0	29	ZC	mod	7.5YR4/3		0	20	42	42	n	n	/	2	3b	DR DP
		<u>29</u>	34	ZC	very			0	50	5	5	n	n				
		34	120	Lst						27	14						
									Total	74	61						
									MB	-30	-35						ST.stone>2cm >10% 3a
									Droughtiness grade (DR)		3b	3b					Spring barley (uneven crop)
442	T	0	28	ZC	mod	10YR4/4		0	12	43	43	n	n	/	2	3a	DR DP
		28	40	hCL	very	10YR6/6		0	25	good	20	20	n	n			
		<u>40</u>	120	Lst						25	12						
									Total	88	75						
									MB	-16	-21						
									Droughtiness grade (DR)		3a	3a					Spring barley
Pit 18	T	0	28	ZC	mod	7.5YR4/2		2	13	42	42	n	n	/	2	3b	DR DP
		28	33	ZC	very			0	75	3	3	n	n				
		<u>33</u>	120	Lst						28	15						
									Total	73	60						

								MB	-31	-36						
								Droughtiness grade (DR)	3b	3b			Spring barley			
443	T	0	27	ZC	mod	7.5YR4/3	0	20	39	39	/	2	3b	DR	DP	
		<u>27</u>	32	ZC			0	50	5	5						
		32	120	Lst					28	15						
								Total	72	59						
								MB	-32	-37			ST.stone>2cm	>10%	3a	
								Droughtiness grade (DR)	3b	3b			Spring barley			
444	T	0	25	hZCL	very	10YR4/4	0	12	43	43	n	n	/	2	3a	DR
		25	40	hCL	very	10YR5/6	0	25	good	25	25	n	n			
		<u>40</u>	120	Lst						25	12					
								Total	93	80						
								MB	-11	-16						
								Droughtiness grade (DR)	3a	3a			Spring barley (tall and even)			
445	T	0	28	ZC	mod	7.5YR4/3	0	15	42	42	n	n	/	2	3a	DR
		28	40	mCL	extr.		0	25	good	20	20	n	n			
		<u>40</u>	120	Lst						25	12					
								Total	87	74						
								MB	-17	-22			ST.stone>2cm	>5%	2	
								Droughtiness grade (DR)	3a	3a			Spring barley			
446	T	0	28	ZC	mod	7.5YR4/6	0	10	44	44	n	n	/	2	3b	DR
		<u>28</u>	33	ZC			0	50	5	5	n	n				
		33	120	Lst					28	15						
								Total	77	64						
								MB	-27	-32			ST.stone>2cm	>10%	3a	
								Droughtiness grade (DR)	3b	3b			Spring barley			
447	T	0	28	ZC	mod	7.5YR4/3	0	12	43	43	n	n	/	2	3b	DR
		<u>28</u>	33	ZC	very		0	50	5	5	n	n				
		33	120	Lst					28	15						
								Total	76	63						
								MB	-28	-33			ST.stone>2cm	>5%	2	
								Droughtiness grade (DR)	3b	3b			Spring barley			

448	T	0	26	hCL	very	7.5YR4/3	0	25	38	38	n	n	/	2	3b	DR DP	
		<u>26</u>	31	hCL	very		0	50	5	5	n	n					
		31	120	Lst					29	16							
								Total		71	58						
						MB		-33	-38			ST.stone>2cm		>10%	3a		
						Droughtiness grade (DR)		3b	3b			Spring barley					
449	T	0	24	hZCL	mod	7.5YR4/3	0	12	41	41	n	n	/	2	3b	DR DP	
		24	29	hCL	very		0	25	8	8	n	n					
		<u>29</u>	120	Lst					29	16							
								Total		79	66						
						MB		-25	-30			ST.stone>2cm		>5%	2		
						Droughtiness grade (DR)		3b	3a			Spring barley					
450	T	0	25	hCL	very	10YR4/3	4	10	40	40	n	n	/	2	3a	DR DP	
		25	35	hCL	very	10YR4/6	4	10	19	19	n	n					
		<u>35</u>	120	Lst					27	14							
								Total		85	72						
						MB		-19	-24			ST.stone>2cm		>5%	2		
						Droughtiness grade (DR)		3a	3a			Winter wheat (even crop)					
451	T	0	25	hCL	very	10YR4/3	4	10	40	40			/	2	3a	DR DP	
		25	40	hCL	very	10YR4/6	4	25	24	24							
		<u>40</u>	120	Lst					25	12							
								Total		89	76						
						MB		-15	-20			ST.stone>2cm		>5%	2		
						Droughtiness grade (DR)		3a	3a			Winter wheat (even crop)					

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	108
MDpotato	98
FCD	146

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	39-67cm	<39cm		1,422
SPL within 80cm, gleying at 40-70cm	>50cm	<50cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 671

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)
452	0	25	hCL	extra	10YR4/2		0	15		42	42	n	n	/	1	3b	DR DP
	25	30	hCL	extra	10YR5/4		0	30		7	7	n	n				
	<u>30</u>	120	Lst							29	16	n	n				
	Total										78	65					
MB										-30	-33						
Droughtiness grade (DR)										3b	3b						
453	0	24	hCL	very	10YR4/2		0	15		40	40	n	n	/	2	3b	DR DP
	<u>24</u>	120	Lst							31	18	n	n				
	Total										72	59	ST.stone>2cm				
	MB										-36	-39	>5%				
Droughtiness grade (DR)										3b	3b	2					
454	0	25	hCL	n	10YR4/2		5	2		42	42	n	n	/	1	3a	DR
	25	45	hCL	n	7.5YR4/6		15	0		28	28	n	n				
	45	60	hCL	mod	7.5YR4/6		15	10		15	20	n	n				
	<u>60</u>	120	Lst							18	4	n	n				
Total										103	94						
MB										-5	-4						
Droughtiness grade (DR)										3a	2						
455	0	24	hCL	very	10YR4/2		0	11		41	41	n	n	/	2	3b	DR DP
	24	30	hCL	very	7.5YR5/6		0	20		9	9	n	n				
	<u>30</u>	120	Lst							29	16	n	n				
	Total										79	66					
MB										-29	-32						
Droughtiness grade (DR)										3b	3b						
456	0	25	hCL	very	10YR4/3		5	19		39	39	n	n	/	1	3b	DR DP

		<u>25</u>	120	Lst						31	18	n	n				
									Total	70	57			ST.stone>2cm	>10%	3a	
									MB	-38	-41						
									Droughtiness grade (DR)		3b	3b					
457	T	0	25	hCL	trace	10YR4/2		3	0	44	44	n	n	I-II	3a	3a	WE
		25	60	C	sli	7.5YR5/6		0	0	48	56	n	n				
		60	70	C	mod	7.5YR5/8	Mn	com	0	0	8	16	n	n			
		70	120	C	very	N5/1	Fe	com	0	0	poor	35	0	y	y		
									Total	135	116						
									MB	27	18						
									Droughtiness grade (DR)		2	1					
458	T	0	24	C	mod	10YR4/3		0	13	39	39	n	n	/	2	3b	DR DP
		24	30	C	very	7.5YR5/4		0	20	9	9	n	n				
		<u>30</u>	120	Lst						29	16	n	n				
									Total	76	63			ST.stone>2cm	>5%	2	
									MB	-32	-35						
									Droughtiness grade (DR)		3b	3b					
459	T	0	23	hCL	mod	10YR4/3		0	13	39	39	n	n	/	2	3b	DR DP
		23	26	C	very	7.5YR5/6		0	30	4	4	n	n				
		<u>26</u>	120	Lst						31	18	n	n				
									Total	74	61			ST.stone>2cm	>5%	2	
									MB	-34	-37						
									Droughtiness grade (DR)		3b	3b					
460	T	0	25	C	mod	10YR4/3		5	13	38	38	n	n	/	2	3b	DR DP
		25	30	C	very	7.5YR5/4		0	20	7	7	n	n				
		<u>30</u>	120	Lst						29	16	n	n				
									Total	75	62			ST.stone>2cm	>5%	2	
									MB	-33	-36						
									Droughtiness grade (DR)		3b	3b					
461	T	0	25	hCL	sli	10YR4/3		10	0	41	41	n	n	/	2	3b	DR
		25	35	C	very	7.5YR5/4		0	30	14	14	n	n				
		<u>35</u>	120	Lst						27	14	n	n				

											Total	82	69					
											MB	-26	-29					
											Droughtiness grade (DR)		3b	3a				
462	T	0	25	hCL	n	10YR4/3	8	0	42	42	n	n	/	2	3a	DR DP		
		25	35	C	n	7.5YR5/8	3	0	16	16	n	n						
		35	40	C	sli	7.5YR5/8	0	5	8	8	n	n						
		<u>40</u>	120	Lst					25	12	n	n						
											Total	90	77					
											MB	-18	-21					
											Droughtiness grade (DR)		3a	3a				

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

hard pebbles etc

Climate Data	
MDwheat	107
MDpotato	100
FCD	144

AAR 666

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>66cm	39-66cm	<39cm		1422 D°
SPL within 80cm, gleying at 40-70cm	>49cm	<49cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

Maximum depth of auger penetration is underlined

71 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
463	T 0	32	hCL	slight	10YR4/3		2	4		55	55	n	n	//	2	2	WE DR
	32	60	mCL	mod	10YR6/3	FeMn	com	10	10	32	37	y	n				
	60	80	SCL/SL		7.5YR6/8	grey	com	8	0	19	15	n	n				
	80	120	SCL/SL		7.5YR6/8	grey	com	8	0	poor	30	0	n	n			
									Total	136	107						
									MB	29	7						
									Droughtiness grade (DR)		2	2					Spring barley
464	T 0	30	hCL	n	10YR4/3		4			52	52	n	n	I-II	3a	3a	WE
	30	42	ZC	n	2.5Y5/4	Fe	com f	8		17	17	n	n				
	42	55	C	n	2.5Y6/2	Mn	com	8	poor	13	16	y	n				
	55	120	SC	n	10YR6/4	Fe	com	8	m/poor	54	19	y	n				
									Total	136	104						
									MB	29	4						
									Droughtiness grade (DR)		2	2					Spring barley
465	T 0	25	hCL	mod	10YR4/6		4	8		41	41	n	n	/	2	3a	DR
	25	60	LC	very	7.5YR6/6	OMgrey	com	4	10	m/poor	40	45	n	n			
	<u>60</u>	120	Lst							18	4						
									Total	98	90						
									MB	-9	-10						
									Droughtiness grade (DR)		3a	3a					Spring barley
466 Pit 19	T 0	27	hCL	n	10YR4/3		5	0		46	46	n	n	/	2	3a	DR
	27	37	hCL		10YR6/6		5	0	good	20	20	n	n				
	37	52	LC		10YR6/3	Mn	com	5	0	m/poor	20	21	n	n			
	52	65	LC	mod	10YR6/4		0	30	m/poor	9	15	n	n				
	<u>65</u>	120	Lst							17	2						

														Total	111	104					
														MB	4	4					
														Droughtiness grade (DR)		3a	2	Spring barley			
467	T	0	25	LC	mod	10YR4/6			0	6	41	41	n	n	/	2	3a	DR			
		25	45	C	mod	10YR6/6	grey	com	0	8	m/poor	27	27	n	n						
		45	52	C	very	10YR7/4			0	30		8	9	n	n						
		52	120	Lst								20	7								
														Total	96	84					
														MB	-11	-16					
														Droughtiness grade (DR)		3a	3a	Spring barley			
468	T	0	24	C	n	2.5Y4/3			6	0		38	38	n	n	IV	3b	3b	WE		
		24	34	C	n	10Y7/8	grey	com	5	0		15	15	y	n						
		34	70	C	n	5Y7/2	Fe	com	0	0	poor	35	47	y	y						
		70	105	C	slight	N7/1	Fe	com	0	0	poor	25	0	y	y						
		105	120	Mst					0	0	poor	8	0	y	y						
														Total	121	101					
														MB	14	1					
														Droughtiness grade (DR)		2	2	Spring barley			
469	T	0	26	hCL	n	10YR5/4			8	0		43	43		/	2	3a	DR			
		26	48	C		7.5YR4/6	Fe	few f	10	0	m/poor	29	29								
		48	120	Lst								22	9								
														Total	94	81					
														MB	-13	-19					
														Droughtiness grade (DR)		3a	3a	Spring barley			

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	102
MDpotato	93
FCD	149

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	40-68cm	<40cm		1401 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

AAR 684

Maximum depth of auger penetration is underlined

95 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
470	T 0	27	C	mod	2.5Y5/3		0	4		44	44	n	n	//	3a	3a	WE
	27	42	C	very	10YR6/6	OM	com	0	10	22	22	n	n				
	42	65	ZC	mod	10YR6/6	Fe	few f	0	0	22	31	n	n				
	65	90	ZC	mod	2.5Y6/4	Fe	com	0	0	18	6	y	y				
	<u>90</u>	120	Mst	very	5Y7/2			0	0	15	0	y	y				
Total										121	104			GR.gradient	1o	S	
MB										19	11						
Droughtiness grade (DR)										2	1			Winter wheat in valley (Head)			
471	T 0	28	ZC	mod	2.5Y4/3		0	8		45	45	n	n	/	2	3a	DR DP
	28	40	mCL	extr.	10YR8/2		0	25	good	20	20	n	n				
	<u>40</u>	120	Lst							25	12						
Total										90	77			GR.gradient	2o	SE	
MB										-12	-16						
Droughtiness grade (DR)										3a	3a			Winter wheat on brow			
472	T 0	20	ZC	mod	10YR4/3		0	8		32	32	n	n	/	2	3b	DR
Pit 20	T 20	27	ZC	mod	10YR4/4		0	15		11	11	n	n				
	27	32	LC	very	10YR5/6		0	25	good	8	8	n	n				
	<u>32</u>	120	Lst							28	15						
Total										79	66			GR.gradient	1o	SE	
MB										-23	-27						
Droughtiness grade (DR)										3b	3a			Winter wheat			
473	T 0	27	ZC	mod	10YR4/3		0	4		44	44	n	n	//	3a	3a	WE DR
	27	35	C	mod	2.5Y5/4		0	4		12	12	n	n				
	35	60	C	mod	2.5Y6/4	Fe	com f	0	0	29	36	y	n				
	<u>60</u>	120	Lst							18	4						

													Total		104	97	GR.gradient			1o	SE
													MB		2	4					
													Droughtiness grade (DR)		3a	2	Winter wheat				
474	T	0	25	C+	very	2.5Y5/3			0	6		41	41	n	n	IV	3b	3b	WE		
		25	35	C	very	2.5Y5/3			0	5		15	15	n	n						
		35	60	C	very	5Y7/1	Fe	com	0	0	m/poor	29	36	y	(y)						
		60	90	C	very	N6/1	Fe	many	0	0	poor	21	13	y	y						
		90	120	Lst								9	0								
													Total		115	105	GR.gradient			1o	SE
													MB		13	12	Topsoil >50%clay				
													Droughtiness grade (DR)		2	1	Winter wheat on brow				
475	T	0	20	C	mod	2.5Y4/3			0	4		33	33	n	n	II	3a	3a	WE DR		
	T	20	28	C	mod	2.5Y5/3			0	4	comp	13	13	n	n						
		28	42	C	mod	2.5Y6/4			0	5	m/poor	20	20	n	n						
		42	50	C	very	5Y6/2	Fe	com	0	0	poor	10	10	y	n						
		50	60	C	very	5Y6/2	Fe	com f	0	10	m/poor	7	13	y	n						
		60	120	Lst								18	4								
													Total		101	94	GR.gradient			2o	S
													MB		-1	1					
													Droughtiness grade (DR)		3a	2	Winter wheat				
476	T	0	27	C	slight	2.5Y5/3			0	4		44	44	n	n	III	3a	3a	WE		
		27	44	C	slight	2.5Y5/4			0	0	m/poor	25	25	n	n						
		44	65	C	v.slight	5Y6/2	Fe	com f	0	0	poor	18	27	y	y						
		65	85	C	very	5Y5/2	Fe	many	0	0	m/poor	15	7	y	y						
		85	120	Mst					0	50	poor	14	0	y	y						
													Total		116	104	GR.gradient			2o	S
													MB		14	11					
													Droughtiness grade (DR)		2	1	Winter beans				
477a	T	0	25	C	slight	2.5Y4/3			0	4		41	41	n	n	II	3a	3a	WE		
		25	32	C	slight	2.5Y5/3			0	4		11	11	n	n						
		32	45	C	very	2.5Y5/4	Fe	com f	0	0	m/poor	19	19	n	n						
		45	70	C	very	2.5Y6/3	Fe	com	0	0	poor	21	33	y	y						

		70	105	C	very	7.5GY7/1	Fe	many	0	0	poor	25	0	y	y				
		<u>105</u>	120	Mst					0	50	poor	6	0	y	y				
												Total		122	103	GR.gradient		2o	S
												MB		20	10				
												Droughtiness grade (DR)		2	1	Winter beans			
477	T	0	27	ZC	slight	10YR4/3			0	20		39	39	n	n	/	2	3b	DR DP
		<u>27</u>	120	Lst								30	17						
												Total		69	56	GR.gradient		1o	SE
												MB		-33	-37	ST.stone>2cm		>5%	2
												Droughtiness grade (DR)		3b	3b	Winter beans			
478	T	0	28	hZCL	slight	10YR4/3			0	12		48	48	n	n	/	2	3b	DR DP
		<u>28</u>	120	Lst								30	17						
												Total		78	65	ST.stone>2cm		>5%	2
												MB		-24	-28				
												Droughtiness grade (DR)		3b	3a	Winter wheat			
479	T	0	27	ZC	slight	10YR4/3			0	15		41	41	n	n	/	2	3b	DR
		27	32	LC	very	10YR5/6			0	30	good	8	8	n	n				
		<u>32</u>	120	Lst								28	15						
												Total		77	64	GR.gradient		1o	SE
												MB		-25	-29				
												Droughtiness grade (DR)		3b	3a	Winter wheat			
479a	T	0	25	ZC	slight	2.5Y4/3				4		41	41	n	n	//	3a	3a	WE
		25	34	C	slight	2.5Y5/4	Fe	com f		4	m/poor	13	13	n	n				
		34	55	hCL	extr.	2.5Y7/8				10		28	31	n	n				
		55	80	hCL	extr.	2.5Y7/2	Fe	com		5	poor	17	17	y	y				
		<u>80</u>	120	Lst								12	0						
												Total		111	102	GR.gradient		brow	
												MB		9	9				
												Droughtiness grade (DR)		2	2	Winter wheat			
480	T	0	25	ZC	mod	10YR4/3			0	6		41	41	n	n	///	3a	3a	WE
		25	45	C	mod	2.5Y6/4	Fe	few f	0	0	m/poor	29	29	n	n				
		45	70	C	very	5Y7/3	Fe	com	0	0	m/poor	22	36	y	(y)				

		70	100	C	very	10Y7/1	Fe	many	0	0	poor	21	0	y	y				
		<u>100</u>	120	Mst					0	0	poor	10	0	y	y				
												Total		123	106				
												MB		21	13				
												Droughtiness grade (DR)		2	1	Winter wheat in valley (Head)			
481	T	0	27	hCL	slight	10YR4/3			0	8		46	46	n	n	/	2	3a	DR
		27	50	mCL	very	10YR5/2	Fe	few	0	25		30	30	n	n				
		<u>50</u>	120	Lst								21	8						
												Total		96	83				
												MB		-6	-10				
												Droughtiness grade (DR)		3a	2	Winter wheat			
482	T	0	27	ZC	slight	10YR4/3			0	15		41	41	n	n	/	2	3b	DR
		27	32	ZC	very	10YR4/6			0	30	good	8	8	n	n				
		<u>32</u>	120	Lst								28	15						
												Total		77	64				
												MB		-25	-29	ST.stone>2cm >5% 2			
												Droughtiness grade (DR)		3b	3a	Winter beans			
483	T	0	27	hZCL	slight	10YR4/3			0	18		44	44	n	n	/	2	3a	DR
		27	45	hCL	very	10YR4/4			0	30	good	29	29	n	n				
		<u>45</u>	120	Lst								23	10						
												Total		96	83	GR.gradient 1o SE			
												MB		-6	-10				
												Droughtiness grade (DR)		3a	3a	Winter wheat			
484	T	0	27	ZC	slight	10YR4/3			0	12		42	42	n	n	/	2	3b	DR
		27	32	ZC	very	10YR4/4			0	25	good	8	8	n	n				
		<u>32</u>	120	Lst								28	15						
												Total		78	65				
												MB		-24	-28				
												Droughtiness grade (DR)		3b	3a	Winter wheat			
485	T	0	25	ZC	slight	10YR4/3			0	18		37	37	n	n	/	2	3b	DR DP
		<u>25</u>	120	Lst								31	18						
												Total		68	55				

									MB	-34	-38	ST.stone>2cm >5% 2							
									Droughtiness grade (DR)		3b	3b	Winter wheat						
486	T	0	27	hZCL	slight	10YR4/3		0	8		48	48	n	n	/	2	3a	DR	
		27	35	hZCL	mod	10YR4/6		0	25		11	11	n	n					
		35	50	CL	very	10YR5/2	Fe	few f	0	25	good	25	25	n	n				
		<u>50</u>	120	Lst								21	8						
											Total		105	92					
											MB	3	-1						
									Droughtiness grade (DR)		3a	2	Winter beans						
487	T	0	28	C	slight	10YR4/2		0	8		45	45	n	n	/	2	3a	DR	
		28	47	mCL	extr.	10YR7/8		0	25		25	25	n	n					
		<u>47</u>	120	Lst								22	9						
											Total		92	79	GR.gradient 1o S				
											MB	-10	-14						
									Droughtiness grade (DR)		3a	3a	Winter beans						
488	T	0	27	ZC	slight	10YR4/4		0	25		37	37	n	n	/	2	3b	DR DP	
		<u>27</u>	120	Lst								30	17						
											Total		67	54	GR.gradient				
											MB	-35	-39	ST.stone>2cm >10% 3a					
									Droughtiness grade (DR)		3b	3b	Winter beans						
489a	T	0	27	hZCL	slight	10YR4/3		0	12		46	46	n	n	/	2	3a	DR DP	
		27	40	hCL	mod	10YR6/8		0	25	good	22	22	n	n					
		<u>40</u>	120	Lst								25	12						
											Total		93	80					
											MB	-9	-13						
									Droughtiness grade (DR)		3a	3a	Winter wheat						
489	T	0	27	hCL	mod	10YR4/3		0	12		44	44	n	n	/	2	3b	DR	
		27	32	hCL	very	10YR4/4		0	30	good	8	8	n	n					
		<u>32</u>	120	Lst								28	15						
											Total		80	67					
											MB	-22	-26						
									Droughtiness grade (DR)		3b	3a	Winter wheat						

490	T	0	28	mCL	v.slight	7.5YR4/4	0	6		48	48	n	n	/	1	3a	DR DP	
		28	35	mCL	slight	7.5YR4/6	0	10	good	14	14	n	n					
		35	42	CL	very		0	30	good	11	11	n	n					
		42	120	Lst						24	11							
										Total	97	84						
								MB	-5	-9								
								Droughtiness grade (DR)	3a	2	Winter wheat							
491	T	0	27	hCL	slight	10YR4/3	0	18		37	37	n	n	/	2	3b	DR DP	
		27	120	Lst						30	17							
										Total	68	55						
										MB	-34	-38	ST.stone>2cm >5% 2					
										Droughtiness grade (DR)	3b	3b	Winter wheat					
492	T	0	23	hZCL	slight	10YR4/3		18		37	37	n	n	/	2	3b	DR DP	
		23	120	Lst						32	19							
										Total	69	56						
										MB	-33	-37	ST.stone>2cm >10% 3a					
										Droughtiness grade (DR)	3b	3b	Winter wheat					
493	T	0	27	CL	mod	10YR4/3	0	12		44	44	n	n	/	2	3a	DR DP	
		27	43	hCL	mod	10YR6/8	0	25	good	27	27	n	n					
		43	120	Lst						24	11							
										Total	95	82						
										MB	-7	-11						
								Droughtiness grade (DR)	3a	3a	Winter wheat							
494	T	0	27	hZCL	n	10YR4/4	0	3		50	50	n	n	/	2	3a	DR DP	
		27	35	hCL	slight	7.5YR4/6	0	10		12	12	n	n					
		35	38	CL	very		0	30	good	5	5	n	n					
		38	120	Lst						26	13							
										Total	92	79						
								MB	-10	-14								
								Droughtiness grade (DR)	3a	3a	Winter wheat							
495	T	0	28	hCL	slight	10YR4/3	0	15		45	45	n	n	/	2	3b	DR DP	
		28	120	Lst						30	17							

													Total			74	61			
													MB			-28	-32	ST.stone>2cm >5% 2		
													Droughtiness grade (DR)			3b	3b	Winter beans		
495a	T	0	26	hZCL	slight	10YR4/3				0	20	42	42	n	n	/	2	3b	DR	
		26	30	hCL	mod	10YR4/6				0	30	good	6	6	n	n				
		30	120	Lst							29	16								
													Total			77	64			
													MB			-25	-29	ST.stone>2cm >10% 3a		
													Droughtiness grade (DR)			3b	3a	Set Aside Grass		
496	T	0	25	ZC	v.slight	10YR4/3				0	6	41	41	n	n	//	3a	3a	WE DR	
		25	55	C	slight	10YR6/4	FeMn	com	0	5	m/poor	39	42	y	n					
		55	120	Lst							20	6								
													Total			99	88			
													MB			-3	-5			
													Droughtiness grade (DR)			3a	2	Winter beans		
496a	T	0	28	hZCL	slight	10YR4/3				0	12	48	48	n	n	/	2	3a	DR DP	
		28	35	hCL	mod	10YR4/6				0	30	good	11	11	n	n				
		35	120	Lst							27	14								
													Total			86	73			
													MB			-16	-20			
													Droughtiness grade (DR)			3a	3a	Set Aside Grass		
497	T	0	27	hZCL	n	7.5YR4/4				2	2	50	50	n	n	/	3a	3a	WE	
		27	45	ZC	slight	7.5YR6/6	OM				0	4	26	26	n	n				
		45	60	LC	very	7.5YR6/3	Fe	com f	0	25	14	20	y	n						
60	120	Lst							18	4										
													Total			108	99			
													MB			6	6	GR.gradient 1o NE		
													Droughtiness grade (DR)			2	2	Winter beans		
497a	T	0	30	hZCL	mod	10YR4/3				0	15	50	50	n	n	/	2	3b	DR DP	
		25	120	Lst							31	18								
													Total			81	68			
													MB			-21	-25	ST.stone>2cm >5%		

											Droughtiness grade (DR)		3b	3a	Winter beans				
498	T	0	21	hCL	mod	10YR4/3				0	20	32	32	n	n	/	2	3b	DR DP
		<u>21</u>	120	Lst															
											Total	65	52						
											MB	-37	-41	ST.stone>2cm >10% 3a					
											Droughtiness grade (DR)		3b	3b	Winter beans				
499	T	0	27	hCL	mod	10YR4/4				0	10	45	45	n	n	//	2	3a	DR
		27	35	LC	mod	10YR5/4				0	25	13	13	n	n				
		35	50	LC	very	10YR6/3	Fe	com	0	25	20	20	y	n					
		<u>50</u>	120	Lst															
											Total	99	86						
											MB	-3	-7						
											Droughtiness grade (DR)		3a	2	Winter beans				
500	T	0	30	ZC	slight	10YR4/3				12		46	46			/	2	3b	DR
		<u>30</u>	120	Lst															
											Total	75	62	GR.gradient 1o NE					
											MB	-27	-31	ST.stone>2cm >5% 2					
											Droughtiness grade (DR)		3b	3b	Winter beans				
501	T	0	27	hCL	mod	10YR4/4				0	15	43	43	n	n	/	2	3a	DR
Pit 21		27	45	LC	very	10YR5/4	OMFe	com f	0	25	23	23	n	n					
		45	55	LC	very	10YR6/3	Fe	com	0	25	10	13	y	n					
		<u>55</u>	120	Lst															
											Total	96	85						
											MB	-6	-8						
											Droughtiness grade (DR)		3a	2	Winter beans				
502	T	0	27	hZCL	n	7.5YR4/4				0	0	51	51	n	n	/	2	2	DR WK
		27	70	hZCL	n	7.5YR6/6				0	0	59	73	n	n				
		70	75	hCL			Fe	pred	0	10	5	0	y	n					
		<u>75</u>	120	Lst															
											Total	129	124	GR.gradient 1o NE					
											MB	27	31						
											Droughtiness grade (DR)		2	1					

503	T	0	27	hZCL	n	10YR5/3		0	2		50	50	n	n	//	3a	3a	WE
		27	45	ZC	n	10YR5/4	Fe	few	0	0		27	27	n	n			
		45	60	C	n	2.5Y6/4	Fe	com	0	0	m/poor	15	22	y	n			
		60	100	C	slight	2.5Y6/4	Fe	com	0	0	poor	28	13	y	y			
		<u>100</u>	120	Mst					0	0	poor	10	0	y	y			
											Total	130	112					
											MB	28	19					
											Droughtiness grade (DR)	2	1					
													GR.gradient	1o	NE			
													Winter beans					

Stone types		
%	TAv	EAv
hard	1	0.5
Lstone	4	3

Climate Data	
MDwheat	101
MDpotato	91
FCD	151

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,391
SPL within 80cm, gleying at 40-70cm	>52cm	<52cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 694

Maximum depth of auger penetration is underlined

Elevation: 103m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% Lstone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
504	T 0	25	C	very	10YR3/3		0	24		35	35	n	n	/	2	3b	ST
	25	35	C	very	7.5YR4/4		0	50		10	10	n	n				
	<u>35</u>	50	C	very	10YR6/3		0	50		15	15	n	n				
	50	120	Lst							21	8						
									Total	81	68				ST.stone>2cm	15%	3b
									MB	-20	-23						
									Droughtiness grade (DR)		3a	3a					
505	T 0	30	C	very	10YR3/3		0	23		42	42		n	/	2	3b	DR
	30	50	C	very	7.5YR4/4		10	50		17	17	n	n				
	<u>50</u>	120	Lst							21	8						
										Total	80	67				ST.stone>2cm	>10%
									MB	-21	-24						
									Droughtiness grade (DR)		3b	3a					
506	T 0	28	hCL	very	10YR3/3		0	12		46	46	n	n	//	2	3a	DR
	28	50	C	very	10YR6/3	Fe	com	0	15	31	31	y	n				
	50	62	C	very	10YR6/3			0	20	8	16	n	n				
	62	120	Lst							17	3						
									Total	103	96				ST.stone>2cm	>5%	2
									MB	2	5				hCL/C		
									Droughtiness grade (DR)		3a	2					
507	T 0	26	C	very	10YR3/3		0	22		37	37	n	n	/	2	3b	DR ST
	Pit 22 26	45	C	very	7.5YR4/4		0	50		19	19	n	n				
	45	120	Lst							23	10						
									Total	79	66				ST.stone>2cm	15%	3b
									MB	-22	-25						

										Droughtiness grade (DR)		3b	3a				
508	T	0	25	hCL	very	10YR3/3	0	24	37	37	n	n	/	2	3b	DR	
		25	35	C	very	7.5YR4/4	0	50	10	10	n	n					
		<u>35</u>	40	C	very	7.5YR4/4	0	50	5	5	n	n					
		40	120	Lst					25	12							
								Total	77	64							
								MB	-24	-27							
										Droughtiness grade (DR)		3b	3a	ST.stone>2cm >10% 3a			
509	T	0	24	C	very	10YR3/3	0	26	33	33	n	n	/	2	3b	DR ST	
		24	45	C	very	7.5YR4/4	0	60	18	18	n	n					
		45	120	Lst					23	10							
								Total	74	61	Field edge very stony						
								MB	-27	-30	ST.stone>2cm >15% 3b						
										Droughtiness grade (DR)		3b	3a				
510	T	0	27	C	very	10YR3/3	0	13	41	41	n	n	/	2	3a	DR	
		27	52	C	very	7.5YR4/4	0	30	30	31	n	n					
		52	120	Lst					20	7							
								Total	92	80	ST.stone>2cm >5% 2						
								MB	-9	-11							
										Droughtiness grade (DR)		3a	3a				
511	T	0	26	C	very	10YR3/3	0	11	40	40	n	n	/	2	3a	DR	
		26	70	C	very	10YR6/4	0	20	47	60	n	n					
		70	120	Lst					15	0							
								Total	102	100	ST.stone>2cm >5% 2						
								MB	1	9							
										Droughtiness grade (DR)		3a	2				
512	T	0	28	C	very	10YR3/3	0	23	39	39	n	n	/	2	3a	DR	
		28	60	C	very	7.5YR4/4	0	50	28	32	n	n					
		60	120	Lst					18	4							
								Total	85	75	ST.stone>2cm >10% 3a						
								MB	-16	-16							
										Droughtiness grade (DR)		3a	3a				

513	T	0	28	C	mod	10YR4/2		0	7	45	45	n	n	/	2	2	WE
		28	40	C	mod	7.5YR4/6		0	10	18	18	n	n				
		40	120	C	n	7.5YR4/6	mn	few	0	0	72	48	n	n			
										Total	135	111					
										MB	34	20					
										Droughtiness grade (DR)	1	1					
514	T	0	27	C	very	10YR3/3		0	22	38	38	n	n	/	2	3b	ST
		27	60	C	very	10YR5/2		0	10	42	49	n	n				
		<u>60</u>	120	Lst						18	4						
										Total	98	91	Stony field boundary				
										MB	-3	0	ST.stone>2cm 15% 3b				
										Droughtiness grade (DR)	3a	2					

Stone types		
%	TAv	EAv
hard	1	0.5
Lst	4	3

hard flint & pebble

Climate Data	
MDwheat	99
MDpotato	89
FCD	153

AAR 720

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,384
SPL within 80cm, gleying at 40-70cm	>53cm	<53cm			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% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
515	T 0	26	C	very	10YR3/3		0	28		35	35	n	n	/	2	3b	ST
	26	50	C	very	7.5YR4/4		0	50		24	24	n	n				
	<u>50</u>	120	Lst							21	8	n	n				
										Total	80	67			ST.stone>2cm	>15%	3b
										MB	-19	-22					
									Droughtiness grade (DR)		3a	3a					
516 Pit 24	T 0	27	C	very	10YR3/3		0	28		36	36	n	n	/	2	3b	DR
	27	40	C	very	7.5YR4/4		0	50		13	13	n	n				
	<u>40</u>	120	Lst							25	12	n	n				
										Total	74	61			ST.stone>2cm	15%	3b
										MB	-25	-28					
									Droughtiness grade (DR)		3b	3a					
517	T 0	27	C	very	10YR3/3		0	20		39	39	n	n	/	2	3b	DR
	27	35	C	very	7.5YR4/4		0	60		7	7	n	n				
	<u>35</u>	120	Lst							27	14	n	n				
										Total	73	60			ST.stone>2cm	>10%	3a
										MB	-26	-29					
									Droughtiness grade (DR)		3b	3a					
518	T 0	30	C+	mod	10YR3/3		0	5		49	49	n	n	//	3b	3b	WE
	30	70	C	very	10YR5/2	Fe	com	0	7	m/poor	42	55	y	n			
	<u>70</u>	120	Lst							15	0	n	n				
										Total	106	104			55% TS clay		
										MB	7	15					
									Droughtiness grade (DR)		2	1					

519	T	0	26	C	very	10YR3/3	0	22	37	37	n	n	/	2	3b	DR	
		26	44	C	very	7.5YR5/3	0	60	16	16	n	n					
		<u>44</u>	120	Lst					23	10	n	n					
								Total	76	63	ST.stone>2cm >10% 3a						
							MB	-23	-26								
							Droughtiness grade (DR)		3b	3a							
520	T	0	<u>27</u>	C	very	10YR3/3	0	27	36	36	n	n	/	2	3b	DR ST	
		27	35	C	very	7.5YR4/4	0	60	7	7	n	n					
		35	120	Lst					27	14	n	n					
								Total	70	57	ST.stone>2cm >15% 3b						
							MB	-29	-32								
							Droughtiness grade (DR)		3b	3b							
521	T	0	26	C	very	10YR3/3	0	27	35	35	n	n	/	2	3b	DR ST	
		Pit 25	26	37	C	very	7.5YR4/4	0	60	10	10	n	n				
			<u>37</u>	120	Lst					26	13	n	n				
								Total	71	58	ST.stone>2cm >15% 3b						
							MB	-28	-31								
							Droughtiness grade (DR)		3b	3b							
522	T	0	27	C	very	10YR3/3	0	27	36	36	n	n	/	2	3b	DR ST	
		27	37	C	very	7.5YR4/4	0	60	9	9	n	n					
		<u>37</u>	120	Lst					26	13	n	n					
								Total	71	58	ST.stone>2cm >15% 3b						
							MB	-28	-31								
							Droughtiness grade (DR)		3b	3b							
523	T	0	27	C	very	10YR3/3	0	18	40	40	n	n	/	2	3a	DR ST	
		27	52	C	very	7.5YR4/4	0	40	27	28	n	n					
		<u>52</u>	120	Lst					20	7	n	n					
								Total	87	75	ST.stone>2cm >10% 3a						
							MB	-12	-14								
							Droughtiness grade (DR)										

							Droughtiness grade (DR)		3a	3a						
524	T	0	30	C	mod	10YR4/2	0	4	49	49	n	n	/	2	2	WE
		30	120	C	very	7.5YR4/6	0	0	88	64	n	n				
								Total		137	113					
								MB		38	24					
								Droughtiness grade (DR)		1	1					
524a	T	0	28	C	sli	10YR4/2	0	5	46	46	n	n	/	2	2	WE
		28	120	C	sli	7.5YR4/6	0	0	91	67	n	n				
								Total		137	113					
								MB		38	24					
								Droughtiness grade (DR)		1	1					
525	T	0	26	C	mod	10YR3/3	0	20	37	37	n	n	/	2	3b	DR
		26	45	C	very	7.5YR4/4	0	60	17	17	n	n				
		<u>45</u>	120	Lst					23	10	n	n				
								Total		77	64					
								MB		-22	-25					
							Droughtiness grade (DR)		3b	3a						
525a	T	0	26	C	very	10YR3/3	0	15	39	39	n	n	/	2	3a	DR
		26	56	C	very	10YR4/6	0	25	35	39	n	n				
		<u>56</u>	120	Lst					19	6	n	n				
								Total		94	84					
								MB		-5	-5					
							Droughtiness grade (DR)		3a	2						
526	T	0	27	C	very	10YR3/3	0	15	41	41	n	n	/	2	3a	DR
		27	43	C	very	10YR5/4	0	60	14	14	n	n				
		<u>43</u>	120	Lst					24	11	n	n				
								Total		79	66					
								MB		-20	-23					
							Droughtiness grade (DR)		3a	3a						

527	T	0	27	C	very	10YR3/3		0	17	40	40	n	n	/	2	3a	DR
		27	45	C	very	7.5YR4/6		0	60	16	16	n	n				
		<u>45</u>	120	Lst						23	10	n	n				
										Total	79	66					
										MB	-20	-23					
										Droughtiness grade (DR)	3a	3a					

ST.stone>2cm	>5%	2
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528	T	0	25	C	very	10YR3/3		0	14	38	38	n	n	/	2	3b	DR
		25	32	C	very	10YR5/4		0	60	6	6	n	n				
		<u>32</u>	120	Lst						28	15	n	n				
										Total	72	59					
										MB	-27	-30					
										Droughtiness grade (DR)	3b	3a					

ST.stone>2cm	>5%	2
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529 Pit 26	T	0	27	C	very	10YR3/3		0	20	39	39	n	n	/	2	3b	DR
		27	45	C	very	7.5YR4/4		0	60	16	16	n	n				
		<u>45</u>	120	Lst						23	10	n	n				
										Total	78	65					
										MB	-21	-24					
										Droughtiness grade (DR)	3b	3a					

USS- very stony tightly packed- clay matrix		
ST.stone>2cm	10%	3a

530	T	0	25	C	very	10YR3/3		0	8	40	40	n	n	//	3a	3a	WE
		25	50	C	very	10YR5/2	Fe	com	0	20	34	34	y	n			
		50	120	C	very	10YR6/3	Fe	com	0	30	46	25	y	n			
										Total	119	99					
										MB	20	10					
										Droughtiness grade (DR)	2	2					

531	T	0	28	C	very	10YR3/3		0	20	40	40	n	n	/	2	3a	DR ST
		28	43	C	very	10YR5/3		0	30	19	19	n	n				
		<u>43</u>	120	Lst						24	11	n	n				
										Total	83	70					
										MB	-16	-19					
										Droughtiness grade (DR)	3a	3a					

ST.stone>2cm	>10%	3a
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532	T	0	27	C	very	10YR3/3	0	12	42	42	n	n	/	2	3b	DR
		27	40	C	very	7.5YR4/4	0	60	11	11	n	n				
		40	120	Lst					25	12	n	n				
									Total	78	65			ST.stone>2cm	>5%	2
								MB	-21	-24						
								Droughtiness grade (DR)		3b	3a					
533	T	0	28	C	very	10YR3/3	0	20	40	40	n	n	/	2	3a	DR
		28	45	C	very	10YR5/4	0	50	17	17	n	n				
		45	120	Lst					23	10	n	n				
									Total	80	67			ST.stone>2cm	10%	3a
								MB	-19	-22						
								Droughtiness grade (DR)		3a	3a					
534	T	0	28	C	very	10YR3/3	0	17	41	41	n	n	/	2	3a	DR
		28	45	C	very	7.5YR4/4	0	50	17	17	n	n				
		45	120	Lst					23	10	n	n				
									Total	81	68			ST.stone>2cm	10%	3a
								MB	-18	-21						
								Droughtiness grade (DR)		3a	3a					
535	T	0	30	C	very	10YR3/2	0	13	46	46	n	n	/	2	3a	DR
		30	45	C	very	10YR5/3	0	30	19	19	n	n				
		45	120	Lst					23	10	n	n				
									Total	88	75			ST.stone>2cm	>5%	2
								MB	-11	-14						
								Droughtiness grade (DR)		3a	3a					
536	T	0	27	C	very	10YR3/2	0	10	42	42	n	n	/	2	3a	DR
		27	45	C	very	10YR6/4	0	10	27	27	n	n				
		45	120	Lst					23	10	n	n				
									Total	92	79			ST.stone>2cm	>5%	2
								MB	-7	-10						
								Droughtiness grade (DR)								

										Droughtiness grade (DR)		3a	2			
537	T	0	26	C	very	10YR3/2	0	12	40	40	n	n	/	2	3a	DR
		26	43	C	very	10YR5/4	0	30	21	21	n	n				
		<u>43</u>	120	Lst					24	11	n	n				
								Total		85	72			ST.stone>2cm	>5%	2
						MB		-14	-17							
										Droughtiness grade (DR)		3a	3a			
538	T	0	27	C	very	10YR3/2	0	17	40	40	n	n	/	2	3b	DR
		27	40	C	very	10YR5/4	0	60	11	11	n	n				
		<u>40</u>	120	Lst					25	12	n	n				
								Total		76	63			ST.stone>2cm	>5%	2
						MB		-23	-26							
										Droughtiness grade (DR)		3b	3a			
539	T	0	27	C	very	10YR3/2	0	17	40	40	n	n	/	2	3b	DR
		27	40	C	very	10YR5/4	0	60	11	11	n	n				
		<u>40</u>	120	Lst					25	12	n	n				
								Total		76	63			ST.stone>2cm	>10%	3a
						MB		-23	-26							
										Droughtiness grade (DR)		3b	3a			
540	T	0	27	C	very	10YR3/3	0	8	43	43	n	n	/	2	3a	DR
		27	50	C	very	7.5YR4/4	0	60	20	20	n	n				
		<u>50</u>	120	Lst					21	8	n	n				
								Total		84	71					
						MB		-15	-18							
										Droughtiness grade (DR)		3a	3a			
541	T	0	28	C	very	10YR3/3	0	11	44	44	n	n	/	2	3b	DR
		28	35	C	very	7.5YR4/6	0	60	6	6	n	n				
		<u>35</u>	120	Lst					27	14	n	n				
								Total		77	64					
						MB										

								MB	-22	-25						
								Droughtiness grade (DR)	3b	3a						
542	T	0	28	C	very	10YR3/3	0	7	45	45	n	n	/	2	3a	DR
		28	50	C	very	7.5YR4/4	0	10	33	33	n	n				
		<u>50</u>	120	Lst					21	8	n	n				
								Total	99	86						
								MB	0	-3						
								Droughtiness grade (DR)	3a	2						
543	T	0	30	C	very	10YR4/2	0	10	47	47	n	n	/	2	3a	DR
		30	50	C	very	7.5YR4/4	0	15	28	28	n	n				
		50	72	C	very	10YR5/3	0	40	13	22	n	n				
		<u>72</u>	120	Lst					14	0	n	n				
								Total	103	98						
								MB	4	9						
								Droughtiness grade (DR)	3a	2						
544	T	0	29	C	very	10YR3/2	0	16	43	43	n	n	/	2	3b	DR
		29	35	C	very	7.5YR4/4	0	60	5	5	n	n				
		<u>35</u>	120	Lst					27	14	n	n				
								Total	76	63						
								MB	-23	-26						
								Droughtiness grade (DR)	3b	3a						
545	T	0	28	C	very	10YR3/2	0	16	42	42	n	n	/	2	3b	DR
		28	41	C	very	7.5YR4/4	0	60	11	11	n	n				
		41	120	Lst					25	12	n	n				
								Total	78	65			ST.stone>2cm	>5%	2	
								MB	-21	-24						
								Droughtiness grade (DR)	3b	3a						
546	T	0	29	C	very	10YR3/2	0	15	44	44	n	n	/	2	3b	DR
		29	40	C	very	7.5YR4/4	0	60	10	10	n	n				

		<u>40</u>	120	Lst					25	12	n	n					
								Total	78	65				Locally variable depth over Lst			
								MB	-21	-24				ST.stone>2cm	>5%	2	
								Droughtiness grade (DR)	3b	3a							
547	T	0	27	C	very	10YR3/3	0	15	41	41	n	n	/	2	3b	DR	
		27	35	C	very	7.5YR4/4	0	50	8	8	n	n					
		<u>35</u>	120	Lst					27	14	n	n					
								Total	76	63				ST.stone>2cm >5% 2			
								MB	-23	-26							
								Droughtiness grade (DR)	3b	3a							
548	T	0	30	C	very	10YR3/3	0	15	45	45	n	n	/	2	3b	DR	
Pit 29		<u>30</u>	120	Lst					29	16	n	n					
								Total	74	61				ST.stone>2cm >5% 2			
								MB	-25	-28							
								Droughtiness grade (DR)	3b	3a							
549	T	0	30	C	very	10YR3/2	0	15	45	45	n	n	/	2	3b	DR	
		30	35	C	very	7.5YR4/4	0	60	4	4	n	n					
		<u>35</u>	120	Lst					27	14	n	n					
								Total	77	64				ST.stone>2cm >5% 2			
								MB	-22	-25							
								Droughtiness grade (DR)	3b	3a							
550	T	0	29	C	very	10YR3/3	0	15	44	44	n	n	/	2	3b	DR	
		29	36	C	very	7.5YR4/6	0	40	8	8	n	n					
		<u>36</u>	120	Lst					27	14	n	n					
								Total	78	65				ST.stone>2cm >5% 2			
								MB	-21	-24							
								Droughtiness grade (DR)	3b	3a							
551	T	0	28	C	very	10YR3/3	0	11	44	44	n	n	/	3a	3a	DR	
		28	45	C	very	10YR5/4	0	10	25	25	n	n					

		45	60	C	very	10YR6/3	0	30	13	19	n	n						
		<u>60</u>	120	Lst					18	4	n	n						
									Total	99	91							
									MB	0	2							
									Droughtiness grade (DR)	3a	2							
552	T	0	28	C	very	10YR3/3	0	13	43	43	n	n	/	2	3a		DR	
		28	50	C	very	10YR6/4	0	30	27	27	n	n						
		<u>50</u>	120	Lst					21	8	n	n						
									Total	91	78					ST.stone>2cm	>5%	2
									MB	-8	-11							
									Droughtiness grade (DR)	3a	3a							
553	T	0	27	hCL	very	10YR3/3	0	18	42	42	n	n	/	2	3b		DR	
		27	29	C	very	7.5YR4/6	0	60	2	2	n	n						
		<u>29</u>	120	Lst					29	16	n	n						
									Total	73	60					ST.stone>2cm	>5%	2
									MB	-26	-29							
									Droughtiness grade (DR)	3b	3a							
554	T	0	30	C	very	10YR3/3	0	17	44	44	n	n	/	2	3a		DR ST	
Pit 30		30	37	C	mod	7.5YR4/4	0	10	10	10	n	n						
		37	46	C	very	7.5YR4/4	0	60	8	8	n	n						
		<u>46</u>	120	Lst					23	10	n	n						
									Total	85	72					ST.stone>2cm	>10%	3a
									MB	-14	-17							
									Droughtiness grade (DR)	3a	3a							
555	T	0	29	C	mod	10YR3/3	0	17	43	43	n	n	/	2	3a		ST	
		29	60	C	mod	10YR5/4	0	3	41	48	n	n						
		60	80	C	mod	10YR5/2	0	3	16	16	n	n						
		80	120	C	very	10YR6/1	0	10	30	0	n	n						
									Total	129	107					ST.stone>2cm	>10%	3a
									MB	30	18							

Droughtiness grade (DR)

1

1

Stone types		
%	TAv	EAv
hard	1	0.5
Lst	4	3

hard flint & pebble

Climate Data	
MDwheat	99
MDpotato	89
FCD	153

AAR 720

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,384
SPL within 80cm, gleying at 40-70cm	>53cm	<53cm			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% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
556	0	30	hCL	very	7.5YR4/4		0	12		49	49	n	n	/	2	3b	DR
	<u>30</u>	120	Lst							29	16						
										Total	78	65					
										MB	-21	-24					
										Droughtiness grade (DR)		3b	3a				
557	0	30	C	very	10YR4/4		0	7		48	48	n	n	/	2	3a	DR
	30	40	C	very	7.5YR5/4		0	20		14	14	n	n				
	<u>40</u>	120	Lst							25	12						
										Total	87	74					
										MB	-12	-15					
									Droughtiness grade (DR)		3a	3a					
558	0	25	hCL	very	10YR4/4		0	15		40	40	n	n	/	1	3b	DR
	25	35	hCL	very	7.5YR5/4		0	50		10	10						
	<u>35</u>	120	Lst							27	14						
										Total	77	64					
										MB	-22	-25					
									Droughtiness grade (DR)		3b	3a					
559	0	25	C	very	10YR4/4		0	10		39	39	n	n	/	2	3b	DR
	25	36	C	very			0	40		12	12	n	n				
	<u>36</u>	120	Lst							27	14						
										Total	78	65					
										MB	-21	-24					
									Droughtiness grade (DR)		3b	3a					

560	T	0	30	C	very	10YR4/6		0	15	45	45	n	n	/	2	3a	DR
		30	50	C	very			0	35	24	24	n	n				
		50	120	Lst						21	8						
										Total	90	77					
								MB	-9	-12							
								Droughtiness grade (DR)		3a	3a						

561	T	0	30	hCL	very	10YR4/4		0	15	48	48	n	n	/	2	3b	DR	
		30	120	Lst						29	16							
										Total	77	64						
										MB	-22	-25						
								Droughtiness grade (DR)		3b	3a							

562	T	0	28	hCL	very	7.5YR3/4		0	15	45	45	n	n	/	2	3b	DR
		28	33	hCL	very			0	50	5	5	n	n				
		33	120	Lst						28	15						
										Total	77	64	Scrubland				
								MB	-22	-25							
								Droughtiness grade (DR)		3b	3a						

563	T	0	28	C	very	7.5YR3/4		0	15	42	42	n	n	/	2	3b	DR
		28	37	C	very			0	60	8	8	n	n				
		37	120	Lst						26	13						
										Total	76	63					
								MB	-23	-26							
								Droughtiness grade (DR)		3b	3a						

564	T	0	40	ZC	very	10YR4/4		2	67	67	n	n	//	3a	3a	WE	
		40	60	ZC	very	10YR5/3	och	com	10	21	28	y	n				
		60	90	C	very	2.5Y5/4	och	many	10	23	15	(y)	n				
		90	120	Lst						9	0						
										Total	120	110					
								MB	21	21							
								Droughtiness grade (DR)		2	1						

565	T	0	30	C	very	7.5YR4/4	0	15	45	45	n	n	/	2	3b	DR
		30	35	C	very		0	60	4	4	n	n				
		35	120	Lst					27	14						
									Total	77	64					
									MB	-22	-25					
									Droughtiness grade (DR)	3b	3a					
566	T	0	20	hCL	very	10YR4/4	0	10	33	33	n	n	/	2	3b	DR
		20	30	hCL	very	7.5YR5/4	0	50	10	10	n	n				
		30	120	Lst					29	16						
									Total	72	59					
									MB	-27	-30					
									Droughtiness grade (DR)	3b	3a					
567	T	0	28	hCL	very	7.5YR4/3	0	15	45	45	n	n	/	2	3b	DR
		28	36	C	very	7.5YR5/4	0	60	7	7	n	n				
		36	120	Lst					27	14						
									Total	78	65					
									MB	-21	-24					
									Droughtiness grade (DR)	3b	3a					
568	T	0	30	hCL	very	7.5YR4/3	0	15	48	48	n	n	/	2	3a	DR
		30	48	hCL	very	7.5YR5/4	0	50	18	18	n	n				
		48	120	Lst					22	9						
									Total	87	75					
									MB	-12	-15					
									Droughtiness grade (DR)	3a	3a					
569	T	0	30	C	very	10YR4/4	0	18	44	44	n	n	/	2	3b	DR
		30	38	C	very	7.5YR5/4	0	50	8	8	n	n				
		38	120	Lst					26	13						
									Total	78	65	TS-hCL/C				
									MB	-21	-24					

											Droughtiness grade (DR)		3b	3a					
570	T	0	30	hCL	very	10YR3/4			0	15		48	48	n	n	/	2	3b	DR
		<u>30</u>	120	Lst								29	16						
													Total	77	64				
													MB	-22	-25				
											Droughtiness grade (DR)		3b	3a					
571	T	0	28	hCL	very	10YR4/4			0	10		46	46	n	n	///	3b	3b	WE
		28	45	C	very	10YR5/4	och	com	0	10		25	25	n	n				
		45	60	C	very	2.5Y5/2	och	com	0	20	poor	12	17	y	y				
		<u>60</u>	120	Lst								18	4						
													Total	101	92				
											MB	2	3						
											Droughtiness grade (DR)		3a	2					
572	T	0	38	C	very	10YR4/4			0	5		62	62	n	n	IV	3b	3b	WE
		38	80	C	very	10YR5/1	och	many	0	10	poor	34	39	y	y				
		<u>80</u>	120	Lst								12	0						
													Total	108	101	TS-hCL/C			
											MB	9	12						
											Droughtiness grade (DR)		2	1					
573	T	0	27	hCL	very	10YR4/4			0	15		43	43	n	n	/	2	3a	DR
		27	45	C	very	10YR5/4			0	35		21	21	n	n				
		<u>45</u>	120	Lst								23	10						
													Total	87	74				
											MB	-12	-15						
											Droughtiness grade (DR)		3a	3a					
574	T	0	30	hCL	very	7.5YR4/3			0	10		50	50	n	n	/	2	3a	DR
		30	45	hCL	very	2.5Y6/3			0	35		18	18	n	n				
		<u>45</u>	120	Lst								21	8						
													Total	88	76				

								MB	-11	-14							
								Droughtiness grade (DR)	3a	3a							
575	T	0	30	C	very	10YR4/3	0	10	47	47	n	n	/	2	3b	DR	
		30	33	C	very	7.5YR5/4	0	50	3	3	n	n					
		<u>33</u>	120	Lst					28	15							
								Total	78	65							
								MB	-21	-24							
								Droughtiness grade (DR)	3b	3a							
576	T	0	30	C	very	10YR4/4	0	12	46	46	n	n	/	2	3b	DR	
		30	35	C	very		0	60	4	4	n	n					
		<u>35</u>	120	Lst					27	14							
								Total	78	65							
								MB	-21	-24							
								Droughtiness grade (DR)	3b	3a							
577	T	0	28	hCL	very	10YR4/4	0	12	46	46	n	n	/	2	3a	DR	
		28	45	C	very	10YR5/4	0	35	20	20	n	n					
		<u>45</u>	120	Lst					23	10							
								Total	89	76							
								MB	-10	-13							
								Droughtiness grade (DR)	3a	3a							
578	T	0	30	hCL	very	10YR4/4	0	10	50	50	n	n	/	2	3a	DR	
		30	45	hCL	very	10YR3/6	0	40	17	17	n	n					
		<u>45</u>	120	Lst					23	10							
								Total	90	77							
								MB	-9	-12							
								Droughtiness grade (DR)	3a	3a							
579	T	0	20	hCL	very	7.5YR3/4	0	10	33	33	n	n	/	2	3b	DR	
		20	30	hCL	very	10YR5/4	0	30	12	12	n	n					
		<u>30</u>	120	Lst					29	16							

									Total	75	62					
									MB	-24	-27					
									Droughtiness grade (DR)	3b	3a					
580	T	0	20	hCL	very	10YR3/6	0	10	33	33	n	n	/	2	3b	DR
		20	33	hCL	very		0	40	15	15	n	n				
		33	120	Lst					28	15						
									Total	76	63					
									MB	-23	-26					
									Droughtiness grade (DR)	3b	3a					
581	T	0	33	hCL	very	10YR3/6	0	10	55	55	n	n	/	2	3a	DR
		33	45	hCL	very	7.5YR5/4	0	20	16	16	n	n				
		45	120	Lst					23	10						
									Total	94	81					
									MB	-5	-8					
									Droughtiness grade (DR)	3a	2					
582	T	0	29	hCL	very	7.5YR3/4	0	12	47	47	n	n	/	2	3b	DR
		29	120	Lst					29	16						
									Total	77	64					
									MB	-22	-25					
									Droughtiness grade (DR)	3b	3a					
583	T	0	28	hCL	very	10YR3/6	0	15	45	45	n	n	/	2	3b	DR
		28	33	hCL	very	10YR3/6	0	40	6	6						
		33	120	Lst					28	15						
									Total	78	65					
									MB	-21	-24					
									Droughtiness grade (DR)	3b	3a					
584	T	0	25	C	very	10YR4/3	0	10	39	39	n	n	/	2	3a	DR
		25	45	C	very	10YR5/4	0	20	27	27	n	n				
		45	120	Lst					23	10						

								Total	89	76	TS-hCL/C					
								MB	-10	-13						
								Droughtiness grade (DR)	3a	3a						
585	T	0	29	hCL	very	10YR4/4	0	15	46	46	n	n	/	2	3b	DR
		29	33	hCL	very		0	60	4	4	n	n				
		33	120	Lst					28	15						
								Total	77	64						
								MB	-22	-25						
								Droughtiness grade (DR)	3b	3a						
586	T	0	27	hCL	very	10YR4/4	0	10	45	45	n	n	/	2	3a	DR
		27	45	hCL	very		0	35	21	21	n	n				
		45	120	Lst					23	10						
								Total	89	76						
								MB	-10	-13						
								Droughtiness grade (DR)	3a	3a						
587	T	0	30	hCL	very	10YR4/4	0	10	50	50	n	n	/	2	3a	DR
		30	50	hCL	very	10YR5/4	0	20	27	27	n	n				
		50	120	Lst					21	8						
								Total	98	85						
								MB	-1	-4						
								Droughtiness grade (DR)	3a	2						
588	T	0	30	hZCL	very	7.5YR4/4	0	10	53	53	n	n	/	2	3a	DR
		30	50	hCL	very		0	40	22	22	n	n				
		50	120	Lst					21	8						
								Total	96	83						
								MB	-3	-6						
								Droughtiness grade (DR)	3a	2						
589	T	0	35	hCL	very	10YR4/4	0	10	58	58	n	n	/	2	3a	DR
		35	40	hCL	very		0	20	7	7	n	n				

50 120 Lst

	21	8
Total	86	73
MB	-13	-16
Droughtiness grade (DR)	3a	3a

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590	T	0	27	hCL	very	7.5YR4/4	0	8	46	46	n	n	/	2	3a	DR
		27	50	hCL	very		0	20	31	31	n	n				
		<u>50</u>	120	Lst					21	8						

	21	8
Total	98	85
MB	-1	-4
Droughtiness grade (DR)	3a	2

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591	T	0	30	hCL	very	7.5YR4/4	0	8	51	51	n	n	/	2	3a	DR
		30	50	hCL	very		0	20	27	27	n	n				
		<u>50</u>	120	Lst					21	8						

	21	8
Total	99	86
MB	0	-3
Droughtiness grade (DR)	3a	2

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592	T	0	30	hCL	very	7.5YR4/4	0	12	49	49	n	n	/	2	3a	DR
		30	50	hCL	very		0	35	24	24	n	n				
		<u>50</u>	120	Lst					21	8						

	21	8
Total	94	81
MB	-5	-8
Droughtiness grade (DR)	3a	2

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Stone types		
%	TAv	EAv
hard	1	0.5
Lst	4	3

hard flint & pebble

Climate Data	
MDwheat	99
MDpotato	89
FCD	153

AAR 703

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,384
SPL within 80cm, gleying at 40-70cm	>53cm	<53cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	II	Grade 1

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)	
593	0	27	C	mod	10YR3/3		0	8		43	43	n	n	III	3a	3a	WE	
	27	45	C	very	10YR5/4		0	10		27	27	n	n					
	45	120	C	very	10YR5/1	Fe	com	0	15	poor	51	29	y	y				
	Total										120	99						
	MB										21	10						
Droughtiness grade (DR)										2	2							
594	0	27	C	mod	10YR4/2		0	13		41	41	n	n	/	2	3b	DR	
	27	37	hCL	very	White, 10YR4/3		0	60		9	9	n	n					
	37	120	Lst							26	13	n	n					
	Total										76	63						
	MB										-23	-26						
Droughtiness grade (DR)										3b	3a							
595	0	27	C	very	10YR3/3		0	24		37	37	n	n	/	2	3b	DR	
	27	40	C	very	10YR6/4		0	60		11	11	n	n					
	40	120	Lst							25	12	n	n					
	Total										74	61	ST.stone>2cm >5% 2					
	MB										-25	-28						
Droughtiness grade (DR)										3b	3a							
596 Pit 31	0	28	C	very	10YR3/3		0	10		44	44	n	n	/	2	3b	DR DP	
	28	120	Lst							30	17	n	n					
	Total										74	61						
	MB										-25	-28						
	Droughtiness grade (DR)										3b	3a						

597	T	0	28	C	very	10YR3/3	0	12	43	43	n	n	/	2	3b	DR	
		28	35	C	very	10YR4/6	0	40	8	8	n	n					
		35	120	Lst					27	14	n	n					
		Total								78	65						
MB								-21	-24								
Droughtiness grade (DR)										3b	3a						
598	T	0	27	C	very	10YR3/3	0	24	37	37	n	n	/	2	3b	DR DP	
		27	120	Lst					30	17	n	n					
		Total								68	55	ST.stone>2cm >10% 3a					
		MB								-31	-34						
Droughtiness grade (DR)										3b	3b						
599	T	0	26	hCL	very	10YR3/3	0	24	38	38	n	n	/	2	3b	DR DP	
		26	120	Lst					31	18	n	n					
		Total								69	56	ST.stone>2cm >5% 2					
		MB								-30	-33						
Droughtiness grade (DR)										3b	3b						
600 Pit 32	T	0	28	C	very	10YR3/3	0	15	42	42	n	n	/	2	3b	DR	
		28	35	C	very	7.5YR4/6	0	60	6	6	n	n					
		35	120	Lst					27	14	n	n					
		Total								75	62	ST.stone>2cm >5% 2					
MB								-24	-27								
Droughtiness grade (DR)										3b	3a						
601	T	0	28	hCL	very	10YR3/3	0	17	44	44	n	n	/	2	3a	DR	
		28	38	hCL	very	7.5YR4/4	0	20	14	14	n	n					
		38	57	hCL	very	10YR6/4	0	30	20	24	n	n					
		57	120	Lst					19	5	n	n					
Total								97	86	ST.stone>2cm >5% 2							
MB								-2	-3								
Droughtiness grade (DR)										3a	2						

602 Pit 33	T	0	26	hCL	very	10YR3/3	0	15	41	41	n	n	/	2	3a	DR DP		
		26	40	C	very	7.5YR4/6	0	50	14	14	n	n						
		<u>40</u>	120	Lst					25	12	n	n						
									Total	80	67						ST.stone>2cm >5% 2	
								MB	-19	-22								
								Droughtiness grade (DR)	3a	3a								
<hr/>																		
603	T	0	28	hCL	very	10YR3/3	0	20	43	43	n	n	/	2	3b	DR		
		28	40	C	very	7.5YR4/4-4/6	0	60	11	11	n	n						
		<u>40</u>	120	Lst					25	12	n	n						
									Total	78	65							ST.stone>2cm >5% 2
								MB	-21	-24								
								Droughtiness grade (DR)	3b	3a								
<hr/>																		
604	T	0	27	C	very	10YR3/3	0	18	40	40	n	n	/	2	3b	DR DP		
		<u>27</u>	120	Lst					30	17	n	n						
									Total	70	57							ST.stone>2cm >5% 2
									MB	-29	-32							
								Droughtiness grade (DR)	3b	3b								
<hr/>																		
605	T	0	25	C	very	10YR3/3	0	11	39	39	n	n	/	2	3b	DR		
		25	35	hCL	very	10YR6/3	0	50	10	10	n	n						
		<u>35</u>	120	Lst					27	14	n	n						
									Total	76	63							
								MB	-23	-26								
								Droughtiness grade (DR)	3b	3a								

Stone types		
%	TAv	EAv
hard	1	0.5
Lst	4	3

hard flint & pebble

Climate Data	
MDwheat	99
MDpotato	89
FCD	153

AAR 720

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,384
SPL within 80cm, gleying at 40-70cm	>53cm	<53cm			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% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)	
606	0	30	C	very	10YR4/4		0	12		46	46	n	n	/	2	3b	DR	
	<u>30</u>	120	Lst							29	16							
	Total									75	62							
	MB									-24	-27							
	Droughtiness grade (DR)									3b	3a							
607	0	30	C	very	7.5YR4/4		0	12		46	46	n	n	/	2	3a	DR	
	30	43	C	very	7.5YR4/4		0	15		18	18	n	n					
	<u>43</u>	120	Lst							24	11							
	Total									89	76							
	MB									-10	-13							
Droughtiness grade (DR)									3a	3a								
608	0	27	hCL	very	10YR4/4		0	15		43	43	n	n	/	2	3b	DR	
	27	35	hCL				0	60		7	7	n	n					
	<u>35</u>	120	Lst							27	14							
	Total									77	64							
	MB									-22	-25							
Droughtiness grade (DR)									3b	3a								
609	0	30	C	very	10YR4/4		0	15		45	45	n	n	/	2	3b	DR	
	<u>30</u>	120	Lst							29	16							
	Total									74	61							
	MB									-25	-28							
	Droughtiness grade (DR)									3b	3a							
ST.stone>2cm >10%																3a		
610	0	30	C	very	10YR3/3		0	15		45	45	n	n	/	2	3a	DR	

30	40	hCL		0	60		9	9	n	n					
<u>40</u>	120	Lst					25	12							

Total		82	69
MB		-17	-21

ST.stone>2cm	>10%	3a
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Droughtiness grade (DR) 3a 3a

616	T	0	28	hCL	very	10YR3/3		0	26		40	40	n	n	/	2	3b	ST
		28	55	hCL	very	7.5YR4/4		0	25		33	35	n	n				
		<u>55</u>	120	Lst							20	6						

Total		92	81
MB		-7	-8

ST.stone>2cm	>15%	3b
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Droughtiness grade (DR) 3a 2

617	T	0	28	C	very	10YR4/4		0	10		44	44	n	n	///	3b	3b	WE
		28	50	C	very	10YR5/3	och	com	0	10	poor	27	27	y	y			
		<u>50</u>	120	Lst							21	8						

Total		92	79
MB		-7	-10

Droughtiness grade (DR) 3a 3a

618	T	0	28	C	very	10YR4/4		0	15		42	42	n	n	/	2	3b	DR
		<u>28</u>	120	Lst							30	17						

Total		72	59
MB		-27	-30

Droughtiness grade (DR) 3b 3b

619	T	0	29	C	very	10YR3/3		0	16		43	43	n	n	/	2	3a	DR
		29	36	C	very	7.5YR4/4		0	20		10	10	n	n				
		36	45	hCL	very	10YR6/3		0	60		8	8	n	n				
		<u>45</u>	120	Lst							23	10						

Total		84	71
MB		-15	-18

ST.stone>2cm	>5	2
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Droughtiness grade (DR) 3a 3a

620 Pit 35	T	0	28	C	very	10YR3/3	0	16	42	42	n	n	/	2	3b	DR DP	
		28	120	Lst													
									Total	72	59						
									MB	-27	-30	ST.stone>2cm 10% 3a					
									Droughtiness grade (DR)		3b	3b					
621	T	0	28	C	very	10YR3/3	0	15	42	42	n	n	/	2	3a	DR	
		28	43	hCL													
		43	120	Lst													
									Total	79	66	ST.stone>2cm >5% 2					
									MB	-20	-23						
									Droughtiness grade (DR)		3a	3a					
622	T	0	30	hZCL	very	10YR4/4	0	15	50	50	n	n	/	2	3a	DR	
		30	50	hZCL													
		50	120	Lst													
									Total	96	83						
									MB	-3	-6						
									Droughtiness grade (DR)		3a	2					
623	T	0	30	hZCL	very	10YR4/4	0	15	50	50	n	n	/	2	3a	DR	
		30	50	hZCL													
		50	120	Lst													
									Total	96	83						
									MB	-3	-6						
									Droughtiness grade (DR)		3a	2					
624 Pit 36	T	0	28	C	very	10YR3/3	0	15	42	42	n	n	/	2	3a	DR ST	
		28	45	C													
		45	120	Lst													
									Total	86	73	ST.stone>2cm 10% 3a					
									MB	-13	-16						
									Droughtiness grade (DR)		3a	3a					

625	T	0	30	C	very	10YR3/3		0	15	45	45	n	n	/	2	3b	DR
		30	35	C	very	7.5YR4/6		0	50	5	5	n	n				
		35	120	Lst						27	14						
										Total	77	64					
										MB	-22	-25					
										Droughtiness grade (DR)	3b	3a					

626	T	0	33	C	very	10YR4/4		0	10	52	52	n	n	/	2	3a	DR
		33	50	C				0	20	23	23	n	n				
		50	120	Lst						21	8						
										Total	96	83					
										MB	-3	-6					
										Droughtiness grade (DR)	3a	2					

627	T	0	28	C	very	10YR3/3		0	15	42	42	n	n	/	2	3b	DR
		28	35	C	very	7.5YR4/6		0	35	8	8	n	n				
		35	120	Lst						27	14						
										Total	77	64					
										MB	-22	-25					
										Droughtiness grade (DR)	3b	3a					

628	T	0	35	hZCL	very	10YR4/4		0	10	61	61	n	n	/V	3b	3b	WE
		35	70	C	very	2.5Y6/3	och	com	0	15	poor	30	41	y	y		
		70	120	Lst						15	0						
										Total	107	102					
										MB	8	13					
										Droughtiness grade (DR)	2	1					

629	T	0	28	C	trace	10YR3/3		0	8	45	45	n	n	/	2	3a	DR
		28	39	C	sli	7.5YR4/6		0	15	16	16	n	n				
		39	120	Lst						25	12						
										Total	86	73					
										MB	-13	-16					
										Droughtiness grade (DR)	3a	3a					



Stone types		
%	TA _v	EA _v
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	110
MDpotato	103
FCD	136

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>64cm	37-64cm	<37cm		1427 D°
SPL within 80cm, gleying at 40-70cm	>46cm	<46cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard

AAR 646

Maximum depth of auger penetration is underlined

75 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
630	0	26	C	n	2.5Y4/2		2	0		43	43	n	n	IV	3b	3b	WE
	26	60	C	n	2.5Y5/2	Fe many	0	0	poor	38	44	y	y				
	60	120	C	sli	10YR6/1	Fe many	0	0	poor	42	13	y	y				
	Total										124	101					
MB										14	-2						
Droughtiness grade (DR)										2	2						
631	0	22	C	n	2.5Y4/2		1	0		37	37	n	n	IV	3b	3b	WE
	22	65	C	sli	2.5Y5/3	Femn com	0	0	poor	47	56	y	y				
	65	120	C	mod	10YR6/1	Fe many	0	0	poor	39	7	y	y				
	Total										122	99					
MB										12	-4						
Droughtiness grade (DR)										2	2						
632	0	20	C	sli	2.5Y4/2		2	5		32	32	n	n	III	3a	3a	WE
	20	52	C	mod	2.5Y5/3	Femn com	0	3		48	50	y	n				
	52	120	C	calc	10YR5/1	Fe many	0	5	poor	46	23	y	y				
	Total										127	105					
MB										17	2						
Droughtiness grade (DR)										2	2						
633	0	30	C	mod	10YR4/2		2	5		48	48	n	n	I-II	3a	3a	WE DR
	30	40	hCL	mod	10YR5/3		0	5		15	15	n	n				
	40	70	hCL	calc	N4/0	Fe com	0	15		32	43	y	n				
	70	120	Lst							15	0	n	n				
	Total										111	106					

											MB	1	3								
											Droughtiness grade (DR)	3a	2								
634	T	0	28	C	trace	2.5Y4/2						1	0	47	47	n	n	///	3b	3b	WE
		28	45	C	mod	2.5Y5/2	Fe	com	0	3		0	3	27	27	y	n				
		45	70	C	calc	2.5Y5/2	Fe	many	0	7	poor	0	7	20	31	y	y				
		70	120	C	calc	10YR6/1	Fe	many	0	5	poor	0	5	34	0	y	y				
											Total	127	105					USS faint mottling			
											MB	17	2								
											Droughtiness grade (DR)	2	2								
635	T	0	26	C	n	10YR4/1	Fe	many	0	0		0	0	44	44	y	n	IV	3b	3b	WE
		26	70	C	n	10YR5/2	Fe	many	0	0	poor	0	0	45	57	y	y				
		70	120	C	calc	N4/0	Fe	many	0	3	poor	0	3	34	0	y	y				
											Total	124	101					Subsoil plastic			
											MB	14	-2								
											Droughtiness grade (DR)	2	2								
636	T	0	27	C	n	10YR3/2						0	0	46	46	n	n	///	3b	3b	WE
		27	47	C	n	2.5Y5/2	Fe	com	0	0		0	0	32	32	y	n				
		47	120	C	calc	10YR5/1	Fe	many	0	3	poor	0	3	52	29	y	y				
											Total	130	107								
											MB	20	4								
											Droughtiness grade (DR)	2	2								

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	105
MDpotato	97
FCD	146

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	39-67cm	<39cm		1427 D°
SPL within 80cm, gleying at 40-70cm	>50cm	<50cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

hard

AAR

673

Maximum depth of auger penetration is underlined

75 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
637	0	30	SCL	n	10YR4/2		5	0		49	49	n	n	III	3a	3a	WE
	30	52	SCL	n	10YR6/4	Fe com	5	0		31	31	y	n				
	52	120	SC	n	10YR6/3	Fe many	0	0	poor	54	23	y	y				
	Total										134	103	SC-mix sand and clay				
MB										29	6						
Droughtiness grade (DR)										2	2						
638	0	26	mCL	n	10YR4/2		3	0		45	45	n	n	IV	3b	3b	WE
	26	35	hCL	n	10YR5/3	Femn com	3	0		14	14	y	n				
	35	120	C	n	10YR6/1	Fe many	0	0	poor	69	46	y	y				
	Total										128	105					
MB										23	8						
Droughtiness grade (DR)										2	2						
639	0	30	SCL	n	10YR4/2		5	0		49	49	n	n	II	2	2	WE DR
	30	57	SCL	sli	10YR6/4, 10YR5/6	Femn com	5	0		35	39	y	n				
	57	120	mSL	n	10YR6/3		2	0		68	19	n	n				
	Total										152	106					
MB										47	9						
Droughtiness grade (DR)										1	2						

Stone types		
%	TAv	EAv
hard	1	0.5
Lstone	4	3

hard flint & pebble

Climate Data	
MDwheat	105
MDpotato	97
FCD	144

AAR 668

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>66cm	39-66cm	<39cm		1414
SPL within 80cm, gleying at 40-70cm	>49cm	<49cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% Lstone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)	
640	0	27	C	n	10YR4/2		10	0		42	42	n	n	III	3b	3b	WE	
	27	45	C	calc	2.5Y5/3	Fe few	0	3		28	28	n	n					
	45	120	C	v.calc	10YR5/2	Fe many	0	5	poor	54	31	y	y					
	Total									124	101							
									MB	19	4							
									Droughtiness grade (DR)		2	2						
641	0	28	hCL	trace	2.5Y4/2		7	0		47	47	n	n	II	3a	3a	WE	
	28	50	C	calc	2.5Y6/3		0	2		35	35	n	n					
	50	66	C	calc	2.5Y6/3	Fe few	0	5		12	25	n	n					
	66	120	C	calc	2.5Y6/3	Fe com	0	7	poor	36	5	y	y					
Total									130	111								
									MB	25	14							
									Droughtiness grade (DR)		2	1						
642	0	27	hCL	n	10YR4/2		7	0		45	45	n	n	III	3b	3b	WE	
	27	50	C	sli	2.5Y5/3	Fe com	0	0		37	37	y	n					
	50	72	C	sli	2.5Y5/2	Fe com	0	0	poor	15	26	y	y					
	72	120	C	sli	10YR5/1	Fe many	0	0	poor	34	0	y	y					
Total									131	108								
									MB	26	11							
									Droughtiness grade (DR)		2	1						
643	0	27	hCL	n	10YR4/2		7	0		45	45	n	n	II	3a	3a	WE	
	27	60	C	n	10YR5/3	Fe com	5	0		43	50	y	n					

60	70	hCL	n	10YR5/4	Fe	com	5	0		10	15	n	n						
70	120	C	calc	10YR5/1	Femn	many	0	0	poor	35	0	y	y						
										Total	133	111							
										MB	28	14							
										Droughtiness grade (DR)	2	1							

644	T	0	30	SCL	sli	10YR4/2				12	0	45	45	n	n	//	2	2	WE DR
		30	45	SCL	n	10YR4/4				15	0	19	19	n	n				
		45	64	SCL	n	10YR4/4				20	0	17	23	n	n				
		<u>64</u>	120	C	n	10YR5/3	Femn	many	20	0	poor	32	6	y	y				
										Total	114	94							
										MB	9	-3							
										Droughtiness grade (DR)	2	2							

645	T	0	30	mSL	very	10YR4/2				0	25	41	41	n	n	/	1	3a	DR
		30	45	mSL	very	10YR4/3				0	40	16	16	n	n				
		45	120	LmS	very	10YR5/6				0	40	37	18	n	n				
										Total	94	75							
										MB	-11	-22							
										Droughtiness grade (DR)	3a	3a							

646	T	0	30	SCL	very	10YR4/2				5	15	43	43	n	n	//	2	2	WE DR
		30	58	mSL	very	10YR4/3				0	40	27	30	n	n				
		58	80	SCL	very	10YR4/3				0	15	20	16	n	n				
		80	120	C	calc	10YR5/1	Fe	many	0	0	poor	28	0	y	y				
										Total	118	88							
										MB	13	-9							
										Droughtiness grade (DR)	2	2							

647	T	0	27	hCL	n	10YR4/2				15		42	42	n	n	///	3b	3b	WE
		27	53	C	v.sli	10YR5/3	Femn	com	10			36	38	y	n				
		53	120	C	mod	10YR5/1	Fe	many	0			poor	47	22	y	y			
										Total	124	102	small stone/grit						

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	106
MDpotato	99
FCD	146

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	39-67cm	<39cm		1434 D°
SPL within 80cm, gleying at 40-70cm	>50cm	<50cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard pebbles & flints

AAR 668

Maximum depth of auger penetration is underlined

68 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
649	0	25	hCL	mod	10YR4/2		0	17		39	39	n	n	/	2	3b	DR
	25	35	hCL	very	10YR5/4		0	25		13	13	n	n				
	35	120	Lst							27	14	n	n				
	Total										79	66	ST stone >2cm 8%				
MB										-27	-33						
Droughtiness grade (DR)										3b	3b						
650	0	25	hCL	mod	10YR4/2		0	24		37	37	n	n	//	2	3a	ST
	25	52	C	mod	10YR4/4	mn	com	0	0	42	43	n	n				
	52	68	C	calc	10YR5/3	Femn	com	0	0	13	26	y	n				
	68	120	C	calc	10YR6/1	Fe	many	0	0	poor	42	3	y	y			
Total										133	109	ST stone 7/10/7					
MB										27	10						
Droughtiness grade (DR)										2	2						

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

hard pebbles & flints

Climate Data	
MDwheat	105
MDpotato	98
FCD	147

AAR 674

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	40-67cm	<40cm		1430 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

Maximum depth of auger penetration is underlined

72 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
651	0	28	hCL	mod	10YR4/2		7	3		46	46	n	n	/	2	3a	DR
	28	45	hCL	calc	10YR5/4		0	20		23	23	n	n				
	45	120	Lst							23	10	n	n				
	Total										92	79					
MB										-13	-19						
Droughtiness grade (DR)										3a	3a						
652	0	30	hCL	n	10YR4/2		5	0		51	51	n	n	/	2	2	WE
	30	65	hCL	n	10YR4/3		5	0		45	53	n	n				
	65	120	hCL	v.sli	10YR4/4	mn	com	0	0	55	8	n	n				
	Total										151	113	TS-mCL/hCL				
MB										46	15						
Droughtiness grade (DR)										1	1						

Stone types		
%	TAv	EAv
hard	1	0.5
chalk	10	7

Climate Data	
MDwheat	104
MDpotato	95
FCD	148

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	40-68cm	<40cm		1414 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 682

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)
653	T	0	28	hCL	n	10YR4/2	5	0		48	48	n	n	//	3a	3a	WE
		28	68	hCL	n	10YR4/6	Femn	few	10	0		n	n				
		68	100	C	n	10YR5/3, 10YR4/4	Femn	com	10	0	poor	20	2	y	y		
		100	120	hCL	calc	10YR6/3	Fe	com	0	10		19	0	y	n		
									Total	136	108						
									MB	32	13						
									Droughtiness grade (DR)	1	1						

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

hard pebbles etc

Climate Data	
MDwheat	104
MDpotato	96
FCD	147

AAR 681

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>67cm	40-67cm	<40cm		1411 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	I	other cases	II	Grade 1

Maximum depth of auger penetration is underlined

85 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
654	0	28	hCL	n	10YR4/2		12	0		45	45	n	n	III	3b	3b	WE
	28	50	hCL	n	10YR5/4	mn	com	15	0	30	30	n	n				
	50	120	C	n	10YR5/2, 10YR5/6	Fe/gr	many	15	0	poor	42	22	y	y			
									Total	117	97						
									MB	13	1						
									Droughtiness grade (DR)	2	2						
655	0	29	hCL	n	10YR4/2		5	0		50	50	n	n	I	2	2	WE
	29	120	hCL	n	10YR5/6		7	0		97	61	n	n				
									Total	146	111						
									MB	42	15						
									Droughtiness grade (DR)	1	1						
656	0	28	hCL	n	10YR4/2		4	0		48	48	n	n	III-IV	3b	3b	WE
	28	40	hCL	n	10YR5/2	Fe	many	5	0	18	18	y	n				
	40	120	C	n	N5/0	Fe	many	2	0	poor	61	38	y	y			
									Total	128	105						
									MB	24	9						
									Droughtiness grade (DR)	2	2						
657	0	30	hCL	n	10YR4/2		5	0		51	51	n	n	II	3a	3a	WE
	30	63	hCL	n	10YR5/3	Fe	com	10	0	41	48	y	n				
	63	120	hCL	n	10YR5/3	Femn	com	10	0	52	10	y	n				
									Total	144	109						
									MB	40	13						
									Droughtiness grade (DR)	1	1						



Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	107
MDpotato	100
FCD	144

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>66cm	39-66cm	<39cm		1422 D°
SPL within 80cm, gleying at 40-70cm	>49cm	<49cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	II	Grade 1

hard pebbles etc

AAR 666

Maximum depth of auger penetration is underlined

71 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
658	T 0	28	hCL	mod	10YR4/2		5	2		47	47	n	n	III	3a	3a	WE
	28	46	C	sli	10YR4/3		5	0		27	27	n	n				
	46	73	SC	sli	10YR6/3, 10YR5/2	Femn many	5	0	poor	22	30	y	y				
	73	120	SCL	sli	10YR5/6	Fe com	10	0		43	0	n	n				
									Total	140	104						
									MB	33	4						
									Droughtiness grade (DR)	1	2						
659	T 0	27	hCL	sli	2.5Y5/2		7	3		44	44	n	n	/	3a	3a	DR
	27	38	C	mod	10YR5/4	Few mn	5	10		15	15	n	n				
	38	50	C	v.calc	10YR5/4		0	30		15	15	n	n				
	50	120	Lst							21	8	n	n				
									Total	96	83						
									MB	-11	-17						
									Droughtiness grade (DR)	3a	3a						

Stone types		
%	TAv	EAv
hard	1	0.5
L'stone	4	3

Climate Data	
MDwheat	102
MDpotato	93
FCD	149

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	40-68cm	<40cm		1401 D°
SPL within 80cm, gleying at 40-70cm	>51cm	<51cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

AAR 684

Maximum depth of auger penetration is underlined

95 m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% L'stone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
660	0	30	C	calc	10YR4/2		0	7		48	48	n	n	/	2	3a	DR
	30	52	C	calc	2.5Y5/3	mn	com	7		32	33	n	n				
	52	65	C	very	10YR6/3	Fe	com	30		8	16	y	n				
	<u>65</u>	120	Lst							17	2	n	n				
									Total	105	100						
									MB	3	7						
									Droughtiness grade (DR)	3a	2						
661	0	29	hCL	mod	10YR4/3		0	15		46	46	n	n	/	2	3a	DR
	29	48	hCL	calc	7.5YR5/4		0	20		26	26	n	n				
	<u>48</u>	120	Lst							22	9	n	n				
										Total	94	81					
									MB	-8	-12						
									Droughtiness grade (DR)	3a	3a						
662	0	28	hCL	mod	10YR4/3		0	12		46	46	n	n	/	2	3a	DR
	28	40	hCL	very	10YR6/3		0	30		15	15	n	n				
	<u>40</u>	120	Lst							25	12	n	n				
										Total	86	73					
									MB	-16	-20						
									Droughtiness grade (DR)	3a	3a						

Stone types		
%	TA _v	EA _v
hard	1	0.5
Lstone	4	3

Climate Data	
MDwheat	101
MDpotato	91
FCD	151

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,391
SPL within 80cm, gleying at 40-70cm	>52cm	<52cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 694

Maximum depth of auger penetration is underlined

Elevation: 103m

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% Lstone	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
663	T 0	24	C	mod	10YR3/3		0	13		37	37	n	n	/	2	3b	DR
	24	33	C	very	7.5YR4/4		0	60		8	8	n	n				
	<u>33</u>	120	Lst							28	15	n	n				
									Total	72	59	large flat fragmented Lst-Uss					
									MB	-29	-32						
									Droughtiness grade (DR)	3b	3b						

Stone types		
%	TA _v	EA _v
hard	1	0.5
Lst	4	3

Climate Data	
MDwheat	99
MDpotato	89
FCD	153

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,384
SPL within 80cm, gleying at 40-70cm	>53cm	<53cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 720

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
664	T	0 25	C	very 10YR3/3			0	18		37	37	n	n	/	3a	3a	DR
		25 58	C	very 7.5YR4/4			0	40		33	37	n	n				
		<u>58</u> 120	Lst							19	5	n	n				
									Total	88	78	10/8/0 stone					
									MB	-11	-11						
									Droughtiness grade (DR)	3a	3a						

Stone types		
%	TA _v	EA _v
hard	1	0.5
Lst	4	3

Climate Data	
MDwheat	99
MDpotato	89
FCD	153

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,384
SPL within 80cm, gleying at 40-70cm	>53cm	<53cm			Limitation
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//	Grade 1

hard flint & pebble

AAR 703

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	CaCO ₃	Colour	Mottle colour	abundance	stone% hard	stone% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
665	0	26	C	very	10YR4/3		0	13		40	40	n	n	/	2	3b	DR
	26	38	hCL	very	10YR6/2		0	50		12	12	n	n				
	<u>38</u>	120	Lst							26	13	n	n				
										Total	78	65					
									MB	-21	-24						
									Droughtiness grade (DR)		3b	3a					
666	0	30	C	mod	10YR3/3		0	10		47	47	n	n	//	3a	3a	WE
	30	58	C	very	10YR5/4		0	10		36	41	n	n				
	58	120	C	very	10YR6/2	Fe	com	0	7	poor	42	15	y	y			
										Total	124	103					
									MB	25	14						
									Droughtiness grade (DR)		2	1					
667	0	27	hCL	very	10YR4/3		0	22		40	40	n	n	/	2	3b	DR
	27	40	C	very	7.5YR4/4		0	50		13	13	n	n				
	<u>40</u>	120	Lst							25	12	n	n				
										Total	78	65					
									MB	-21	-24						
									Droughtiness grade (DR)		3b	3a					

Stone types		
%	TAv	EAv
hard	1	0.5
Lst	4	3

hard flint & pebble

Climate Data	
MDwheat	99
MDpotato	89
FCD	153

AAR 720

Wetness Class Guidelines	II	III	IV	V	Climate
SPL within 80cm, gleying within 40cm	>68cm	41-68cm	<41cm		1,384
SPL within 80cm, gleying at 40-70cm	>53cm	<53cm			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% Lst	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
668	0	26	C	very	10YR4/3		0	15		39	39	n	n	/	2	3a	DR
	26	41	C	very	7.5YR4/4		0	20		20	20	n	n				
	<u>41</u>	120	Lst							25	12	n	n				
	Total										84	71					
MB										-15	-18						
Droughtiness grade (DR)										3a	3a						
669	0	26	C	mod	10YR3/3		0	20		37	37	n	n	/	2	3b	DR
	26	38	C	very	7.5YR4/4		0	50		12	12	n	n				
	<u>38</u>	120	Lst							26	13	n	n				
	Total										75	62					
MB										-24	-27						
Droughtiness grade (DR)										3b	3a						

Appendix 3: Photographs

Denman's Farm

Pit 1, Observations 17-18
Black marker is 40cm depth



Structures (note contrast below 40cm)



Pit 2, Observations 24-28
Soil structures



Parcel 1 – Pit 3, Observations 54-55

Pit



Structures



Parcel 1 – Pit 4, Observations 62-63

Pit



Structures



Parcel 2 – Pit 5, Observation 79

Pit 5 - small pit overview



Pit 5 - topsoil and upper subsoil arisings



Pit 5 - friable topsoil



Pit 5 - subsoil mottling



Parcel 2 – Pit 6, Observation 83

Pit



Pit topsoil



Pit subsoils



Parcel 3

Pit 7, Observation 100 - overview



Pit 7- subsoil arisings



Pit 8, Obs 140 - Shallow over calcareous gravel.



Pit 8 - upper subsoil arisings



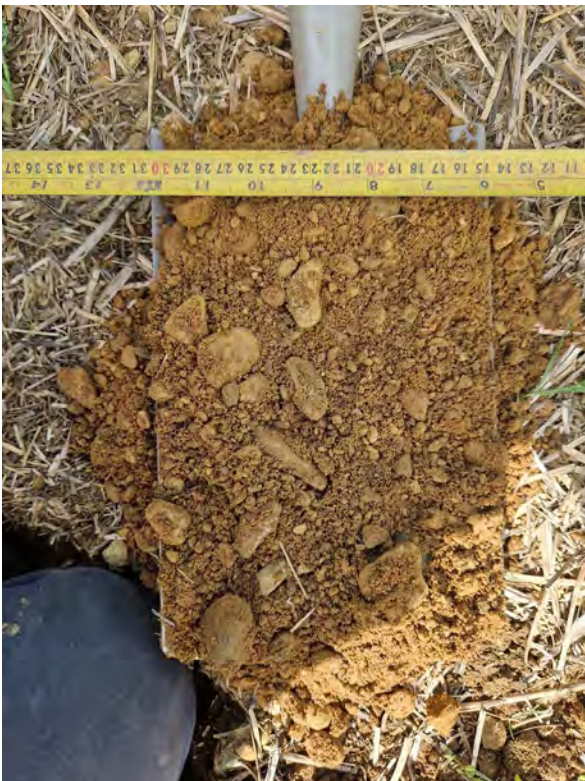
Pit 9, Observation 155



Pit 9 topsoil



Pit 9 subsoil



Pit 10, Observation 197 - overview



Pit 10 - topsoil and dense upper subsoil



Heavy poaching around pit



Typical SPL clay auger arisings (Obs 197/P10)



Parcel 5 – Topsoil structures, Observation 227



Parcel 5 – Soil spit, Observation 240



Parcel 5 – Pit 11, Observation 242

Surface structures



Upper subsoil structures



Topsoil structures



Parcel 5 – Pit 12, Observation 254



Parcel 6 - Pit 13, Observations 267-268

Pit. Yellow marker is 30cm



Structures (SOM 4.2%)



Parcel 7, 8, 9 – Pit 14, Observations 277-278

Pit structures



Upper and lower subsoil



Parcel 11 – Pit 15, Observation 298

Pit 15- overview. Slowly permeable clay



Pit 15 - coarse greyish angular subsoil peds



Parcel 14 – Pit 16, Observation 325

Pit



Topsoil



Upper subsoil



Lower subsoil



Worton – Pit 17, Observation 386

Pit



Pit face



Topsoil



Subsoil



Parcel 15 – Pit 18, Observation 442-443

Pit. Black marker is 25cm

Topsoil structures



Parcel 15 – Observation 451

Topsoil structures



Parcel 17 – Pit 19, Observation 466

Topsoil and upper subsoil structure



Subsoil (40-50cm) structure



Lionza North

Pit 20, Observation 472



Pit 20 structures



Pit 21, Observation 501

Structures of topsoil and upper subsoil



Lower subsoil (40-55cm)



Pit 22, Observation 507

Pit



Topsoil stone



Pit 23, Observation 509

Pit



Topsoil stone



Observation 513 - deep strong brown clay



Pit 25, Observation 521. Shallow over limestone thin very stony fractured limestone upper subsoil horizon



Pit 26, Observation 529 - shallow over fractured limestone with clay matrix



Pit 26- Fractured limestone upper subsoil



Pit 28, Observation 540 - small pit



Pit 28 - fractured limestone from upper subsoil



Pit 29, Observation 548



Pit 30, Observation 554



Pit 31, Observation 596 - shallow over limestone



Pit 32, Observation 600 - fractured limestone from upper subsoil. Thin clay matrix

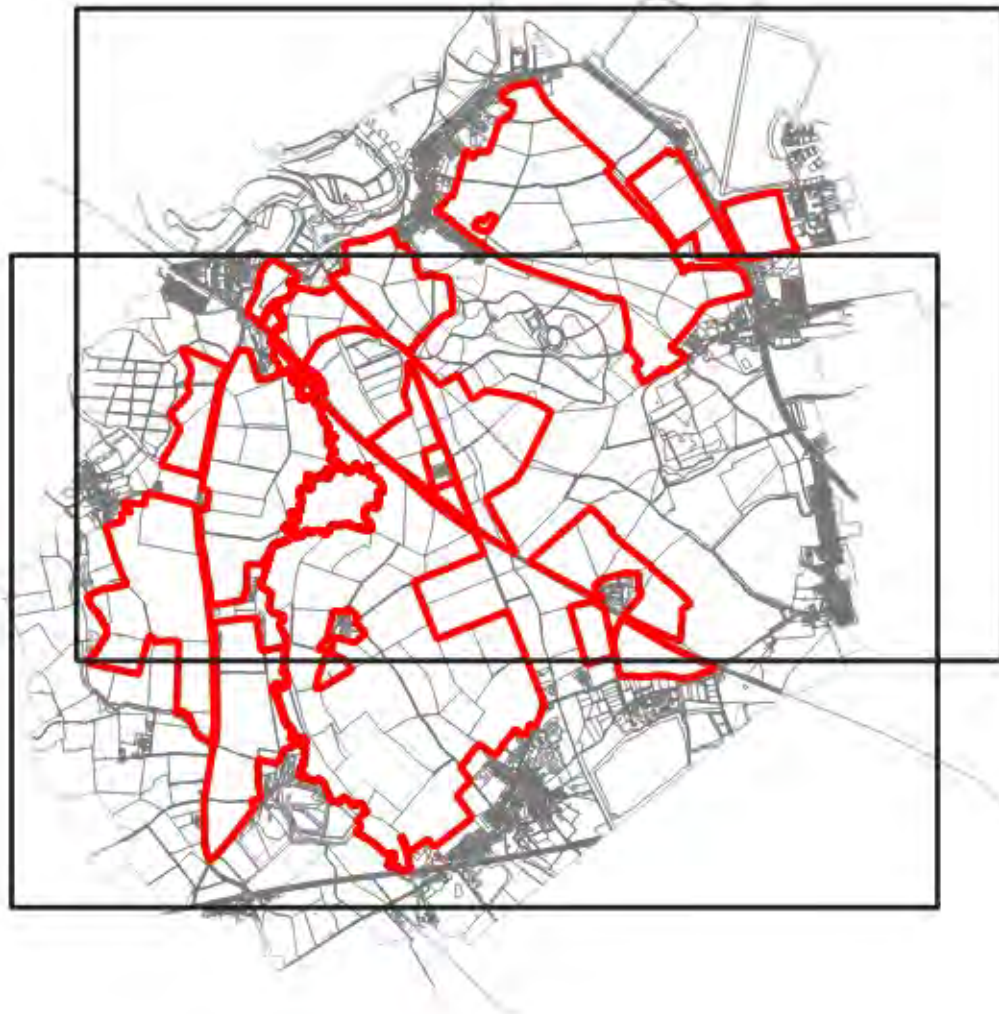


Pit 34, Observation 612 - shallow over fractured tabular limestone. Tightly packed



Pit 35, Observation 620 - shallow over limestone





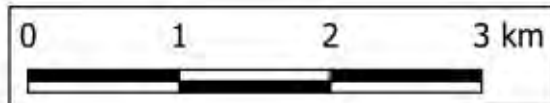
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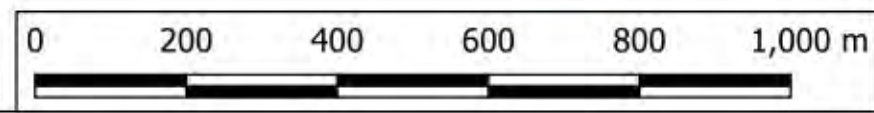
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Key

- + 1 Observation
- + P Pit
- ▭ Survey boundary



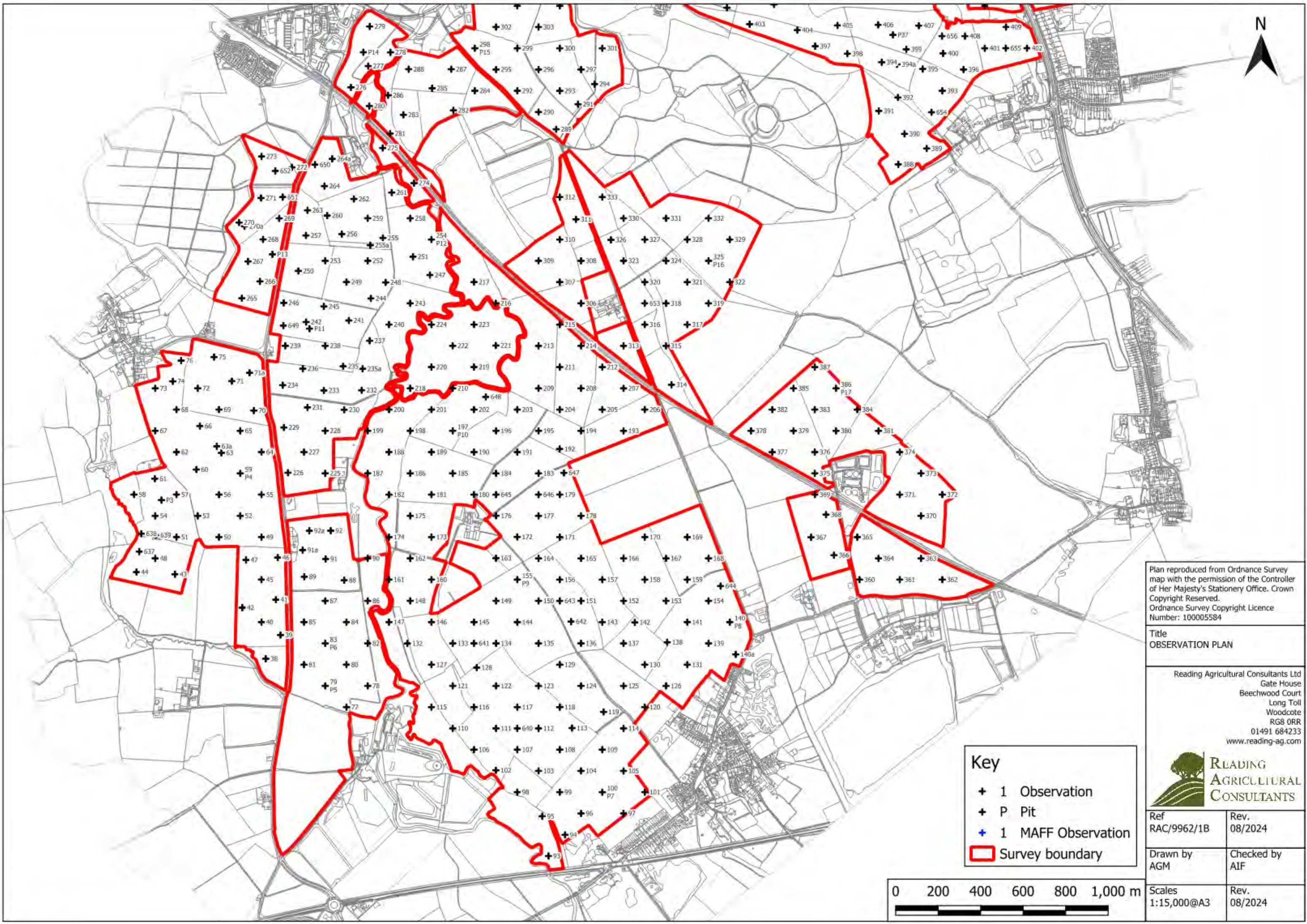
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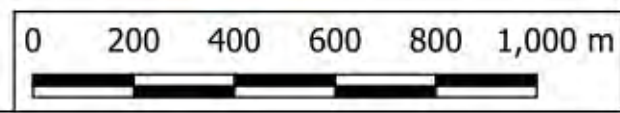
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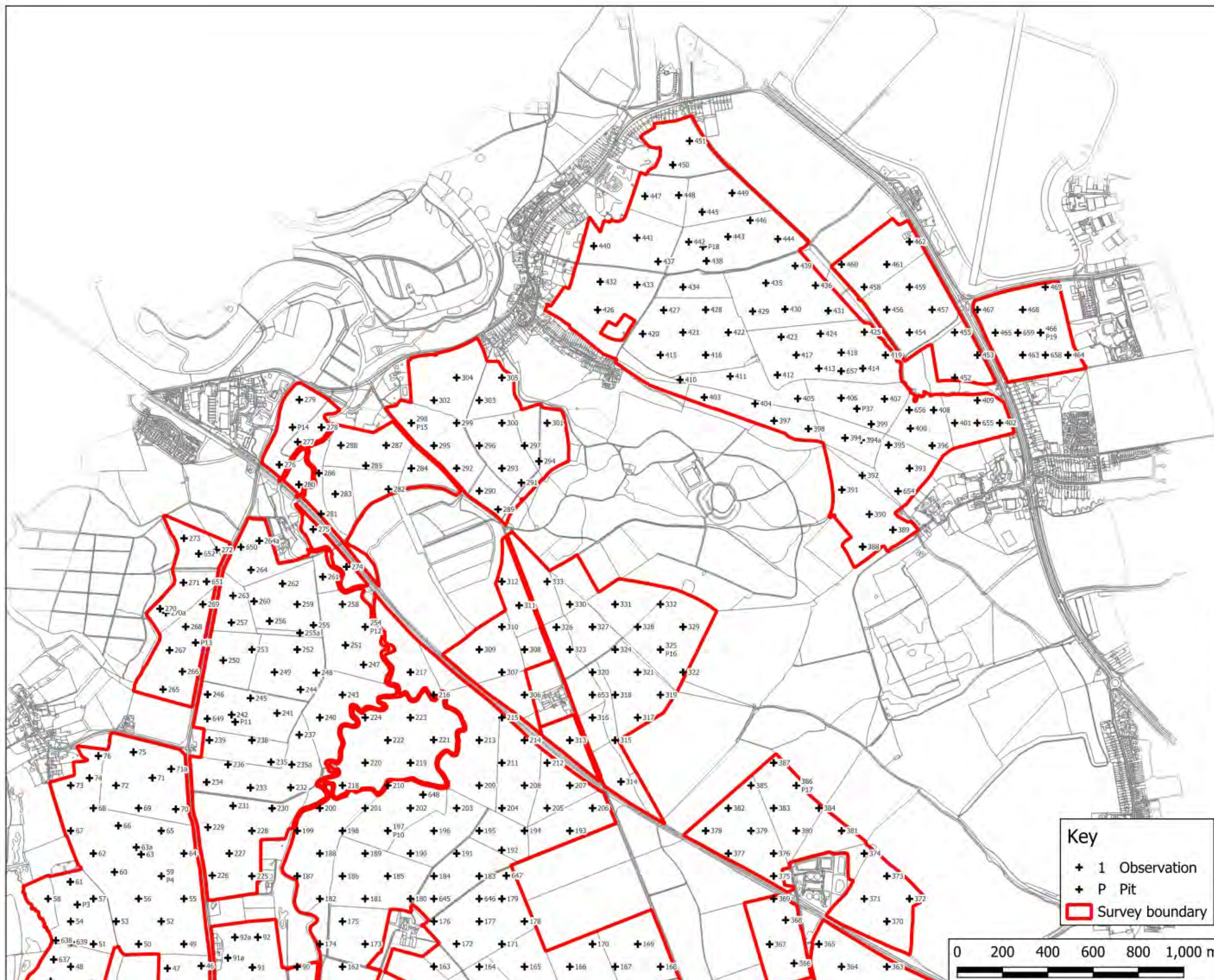
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Key
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 + P Pit
 + 1 MAFF Observation
 [Red Outline] Survey boundary

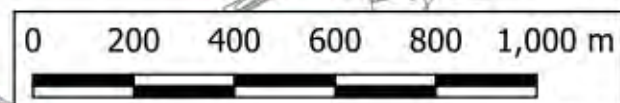


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Key

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- + P Pit
- Survey boundary



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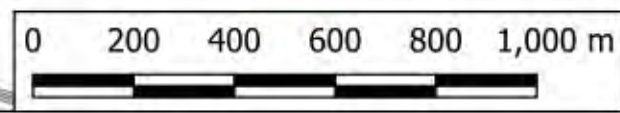


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Soil Type

-  Imperfectly to poorly draining clayey soils WC III-IV. Some over limestone at depth.
-  Well drained to moderately drained clayey or loamy soils WC I-II. Some over limestone at depth.
-  Shallow soils over calcareous gravel (within 60cm of ground level). Gravel is mostly sandy with some loamy or clayey textures in transitional profiles.
-  Shallow soils over limestone (within 60cm of ground level)
-  Non-agricultural

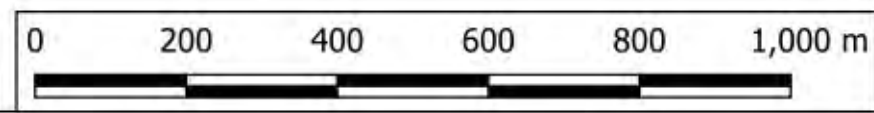
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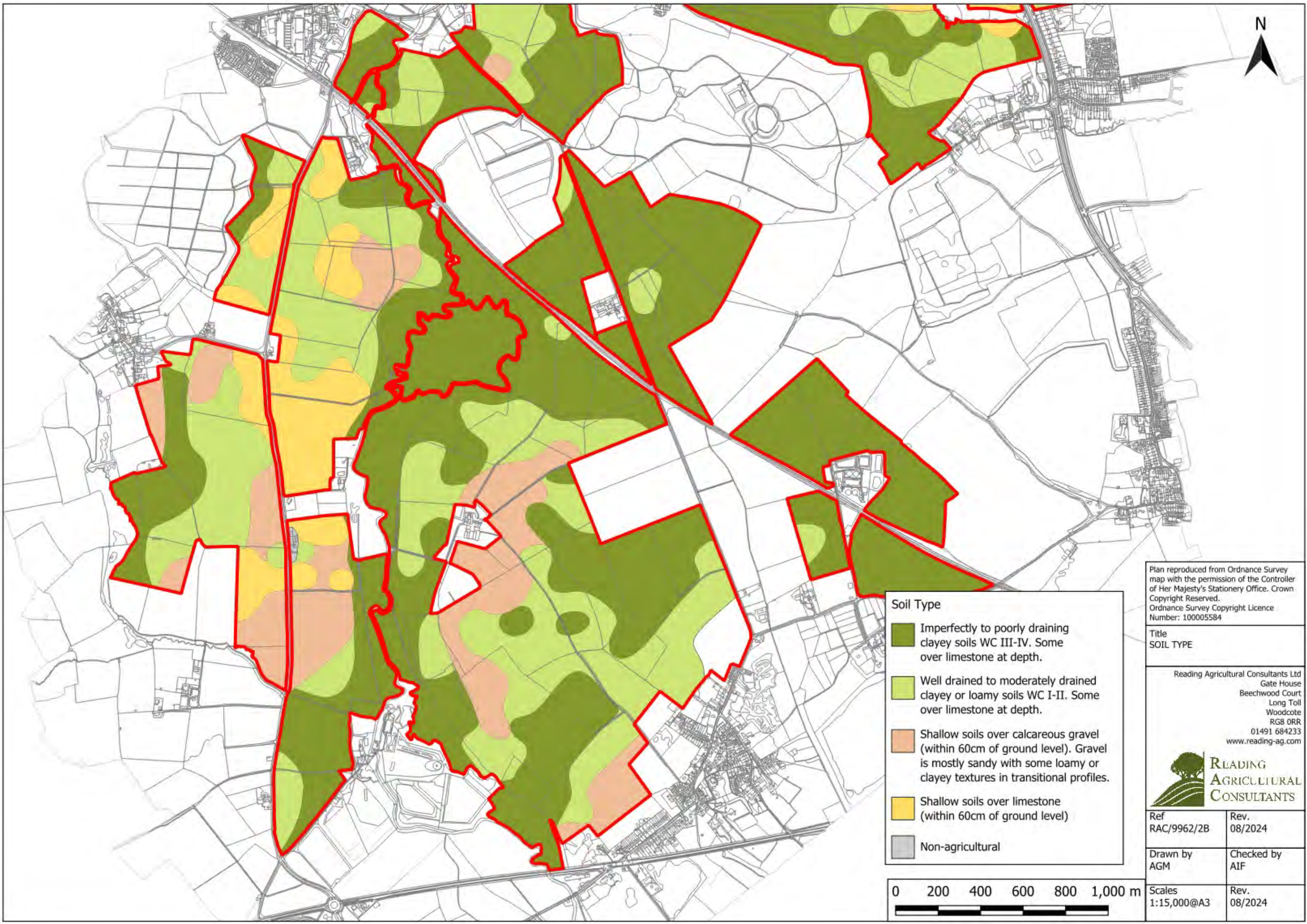
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Soil Type

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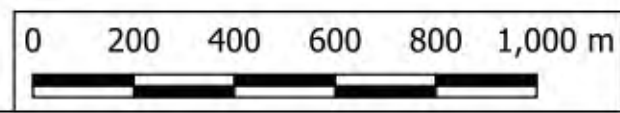
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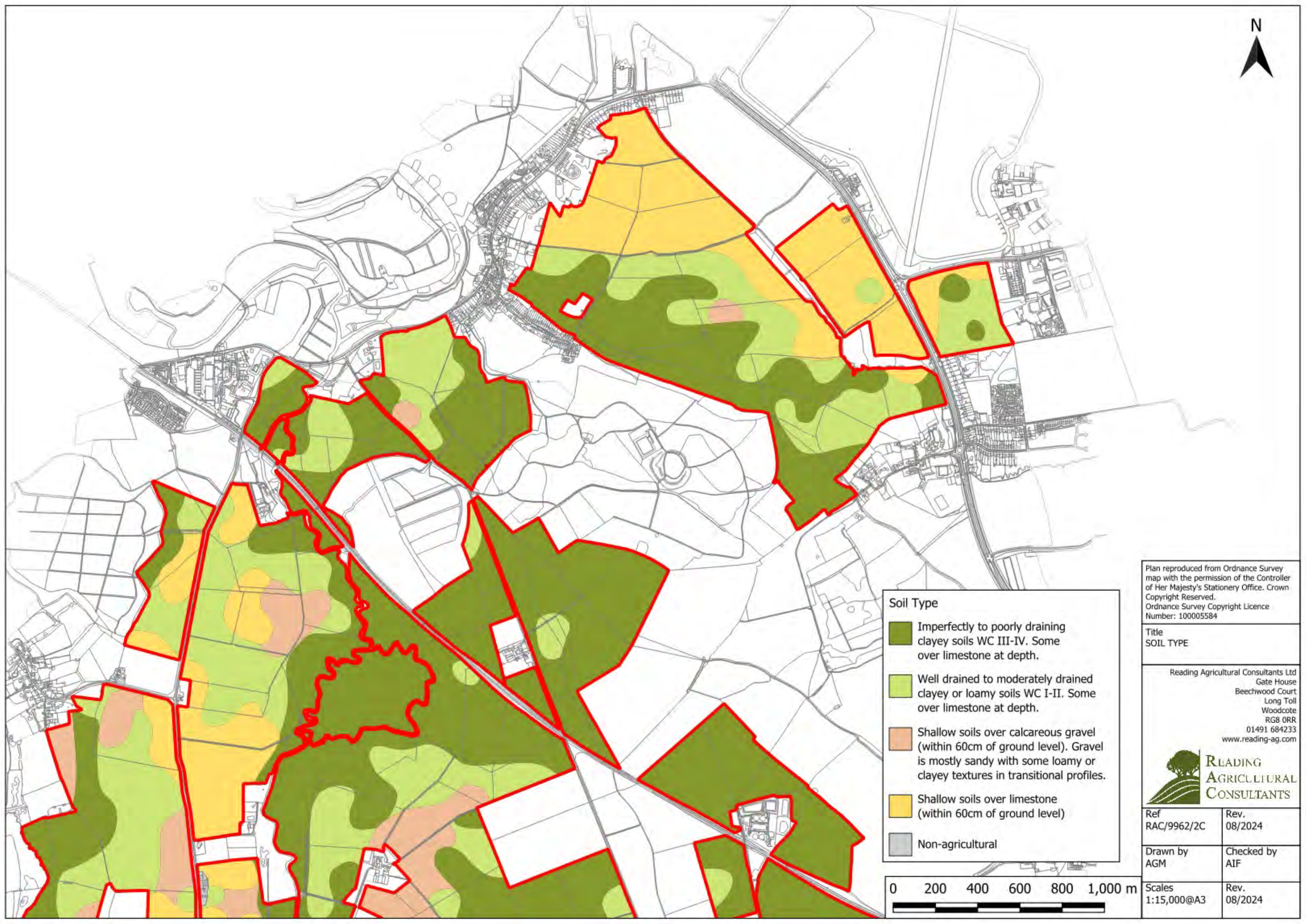


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
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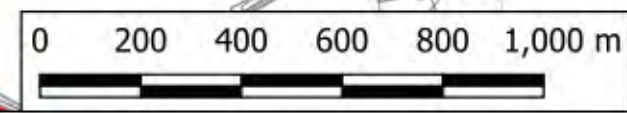
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Soil Type

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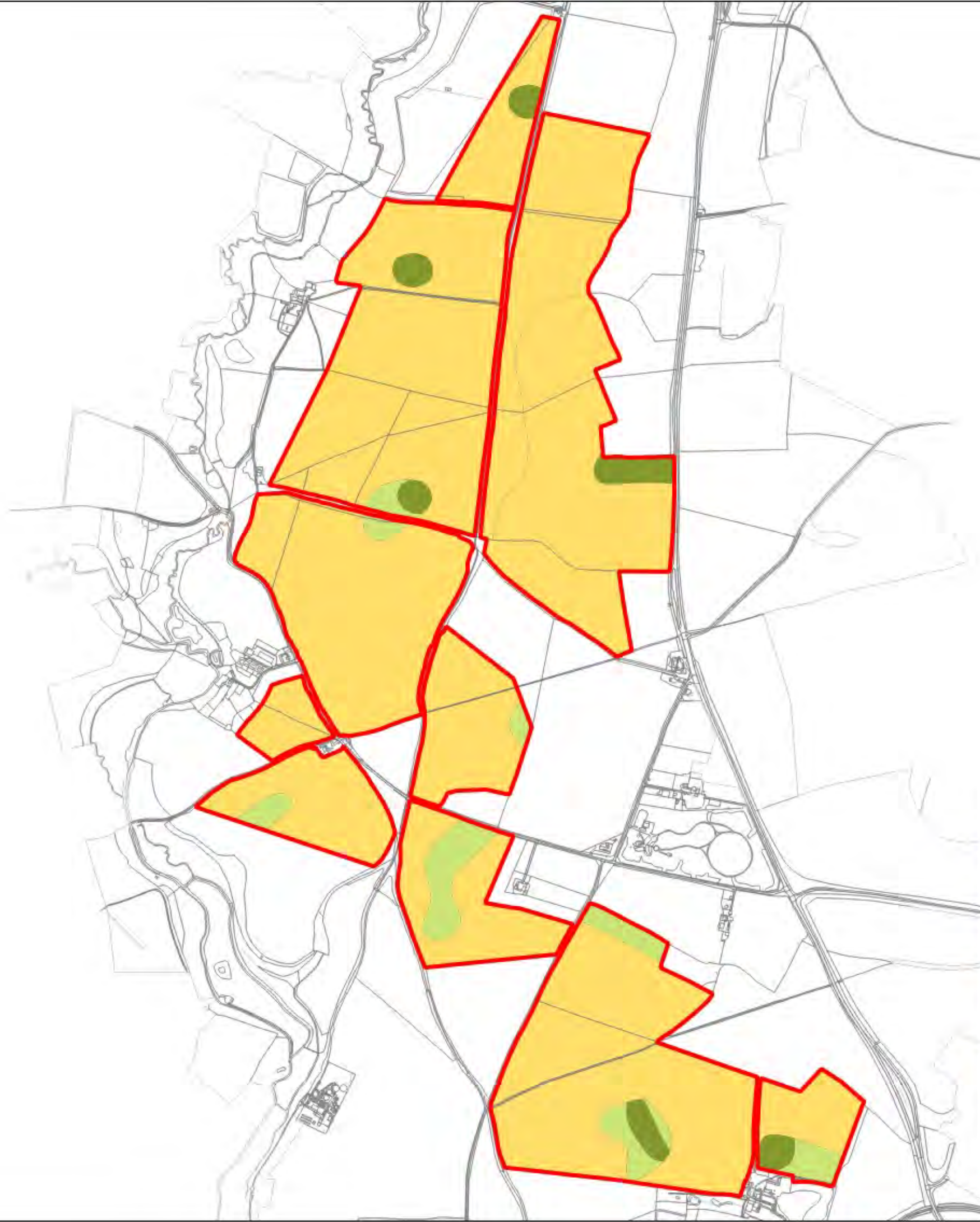
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
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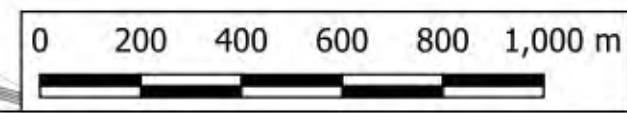
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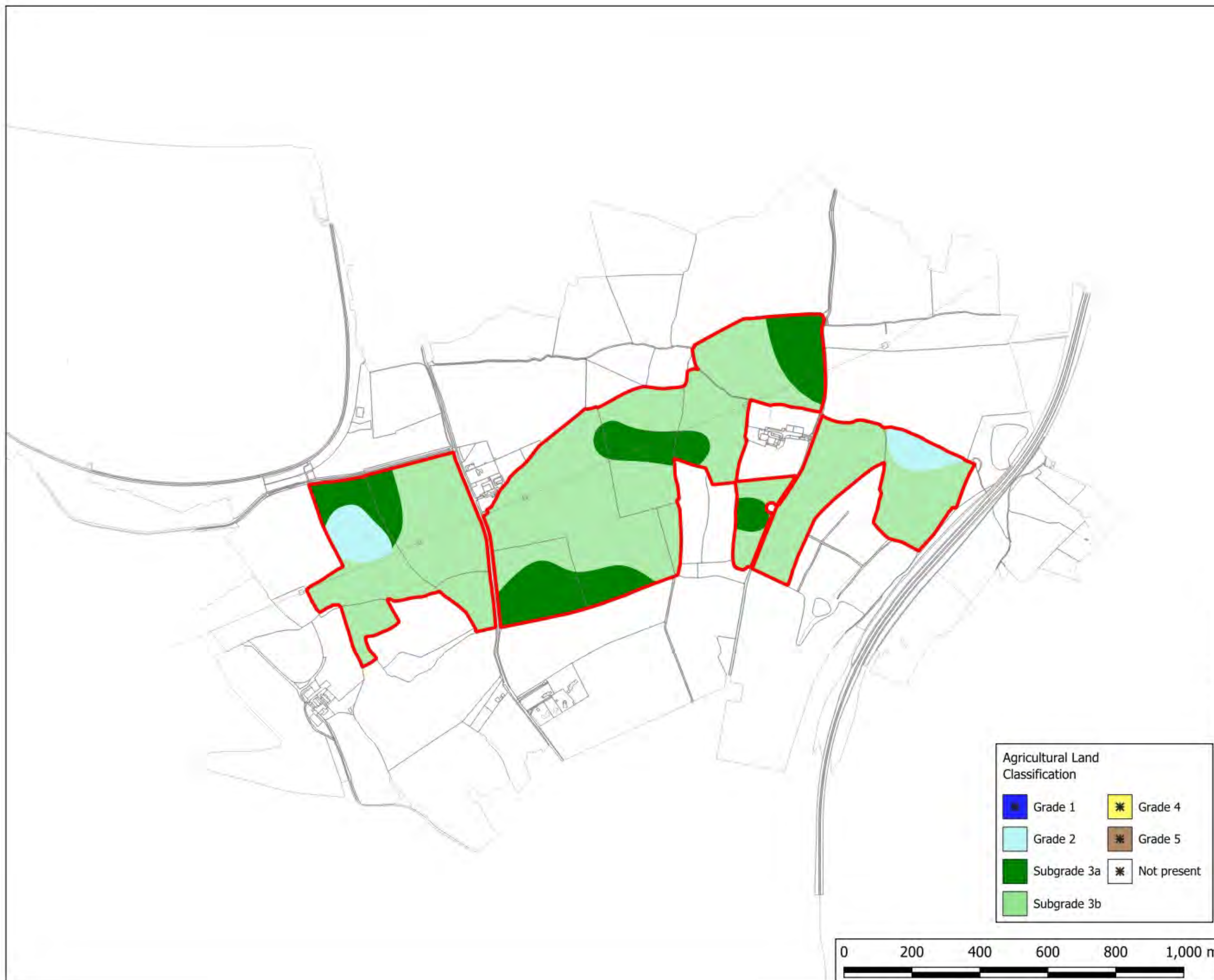
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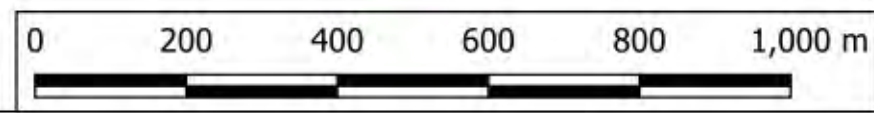
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Agricultural Land Classification	
Grade 1	Grade 4
Grade 2	Grade 5
Subgrade 3a	Not present
Subgrade 3b	



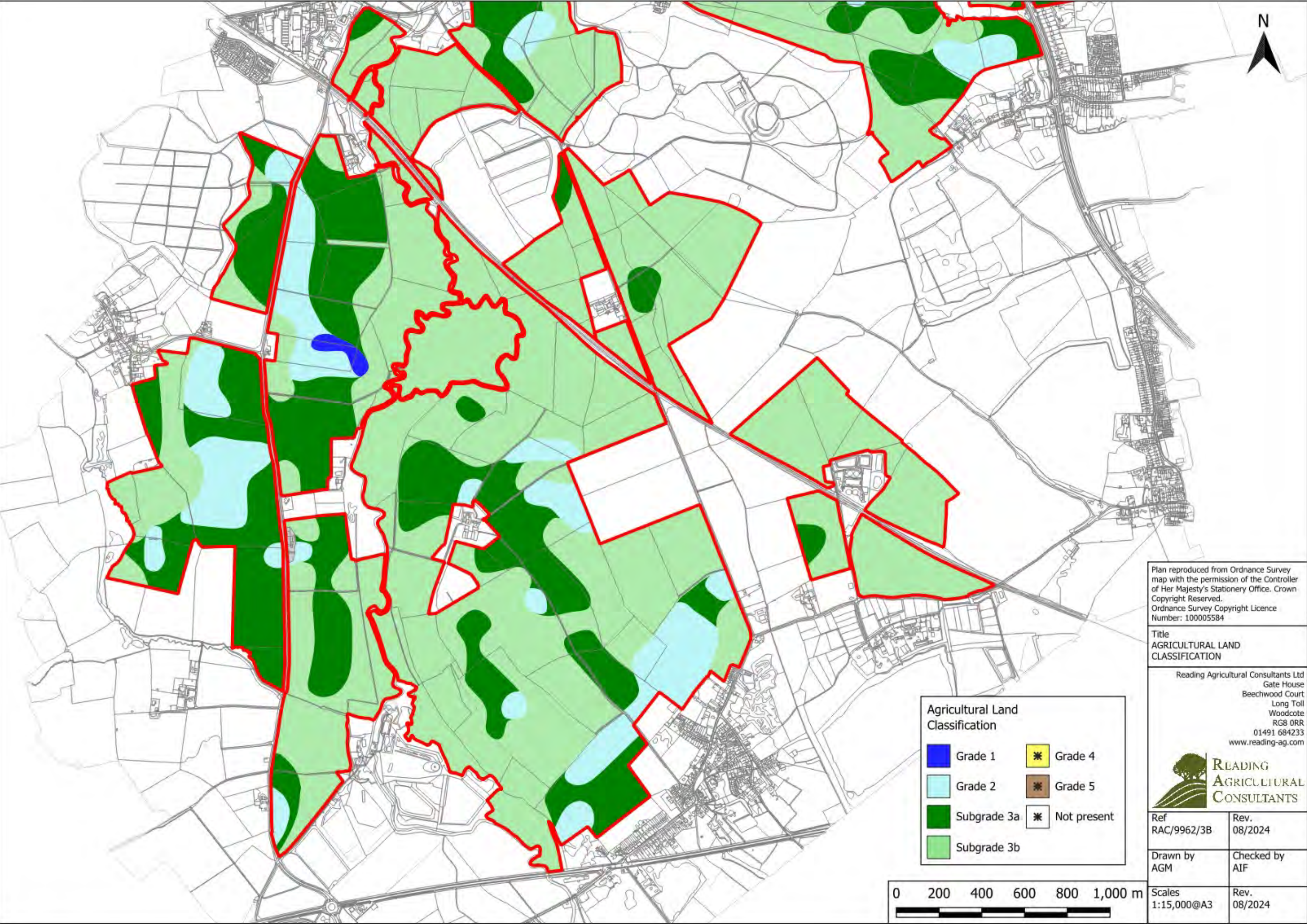
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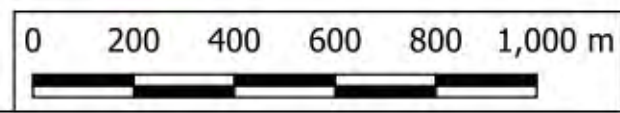


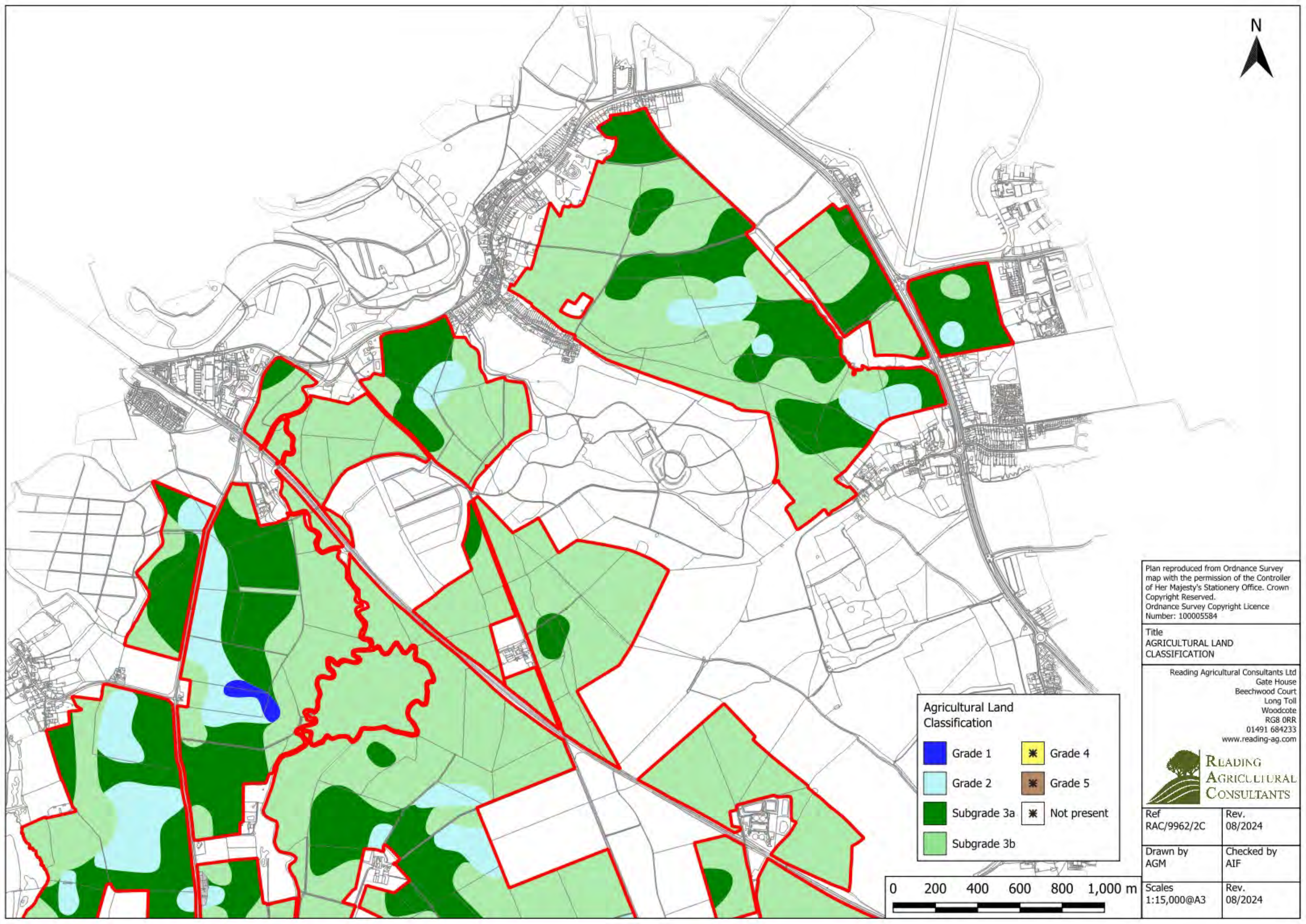
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Grade 2	Grade 5
Subgrade 3a	Not present
Subgrade 3b	

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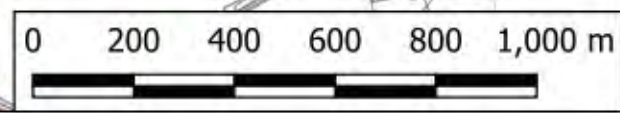
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Agricultural Land Classification

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Grade 2	Grade 5
Subgrade 3a	Not present
Subgrade 3b	



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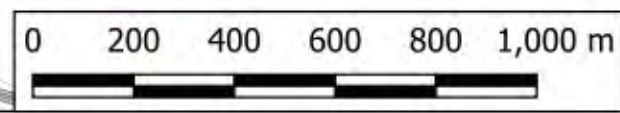
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