BEACON FEN ENERGY PARK

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WASTE RESOURCE MANAGEMENT

**LOW CARBON**

# BEACON FEN ENERGY PARK BESPOKE ACCESS CORRIDOR

# SOILS AND AGRICULTURAL LAND CLASSIFICATION

**MARCH 2025**

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**LOW CARBON**

# BEACON FEN ENERGY PARK BESPOKE ACCESS CORRIDOR

# SOILS AND AGRICULTURAL LAND CLASSIFICATION

**MARCH 2025**

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ST19595-350 Figure 14.3 Agricultural Land Classification (Bespoke Access Corridor)

# 1 INTRODUCTION

## 1.1 Background

1.1.1 Wardell Armstrong LLP (WA) part of SLR was commissioned by Low Carbon to undertake an Agricultural Land Classification (ALC) survey on a 125.4 hectares (ha) parcel of land extending from agricultural fields west of Heckington Road, Ewerby, in the North East (nearest post code: NG34 9PR/ grid reference: TF133470) to agricultural fields north of Sleaford Road, Kirkby la Thorpe in the South West (nearest postcode: NG34 9QF/ grid reference: TF109452) (hereafter referred to as 'the Survey Area').

1.1.2 This report includes the ALC data for the Survey Area shown on Drawing ST19595-350.

1.1.3 Due to site access restrictions, two areas within the Survey Area were omitted from the survey. These are shown on Drawing ST19595-350 as areas 'Not Surveyed'.

1.1.4 There have been several refinements to the DCO Order Limits since the survey was undertaken. The ALC mapping units have therefore only been mapped within the Bespoke Access Route Corridor section of DCO Order Limits within Drawing ST19595-350 and not the full Survey Area.

## 1.2 Site Description

1.2.1 The Survey Area is located within the administrative area of North Kesteven District Council and is comprised primarily of agricultural fields separated by hedgerows and ditches.

1.2.2 The surrounding area is comprised primarily of agricultural land. Nearby residential areas include Ewerby (to the north), Kirkby la Thorpe (to the west) and Heckington (to the southeast).

1.2.3 At the time of the survey in September 2024, the weather was clear to overcast with some light rain.

**Photograph 1: Overview of the Survey Area condition during the survey in September 2024.**

## 1.3 Definitions

1.3.1 The ALC system was devised by the Ministry of Agriculture, Fisheries and Food (MAFF) (1988)[1] and is the standard method for determining the quality of agricultural land in England and Wales according to its versatility, productivity and workability, based upon inter-related parameters including climate, relief, soil characteristics and

[1] MAFF (1988). The Agricultural Land Classification (ALC) of England and Wales: Revised Guidelines and Criteria for Grading the Quality of Agricultural Land. Available at: [redacted] Accessed October 2024.

drainage; i.e. ALC assesses land quality based upon the type and level of agricultural production the land can potentially support.

1.3.2 The ALC system places land into one of five grades: Grade 1 (excellent); Grade 2 (very good); Grade 3 (good to moderate) which is divided into Subgrades 3a (good) and 3b (moderate); Grade 4 (poor); and Grade 5 (very poor).

1.3.3 Best and most versatile (BMV) agricultural land is defined as land of excellent to good agricultural quality (ALC Grades 1, 2 and Subgrade 3a) and is afforded a degree of protection in the National Planning Policy Framework (NPPF), 2025[2].

1.3.4 Soil series are the lowest category in the soil classification system and are precisely defined based upon particle-size distribution, parent material (substrate) type, colour, and mineralogical characteristics. Soil associations are groupings of related soil series.

[2] UK Government (2025). National Planning Policy Framework. Available at: https://www.gov.uk/government/publications/national-planning-policy-framework--2. Accessed March 2025.

# 2 METHODOLOGY

## 2.1 Desk Study

2.1.1 Information about the soils and agricultural land present within the Survey Area was obtained from the following published sources:

- MAFF (1993). 1:250,000 'Provisional Agricultural Land Classification'[3].
- Met Office (1989) Climatological Data for Agricultural Land Classification (ALC): Grid point datasets of climatic variables at 5 km intervals for England and Wales[4].
- Soil Survey of England and Wales (1984) Soils and their Use in Eastern England, with accompanying 1: 250,000 map, Sheet 4.
- OS (2021) Terrain 5 Digital Terrain Modelling[5].
- Multi-Agency Geographical Information for the Countryside (MAGIC)[6].
- Google Maps including Streetview[7].
- Cranfield University (2015). Research to develop the evidence base on soil erosion and water use in agriculture[8].
- Cranfield University (2023) The Soils Guide. Available at LandIS - Land Information System - Soils guide Accessed July 2023.[9]
- Natural England (2017) Likelihood of Best and Most Versatile (BMV) Agricultural Land – Strategic scale map East Midlands region[10].
- Munsell (2010) Colour Charts[11].

[3] Provisional Agricultural Land Classification Maps and Data. Available at: https://data.gov.uk/dataset/952421ec-da63-4569-817d-4d6399df40a1/provisional-agricultural-land-classification-alc Accessed October 2024.
[4] Met Office (1989) Climatological Data for Agricultural Land Classification (ALC): Grid point datasets of climatic variables at 5 km intervals for England and Wales. Available at: https://data.gov.uk/dataset/8a334958-ff65-4f5c-9674-5a85e61ee269/climatological-data-for-agricultural-land-classification Accessed October 2024.
[5] OS Terrain 5. Available at: https://www.ordnancesurvey.co.uk/business-government/products/terrain-5 August July 2023.
[6] HM Government. Multi-Agency Geographical Information for the Countryside (MAGIC). Available at: www.magic.gov.uk
[7] Google Maps (©2021). Available at: [redacted] / Accessed October 2024.
[8] Knox *et al.* (2015). 'Research to develop the evidence base on soil erosion and water use in agriculture: Final Technical Report. pp147' Available at [redacted] Accessed October 2024.
[9] Cranfield University (2023) The Soils Guide. Available at LandIS - Land Information System - Soils guide Accessed October 2024.
[10] Natural England (2017) Likelihood of Best and Most Versatile (BMV) Agricultural Land - Strategic scale map East midlands region (ALC017) Available at: [redacted] Accessed October 2024.
[11] Munsell Colour (2010). Munsell Soil Colour Charts. Not available online.

- British Geological Survey Geology Viewer (BGS)[12].

## 2.2 Site Survey

2.2.1 A detailed Soils and ALC survey was undertaken by experienced soil surveyors using a combination of augered soil cores and soil profile pits.

2.2.2 The total area surveyed excluding the omitted areas was 120.46 ha.

2.2.3 Auger cores were taken using a 70 mm diameter hand-held Edelman auger, capable of sampling to a maximum depth of 120 cm. The soil profile pits were excavated, using a spade to a maximum depth of 80 cm, sufficient to evaluate the in-situ structure of the soil profile.

2.2.4 A total of 122 points (114 cores and 8 pits) were inspected (Drawing ST19595-350). The survey points were distributed across the Survey Area, giving a survey density of just over one point per hectare in the areas of agricultural land[13]. The purpose of the survey was to provide details of soil profile characteristics and to inform the ALC assessment. The results of the survey are included in Appendix 1.

2.2.5 To confirm the soil texture across the Survey Area, 18 soil samples (selected to represent areas of the Survey Area or where changes in soil characteristics were identified) were sent for analysis of particle size distribution and other determinants (organic matter, pH, phosphorus, potassium, and magnesium). The samples were analysed by NRM Laboratories, which is accredited by UKAS to the internationally recognised standard for competence; ISO/IEC 17025. The laboratory results are included in Appendix 2.

[12] British Geological Survey UKRI (2023) British Geological Survey Geology Viewer. Available at: BGS Geology Viewer - British Geological Survey Accessed October 2024.
[13] Natural England (2012). Technical Information Note 049, 'Agricultural Land Classification: protecting the Best and Most Versatile agricultural land'. Available at [redacted] Accessed October 2024.

# 3 DESK STUDY

## 3.1 Soils

3.1.1 The scale of the Soil Survey of England and Wales (1984) mapping is such that it is not accurate to the field level and does not pick up small-scale local variations in soil type. However, it does provide a general indication of the soil types within the Survey Area and the wider area.

3.1.2 The Soil Survey of England and Wales (1984) mapping indicates that the Survey Area belongs to predominantly to the Beccles 3 (711t) soil association with a smaller area of the Ruskington (512c) soil association in the southwest. A summary of the characteristics of these soil associations is provided in Table 1.

**Table 1: The Soil Associations based on the Soil Survey of England and Wales (1984).**

| Soil Association | Beccles 3 711t | Ruskington 512c |
|---|---|---|
| **Soil Series** | Beccles, Ashley, Hanslope | Ruskington, Ickford, Newsleaford |
| **Geology** | Chalky till | Glaciofluvial sand and gravel |
| **Soil characteristics** | Slowly permeable seasonally waterlogged fine loamy over clayey soils, associated with similar clayey soils. | Deep permeable calcareous coarse and fine loamy and sandy soils affected by groundwater. Flat land. |
| **Soil Water Regime (WC = Wetness Class)** | All the soils have slowly permeable subsoils which cause waterlogging for much of the winter (WC III and IV). Because of this they have a limited winter rainfall acceptance potential and most surplus water is shed laterally as surface run-off. | Most of the soils have been artificially drained so are now only occasionally waterlogged in winter (WC II) as they respond well to drainage. Locally, however, where there is hard ironpan or an undulating, slowly permeable clay substratum the soils lie wet for longer. |
| **Erodibility** | Very small risk from water. Hanslope soils are restricted to convex eroded slopes mainly at the margins of delineations (calcareous till near surface). | Very small risk from water. |

## 3.2 Agricultural Land Classification

3.2.1 The Provisional 1:250,000 ALC mapping indicates that agricultural land within the Survey Area is all ALC Grade 3 (125.4 ha). As with the soils data, the scale of the mapping is not accurate at the field level, and this is reflected by the inability to pick up variations in ALC grade for areas less than approximately 80 ha. However, it does provide an indication of the predominant ALC grading in the wider area.

3.2.2 The Natural England BMV Likelihood mapping shows the Survey Area to be in an area of Moderate BMV likelihood (20-60% area BMV), with a small area of High BMV likelihood (>60% area BMV) in the southwest of the Survey Area. The area of High BMV likelihood aligns with the small area of the Ruskington 512c soil association.

3.2.3 A detailed Soils and ALC survey, including laboratory analysis of samples, was therefore required to ensure that the baseline information is sufficiently robust to inform the Soils and ALC Assessment, and to inform the Soil Management Plan (SMP) that is to be prepared as part of the application.

## 3.3 Aerial Imagery and Ordnance Survey Mapping

3.3.1 The Ordnance Survey mapping indicates that the Survey Area has a relatively flat to gently sloping topography, with elevation from 7 m to 23 m above ordnance datum (AOD) across the Survey Area (average 16 m AOD).

# 4 SITE SURVEY

## 4.1 Soils

4.1.1 The primary soil profiles observed across the Survey Area were found to be consistent with the mapped soil associations: Beccles 3 711t (Photograph 2 and Photograph 3) and Ruskington 512c (Photograph 4 and Photograph 5). A summary of the typical soil profile observed on Site is provided below, with detailed results provided in Appendix 1.

**Photograph 2: Beccles 3 711t – Beccles series – point 46**

**Photograph 3: Beccles 3 711t – Beccles series – point 85**

**Photograph 4: Ruskington 512c – Ickford series – point 120**

**Photograph 5: Ruskington 512c – Ickford series – point 118**

**Beccles 3 (711t)**

4.1.2 Soils which had characteristics indicative of this association formed the majority of the Survey Area (77 points). Topsoil depths ranged from 25 to 43 cm. The topsoil textures recorded were sandy clay loam to heavy clay loam (clay at a few points), having colours ranging from olive brown (2.5Y 4/3) to dark greyish brown (10YR 4/2, 2.5Y 4/2). The structure was subangular blocky to angular blocky of moderate to weak development, with a medium to coarse ped size and friable to very firm strength. A total of 33 points had calcareous topsoils. Stones (hard rock) were found at 27 points within the topsoil, with 5-10% stones > 2 cm and 0-5% stones > 6 cm recorded.

4.1.3 The upper subsoil depths ranged from 45 to 82 cm. Soil textures recorded were typically sandy clay loam to heavy clay loam and varied in colour from olive brown (2.5Y 4/3, 4/4) to greyish brown (10YR 5/2). The structure was subangular blocky to angular blocky of strong to weak development, with medium to very coarse ped size and firm to extremely firm strength. A total of 54 points had calcareous subsoils. Stones (hard rock and chalk) were found at 26 points within the subsoil, with 5-10% stones > 2 cm and 0-5% stones > 6 cm recorded.

4.1.4 The lower subsoil* depths ranged from 65 to 120 cm. The soils were mostly recorded as having a clay texture (heavy clay loam, sandy clay and sandy clay loam also found at some points), and varied in colour from olive brown (2.5Y 4/4) to light yellowish brown (2.5Y 6/3). The structure was subangular blocky to prismatic of strong to weak development, with medium to very coarse ped size and friable to extremely firm strength. A total of 65 points had calcareous subsoils. Stones (chalk) were found at 25 points within the subsoil, with 5-15% stones > 2 cm and 0-5% stones > 6 cm recorded.

**Lower subsoil depths were extended for some points (where stones impeded the auger) based on evidence of deeper subsoils present at nearby points/pit.*

4.1.5 A fourth horizon was found at 10 points at a depth of up to 120 cm. The texture was mainly clay (sandy clay and sand found at one point each). This horizon ranged in colour from light yellowish brown (2.5Y 6/3) to yellowish brown (10YR 5/4, 5/6) and greyish brown (10YR 5/2). The structure was granular to angular blocky of moderate to weak development having medium to coarse ped size with very friable to extremely firm strength. Soils at all points were calcareous.

**Ruskington (512c)**

4.1.6 Soils which had characteristics indicative of this association (Ickford series) were observed at 45 points. The topsoil depths ranged from 21 to 45 cm. The topsoil textures recorded were sandy clay loam and heavy clay loam (sandy loam at a few points), having colours ranging from olive brown (2.5Y 4/3) to brown (10YR 4/3, 5/3) to dark greyish brown (10YR 4/2, 2.5Y 4/2). The structure was subangular blocky of moderate to weak development having medium to coarse ped size with friable to firm strength. A total of 27 points had calcareous soils. Stones (hard rock) were found at 23 points within the topsoil, with 5-15% stones > 2 cm and 0-5% stones > 6 cm recorded.

4.1.7 The upper subsoil depths ranged from 38 to 90 cm. The subsoil textures recorded were sandy clay loam to heavy clay loam (clay, sandy loam and loamy sand also found at

some points), having colours ranging from light olive brown (2.5Y 5/4) to dark yellowish brown (10YR 4/6). The structure was subangular blocky to angular blocky of moderate to weak development having medium to very coarse ped size with friable to very firm strength. A total of 32 points had calcareous subsoils. Stones (hard rock and chalk) was found at 30 points within the subsoil, with 5-10% stones > 2 cm and 0-5% stones > 6 cm recorded.

4.1.8 The lower subsoil depths ranged from 74 to 120 cm. The soil textures recorded were mainly loamy sand, sand and clay (heavy clay loam, sandy loam and sandy clay loam also found at some points), having colours ranging from light olive brown (2.5Y 5/3, 5/4, 5/6), to yellowish brown (10YR 5/4). The structure was granular to angular blocky (prismatic peds were recorded at isolated points which had a clay texture) of moderate to weak development having fine to coarse ped size with very friable to extremely firm strength. A total of 37 points had calcareous subsoils. Stones (chalk) were found at 31 points within the subsoil, with 5-15% stones > 2 cm and 0-10% stones > 6 cm recorded.

4.1.9 A fourth horizon was found at 6 points at an average depth of 111.6 cm. The textures found were clay and sand (loamy sand found at one point), having light olive brown (2.5Y 5/3, 5/4) to olive brown (2.5Y 4/3) and yellowish brown (10YR 5/6) to dark yellowish brown (10YR 4/6). The structure was granular to prismatic of moderate to weak development having medium to coarse ped size with very friable to very firm strength. Soils at 4 points were calcareous.

***Laboratory Results***

4.1.10 A total of 18 samples were taken from the topsoil and subsoils at eight survey points across the Survey Area. These were analysed for pH, macro nutrient availability, soil organic matter and soil texture. Copies of the reports can be found in Appendix 2.

4.1.11 A total of 8 topsoils, 8 upper subsoils and 2 lower subsoils were analysed. The soil texture results largely matched the surveyed hand texture determinations and were used to confirm the soil textures of surrounding areas with similar characteristics. Where borderline results between textural classifications have been reported the soil texture result closest to the surveyed soil texture has been used.

# 5 AGRICULTURAL LAND CALSSIFICATION

## 5.1 Agroclimatic Data

5.1.1 Agroclimatic data were taken from the nearest meteorological stations and interpolated to obtain Site specific values (Table 2). This was then used to establish whether the agricultural land quality of the Survey Area is limited by climate and, in conjunction with soil profile characteristics, wetness and droughtiness.

5.1.2 The climate on the Survey Area poses no direct limitation on the ALC classification.

**Table 2: Interpolated agroclimatic data for the Survey Area.**

| | |
|---|---|
| Average annual rainfall (mm) | 599 |
| Accumulated Temperature ($^0$C) | 1418 |
| Field Capacity Duration (FCD) (days) | 115 |
| Moisture Deficit Wheat (mm) | 113 |
| Moisture Deficit Potatoes (mm) | 107 |

## 5.2 Direct Limitations

5.2.1 Topsoil stoniness limits five points to Grade 2 and four points to Subgrade 3a. In these cases, topsoil stoniness is not the only limiting factor.

5.2.2 There is no limitation due to soil depth.

5.2.3 No other direct limitations including gradient, summer and winter flood risk and topsoil texture limited the ALC grade for the Survey Area.

## 5.3 Interactive ALC Limitations

### Wetness

5.3.1 Wetness limited a total of 94 points across the Survey Area, with 27 points limited to Grade 2, 53 points limited to Subgrade 3a, and 14 points limited to Subgrade 3b.

5.3.2 Wetness class varied across the Survey Area due to the depths to slowly permeable layer (SPL) and gleying within the soil profile. SPLs and gleying were strongly influenced by the soil texture and structure found within the subsoils of the profile.

5.3.3 Points limited to Grade 2 by Wetness had a sandy clay loam or a calcareous heavy clay loam/ clay textured topsoil with a Wetness Class of II or III.

5.3.4 Points limited to Subgrade 3a by Wetness had a sandy clay loam, calcareous heavy clay loam/ clay or a heavy clay loam textured topsoil with a Wetness Class of II or III.

5.3.5 Points limited to Subgrade 3b by Wetness had a heavy clay loam textured topsoil with a Wetness Class of III.

5.3.6 Table 3 lists the soil profile characteristic combinations that lead to an overall wetness limitation and the number of points across the Survey Area with these characteristics.

**Table 3: Wetness Limitation Grade According to Soil Characteristics**

| Topsoil Textures | Depth to Gleying | Depth to SPL | Wetness Class (WC) | Limitation and Grade | No. Points |
|---|---|---|---|---|---|
| SCL<br>Calcareous HCL<br>Calcareous Clay | <40cm | <57cm | III | Wetness 3a | 40 |
| SCL<br>Calcareous HCL | >40cm <70cm | <57cm | II | Wetness 2 | 14 |
| SCL<br>Calcareous HCL | >40cm <70cm | <57cm | III | Wetness 3a | 9 |
| HCL | <40cm | <57cm | III | Wetness 3b | 8 |
| SCL | <40cm | <57cm | III | Wetness 2 | 4 |
| SCL<br>Calcareous HCL | <40cm | >57cm <80cm | II | Wetness 2 | 3 |
| SCL<br>Calcareous HCL | >40cm <70cm | >57cm <80cm | II | Wetness 2 | 2 |
| SCL | >40cm <70cm | <57cm | III | Wetness 2 | 2 |
| HCL | None <70cm | <57cm | III | Wetness 3b | 2 |
| Calcareous HCL | None | <57cm | III | Wetness 3a | 2 |
| HCL | >40cm <70cm | <57cm | III | Wetness 3b | 2 |
| HCL | <40cm | >57cm <80cm | III | Wetness 3b | 2 |
| HCL | >40cm <70cm | <57cm | II | Wetness 3a | 1 |
| SCL | None <70cm | <57cm | II | Wetness 2 | 1 |
| HCL | None <70cm | <57cm | III | Wetness 3a | 1 |
| Calcareous Clay | None <70cm | >57cm <80cm | II | Wetness 2 | 1 |

**Droughtiness**

5.3.7 Droughtiness limited a total of 84 points across the Survey Area, with 35 points limited to Grade 2 and 49 points limited to Subgrade 3a.

5.3.8 Droughtiness is triggered due to moderate or poor structural conditions combined with the texture of the subsoil within the profile.

5.3.9 Soils with Beccles 3 711t characteristics typically had a minor droughtiness limitation to Grade 2 due to the higher available water capacity of the sandy/heavy clay loam topsoils and clay subsoils. A droughtiness limitation to Subgrade 3a occurs where

there are weakly developed clay subsoils having coarse/very coarse ped size and very firm/ extremely firm ped strength reducing the structural condition to poor/moderate.

5.3.10 Soils with Ruskington 512c characteristics (Ickford series) typically had a minor droughtiness limitation to Grade 2 due to presence of sandy clay loam topsoils over sandy clay loam/loamy sand or sandy loam subsoils. These textures combined with the presence of chalk, created good structural conditions and resulted in increased available water capacity and only a minor droughtiness limitation. Droughtiness limitation to Subgrade 3a occurred within soil profiles having sandy clay loam/ heavy clay loam topsoils over heavy textured subsoils. The poor structural condition of the heavy textured subsoils resulted in reduced available water capacity.

## 5.4 Overall Agricultural Land Classification

5.4.1 Grade boundaries were drawn based on field observations and the calculations from the individual points to make mapping units (groups of ALC gradings) representative of field conditions. Soil limitations were the main factors determining ALC grade on this Site, and map units were made of at least 2 survey points of the same grade. Isolated points of ALC grades were incorporated into the surrounding map units. The ALC map comprises Grade 2, Subgrade 3a and Subgrade 3b agricultural land as well as non-agricultural land (other) (Table 4 and Drawing ST19595-350).

**Table 4: Summary of ALC within the Survey Area.**

| ALC or other land category | Area (ha) | Percentage % within Survey Boundary | Percentage % of Surveyed Boundary (excluding land marked as 'other') |
|---|---|---|---|
| Grade 2 (very good) | 33.62 | 27.9 | 28 |
| Subgrade 3a (good) | 73.14 | 60.7 | 61 |
| Subgrade 3b (moderate) | 13.11 | 10.9 | 11 |
| Non – Agricultural land (other) | 0.59 | 0.5 | - |
| **Total** | **120.46 ha** | **100** | **100 (119.87 ha)** |

5.4.2 Table 5 provides the breakdown of ALC within the Bespoke Access Corridor section of the DCO Order Limits.

| Table 5: Summary of ALC within the Bespoke Access Corridor section of the DCO Order Limits. | | | |
|---|---|---|---|
| **ALC or other land category** | **Area (ha)** | **Percentage % within the Bespoke Access Corridor section of the DCO Order Limits** | **Percentage % within the Bespoke Access Corridor section of the DCO Order Limits (excluding land marked as 'other')** |
| Grade 2 (very good) | 16.58 | 36.6 | 37 |
| Subgrade 3a (good) | 22.10 | 48.8 | 49 |
| Subgrade 3b (moderate) | 6.18 | 13.6 | 14 |
| Non – Agricultural land (other) | 0.45 | 1.0 | - |
| **Total** | **45.31 ha** | **100** | **100 (44.86 ha)** |

5.4.3 The following sections provide summaries of the main ALC grades and limitations found across the Survey Area. The information within Table 3 can be used to provide the criteria required for each wetness class.

**Grade 2**

5.4.4 Soils of wetness class II (21 points) which had a sandy clay loam or calcareous heavy clay loam/ clay textured topsoil were limited to Grade 2 by wetness.

5.4.5 Soils of wetness class III (6 points) which had sandy clay loam textured topsoil were limited to Grade 2 by wetness.

5.4.6 Soils from both associations (35 points) were limited to Grade 2 by droughtiness. These soils generally had good structural conditions providing good drainage however the lower available water capacity of the lighter textured soils gave a slight droughtiness limitation.

5.4.7 One isolated point (Point 109) had no limitation (Grade 1). The area which this point represented would not be managed any differently to the surround land and a pattern limitation has been applied. This downgrades the point to Grade 2 to form part of the wider Grade 2 mapping unit of that area.

**Subgrade 3a**

5.4.8 Soils of wetness class II (1 point) which had a heavy clay loam textured topsoil were limited to Subgrade 3a by wetness.

5.4.9 Soils of wetness class III (52 points) which had a sandy clay loam, calcareous heavy clay loam or calcareous clay textured topsoil were limited to Subgrade 3a by wetness

5.4.10 Soils from both the associations were limited to Grade 3a by droughtiness (49 points). These soils generally had poor to moderate structural conditions which reduced the available water capacity within the soil profile. A large proportion of these had a combined wetness/droughtiness limitation.

5.4.11 Two isolated points (Points 8 and 19) were limited to Grade 2 by droughtiness and wetness/droughtiness respectively. Due to the ALC pattern limitation, they have now been combined within the Subgrade 3a area in the northern fields, which had similar soils. This was done to avoid any practical constraint on cropping and land management for the areas surrounding these individual points.

**Subgrade 3b**

5.4.12 Soils of wetness class III (14 points) which had a heavy clay loam textured topsoil were limited to Subgrade 3b by Wetness.

5.4.13 One point (Point 79) was limited to Subgrade 3a by wetness/droughtiness. Due to ALC pattern limitation, this point was combined within the Subgrade 3b area in the central fields which had similar soils. This was done to avoid any practical constraint on cropping and land management for the area surrounding this individual point.

# 6 POLICY AND GUIDANCE

## 6.1 National Planning Policy

### *National Planning Policy Framework (2025)*[2]

6.1.1 Under Section 15 of the NPPF (2025): Conserving and enhancing the natural environment, Paragraph 187 states that planning policies and decisions should contribute to and enhance the natural and local environment by:

a) *protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan);*

b) *recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;*

e) *preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans*; and

f) *remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate*.

6.1.2 The footnote to Paragraph 188 also states that '*Where significant development of agricultural land is demonstrated to be necessary, areas of poorer quality land should be preferred to those of a higher quality*'.

6.1.3 The Planning Practice Guidance (PPG) which accompanies the NPPF is split into a number of guidance notes. Guidance on soils and agricultural land is found in the Planning Practice Guidance for the Natural Environment 2019 (PPGNE)[14] under the heading *Agricultural Land, Soil and Brownfield Land of Environmental Value*. This advises that the ALC be used to assess the quality of farmland to enable informed choices to be made about its future use within the planning system; and explains that

[14] Planning Practice Guidance for the Natural Environment 2019 (PPGNE) Available at: https://www.gov.uk/guidance/natural-environment. Accessed October 2024.

the ALC places agricultural land into five Grades with Grade 3 subdivided into 3a and 3b. The BMV land is defined as Grades 1, 2 and 3a. The PPGNE states that *'Planning policies and decisions should take account of the economic and other benefits of the best and most versatile agricultural land'.*

6.1.4 The PPGNE goes on to state that 'In the circumstances set out in Schedule 4 paragraph (y) of the Development Management Procedure Order 2015[15], Natural England is a statutory consultee: '*a local planning authority must consult Natural England before granting planning permission for large-scale non-agricultural development on best and most versatile land that is not in accord with the development plan'* and refers to Natural England guidance to assessing development proposals on agricultural land (2021).

6.1.5 Therefore, knowledge of the ALC grading of the Survey Area, is necessary to be able to determine whether the requirements of planning policy are being met.

6.1.6 The PPGNE also recognises soil as an essential natural capital asset that provides important ecosystem services, for example as a growing medium for food, timber and other crops, as a store for carbon and water, as a reservoir of biodiversity and as a buffer against pollution. It also recommends Defra's Code of Practice for the Sustainable Use of Soils on Construction Sites[16] as a useful tool when setting planning conditions for development sites, as it provides advice on the use and protection of soil in construction projects, including the movement and management of soil resources.

***Emerging Overarching National Policy Statement for Energy (EN-1) (Published November 2023)[17]***

6.1.7 Paragraph 5.11.4 states that "Development of land will affect soil resources, including physical loss of and damage to soil resources, through land contamination and structural damage. Indirect impacts may also arise from changes in the local water regime, organic matter content, soil biodiversity and soil process."

[15] HM Government (2015). Statutory Instrument 2015 No. 595, The Town and Country Planning (Development Management Procedure) (England) Order 2015. Available at https://www.legislation.gov.uk/uksi/2015/595/contents/made. Accessed October 2024.
[16] DEFRA (2009) Construction Code of Practice for the Sustainable Use of Soils on Construction Sites. Available at: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/69308/pb13298-code-of-practice-090910.pdf. Accessed October 2024.
[17] Department for Energy Security and Net Zero (2023) Overarching National Policy Statement for Energy (EN-1) Draft Update November 2023. Available at: EN-1 Overarching National Policy Statement for Energy (publishing.service.gov.uk). Accessed October 2024.

6.1.8 Paragraph 5.11.13 states that applicants should seek to minimise impacts on soil health and protect and improve soil quality. Paragraph 5.11.14 outlines that the sustainable reuse of soils needs to be carefully considered in line with good practice guidance where large quantities of soil are surplus to requirements.

***Emerging National Policy Statement for Renewable Energy Infrastructure (EN-3) (Published November 2023)[18]***

6.1.9 Section 2.10 considers the development of Solar Photovoltaic Generation.

6.1.10 Paragraph 2.10.29 states that where the proposed use of any agricultural land has been shown to be necessary, poorer quality land should be preferred to higher quality land (avoiding the use of "Best and Most Versatile" agricultural land where possible) and Paragraph 2.10.30 states that whilst the development of ground mounted solar arrays is not prohibited on Best and Most Versatile agricultural land, the impacts of such are expected to be considered.

6.1.11 Paragraph 2.10.31 states that at this scale it is likely that applicants' developments may use some agricultural land therefore applicants should explain their choice of site, noting the preference for development to be on suitable brownfield, industrial and low and medium grade agricultural land. Paragraph 2.10.32 discusses that where sited on agricultural land, consideration may be given as to whether the proposal allows for continued agricultural use and/or can be co-located with other functions (for example, storage, hydrogen electrolysers) to maximise the efficiency of land use.

6.1.12 Paragraph 2.10.33 discusses the Agricultural Land Classification system and states that field surveys should be used to establish the ALC grades in accordance with the current, or any successor to it, grading criteria and identify the soil types to inform soil management at the construction, operation, and decommissioning phases in line with the Defra Construction Code.

6.1.13 Additionally, Paragraph 2.10.34 states that applicants are encouraged to develop and implement a Soil Resources and Management Plan which could help to use and manage soils sustainably and minimise impacts on soil health and potential land contamination and that this should be in line with the ambition set out in the

[18] Department for Energy Security and Net Zero (2023) Overarching National Policy Statement for Renewable Energy Infrastructure (EN-3) November 2023. Available at: National Policy Statement for Renewable Energy Infrastructure (EN-3) (publishing.service.gov.uk). Accessed October 2024.

Environmental Improvement Plan to bring 40% of England's agricultural soils into sustainable management by 2028 and increase this up to 60% by 2030.

6.1.14 Paragraph 2.10.81 states that where soil stripping occurs topsoil and subsoil should be stripped, stored, and replaced separately to minimise soil damage and to provide optimal conditions for site restoration.

6.1.15 Paragraph 2.10.127 refers to the DEFRA Construction code of practice for the sustainable use of soils on construction sites and discusses that mitigation measures should focus on minimising damage to soil that remains in place, and minimising damage to soil being excavated and stockpiled. It also states that mitigation measures should aim to preserve soil health and soil structure to minimise soil carbon loss and maintain water infiltration and soil biodiversity. Mitigation measures for agricultural soils include use of green cover, multispecies cover crops - especially during the winter - minimising compaction and adding soil organic matter.

6.1.16 Paragraph 2.10.145 states that the Secretary of State should take into account the economic and other benefits of the best and most versatile agricultural land and that the Secretary of State should ensure that the applicant has put forward appropriate mitigation measures to minimise impacts on soils or soil resources.

## 6.2 Local Planning Policy

### *Central Lincolnshire Local Plan (Adopted 2023)*[19]

6.2.1 The Central Lincolnshire Local Plan was adopted in April 2023 and includes the following relevant policies:

- Policy S14: Renewable Energy
- Policy S17: Carbon Sinks
- Policy S67: Best and Most Versatile Agricultural Land
- Policy S68 Sustainable Urban Extensions

6.2.2 One of the objectives of the local plan is "to protect and enhance soil and land resources and quality in Central Lincolnshire".

[19] Central Lincolnshire Local Plan Team and North Kesteven District Council (2023) Central Lincolnshire Local Plan (Adopted 2023). Available at: https://www.n-kesteven.gov.uk/sites/default/files/2023-04/Local%20Plan%20for%20adoption%20Approved%20by%20Committee.pdf. Accessed October 2024.

6.2.3 Policy S14 states that proposals for solar thermal or photovoltaics panels and associated infrastructure to be installed on existing property, will be under a presumption in favour of permission unless there is clear and demonstrable significant harm arising. Proposals for ground-based photovoltaics and associated infrastructure, including commercial large scale proposals, will be under a presumption in favour unless:

- There is clear and demonstrable significant harm arising; or
- The proposal is (following a site-specific soil assessment) to take place on Best and Most Versatile (BMV) agricultural land and does not meet the requirements of Policy S67; or
- The land is allocated for another purpose in this Local Plan or other statutory based document (such as a nature recovery strategy or a Local Transport Plan), and the proposal is not compatible with such other allocation.

6.2.4 Policy S14 also states that proposals for ground-based photovoltaics should be accompanied by evidence demonstrating how opportunities for delivering biodiversity net gain will be maximised in the scheme taking account of soil, natural features, existing habitats, and planting proposals accompanying the scheme to create new habitats linking into the nature recovery strategy.

6.2.5 Policy S17 states that existing carbon sinks, such as peat soils, must be protected, and where opportunities exist, they should be enhanced in order to continue to act as a carbon sink. Where development is proposed on land containing peat soils or other identified carbon sinks, the applicant must submit a proportionate evaluation of the impact of the proposal on either the peat soil's carbon content or any other form of identified carbon sink as relevant and in all cases an appropriate management plan must be submitted. There will be a presumption in favour of preservation of peat and other carbon sinks in-situ. Proposals that will result in unavoidable harm to, or loss of, peat soils or other identified carbon sinks will only be permitted if it is demonstrated that:

a) the site is allocated for development; or

b) there is not a less harmful viable option to development of that site. In any such case, the harm caused must be shown to have been reduced to the minimum possible and appropriate, satisfactory provision will be made for the evaluation,

recording and interpretation of the peat soils or other form of carbon sink before commencement of development. For peat soils that are to be removed, the soils must be temporarily stored and then used in a way that will limit carbon loss to the atmosphere. Proposals to enhance peat soils and protect its qualities will be supported.

6.2.6 Policy S67 states that proposals should protect the best and most versatile agricultural land so as to protect opportunities for food production and the continuance of the agricultural economy. With the exception of allocated sites, significant development resulting in the loss and the best and most versatile agricultural land will only be supported if:

a) The need for the proposed development has been clearly established and there is insufficient lower grade land available at that settlement (unless development of such lower grade land would be inconsistent with other sustainability considerations); and

b) The benefits and/or sustainability considerations outweigh the need to protect such land, when taking into account the economic and other benefits of the best and most versatile agricultural land; and

c) The impacts of the proposal upon ongoing agricultural operations have been minimised through the use of appropriate design solutions; and

d) Where feasible, once any development which is supported has ceased its useful life the land will be restored to its former use (this condition will be secured by planning condition where appropriate).

6.2.7 Additionally, Policy S67 states that where proposals are for sites of 1 hectare of larger, which would result in the loss of best and most versatile agricultural land, an agricultural land classification report should be submitted, setting out the justification for such a loss and how criterion b has been met.

6.2.8 Policy S68 states that each new urban extension proposal must, where applicable consider the Agricultural Land Classification of the site, and where higher quality agricultural land exists on one part of the site compared with another, then, if possible, utilise such land (or part of such land) for productive use, such as community orchards and allotments.

6.2.9 One of the objectives of the local plan is “to protect and enhance soil and land resources and quality in Central Lincolnshire”.

***South East Lincolnshire Local Plan 2011-2036 (Adopted March 2019)***[20]

6.2.10 The South East Lincolnshire Local Plan was adopted in March 2019 and includes the following relevant policies:

- Policy 3: Design of New Development
- Policy 31: Climate Change and Renewable and Low Carbon Energy

6.2.11 Policy 3 (Design of New Development) states that development proposals should demonstrate how issues where they are relevant to the proposal including "the use of locally sourced building materials, minimising the use of water and minimising land take, to protect best and most versatile soils" will be secured.

6.2.12 Policy 31 (Climate Change and Renewable and Low Carbon Energy) on renewable energy states that "with the exception of Wind Energy the development of renewable energy facilities, associated infrastructure and the integration of decentralised technologies on existing or proposed structures will be permitted provided, individually, or cumulatively, there would be no significant harm to agricultural land take".

## 6.3 Guidance

6.3.1 Natural England Technical Information Note 49 (TIN049)[13], promotes the use of ALC for assessing the quality of agricultural land, to ensure informed choices are made about its future use within the planning system. It advocates the use of soil survey to inform environmental assessment. TIN049 states that where development is proposed on agricultural or other potential crop producing land, if that proposed development is not for agricultural purposes and is not in accordance with the provisions of a development plan, and involves the direct or cumulative loss of more than 20 ha of BMV agricultural land, Natural England must be consulted in accordance with the Schedule 4, paragraph (y) of the Statutory Instrument 2015 No. 595[15].

6.3.2 Natural England's Guide to assessing development proposals on agricultural land[20] sets out the government policies and legislation which developers and local planning authorities (LPA) should refer to when considering development proposals that affect agricultural land and guidance on when Natural England should be consulted on

[20] South East Lincolnshire Joint Strategic Planning Committee (2019) South East Lincolnshire Local Plan 2011 – 2036. Available at: [redacted] Accessed October 2024.

development proposals. It also provides a detailed explanation of the ALC, information on published ALC resources and explains circumstances in which new detailed surveys may be required. It also explains how ALC data should be used in the assessment of planning decisions. Importantly, the guidance states that the LPA should ensure that development proposals include plans to protect soils; that where insufficient data are available, new surveys should be undertaken to better inform the planning decision; and that these surveys should be carried out by soil scientists or experienced soil specialists. The guidance also summarises the required survey methodology (also presented in TIN049).

# 7 CONCLUSION

7.1.1 The soils within the Survey Area can be characterised according to two main soil associations:

- Beccles 3 (711t) – Sandy clay loam to heavy clay loam textured topsoils over slowly permeable sandy clay loam, heavy clay loam or clay subsoils.
- Ruskington (512c) – Ickford series – Sandy clay loam to heavy clay loam textured topsoils (some sandy loam topsoils) over sandy clay loam to heavy clay loam textured upper subsoils (some clay, sandy loam and loamy sand subsoils) over sandy loam, loamy sand and sand subsoils.

7.1.2 The soils within the Survey Area were mainly limited by Wetness. Soils of WC III with heavy clay loam topsoils were limited by Wetness to Subgrade 3b. Soils of WC III with sandy clay loam topsoils or WC II and heavy clay loam topsoils were limited by Wetness to Subgrade 3a. Where there is the occurrence of calcareous clay or heavy clay loam topsoils the Wetness limitation is improved by one grade due to them generally having improved drainage and better workability than non-calcareous clay soils.

7.1.3 Droughtiness was also a limitation within the Survey Area due to the moderately or poorly structured subsoils reducing the available water capacity and limiting the soils to Subgrade 3a. These points generally had a combined Wetness/Droughtiness limitation. Some of the sandy Ruskington soils within the Survey Area also had a minor Droughtiness limitation (Grade 2) due to the lower available water capacity of light textured soils.

7.1.4 The Provisional ALC mapping identifies the agricultural land within the Survey Area as Grade 3 (good to moderate quality); with Natural England's BMV Likelihood mapping designating a predicted Moderate Likelihood (20-60 % area BMV) of BMV presence across the majority of the Survey Area, with a small area of High Likelihood (>60% area BMV) of BMV presence in the southwest.

7.1.5 The ALC survey conducted shows that the Bespoke Access Corridor Section of the DCO Order Limits consists of Grade 2 agricultural land (16.58 ha, 36.6%), Subgrade 3a agricultural land (22.1 ha, 48.8%), Subgrade 3b agricultural land (6.18 ha, 13.6%) and non-agricultural land (other) (0.45 ha, 1%). The Bespoke Access Corridor Section of the DCO Order Limits is therefore made up of 85.4% BMV agricultural land and 13.6% non-BMV agricultural land.

# APPENDICES

# APPENDIX 1: SOIL PROFILE DESCRIPTIONS AND AGRICULTURAL LAND CLASSIFICATION

## Soil Survey Record

**Legend for non-self-explanatory terms:**

**Horizons** - number of different horizons identified within the profile
**Type** - type of sample, auger core or soil profile pit dug using a spade
**Depth** - depth to the bottom of the (horizon number) horizon in cm
**Texture** - C - clay, ZC - silty clay, SC - sandy clay, CL - clay loam, SCL - sandy clay loam, ZCL - silty clay loam, SL - sandy loam, LS - loamy sand, S - sand;
CL and ZCL textures are subdivided into medium (M) and heavy (H) classes according to clay content, as follows: M medium (less than 27 % clay), H heavy (27-35 % clay); F, M and C refer to fine, medium and coarse, respectively, and are subdivisions of S, LS, SL, and SZL textures; O - organic, P - peat or peaty, HP - humified (highly decomposed peat), FP - fibrous peat, SFP - semi-fibrous peat; MZ - marine light silts
**Matrix (main) colour** - dominant colour of the soil; **Hue** - Munsell colour hue; **Value** - Munsell colour value; **Chroma** - Munsell colour chroma
**Mottling** - spots and blotches of different colour than the dominant matrix colour
**Ped faces** - surfaces of the primary soil fragments into which the soil naturally breaks up upon excavating
**FeMn** - ferri-manganifeours concertions
**Biopores** - 'yes' if >0.5 % biopores greater than 0.5 mm diameter present (by area)
**Stones > 2 cm up to %** - maximum percentage of 2 - 6 cm diameter stones
**Stones > 6 cm up to %** - maximum percentage of > 6 cm diameter stones
**Type** - H - All hard rocks or stones (those which cannot be scratched with a finger nail); SS - Soft, medium or coarse grained sandstones; SIM - Soft 'weathered' igneous or metamorphic rocks or stones; SL - Soft oolitic or dolomitic limestones; SFS - Soft fine-grained sandstones; SAZ - Soft, argillaceous or silty rocks or stones; CH - Chalk or chalk stones; GRH - Gravel[1] with non-porous (hard) stones; GRS - Gravel[1] with porous stones (mainly soft stone types listed);1 - Gravel with at least 70% rounded stones by volume
**Structure type** - SG - single grain; GR - granular; SAB - subangular blocky; AB - angular blocky; PR - prismatic; PL - platy; MAS - massive
**Dev** - Development, how well the structure is developed; W - weak; M - moderate; S - strong
**Consistence** - Soil consistence (strength); L - loose; VFR - very friable; FR - friable; FIR - firm; VFIR - very firm; EXFIR - extremely firm; EXHD - extremely hard
**Gley** - depth to gleying
**SPL** - depth to slowly permeable layer
**Wetness Class** - classification of the soil according to the depth and duration of waterlogging in the soil profile, the higher the class, the longer and at the shallower depth the soil is wet

***Overall ALC - this part of the table combines results of the classification for each of the limitations***

| Soil profile descriptions | | |

| Soil profile descriptions | | |

| Soil profile descriptions | | |

| Soil profile descriptions | | |

| Soil profile descriptions | | |

| Soil profile descriptions | | |

# APPENDIX 2: LABORATORY ANALYSIS

## ANALYTICAL REPORT

| | | | | |
|---|---|---|---|---|
| **Report Number** | **56409-24** | **H448** | **WARDELL ARMSTRONG LLP** | **Client** |
| **Date Received** | **01-OCT-2024** | | **CITY QUADRANT** | |
| **Date Reported** | **18-OCT-2024** | | **11 WATERLOO SQUARE** | |
| **Project** | **ST19595STEM** | | **NEWCASTLE UPON TYNE** | |
| **Reference** | **SIDDHARTHA OSWAL** | | **NE1 4DP** | |
| **Order Number** | **CA12057** | | | |

| **Laboratory Reference** | | **SOIL714430** | **SOIL714431** | **SOIL714432** | **SOIL714433** | **SOIL714434** | **SOIL714435** | **SOIL714436** | **SOIL714437** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | **POINT 5 H1** | **POINT 28 H1** | **POINT 39 H1** | **POINT 52 H1** | **POINT 78 H1** | **POINT 85 H1** | **POINT 105 H1** | **POINT 118 H1** | | |
| **Determinand** | **Unit** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | | |
| pH water [1:2.5] | | 7.5 | 7.1 | 7.9 | 8.0 | 7.7 | 7.2 | 7.9 | 7.8 | | |
| Available Phosphorus (Index) | mg/l | 6.8 (0) | 5.6 (0) | 3.8 (0) | 2.8 (0) | 4.8 (0) | 5.6 (0) | 9.6 (1) | 12.6 (1) | | |
| Available Potassium (Index) | mg/l | 162 (2-) | 119 (1) | 119 (1) | 126 (2-) | 220 (2+) | 194 (2+) | 398 (3) | 92.7 (1) | | |
| Available Magnesium (Index) | mg/l | 108 (3) | 37.6 (1) | 43.2 (1) | 52.6 (2) | 54.5 (2) | 80.3 (2) | 76.2 (2) | 46.1 (1) | | |
| Sand 2.00-0.063mm | % w/w | 55 | 60 | 51 | 55 | 49 | 56 | 42 | 70 | | |
| Silt 0.063-0.002mm | % w/w | 17 | 19 | 21 | 17 | 20 | 20 | 22 | 11 | | |
| Clay <0.002mm | % w/w | 28 | 21 | 28 | 28 | 31 | 24 | 36 | 19 | | |
| Organic Matter LOI | % w/w | 4.3 | 3.4 | 3.7 | 3.7 | 4.2 | 4.1 | 5.5 | 4.2 | | |
| Textural Class ** | | SCL | SCL | SCL | SCL | HCL/SC | SCL | C | SCL | | |

**Notes**

Analysis Notes

The sample submitted was of adequate size to complete all analysis requested.
The results as reported relate only to the item(s) submitted for testing.
The results are presented on a dry matter basis unless otherwise stipulated.

Document Control

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** Please see the attached document for the definition of textural classes.

Reported by

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## ANALYTICAL REPORT

| | | | |
|---|---|---|---|
| **Report Number** | **56410-24** | **H448** | **WARDELL ARMSTRONG LLP** |
| **Date Received** | **01-OCT-2024** | | **CITY QUADRANT** |
| **Date Reported** | **21-OCT-2024** | | **11 WATERLOO SQUARE** |
| **Project** | **ST19595STEM** | | **NEWCASTLE UPON TYNE** |
| **Reference** | **SIDDHARTHA OSWALL** | | **NE1 4DP** |
| **Order Number** | **CA12057** | | |

| **Laboratory Reference** | | **SOIL714438** | **SOIL714439** | **SOIL714440** | **SOIL714441** | **SOIL714442** | **SOIL714443** | **SOIL714444** | **SOIL714445** | **SOIL714446** | **SOIL714447** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Reference** | | **POINT 5 H2** | **POINT 28 H2** | **POINT 39 H2** | **POINT 52 H2** | **POINT 78 H2** | **POINT 78 H3** | **POINT 85 H2** | **POINT 85 H3** | **POINT 105 H2** | **POINT 118 H2** |
| **Determinand** | **Unit** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** | **SOIL** |
| pH water [1:2.5] | | 8.3 | 8.5 | 8.4 | 8.4 | 8.2 | 8.5 | 7.9 | 8.3 | 8.3 | 8.0 |
| Sand 2.00-0.063mm | % w/w | 50 | 58 | 42 | 52 | 45 | 26 | 42 | 24 | 38 | 63 |
| Silt 0.063-0.002mm | % w/w | 19 | 20 | 27 | 20 | 22 | 35 | 17 | 30 | 46 | 13 |
| Clay <0.002mm | % w/w | 31 | 22 | 31 | 28 | 33 | 39 | 41 | 46 | 16 | 24 |
| Textural Class ** | | SC | SCL | HCL | SCL | HCL | C | C | C | SZL | SCL |

**Notes**

Analysis Notes

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The results as reported relate only to the item(s) submitted for testing.
The results are presented on a dry matter basis unless otherwise stipulated.

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# ADAS (UK) Textural Class Abbreviations

The texture classes are denoted by the following abbreviations:

| Class | Code |
|---|---|
| Sand | S |
| Loamy sand | LS |
| Sandy loam | SL |
| Sandy Silt loam | SZL |
| Silt loam | ZL |
| Sandy clay loam | SCL |
| Clay loam | CL |
| Silt clay loam | ZCL |
| Clay | C |
| Silty clay | ZC |
| Sandy clay | SC |

For the *sand, loamy sand, sandy loam* and *sandy silt loam* classes the predominant size of sand fraction may be indicated by the use of prefixes, thus:

- vf Very Fine (more than 2/3's of sand less than 0.106 mm)
- f Fine (more than 2/3's of sand less than 0.212 mm)
- c Coarse (more than 1/3 of sand greater than 0.6 mm)
- m Medium (less than 2/3's fine sand and less than 1/3 coarse sand).

The subdivisions of *clay loam* and *silty clay loam classes* according to clay content are indicated as follows:

- M medium (less than 27% clay)
- H heavy (27-35% clay)

Organic soils i.e. those with an organic matter greater than 10% will be preceded with a letter O.

Peaty soils i.e. those with an organic matter greater than 20% will be preceded with a letter P.

# APPENDIX 3 - DROUGHTINESS CALCULATIONS

## Droughtiness Calculations

**Abbreviations:**

TAv – Total amount of soil water available to plants, considered to be the volumetric soil water content between 0.05 and 15 bar suction or, in case of sands and loamy sands, 0.10 and 15 bar suction. These suctions approximate to the conditions of field capacity and wilting point (when the plants can extract no more moisture from the soil).

EAv – Easily available water, held in the soil between 0.05 and 2.0 bar suction, used for calculating cereal available water below 50 cm depth where root systems are less well developed, and the plant's ability to extract water is diminished.

Values of TAv and EAv are estimated for each horizon based on soil texture and structural condition according to the ALC guidelines (MAFF, 1988).

AP – crop adjusted available water capacity, a measure of the quantity of water held in the soil profile which can be taken up by a specific crop.

MD – the moisture deficit term used in the ALC droughtiness assessment is a crop-related meteorological variable which represents the balance between rainfall and potential evapotranspiration calculated over a critical portion of the growing season.

MB – moisture balance: MB=AP-MD, MB for wheat and potatoes determines limitation by droughtiness

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 1 | 1 | 32 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 32 | 32 | 17 | 100 | 0 | 0 | 544 | | | 0 | 32 | 32 | 17 | 100 | 0 | 0 | 544 | | | |
| | | | | | | | | | | EAv | 0 | 32 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 28 | SC | 5 | POOR | 13 | 8 | 1.0 | 0.5 | TAv | 32 | 60 | 18 | 13 | 95 | 1 | 5 | 223 | | | 32 | 60 | 28 | 13 | 95 | 1 | 5 | 347 | | | |
| | | | | | | | | | | EAv | 32 | 60 | 10 | 8 | 95 | 1 | 5 | 76 | | | | | | | | | | | | |
| | 3 | 35 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 60 | 95 | 0 | 13 | 95 | 10 | 5 | 0 | 121 | 8 | 60 | 95 | 10 | 13 | 95 | 10 | 5 | 129 | 102 | -5 | 2 |
| | | | | | | | | | | EAv | 60 | 95 | 35 | 7 | 95 | 7 | 5 | 245 | | | | | | | | | | | | |
| | 4 | 25 | MS | 0 | GOOD | 7 | 5 | | | TAv | 95 | 120 | 0 | 7 | 100 | 0 | 0 | 0 | | | 95 | 120 | 0 | 7 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 95 | 120 | 25 | 5 | 100 | 0 | 0 | 125 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 2 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 30 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 35 | 65 | 15 | 12 | 95 | 1 | 5 | 172 | | | 35 | 65 | 30 | 12 | 95 | 1 | 5 | 344 | | | |
| | | | | | | | | | | EAv | 35 | 65 | 15 | 7 | 95 | 1 | 5 | 100 | | | | | | | | | | | | |
| | 3 | 45 | HCL | 5 | POOR | 12 | 7 | 10.0 | 7.0 | TAv | 65 | 110 | 0 | 12 | 95 | 10 | 5 | 0 | 118 | 5 | 65 | 110 | 5 | 12 | 95 | 10 | 5 | 60 | 100 | -7 | 3a |
| | | | | | | | | | | EAv | 65 | 110 | 45 | 7 | 95 | 7 | 5 | 315 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 3 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 15 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 30 | 45 | 15 | 15 | 100 | 0 | 0 | 225 | | | 30 | 45 | 15 | 15 | 100 | 0 | 0 | 225 | | | |
| | | | | | | | | | | EAv | 30 | 45 | 0 | 10 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 3 | 25 | MSL | 0 | MODERATE | 15 | 11 | | | TAv | 45 | 70 | 5 | 15 | 100 | 0 | 0 | 75 | 103 | -10 | 45 | 70 | 25 | 15 | 100 | 0 | 0 | 375 | 111 | 4 | 3a |
| | | | | | | | | | | EAv | 45 | 70 | 20 | 11 | 100 | 0 | 0 | 220 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 4 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 45 | SC | 0 | POOR | 13 | 8 | | | TAv | 35 | 80 | 15 | 13 | 100 | 0 | 0 | 195 | | | 35 | 80 | 35 | 13 | 100 | 0 | 0 | 455 | | | |
| | | | | | | | | | | EAv | 35 | 80 | 30 | 8 | 100 | 0 | 0 | 240 | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 103 | -10 | | | | | | | | | 105 | -2 | 3a |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 5 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 28 | SC | 5 | POOR | 13 | 8 | 1.0 | 0.5 | TAv | 37 | 65 | 13 | 13 | 95 | 1 | 5 | 161 | | | 37 | 65 | 28 | 13 | 95 | 1 | 5 | 347 | | | |
| | | | | | | | | | | EAv | 37 | 65 | 15 | 8 | 95 | 1 | 5 | 114 | | | | | | | | | | | | |
| | 3 | 55 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 65 | 120 | 0 | 13 | 95 | 10 | 5 | 0 | 129 | 15 | 65 | 120 | 5 | 13 | 95 | 10 | 5 | 64 | 104 | -3 | 2 |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 95 | 7 | 5 | 385 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 6 | 1 | 32 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 32 | 32 | 17 | 100 | 0 | 0 | 544 | | | 0 | 32 | 32 | 17 | 100 | 0 | 0 | 544 | | | |
| | | | | | | | | | | EAv | 0 | 32 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 35 | HCL | 5 | POOR | 12 | 7 | 10.0 | 7.0 | TAv | 32 | 67 | 18 | 12 | 95 | 10 | 5 | 214 | | | 32 | 67 | 35 | 12 | 95 | 10 | 5 | 417 | | | |
| | | | | | | | | | | EAv | 32 | 67 | 17 | 7 | 95 | 7 | 5 | 119 | | | | | | | | | | | | |
| | 3 | 38 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 67 | 105 | 0 | 13 | 95 | 10 | 5 | 0 | 114 | 1 | 67 | 105 | 3 | 13 | 95 | 10 | 5 | 39 | 100 | -7 | 3a |
| | | | | | | | | | | EAv | 67 | 105 | 38 | 7 | 95 | 7 | 5 | 266 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 7 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 15 | SCL | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 30 | 45 | 15 | 15 | 95 | 1 | 5 | 215 | | | 30 | 45 | 15 | 15 | 95 | 1 | 5 | 215 | | | |
| | | | | | | | | | | EAv | 30 | 45 | 0 | 10 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 3 | 40 | MSL | 0 | MODERATE | 15 | 11 | | | TAv | 45 | 85 | 5 | 15 | 100 | 0 | 0 | 75 | 118 | 5 | 45 | 85 | 25 | 15 | 100 | 0 | 0 | 375 | 110 | 3 | 3a |
| | | | | | | | | | | EAv | 45 | 85 | 35 | 11 | 100 | 0 | 0 | 385 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 8 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 25 | SCL | 0 | GOOD | 19 | 14 | | | TAv | 30 | 55 | 20 | 19 | 100 | 0 | 0 | 380 | | | 30 | 55 | 25 | 19 | 100 | 0 | 0 | 475 | | | |
| | | | | | | | | | | EAv | 30 | 55 | 5 | 14 | 100 | 0 | 0 | 70 | | | | | | | | | | | | |
| | 3 | 25 | SCL | 0 | GOOD | 19 | 14 | | | TAv | 55 | 80 | 0 | 19 | 100 | 0 | 0 | 0 | 131 | 18 | 55 | 80 | 15 | 19 | 100 | 0 | 0 | 285 | 127 | 20 | 2 |
| | | | | | | | | | | EAv | 55 | 80 | 25 | 14 | 100 | 0 | 0 | 350 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 9 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 40 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 30 | 70 | 20 | 16 | 95 | 1 | 5 | 305 | | | 30 | 70 | 40 | 16 | 95 | 1 | 5 | 610 | | | |
| | | | | | | | | | | EAv | 30 | 70 | 20 | 10 | 95 | 1 | 5 | 191 | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | 101 | -13 | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | 112 | 5 | 3a |
| | | | | | | | | | | EAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 70 | 70 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 10 | 1 | 26 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 26 | 26 | 17 | 95 | 1 | 5 | 421 | | | 0 | 26 | 26 | 17 | 95 | 1 | 5 | 421 | | | |
| | | | | | | | | | | EAv | 0 | 26 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 2 | 22 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 26 | 48 | 22 | 12 | 95 | 1 | 5 | 252 | | | 26 | 48 | 22 | 12 | 95 | 1 | 5 | 252 | | | |
| | | | | | | | | | | EAv | 26 | 48 | 0 | 7 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 3 | 67 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 48 | 115 | 2 | 13 | 90 | 10 | 10 | 25 | 115 | 2 | 48 | 115 | 22 | 13 | 90 | 10 | 10 | 279 | 95 | -12 | 3a |
| | | | | | | | | | | EAv | 48 | 115 | 65 | 7 | 90 | 7 | 10 | 455 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 11 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 35 | SC | 0 | POOR | 13 | 8 | | | TAv | 35 | 70 | 15 | 13 | 100 | 0 | 0 | 195 | | | 35 | 70 | 35 | 13 | 100 | 0 | 0 | 455 | | | |
| | | | | | | | | | | EAv | 35 | 70 | 20 | 8 | 100 | 0 | 0 | 160 | | | | | | | | | | | | |
| | 3 | 15 | C | 0 | POOR | 13 | 7 | | | TAv | 70 | 85 | 0 | 13 | 100 | 0 | 0 | 0 | 106 | -8 | 70 | 85 | 0 | 13 | 100 | 0 | 0 | 0 | 105 | -2 | 3a |
| | | | | | | | | | | EAv | 70 | 85 | 15 | 7 | 100 | 0 | 0 | 105 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 12 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 35 | C | 0 | POOR | 13 | 7 | | | TAv | 35 | 70 | 15 | 13 | 100 | 0 | 0 | 195 | | | 35 | 70 | 35 | 13 | 100 | 0 | 0 | 455 | | | |
| | | | | | | | | | | EAv | 35 | 70 | 20 | 7 | 100 | 0 | 0 | 140 | | | | | | | | | | | | |
| | 3 | 15 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 70 | 85 | 0 | 13 | 90 | 10 | 10 | 0 | 104 | -10 | 70 | 85 | 0 | 13 | 90 | 10 | 10 | 0 | 105 | -2 | 3a |
| | | | | | | | | | | EAv | 70 | 85 | 15 | 7 | 90 | 7 | 10 | 105 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 13 | 1 | 35 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 2 | 35 | SCL | 0 | POOR | 13 | 8 | | | TAv | 35 | 70 | 15 | 13 | 100 | 0 | 0 | 195 | | | 35 | 70 | 35 | 13 | 100 | 0 | 0 | 455 | | | |
| | | | | | | | | | | EAv | 35 | 70 | 20 | 8 | 100 | 0 | 0 | 160 | | | | | | | | | | | | |
| | 3 | 15 | SCL | 10 | POOR | 13 | 8 | 10.0 | 7.0 | TAv | 70 | 85 | 0 | 13 | 90 | 10 | 10 | 0 | 104 | -9 | 70 | 85 | 0 | 13 | 90 | 10 | 10 | 0 | 102 | -5 | 3a |
| | | | | | | | | | | EAv | 70 | 85 | 15 | 8 | 90 | 7 | 10 | 119 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 14 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 30 | HCL | 0 | POOR | 12 | 7 | | | TAv | 30 | 60 | 20 | 12 | 100 | 0 | 0 | 240 | | | 30 | 60 | 30 | 12 | 100 | 0 | 0 | 360 | | | |
| | | | | | | | | | | EAv | 30 | 60 | 10 | 7 | 100 | 0 | 0 | 70 | | | | | | | | | | | | |
| | 3 | 20 | C | 0 | POOR | 13 | 7 | | | TAv | 60 | 80 | 0 | 13 | 100 | 0 | 0 | 0 | 96 | -17 | 60 | 80 | 10 | 13 | 100 | 0 | 0 | 130 | 100 | -7 | 3a |
| | | | | | | | | | | EAv | 60 | 80 | 20 | 7 | 100 | 0 | 0 | 140 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 15 | 1 | 32 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 32 | 32 | 17 | 100 | 0 | 0 | 544 | | | 0 | 32 | 32 | 17 | 100 | 0 | 0 | 544 | | | |
| | | | | | | | | | | EAv | 0 | 32 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 48 | MSL | 5 | GOOD | 17 | 13 | 1.0 | 0.5 | TAv | 32 | 80 | 18 | 17 | 95 | 1 | 5 | 292 | | | 32 | 80 | 38 | 17 | 95 | 1 | 5 | 616 | | | |
| | | | | | | | | | | EAv | 32 | 80 | 30 | 13 | 95 | 1 | 5 | 371 | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 121 | 7 | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 116 | 9 | 2 |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 16 | 1 | 35 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 2 | 27 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 35 | 62 | 15 | 16 | 100 | 0 | 0 | 240 | | | 35 | 62 | 27 | 16 | 100 | 0 | 0 | 432 | | | |
| | | | | | | | | | | EAv | 35 | 62 | 12 | 10 | 100 | 0 | 0 | 120 | | | | | | | | | | | | |
| | 3 | 48 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 62 | 110 | 0 | 13 | 95 | 10 | 5 | 0 | 126 | 13 | 62 | 110 | 8 | 13 | 95 | 10 | 5 | 103 | 110 | 3 | 2 |
| | | | | | | | | | | EAv | 62 | 110 | 48 | 7 | 95 | 7 | 5 | 336 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 17 | 1 | 38 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 37 | HCL | 0 | POOR | 12 | 7 | | | TAv | 38 | 75 | 12 | 12 | 100 | 0 | 0 | 144 | | | 38 | 75 | 32 | 12 | 100 | 0 | 0 | 384 | | | |
| | | | | | | | | | | EAv | 38 | 75 | 25 | 7 | 100 | 0 | 0 | 175 | | | | | | | | | | | | |
| | 3 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 75 | 105 | 0 | 13 | 100 | 0 | 0 | 0 | 118 | 4 | 75 | 105 | 0 | 13 | 100 | 0 | 0 | 0 | 103 | -4 | 3a |
| | | | | | | | | | | EAv | 75 | 105 | 30 | 7 | 100 | 0 | 0 | 210 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 18 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 45 | SCL | 0 | POOR | 13 | 8 | | | TAv | 35 | 80 | 15 | 13 | 100 | 0 | 0 | 195 | | | 35 | 80 | 35 | 13 | 100 | 0 | 0 | 455 | | | |
| | | | | | | | | | | EAv | 35 | 80 | 30 | 8 | 100 | 0 | 0 | 240 | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 103 | -10 | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 105 | -2 | 3a |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 19 | 1 | 30 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 17 | 95 | 1 | 5 | 486 | | | 0 | 30 | 30 | 17 | 95 | 1 | 5 | 486 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 2 | 58 | SC | 5 | POOR | 13 | 8 | 1.0 | 0.5 | TAv | 30 | 88 | 20 | 13 | 95 | 1 | 5 | 248 | | | 30 | 88 | 40 | 13 | 95 | 1 | 5 | 496 | | | |
| | | | | | | | | | | EAv | 30 | 88 | 38 | 8 | 95 | 1 | 5 | 290 | | | | | | | | | | | | |
| | 3 | 27 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 88 | 115 | 0 | 13 | 95 | 10 | 5 | 0 | 121 | 8 | 88 | 115 | 0 | 13 | 95 | 10 | 5 | 0 | 98 | -9 | 2 |
| | | | | | | | | | | EAv | 88 | 115 | 27 | 7 | 95 | 7 | 5 | 189 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 20 | 1 | 33 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 33 | 33 | 17 | 100 | 0 | 0 | 561 | | | 0 | 33 | 33 | 17 | 100 | 0 | 0 | 561 | | | |
| | | | | | | | | | | EAv | 0 | 33 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 47 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 33 | 80 | 17 | 15 | 100 | 0 | 0 | 255 | | | 33 | 80 | 37 | 15 | 100 | 0 | 0 | 555 | | | |
| | | | | | | | | | | EAv | 33 | 80 | 30 | 10 | 100 | 0 | 0 | 300 | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 112 | -2 | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 112 | 4 | 3a |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 21 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 50 | C | 0 | POOR | 13 | 7 | | | TAv | 30 | 80 | 20 | 13 | 100 | 0 | 0 | 260 | | | 30 | 80 | 40 | 13 | 100 | 0 | 0 | 520 | | | |
| | | | | | | | | | | EAv | 30 | 80 | 30 | 7 | 100 | 0 | 0 | 210 | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 98 | -15 | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 103 | -4 | 3a |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |

| Data inputs | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 22 | 1 | 28 | SCL | 10 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 28 | 28 | 17 | 90 | 1 | 10 | 431 | | | | 0 | 28 | 28 | 17 | 90 | 1 | 10 | 431 | | | | |
| | | | | | | | | | | EAv | 0 | 28 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | |
| | 2 | 22 | SCL | 10 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 28 | 50 | 22 | 15 | 90 | 1 | 10 | 299 | | | | 28 | 50 | 22 | 15 | 90 | 1 | 10 | 299 | | | | |
| | | | | | | | | | | EAv | 28 | 50 | 0 | 10 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | |
| | 3 | 60 | HCL | 10 | POOR | 12 | 7 | 10.0 | 7.0 | TAv | 50 | 110 | 0 | 12 | 90 | 10 | 10 | 0 | 115 | 2 | | 50 | 110 | 20 | 12 | 90 | 10 | 10 | 236 | 97 | -11 | 3a | |
| | | | | | | | | | | EAv | 50 | 110 | 60 | 7 | 90 | 7 | 10 | 420 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 23 | 1 | 33 | MSL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 33 | 33 | 17 | 95 | 1 | 5 | 535 | | | | 0 | 33 | 33 | 17 | 95 | 1 | 5 | 535 | | | | |
| | | | | | | | | | | EAv | 0 | 33 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | |
| | 2 | 22 | MSL | 5 | GOOD | 17 | 13 | 1.0 | 0.5 | TAv | 33 | 55 | 17 | 17 | 95 | 1 | 5 | 275 | | | | 33 | 55 | 22 | 17 | 95 | 1 | 5 | 356 | | | | |
| | | | | | | | | | | EAv | 33 | 55 | 5 | 13 | 95 | 1 | 5 | 62 | | | | | | | | | | | | | | |
| | 3 | 65 | LFS | 0 | GOOD | 15 | 13 | | | TAv | 55 | 120 | 0 | 15 | 100 | 0 | 0 | 0 | 172 | 58 | | 55 | 120 | 15 | 15 | 100 | 0 | 0 | 225 | 112 | 4 | 2 | |
| | | | | | | | | | | EAv | 55 | 120 | 65 | 13 | 100 | 0 | 0 | 845 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 24 | 1 | 36 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 36 | 36 | 17 | 95 | 1 | 5 | 583 | | | | 0 | 36 | 36 | 17 | 95 | 1 | 5 | 583 | | | | |
| | | | | | | | | | | EAv | 0 | 36 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | |
| | 2 | 23 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 36 | 59 | 14 | 12 | 95 | 1 | 5 | 160 | | | | 36 | 59 | 23 | 12 | 95 | 1 | 5 | 263 | | | | |
| | | | | | | | | | | EAv | 36 | 59 | 9 | 7 | 95 | 1 | 5 | 60 | | | | | | | | | | | | | | |
| | 3 | 46 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 59 | 105 | 0 | 13 | 90 | 10 | 10 | 0 | 113 | -1 | | 59 | 105 | 11 | 13 | 90 | 10 | 10 | 140 | 99 | -9 | 3a | |
| | | | | | | | | | | EAv | 59 | 105 | 46 | 7 | 90 | 7 | 10 | 322 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 25 | 1 | 30 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 17 | 95 | 1 | 5 | 486 | | | | 0 | 30 | 30 | 17 | 95 | 1 | 5 | 486 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | |
| | 2 | 40 | SCL | 0 | POOR | 13 | 8 | | | TAv | 30 | 70 | 20 | 13 | 100 | 0 | 0 | 260 | | | | 30 | 70 | 40 | 13 | 100 | 0 | 0 | 520 | | | | |
| | | | | | | | | | | EAv | 30 | 70 | 20 | 8 | 100 | 0 | 0 | 160 | | | | | | | | | | | | | | |
| | 3 | 20 | SCL | 10 | POOR | 13 | 8 | 10.0 | 7.0 | TAv | 70 | 90 | 0 | 13 | 90 | 10 | 10 | 0 | 106 | -7 | | 70 | 90 | 0 | 13 | 90 | 10 | 10 | 0 | 101 | -7 | 3a | |
| | | | | | | | | | | EAv | 70 | 90 | 20 | 8 | 90 | 7 | 10 | 158 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 26 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 2 | 15 | C | 0 | MODERATE | 16 | 8 | | | TAv | 30 | 45 | 15 | 16 | 100 | 0 | 0 | 240 | | | | 30 | 45 | 15 | 16 | 100 | 0 | 0 | 240 | | | | |
| | | | | | | | | | | EAv | 30 | 45 | 0 | 8 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 3 | 20 | C | 0 | POOR | 13 | 7 | | | TAv | 45 | 65 | 5 | 13 | 100 | 0 | 0 | 65 | 131 | 17 | | 45 | 65 | 20 | 13 | 100 | 0 | 0 | 260 | 107 | 0 | 2 | |
| | | | | | | | | | | EAv | 45 | 65 | 15 | 7 | 100 | 0 | 0 | 105 | | | | | | | | | | | | | | |
| | 4 | 55 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 65 | 120 | 0 | 13 | 95 | 10 | 5 | 0 | | | | 65 | 120 | 5 | 13 | 95 | 10 | 5 | 64 | | | | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 95 | 7 | 5 | 385 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 27 | 1 | 28 | SCL | 10 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 28 | 28 | 17 | 90 | 1 | 10 | 431 | | | | 0 | 28 | 28 | 17 | 90 | 1 | 10 | 431 | | | | |
| | | | | | | | | | | EAv | 0 | 28 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | |
| | 2 | 23 | MCL | 10 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 28 | 51 | 22 | 16 | 90 | 1 | 10 | 319 | | | | 28 | 51 | 23 | 16 | 90 | 1 | 10 | 334 | | | | |
| | | | | | | | | | | EAv | 28 | 51 | 1 | 10 | 90 | 1 | 10 | 9 | | | | | | | | | | | | | | |
| | 3 | 59 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 51 | 110 | 0 | 13 | 90 | 10 | 10 | 0 | 117 | 4 | | 51 | 110 | 19 | 13 | 90 | 10 | 10 | 241 | 101 | -7 | 3a | |
| | | | | | | | | | | EAv | 51 | 110 | 59 | 7 | 90 | 7 | 10 | 413 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 28 | 1 | 35 | SCL | 10 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 35 | 35 | 17 | 90 | 1 | 10 | 539 | | | | 0 | 35 | 35 | 17 | 90 | 1 | 10 | 539 | | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | |
| | 2 | 37 | SCL | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 35 | 72 | 15 | 15 | 95 | 1 | 5 | 215 | | | | 35 | 72 | 35 | 15 | 95 | 1 | 5 | 501 | | | | |
| | | | | | | | | | | EAv | 35 | 72 | 22 | 10 | 95 | 1 | 5 | 210 | | | | | | | | | | | | | | |
| | 3 | 28 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 72 | 100 | 0 | 13 | 90 | 10 | 10 | 0 | 116 | 2 | | 72 | 100 | 0 | 13 | 90 | 10 | 10 | 0 | 104 | -3 | 3a | |
| | | | | | | | | | | EAv | 72 | 100 | 28 | 7 | 90 | 7 | 10 | 196 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 29 | 1 | 33 | MSL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 33 | 33 | 17 | 95 | 1 | 5 | 535 | | | 0 | 33 | 33 | 17 | 95 | 1 | 5 | 535 | | | | | | |
| | | | | | | | | | | EAv | 0 | 33 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 17 | MSL | 5 | GOOD | 17 | 13 | 1.0 | 0.5 | TAv | 33 | 50 | 17 | 17 | 95 | 1 | 5 | 275 | | | 33 | 50 | 17 | 17 | 95 | 1 | 5 | 275 | | | | | | |
| | | | | | | | | | | EAv | 33 | 50 | 0 | 13 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 3 | 40 | FS | 0 | GOOD | 14 | 12 | | | TAv | 50 | 90 | 0 | 14 | 100 | 0 | 0 | 0 | 153 | 40 | 50 | 90 | 20 | 14 | 100 | 0 | 0 | 280 | 109 | 2 | 2 | | | |
| | | | | | | | | | | EAv | 50 | 90 | 40 | 12 | 100 | 0 | 0 | 480 | | | | | | | | | | | | | | | |
| | 4 | 20 | FS | 0 | GOOD | 14 | 12 | | | TAv | 90 | 110 | 0 | 14 | 100 | 0 | 0 | 0 | | | 90 | 110 | 0 | 14 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 90 | 110 | 20 | 12 | 100 | 0 | 0 | 240 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 30 | 1 | 38 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 34 | C | 0 | POOR | 13 | 7 | | | TAv | 38 | 72 | 12 | 13 | 100 | 0 | 0 | 156 | | | 38 | 72 | 32 | 13 | 100 | 0 | 0 | 416 | | | | | | |
| | | | | | | | | | | EAv | 38 | 72 | 22 | 7 | 100 | 0 | 0 | 154 | | | | | | | | | | | | | | | |
| | 3 | 48 | C | 0 | POOR | 13 | 7 | | | TAv | 72 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 129 | 16 | 72 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 106 | -1 | 2 | | | |
| | | | | | | | | | | EAv | 72 | 120 | 48 | 7 | 100 | 0 | 0 | 336 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 31 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 27 | C | 0 | POOR | 13 | 7 | | | TAv | 37 | 64 | 13 | 13 | 100 | 0 | 0 | 169 | | | 37 | 64 | 27 | 13 | 100 | 0 | 0 | 351 | | | | | | |
| | | | | | | | | | | EAv | 37 | 64 | 14 | 7 | 100 | 0 | 0 | 98 | | | | | | | | | | | | | | | |
| | 3 | 56 | C | 0 | POOR | 13 | 7 | | | TAv | 64 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 129 | 15 | 64 | 120 | 6 | 13 | 100 | 0 | 0 | 78 | 106 | -1 | 2 | | | |
| | | | | | | | | | | EAv | 64 | 120 | 56 | 7 | 100 | 0 | 0 | 392 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 32 | 1 | 38 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 24 | HCL | 0 | POOR | 12 | 7 | | | TAv | 38 | 62 | 12 | 12 | 100 | 0 | 0 | 144 | | | 38 | 62 | 24 | 12 | 100 | 0 | 0 | 288 | | | | | | |
| | | | | | | | | | | EAv | 38 | 62 | 12 | 7 | 100 | 0 | 0 | 84 | | | | | | | | | | | | | | | |
| | 3 | 20 | SC | 0 | GOOD | 19 | 14 | | | TAv | 62 | 82 | 0 | 19 | 100 | 0 | 0 | 0 | 172 | 59 | 62 | 82 | 8 | 19 | 100 | 0 | 0 | 152 | 109 | 1 | 2 | | | |
| | | | | | | | | | | EAv | 62 | 82 | 20 | 14 | 100 | 0 | 0 | 280 | | | | | | | | | | | | | | | |
| | 4 | 38 | C | 0 | GOOD | 21 | 15 | | | TAv | 82 | 120 | 0 | 21 | 100 | 0 | 0 | 0 | | | 82 | 120 | 0 | 21 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 82 | 120 | 38 | 15 | 100 | 0 | 0 | 570 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 33 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 28 | C | 0 | POOR | 13 | 7 | | | TAv | 37 | 65 | 13 | 13 | 100 | 0 | 0 | 169 | | | 37 | 65 | 28 | 13 | 100 | 0 | 0 | 364 | | | | | | |
| | | | | | | | | | | EAv | 37 | 65 | 15 | 7 | 100 | 0 | 0 | 105 | | | | | | | | | | | | | | | |
| | 3 | 55 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 65 | 120 | 0 | 13 | 95 | 10 | 5 | 0 | 129 | 15 | 65 | 120 | 5 | 13 | 95 | 10 | 5 | 64 | 106 | -1 | 2 | | | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 95 | 7 | 5 | 385 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 34 | 1 | 31 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 31 | 31 | 17 | 95 | 1 | 5 | 502 | | | 0 | 31 | 31 | 17 | 95 | 1 | 5 | 502 | | | | | | |
| | | | | | | | | | | EAv | 0 | 31 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 15 | HCL | 5 | POOR | 12 | 7 | 10.0 | 7.0 | TAv | 31 | 46 | 15 | 12 | 95 | 10 | 5 | 179 | | | 31 | 46 | 15 | 12 | 95 | 10 | 5 | 179 | | | | | | |
| | | | | | | | | | | EAv | 31 | 46 | 0 | 7 | 95 | 7 | 5 | 0 | | | | | | | | | | | | | | | |
| | 3 | 40 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 46 | 86 | 4 | 15 | 100 | 0 | 0 | 60 | 127 | 13 | 46 | 86 | 24 | 15 | 100 | 0 | 0 | 360 | 104 | -3 | 2 | | | |
| | | | | | | | | | | EAv | 46 | 86 | 36 | 10 | 100 | 0 | 0 | 360 | | | | | | | | | | | | | | | |
| | 4 | 24 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 86 | 110 | 0 | 13 | 90 | 10 | 10 | 0 | | | 86 | 110 | 0 | 13 | 90 | 10 | 10 | 0 | | | | | | |
| | | | | | | | | | | EAv | 86 | 110 | 24 | 7 | 90 | 7 | 10 | 168 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 36 | 1 | 38 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 27 | C | 0 | POOR | 13 | 7 | | | TAv | 38 | 65 | 12 | 13 | 100 | 0 | 0 | 156 | | | 38 | 65 | 27 | 13 | 100 | 0 | 0 | 351 | | | | | | |
| | | | | | | | | | | EAv | 38 | 65 | 15 | 7 | 100 | 0 | 0 | 105 | | | | | | | | | | | | | | | |
| | 3 | 55 | C | 0 | POOR | 13 | 7 | | | TAv | 65 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 129 | 16 | 65 | 120 | 5 | 13 | 100 | 0 | 0 | 65 | 106 | -1 | 2 | | | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 100 | 0 | 0 | 385 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 35 | 1 | 32 | SCL | 10 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 32 | 32 | 17 | 90 | 1 | 10 | 493 | | | 0 | 32 | 32 | 17 | 90 | 1 | 10 | 493 | | | | |
| | | | | | | | | | | EAv | 0 | 32 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | |
| | 2 | 43 | SCL | 10 | GOOD | 19 | 14 | 1.0 | 0.5 | TAv | 32 | 75 | 18 | 19 | 90 | 1 | 10 | 310 | | | 32 | 75 | 38 | 19 | 90 | 1 | 10 | 654 | | | | |
| | | | | | | | | | | EAv | 32 | 75 | 25 | 14 | 90 | 1 | 10 | 316 | | | | | | | | | | | | | |
| | 3 | 35 | SC | 10 | POOR | 13 | 8 | 10.0 | 7.0 | TAv | 75 | 110 | 0 | 13 | 90 | 10 | 10 | 0 | 140 | 26 | 75 | 110 | 0 | 13 | 90 | 10 | 10 | 0 | 115 | 7 | 2 | |
| | | | | | | | | | | EAv | 75 | 110 | 35 | 8 | 90 | 7 | 10 | 277 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 37 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 15 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 35 | 50 | 15 | 16 | 100 | 0 | 0 | 240 | | | 35 | 50 | 15 | 16 | 100 | 0 | 0 | 240 | | | | |
| | | | | | | | | | | EAv | 35 | 50 | 0 | 10 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 3 | 35 | C | 0 | POOR | 13 | 7 | | | TAv | 50 | 85 | 0 | 13 | 100 | 0 | 0 | 0 | 133 | 19 | 50 | 85 | 20 | 13 | 100 | 0 | 0 | 260 | 110 | 2 | 2 | |
| | | | | | | | | | | EAv | 50 | 85 | 35 | 7 | 100 | 0 | 0 | 245 | | | | | | | | | | | | | |
| | 4 | 35 | C | 0 | POOR | 13 | 7 | | | TAv | 85 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | 85 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 85 | 120 | 35 | 7 | 100 | 0 | 0 | 245 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 38 | 1 | 42 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | | |
| | | | | | | | | | | EAv | 0 | 42 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 16 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 42 | 58 | 8 | 13 | 95 | 10 | 5 | 103 | | | 42 | 58 | 16 | 13 | 95 | 10 | 5 | 206 | | | | |
| | | | | | | | | | | EAv | 42 | 58 | 8 | 7 | 95 | 7 | 5 | 56 | | | | | | | | | | | | | |
| | 3 | 52 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 58 | 110 | 0 | 13 | 95 | 10 | 5 | 0 | 134 | 20 | 58 | 110 | 12 | 13 | 95 | 10 | 5 | 154 | 107 | 0 | 2 | |
| | | | | | | | | | | EAv | 58 | 110 | 52 | 7 | 95 | 7 | 5 | 364 | | | | | | | | | | | | | |
| | 4 | 10 | SC | 5 | MODERATE | 15 | 10 | 10.0 | 7.0 | TAv | 110 | 120 | 0 | 15 | 95 | 10 | 5 | 0 | | | 110 | 120 | 0 | 15 | 95 | 10 | 5 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 120 | 10 | 10 | 95 | 7 | 5 | 99 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 39 | 1 | 43 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 43 | 43 | 17 | 100 | 0 | 0 | 731 | | | 0 | 43 | 43 | 17 | 100 | 0 | 0 | 731 | | | | |
| | | | | | | | | | | EAv | 0 | 43 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 22 | HCL | 5 | POOR | 12 | 7 | 10.0 | 7.0 | TAv | 43 | 65 | 7 | 12 | 95 | 10 | 5 | 83 | | | 43 | 65 | 22 | 12 | 95 | 10 | 5 | 262 | | | | |
| | | | | | | | | | | EAv | 43 | 65 | 15 | 7 | 95 | 7 | 5 | 105 | | | | | | | | | | | | | |
| | 3 | 55 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 65 | 120 | 0 | 13 | 95 | 10 | 5 | 0 | 130 | 17 | 65 | 120 | 5 | 13 | 95 | 10 | 5 | 64 | 106 | -1 | 2 | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 95 | 7 | 5 | 385 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 40 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | HCL | 0 | POOR | 12 | 7 | | | TAv | 37 | 67 | 13 | 12 | 100 | 0 | 0 | 156 | | | 37 | 67 | 30 | 12 | 100 | 0 | 0 | 360 | | | | |
| | | | | | | | | | | EAv | 37 | 67 | 17 | 7 | 100 | 0 | 0 | 119 | | | | | | | | | | | | | |
| | 3 | 53 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 67 | 120 | 0 | 13 | 95 | 10 | 5 | 0 | 128 | 14 | 67 | 120 | 3 | 13 | 95 | 10 | 5 | 39 | 103 | -4 | 2 | |
| | | | | | | | | | | EAv | 67 | 120 | 53 | 7 | 95 | 7 | 5 | 371 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 41 | 1 | 25 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 25 | 25 | 17 | 100 | 0 | 0 | 425 | | | 0 | 25 | 25 | 17 | 100 | 0 | 0 | 425 | | | | |
| | | | | | | | | | | EAv | 0 | 25 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 20 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 25 | 45 | 20 | 15 | 100 | 0 | 0 | 300 | | | 25 | 45 | 20 | 15 | 100 | 0 | 0 | 300 | | | | |
| | | | | | | | | | | EAv | 25 | 45 | 0 | 10 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 3 | 35 | SCL | 5 | POOR | 13 | 8 | 10.0 | 7.0 | TAv | 45 | 80 | 5 | 13 | 95 | 10 | 5 | 64 | 103 | -11 | 45 | 80 | 25 | 13 | 95 | 10 | 5 | 321 | 105 | -3 | 3a | |
| | | | | | | | | | | EAv | 45 | 80 | 30 | 8 | 95 | 7 | 5 | 239 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 42 | 1 | 35 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 27 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 35 | 62 | 15 | 12 | 95 | 1 | 5 | 172 | | | 35 | 62 | 27 | 12 | 95 | 1 | 5 | 309 | | | | |
| | | | | | | | | | | EAv | 35 | 62 | 12 | 7 | 95 | 1 | 5 | 80 | | | | | | | | | | | | | |
| | 3 | 48 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 62 | 110 | 0 | 13 | 95 | 10 | 5 | 0 | 115 | 2 | 62 | 110 | 8 | 13 | 95 | 10 | 5 | 103 | 98 | -9 | 3a | |
| | | | | | | | | | | EAv | 62 | 110 | 48 | 7 | 95 | 7 | 5 | 336 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 43 | 1 | 25 | SCL | 15 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 25 | 25 | 17 | 85 | 1 | 15 | 365 | | | 0 | 25 | 25 | 17 | 85 | 1 | 15 | 365 | | | | | | |
| | | | | | | | | | | EAv | 0 | 25 | 0 | 0 | 85 | 1 | 15 | 0 | | | | | | | | | | | | | | | |
| | 2 | 33 | SC | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 25 | 58 | 25 | 15 | 95 | 1 | 5 | 358 | | | 25 | 58 | 33 | 15 | 95 | 1 | 5 | 472 | | | | | | |
| | | | | | | | | | | EAv | 25 | 58 | 8 | 10 | 95 | 1 | 5 | 76 | | | | | | | | | | | | | | | |
| | 3 | 52 | C | 15 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 58 | 110 | 0 | 13 | 85 | 10 | 15 | 0 | 116 | 3 | 58 | 110 | 12 | 13 | 85 | 10 | 15 | 151 | 99 | -8 | 3a | | | |
| | | | | | | | | | | EAv | 58 | 110 | 52 | 7 | 85 | 7 | 15 | 364 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 44 | 1 | 30 | SCL | 15 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 17 | 85 | 1 | 15 | 438 | | | 0 | 30 | 30 | 17 | 85 | 1 | 15 | 438 | | | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 85 | 1 | 15 | 0 | | | | | | | | | | | | | | | |
| | 2 | 31 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 30 | 61 | 20 | 16 | 95 | 1 | 5 | 305 | | | 30 | 61 | 31 | 16 | 95 | 1 | 5 | 473 | | | | | | |
| | | | | | | | | | | EAv | 30 | 61 | 11 | 10 | 95 | 1 | 5 | 105 | | | | | | | | | | | | | | | |
| | 3 | 44 | C | 15 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 61 | 105 | 0 | 13 | 85 | 10 | 15 | 0 | 116 | 2 | 61 | 105 | 9 | 13 | 85 | 10 | 15 | 113 | 102 | -5 | 3a | | | |
| | | | | | | | | | | EAv | 61 | 105 | 44 | 7 | 85 | 7 | 15 | 308 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 45 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 20 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 35 | 55 | 15 | 16 | 100 | 0 | 0 | 240 | | | 35 | 55 | 20 | 16 | 100 | 0 | 0 | 320 | | | | | | |
| | | | | | | | | | | EAv | 35 | 55 | 5 | 10 | 100 | 0 | 0 | 50 | | | | | | | | | | | | | | | |
| | 3 | 35 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 90 | 0 | 13 | 100 | 0 | 0 | 0 | 134 | 21 | 55 | 90 | 15 | 13 | 100 | 0 | 0 | 195 | 111 | 4 | 2 | | | |
| | | | | | | | | | | EAv | 55 | 90 | 35 | 7 | 100 | 0 | 0 | 245 | | | | | | | | | | | | | | | |
| | 4 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 90 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | 90 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 90 | 120 | 30 | 7 | 100 | 0 | 0 | 210 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 46 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 25 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 37 | 62 | 13 | 16 | 100 | 0 | 0 | 208 | | | 37 | 62 | 25 | 16 | 100 | 0 | 0 | 400 | | | | | | |
| | | | | | | | | | | EAv | 37 | 62 | 12 | 10 | 100 | 0 | 0 | 120 | | | | | | | | | | | | | | | |
| | 3 | 48 | C | 0 | POOR | 13 | 7 | | | TAv | 62 | 110 | 0 | 13 | 100 | 0 | 0 | 0 | 129 | 16 | 62 | 110 | 8 | 13 | 100 | 0 | 0 | 104 | 113 | 6 | 2 | | | |
| | | | | | | | | | | EAv | 62 | 110 | 48 | 7 | 100 | 0 | 0 | 336 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 47 | 1 | 42 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | | | | |
| | | | | | | | | | | EAv | 0 | 42 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 23 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 42 | 65 | 8 | 16 | 100 | 0 | 0 | 128 | | | 42 | 65 | 23 | 16 | 100 | 0 | 0 | 368 | | | | | | |
| | | | | | | | | | | EAv | 42 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | | | | |
| | 3 | 50 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 65 | 115 | 0 | 13 | 95 | 10 | 5 | 0 | 134 | 21 | 65 | 115 | 5 | 13 | 95 | 10 | 5 | 64 | 115 | 7 | 2 | | | |
| | | | | | | | | | | EAv | 65 | 115 | 50 | 7 | 95 | 7 | 5 | 350 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 48 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 18 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 37 | 55 | 13 | 16 | 100 | 0 | 0 | 208 | | | 37 | 55 | 18 | 16 | 100 | 0 | 0 | 288 | | | | | | |
| | | | | | | | | | | EAv | 37 | 55 | 5 | 10 | 100 | 0 | 0 | 50 | | | | | | | | | | | | | | | |
| | 3 | 35 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 90 | 0 | 13 | 100 | 0 | 0 | 0 | 137 | 24 | 55 | 90 | 15 | 13 | 100 | 0 | 0 | 195 | 111 | 4 | 2 | | | |
| | | | | | | | | | | EAv | 55 | 90 | 35 | 7 | 100 | 0 | 0 | 245 | | | | | | | | | | | | | | | |
| | 4 | 30 | C | 0 | MODERATE | 16 | 8 | | | TAv | 90 | 120 | 0 | 16 | 100 | 0 | 0 | 0 | | | 90 | 120 | 0 | 16 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 90 | 120 | 30 | 8 | 100 | 0 | 0 | 240 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 49 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 25 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 30 | 55 | 20 | 16 | 100 | 0 | 0 | 320 | | | 30 | 55 | 25 | 16 | 100 | 0 | 0 | 400 | | | | | | |
| | | | | | | | | | | EAv | 30 | 55 | 5 | 10 | 100 | 0 | 0 | 50 | | | | | | | | | | | | | | | |
| | 3 | 33 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 88 | 0 | 13 | 100 | 0 | 0 | 0 | 134 | 20 | 55 | 88 | 15 | 13 | 100 | 0 | 0 | 195 | 111 | 3 | 2 | | | |
| | | | | | | | | | | EAv | 55 | 88 | 33 | 7 | 100 | 0 | 0 | 231 | | | | | | | | | | | | | | | |
| | 4 | 32 | C | 0 | POOR | 13 | 7 | | | TAv | 88 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | 88 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 88 | 120 | 32 | 7 | 100 | 0 | 0 | 224 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 50 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 35 | 65 | 15 | 15 | 100 | 0 | 0 | 225 | | | 35 | 65 | 30 | 15 | 100 | 0 | 0 | 450 | | | |
| | | | | | | | | | | EAv | 35 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | | |
| | 3 | 20 | SCL | 10 | MODERATE | 15 | 10 | 10.0 | 7.0 | TAv | 65 | 85 | 0 | 15 | 90 | 10 | 10 | 0 | 116 | 3 | 65 | 85 | 5 | 15 | 90 | 10 | 10 | 73 | 112 | 5 | 3a |
| | | | | | | | | | | EAv | 65 | 85 | 20 | 10 | 90 | 7 | 10 | 194 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 51 | 1 | 21 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 21 | 21 | 17 | 95 | 1 | 5 | 340 | | | 0 | 21 | 21 | 17 | 95 | 1 | 5 | 340 | | | |
| | | | | | | | | | | EAv | 0 | 21 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 34 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 21 | 55 | 29 | 12 | 95 | 1 | 5 | 332 | | | 21 | 55 | 34 | 12 | 95 | 1 | 5 | 389 | | | |
| | | | | | | | | | | EAv | 21 | 55 | 5 | 7 | 95 | 1 | 5 | 33 | | | | | | | | | | | | | |
| | 3 | 60 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 55 | 115 | 0 | 13 | 90 | 10 | 10 | 0 | 113 | -1 | 55 | 115 | 15 | 13 | 90 | 10 | 10 | 191 | 92 | -15 | 3a |
| | | | | | | | | | | EAv | 55 | 115 | 60 | 7 | 90 | 7 | 10 | 420 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 52 | 1 | 34 | SCL | 15 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 34 | 34 | 17 | 85 | 1 | 15 | 496 | | | 0 | 34 | 34 | 17 | 85 | 1 | 15 | 496 | | | |
| | | | | | | | | | | EAv | 0 | 34 | 0 | 0 | 85 | 1 | 15 | 0 | | | | | | | | | | | | | |
| | 2 | 18 | SCL | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 34 | 52 | 16 | 15 | 95 | 1 | 5 | 229 | | | 34 | 52 | 18 | 15 | 95 | 1 | 5 | 257 | | | |
| | | | | | | | | | | EAv | 34 | 52 | 2 | 10 | 95 | 1 | 5 | 19 | | | | | | | | | | | | | |
| | 3 | 28 | C | 15 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 52 | 80 | 0 | 13 | 85 | 10 | 15 | 0 | 94 | -19 | 52 | 80 | 18 | 13 | 85 | 10 | 15 | 226 | 98 | -9 | 3a |
| | | | | | | | | | | EAv | 52 | 80 | 28 | 7 | 85 | 7 | 15 | 196 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 53 | 1 | 26 | SCL | 15 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 26 | 26 | 17 | 85 | 1 | 15 | 380 | | | 0 | 26 | 26 | 17 | 85 | 1 | 15 | 380 | | | |
| | | | | | | | | | | EAv | 0 | 26 | 0 | 0 | 85 | 1 | 15 | 0 | | | | | | | | | | | | | |
| | 2 | 42 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 26 | 68 | 24 | 12 | 95 | 1 | 5 | 275 | | | 26 | 68 | 42 | 12 | 95 | 1 | 5 | 481 | | | |
| | | | | | | | | | | EAv | 26 | 68 | 18 | 7 | 95 | 1 | 5 | 120 | | | | | | | | | | | | | |
| | 3 | 32 | C | 15 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 68 | 100 | 0 | 13 | 85 | 10 | 15 | 0 | 113 | 0 | 68 | 100 | 2 | 13 | 85 | 10 | 15 | 25 | 89 | -19 | 3a |
| | | | | | | | | | | EAv | 68 | 100 | 32 | 7 | 85 | 7 | 15 | 224 | | | | | | | | | | | | | |
| | 4 | 15 | LMS | 0 | GOOD | 12 | 9 | | | TAv | 100 | 115 | 0 | 12 | 100 | 0 | 0 | 0 | | | 100 | 115 | 0 | 12 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 100 | 115 | 15 | 9 | 100 | 0 | 0 | 135 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 54 | 1 | 42 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | |
| | | | | | | | | | | EAv | 0 | 42 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 21 | HCL | 0 | POOR | 12 | 7 | | | TAv | 42 | 63 | 8 | 12 | 100 | 0 | 0 | 96 | | | 42 | 63 | 21 | 12 | 100 | 0 | 0 | 252 | | | |
| | | | | | | | | | | EAv | 42 | 63 | 13 | 7 | 100 | 0 | 0 | 91 | | | | | | | | | | | | | |
| | 3 | 27 | C | 5 | MODERATE | 16 | 8 | 10.0 | 7.0 | TAv | 63 | 90 | 0 | 16 | 95 | 10 | 5 | 0 | 136 | 22 | 63 | 90 | 7 | 16 | 95 | 10 | 5 | 110 | 108 | 0 | 2 |
| | | | | | | | | | | EAv | 63 | 90 | 27 | 8 | 95 | 7 | 5 | 215 | | | | | | | | | | | | | |
| | 4 | 30 | C | 0 | MODERATE | 16 | 8 | | | TAv | 90 | 120 | 0 | 16 | 100 | 0 | 0 | 0 | | | 90 | 120 | 0 | 16 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 90 | 120 | 30 | 8 | 100 | 0 | 0 | 240 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 55 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 46 | C | 0 | POOR | 13 | 7 | | | TAv | 37 | 83 | 13 | 13 | 100 | 0 | 0 | 169 | | | 37 | 83 | 33 | 13 | 100 | 0 | 0 | 429 | | | |
| | | | | | | | | | | EAv | 37 | 83 | 33 | 7 | 100 | 0 | 0 | 231 | | | | | | | | | | | | | |
| | 3 | 37 | C | 0 | POOR | 13 | 7 | | | TAv | 83 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 129 | 15 | 83 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 106 | -1 | 2 |
| | | | | | | | | | | EAv | 83 | 120 | 37 | 7 | 100 | 0 | 0 | 259 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 56 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 13 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 35 | 48 | 13 | 16 | 100 | 0 | 0 | 208 | | | 35 | 48 | 13 | 16 | 100 | 0 | 0 | 208 | | | |
| | | | | | | | | | | EAv | 35 | 48 | 0 | 10 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 3 | 19 | HCL | 0 | POOR | 12 | 7 | | | TAv | 48 | 67 | 2 | 12 | 100 | 0 | 0 | 24 | 132 | 18 | 48 | 67 | 19 | 12 | 100 | 0 | 0 | 228 | 107 | 0 | 2 |
| | | | | | | | | | | EAv | 48 | 67 | 17 | 7 | 100 | 0 | 0 | 119 | | | | | | | | | | | | | |
| | 4 | 53 | C | 0 | POOR | 13 | 7 | | | TAv | 67 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | 67 | 120 | 3 | 13 | 100 | 0 | 0 | 39 | | | |
| | | | | | | | | | | EAv | 67 | 120 | 53 | 7 | 100 | 0 | 0 | 371 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 57 | 1 | 38 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 27 | HCL | 0 | GOOD | 21 | 14 | | | TAv | 38 | 65 | 12 | 21 | 100 | 0 | 0 | 252 | | | 38 | 65 | 27 | 21 | 100 | 0 | 0 | 567 | | | |
| | | | | | | | | | | EAv | 38 | 65 | 15 | 14 | 100 | 0 | 0 | 210 | | | | | | | | | | | | | |
| | 3 | 55 | C | 0 | POOR | 13 | 7 | | | TAv | 65 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 149 | 36 | 65 | 120 | 5 | 13 | 100 | 0 | 0 | 65 | 128 | 21 | 1 |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 100 | 0 | 0 | 385 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 58 | 1 | 38 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 24 | C | 0 | MODERATE | 16 | 8 | | | TAv | 38 | 62 | 12 | 16 | 100 | 0 | 0 | 192 | | | 38 | 62 | 24 | 16 | 100 | 0 | 0 | 384 | | | |
| | | | | | | | | | | EAv | 38 | 62 | 12 | 8 | 100 | 0 | 0 | 96 | | | | | | | | | | | | | |
| | 3 | 28 | C | 0 | POOR | 13 | 7 | | | TAv | 62 | 90 | 0 | 13 | 100 | 0 | 0 | 0 | 134 | 21 | 62 | 90 | 8 | 13 | 100 | 0 | 0 | 104 | 113 | 6 | 2 |
| | | | | | | | | | | EAv | 62 | 90 | 28 | 7 | 100 | 0 | 0 | 196 | | | | | | | | | | | | | |
| | 4 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 90 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | 90 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 90 | 120 | 30 | 7 | 100 | 0 | 0 | 210 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 59 | 1 | 30 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 35 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 30 | 65 | 20 | 15 | 100 | 0 | 0 | 300 | | | 30 | 65 | 35 | 15 | 100 | 0 | 0 | 525 | | | |
| | | | | | | | | | | EAv | 30 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | | |
| | 3 | 20 | SCL | 5 | MODERATE | 15 | 10 | 10.0 | 7.0 | TAv | 65 | 85 | 0 | 15 | 95 | 10 | 5 | 0 | 119 | 5 | 65 | 85 | 5 | 15 | 95 | 10 | 5 | 74 | 114 | 7 | 2 |
| | | | | | | | | | | EAv | 65 | 85 | 20 | 10 | 95 | 7 | 5 | 197 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 60 | 1 | 30 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 18 | 95 | 1 | 5 | 515 | | | 0 | 30 | 30 | 18 | 95 | 1 | 5 | 515 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 25 | SCL | 0 | POOR | 13 | 8 | | | TAv | 30 | 55 | 20 | 13 | 100 | 0 | 0 | 260 | | | 30 | 55 | 25 | 13 | 100 | 0 | 0 | 325 | | | |
| | | | | | | | | | | EAv | 30 | 55 | 5 | 8 | 100 | 0 | 0 | 40 | | | | | | | | | | | | | |
| | 3 | 25 | SCL | 5 | POOR | 13 | 8 | 10.0 | 7.0 | TAv | 55 | 80 | 0 | 13 | 95 | 10 | 5 | 0 | 101 | -12 | 55 | 80 | 15 | 13 | 95 | 10 | 5 | 193 | 103 | -4 | 3a |
| | | | | | | | | | | EAv | 55 | 80 | 25 | 8 | 95 | 7 | 5 | 199 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 61 | 1 | 34 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 34 | 34 | 18 | 95 | 1 | 5 | 583 | | | 0 | 34 | 34 | 18 | 95 | 1 | 5 | 583 | | | |
| | | | | | | | | | | EAv | 0 | 34 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 26 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 34 | 60 | 16 | 13 | 95 | 10 | 5 | 206 | | | 34 | 60 | 26 | 13 | 95 | 10 | 5 | 334 | | | |
| | | | | | | | | | | EAv | 34 | 60 | 10 | 7 | 95 | 7 | 5 | 70 | | | | | | | | | | | | | |
| | 3 | 14 | SC | 0 | MODERATE | 15 | 10 | | | TAv | 60 | 74 | 0 | 15 | 100 | 0 | 0 | 0 | 122 | 8 | 60 | 74 | 10 | 15 | 100 | 0 | 0 | 150 | 107 | 0 | 2 |
| | | | | | | | | | | EAv | 60 | 74 | 14 | 10 | 100 | 0 | 0 | 140 | | | | | | | | | | | | | |
| | 4 | 31 | C | 15 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 74 | 105 | 0 | 13 | 85 | 10 | 15 | 0 | | | 74 | 105 | 0 | 13 | 85 | 10 | 15 | 0 | | | |
| | | | | | | | | | | EAv | 74 | 105 | 31 | 7 | 85 | 7 | 15 | 217 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 62 | 1 | 32 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 32 | 32 | 18 | 95 | 1 | 5 | 549 | | | 0 | 32 | 32 | 18 | 95 | 1 | 5 | 549 | | | |
| | | | | | | | | | | EAv | 0 | 32 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 23 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 32 | 55 | 18 | 16 | 95 | 1 | 5 | 275 | | | 32 | 55 | 23 | 16 | 95 | 1 | 5 | 351 | | | |
| | | | | | | | | | | EAv | 32 | 55 | 5 | 10 | 95 | 1 | 5 | 48 | | | | | | | | | | | | | |
| | 3 | 60 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 115 | 0 | 13 | 100 | 0 | 0 | 0 | 129 | 16 | 55 | 115 | 15 | 13 | 100 | 0 | 0 | 195 | 109 | 2 | 2 |
| | | | | | | | | | | EAv | 55 | 115 | 60 | 7 | 100 | 0 | 0 | 420 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 63 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 30 | 60 | 20 | 13 | 100 | 0 | 0 | 260 | | | 30 | 60 | 30 | 13 | 100 | 0 | 0 | 390 | | | |
| | | | | | | | | | | EAv | 30 | 60 | 10 | 7 | 100 | 0 | 0 | 70 | | | | | | | | | | | | | |
| | 3 | 20 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 60 | 80 | 0 | 13 | 95 | 10 | 5 | 0 | 98 | -15 | 60 | 80 | 10 | 13 | 95 | 10 | 5 | 129 | 103 | -4 | 3a |
| | | | | | | | | | | EAv | 60 | 80 | 20 | 7 | 95 | 7 | 5 | 140 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 64 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 47 | C | 0 | POOR | 13 | 7 | | | TAv | 35 | 82 | 15 | 13 | 100 | 0 | 0 | 195 | | | 35 | 82 | 35 | 13 | 100 | 0 | 0 | 455 | | | |
| | | | | | | | | | | EAv | 35 | 82 | 32 | 7 | 100 | 0 | 0 | 224 | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | 101 | -12 | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | 105 | -2 | 3a |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 65 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 35 | 65 | 15 | 13 | 100 | 0 | 0 | 195 | | | 35 | 65 | 30 | 13 | 100 | 0 | 0 | 390 | | | |
| | | | | | | | | | | EAv | 35 | 65 | 15 | 7 | 100 | 0 | 0 | 105 | | | | | | | | | | | | |
| | 3 | 20 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 65 | 85 | 0 | 13 | 95 | 10 | 5 | 0 | 104 | -10 | 65 | 85 | 5 | 13 | 95 | 10 | 5 | 64 | 105 | -2 | 3a |
| | | | | | | | | | | EAv | 65 | 85 | 20 | 7 | 95 | 7 | 5 | 140 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 66 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 40 | C | 0 | POOR | 13 | 7 | | | TAv | 30 | 70 | 20 | 13 | 100 | 0 | 0 | 260 | | | 30 | 70 | 40 | 13 | 100 | 0 | 0 | 520 | | | |
| | | | | | | | | | | EAv | 30 | 70 | 20 | 7 | 100 | 0 | 0 | 140 | | | | | | | | | | | | |
| | 3 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 70 | 100 | 0 | 13 | 100 | 0 | 0 | 0 | 112 | -1 | 70 | 100 | 0 | 13 | 100 | 0 | 0 | 0 | 103 | -4 | 3a |
| | | | | | | | | | | EAv | 70 | 100 | 30 | 7 | 100 | 0 | 0 | 210 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 67 | 1 | 36 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 36 | 36 | 18 | 100 | 0 | 0 | 648 | | | 0 | 36 | 36 | 18 | 100 | 0 | 0 | 648 | | | |
| | | | | | | | | | | EAv | 0 | 36 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 2 | 30 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 36 | 66 | 14 | 15 | 100 | 0 | 0 | 210 | | | 36 | 66 | 30 | 15 | 100 | 0 | 0 | 450 | | | |
| | | | | | | | | | | EAv | 36 | 66 | 16 | 10 | 100 | 0 | 0 | 160 | | | | | | | | | | | | |
| | 3 | 19 | C | 10 | MODERATE | 16 | 8 | 10.0 | 7.0 | TAv | 66 | 85 | 0 | 16 | 90 | 10 | 10 | 0 | 117 | 3 | 66 | 85 | 4 | 16 | 90 | 10 | 10 | 62 | 116 | 9 | 3a |
| | | | | | | | | | | EAv | 66 | 85 | 19 | 8 | 90 | 7 | 10 | 150 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 68 | 1 | 36 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 36 | 36 | 18 | 95 | 1 | 5 | 617 | | | 0 | 36 | 36 | 18 | 95 | 1 | 5 | 617 | | | |
| | | | | | | | | | | EAv | 0 | 36 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 2 | 29 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 36 | 65 | 14 | 15 | 100 | 0 | 0 | 210 | | | 36 | 65 | 29 | 15 | 100 | 0 | 0 | 435 | | | |
| | | | | | | | | | | EAv | 36 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | |
| | 3 | 20 | C | 10 | MODERATE | 16 | 8 | 10.0 | 7.0 | TAv | 65 | 85 | 0 | 16 | 90 | 10 | 10 | 0 | 114 | 0 | 65 | 85 | 5 | 16 | 90 | 10 | 10 | 77 | 113 | 6 | 3a |
| | | | | | | | | | | EAv | 65 | 85 | 20 | 8 | 90 | 7 | 10 | 158 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 69 | 1 | 25 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 25 | 25 | 18 | 95 | 1 | 5 | 429 | | | 0 | 25 | 25 | 18 | 95 | 1 | 5 | 429 | | | |
| | | | | | | | | | | EAv | 0 | 25 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 2 | 20 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 25 | 45 | 20 | 15 | 100 | 0 | 0 | 300 | | | 25 | 45 | 20 | 15 | 100 | 0 | 0 | 300 | | | |
| | | | | | | | | | | EAv | 25 | 45 | 0 | 10 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 3 | 35 | SCL | 0 | POOR | 13 | 8 | | | TAv | 45 | 80 | 5 | 13 | 100 | 0 | 0 | 65 | 103 | -10 | 45 | 80 | 25 | 13 | 100 | 0 | 0 | 325 | 105 | -2 | 3a |
| | | | | | | | | | | EAv | 45 | 80 | 30 | 8 | 100 | 0 | 0 | 240 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| 70 | 1 | 33 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 33 | 33 | 18 | 95 | 1 | 5 | 566 | | | 0 | 33 | 33 | 18 | 95 | 1 | 5 | 566 | | | |
| | | | | | | | | | | EAv | 0 | 33 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | |
| | 2 | 32 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 33 | 65 | 17 | 15 | 100 | 0 | 0 | 255 | | | 33 | 65 | 32 | 15 | 100 | 0 | 0 | 480 | | | |
| | | | | | | | | | | EAv | 33 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | |
| | 3 | 20 | SCL | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 65 | 85 | 0 | 15 | 95 | 1 | 5 | 0 | 116 | 3 | 65 | 85 | 5 | 15 | 95 | 1 | 5 | 72 | 112 | 5 | 3a |
| | | | | | | | | | | EAv | 65 | 85 | 20 | 10 | 95 | 1 | 5 | 191 | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 71 | 1 | 21 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 21 | 21 | 18 | 90 | 1 | 10 | 342 | | | 0 | 21 | 21 | 18 | 90 | 1 | 10 | 342 | | | | |
| | | | | | | | | | | EAv | 0 | 21 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | |
| | 2 | 17 | SC | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 21 | 38 | 17 | 15 | 95 | 1 | 5 | 243 | | | 21 | 38 | 17 | 15 | 95 | 1 | 5 | 243 | | | | |
| | | | | | | | | | | EAv | 21 | 38 | 0 | 10 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 3 | 62 | C | 15 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 38 | 100 | 12 | 13 | 85 | 10 | 15 | 151 | 109 | -5 | 38 | 100 | 32 | 13 | 85 | 10 | 15 | 402 | 99 | -8 | 3a | |
| | | | | | | | | | | EAv | 38 | 100 | 50 | 7 | 85 | 7 | 15 | 350 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 72 | 1 | 22 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 22 | 22 | 18 | 95 | 1 | 5 | 377 | | | 0 | 22 | 22 | 18 | 95 | 1 | 5 | 377 | | | | |
| | | | | | | | | | | EAv | 0 | 22 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 22 | 52 | 28 | 16 | 95 | 1 | 5 | 427 | | | 22 | 52 | 30 | 16 | 95 | 1 | 5 | 458 | | | | |
| | | | | | | | | | | EAv | 22 | 52 | 2 | 10 | 95 | 1 | 5 | 19 | | | | | | | | | | | | | |
| | 3 | 48 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 52 | 100 | 0 | 13 | 90 | 10 | 10 | 0 | 116 | 2 | 52 | 100 | 18 | 13 | 90 | 10 | 10 | 229 | 106 | -1 | 3a | |
| | | | | | | | | | | EAv | 52 | 100 | 48 | 7 | 90 | 7 | 10 | 336 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 73 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 25 | HCL | 0 | POOR | 12 | 7 | | | TAv | 35 | 60 | 15 | 12 | 100 | 0 | 0 | 180 | | | 35 | 60 | 25 | 12 | 100 | 0 | 0 | 300 | | | | |
| | | | | | | | | | | EAv | 35 | 60 | 10 | 7 | 100 | 0 | 0 | 70 | | | | | | | | | | | | | |
| | 3 | 20 | HCL | 10 | POOR | 12 | 7 | 10.0 | 7.0 | TAv | 60 | 80 | 0 | 12 | 90 | 10 | 10 | 0 | 99 | -15 | 60 | 80 | 10 | 12 | 90 | 10 | 10 | 118 | 101 | -6 | 3a | |
| | | | | | | | | | | EAv | 60 | 80 | 20 | 7 | 90 | 7 | 10 | 140 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 74 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 50 | C | 0 | POOR | 13 | 7 | | | TAv | 30 | 80 | 20 | 13 | 100 | 0 | 0 | 260 | | | 30 | 80 | 40 | 13 | 100 | 0 | 0 | 520 | | | | |
| | | | | | | | | | | EAv | 30 | 80 | 30 | 7 | 100 | 0 | 0 | 210 | | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 98 | -15 | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | 103 | -4 | 3a | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 75 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 30 | 60 | 20 | 13 | 100 | 0 | 0 | 260 | | | 30 | 60 | 30 | 13 | 100 | 0 | 0 | 390 | | | | |
| | | | | | | | | | | EAv | 30 | 60 | 10 | 7 | 100 | 0 | 0 | 70 | | | | | | | | | | | | | |
| | 3 | 20 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 60 | 80 | 0 | 13 | 90 | 10 | 10 | 0 | 98 | -15 | 60 | 80 | 10 | 13 | 90 | 10 | 10 | 127 | 103 | -4 | 3a | |
| | | | | | | | | | | EAv | 60 | 80 | 20 | 7 | 90 | 7 | 10 | 140 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 76 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 52 | C | 0 | POOR | 13 | 7 | | | TAv | 30 | 82 | 20 | 13 | 100 | 0 | 0 | 260 | | | 30 | 82 | 40 | 13 | 100 | 0 | 0 | 520 | | | | |
| | | | | | | | | | | EAv | 30 | 82 | 32 | 7 | 100 | 0 | 0 | 224 | | | | | | | | | | | | | |
| | 3 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | 99 | -14 | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | 103 | -4 | 3a | |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 77 | 1 | 38 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 38 | 38 | 18 | 90 | 1 | 10 | 619 | | | 0 | 38 | 38 | 18 | 90 | 1 | 10 | 619 | | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | |
| | 2 | 20 | SCL | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 38 | 58 | 12 | 15 | 95 | 1 | 5 | 172 | | | 38 | 58 | 20 | 15 | 95 | 1 | 5 | 286 | | | | |
| | | | | | | | | | | EAv | 38 | 58 | 8 | 10 | 95 | 1 | 5 | 76 | | | | | | | | | | | | | |
| | 3 | 27 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 58 | 85 | 0 | 13 | 90 | 10 | 10 | 0 | 106 | -8 | 58 | 85 | 12 | 13 | 90 | 10 | 10 | 152 | 106 | -1 | 3a | |
| | | | | | | | | | | EAv | 58 | 85 | 27 | 7 | 90 | 7 | 10 | 189 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 78 | 1 | 30 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 18 | 90 | 1 | 10 | 489 | | | 0 | 30 | 30 | 18 | 90 | 1 | 10 | 489 | | | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 18 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 30 | 48 | 18 | 16 | 95 | 1 | 5 | 275 | | | 30 | 48 | 18 | 16 | 95 | 1 | 5 | 275 | | | | | | |
| | | | | | | | | | | EAv | 30 | 48 | 0 | 10 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 3 | 42 | C | 10 | MODERATE | 16 | 8 | 10.0 | 7.0 | TAv | 48 | 90 | 2 | 16 | 90 | 10 | 10 | 31 | 111 | -2 | 48 | 90 | 22 | 16 | 90 | 10 | 10 | 339 | 110 | 3 | 3a | | | |
| | | | | | | | | | | EAv | 48 | 90 | 40 | 8 | 90 | 7 | 10 | 316 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 79 | 1 | 25 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 25 | 25 | 18 | 90 | 1 | 10 | 408 | | | 0 | 25 | 25 | 18 | 90 | 1 | 10 | 408 | | | | | | |
| | | | | | | | | | | EAv | 0 | 25 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 30 | SCL | 5 | POOR | 13 | 8 | 1.0 | 0.5 | TAv | 25 | 55 | 25 | 13 | 95 | 1 | 5 | 310 | | | 25 | 55 | 30 | 13 | 95 | 1 | 5 | 372 | | | | | | |
| | | | | | | | | | | EAv | 25 | 55 | 5 | 8 | 95 | 1 | 5 | 38 | | | | | | | | | | | | | | | |
| | 3 | 25 | C | 10 | MODERATE | 16 | 8 | 10.0 | 7.0 | TAv | 55 | 80 | 0 | 16 | 90 | 10 | 10 | 0 | 95 | -18 | 55 | 80 | 15 | 16 | 90 | 10 | 10 | 231 | 101 | -6 | 3a | | | |
| | | | | | | | | | | EAv | 55 | 80 | 25 | 8 | 90 | 7 | 10 | 198 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 80 | 1 | 28 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 28 | 28 | 18 | 95 | 1 | 5 | 480 | | | 0 | 28 | 28 | 18 | 95 | 1 | 5 | 480 | | | | | | |
| | | | | | | | | | | EAv | 0 | 28 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 31 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 28 | 59 | 22 | 12 | 95 | 1 | 5 | 252 | | | 28 | 59 | 31 | 12 | 95 | 1 | 5 | 355 | | | | | | |
| | | | | | | | | | | EAv | 28 | 59 | 9 | 7 | 95 | 1 | 5 | 60 | | | | | | | | | | | | | | | |
| | 3 | 61 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 59 | 120 | 0 | 13 | 95 | 10 | 5 | 0 | 122 | 8 | 59 | 120 | 11 | 13 | 95 | 10 | 5 | 141 | 98 | -10 | 2 | | | |
| | | | | | | | | | | EAv | 59 | 120 | 61 | 7 | 95 | 7 | 5 | 427 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 81 | 1 | 31 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 31 | 31 | 18 | 95 | 1 | 5 | 532 | | | 0 | 31 | 31 | 18 | 95 | 1 | 5 | 532 | | | | | | |
| | | | | | | | | | | EAv | 0 | 31 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 30 | C | 5 | POOR | 13 | 7 | 1.0 | 0.5 | TAv | 31 | 61 | 19 | 13 | 95 | 1 | 5 | 236 | | | 31 | 61 | 30 | 13 | 95 | 1 | 5 | 372 | | | | | | |
| | | | | | | | | | | EAv | 31 | 61 | 11 | 7 | 95 | 1 | 5 | 73 | | | | | | | | | | | | | | | |
| | 3 | 59 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 61 | 120 | 0 | 13 | 95 | 10 | 5 | 0 | 125 | 12 | 61 | 120 | 9 | 13 | 95 | 10 | 5 | 116 | 102 | -5 | 2 | | | |
| | | | | | | | | | | EAv | 61 | 120 | 59 | 7 | 95 | 7 | 5 | 413 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 82 | 1 | 32 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 32 | 32 | 18 | 95 | 1 | 5 | 549 | | | 0 | 32 | 32 | 18 | 95 | 1 | 5 | 549 | | | | | | |
| | | | | | | | | | | EAv | 0 | 32 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 16 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 32 | 48 | 16 | 12 | 95 | 1 | 5 | 183 | | | 32 | 48 | 16 | 12 | 95 | 1 | 5 | 183 | | | | | | |
| | | | | | | | | | | EAv | 32 | 48 | 0 | 7 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 3 | 57 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 48 | 105 | 2 | 13 | 90 | 10 | 10 | 25 | 114 | 1 | 48 | 105 | 22 | 13 | 90 | 10 | 10 | 279 | 101 | -6 | 3a | | | |
| | | | | | | | | | | EAv | 48 | 105 | 55 | 7 | 90 | 7 | 10 | 385 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 83 | 1 | 28 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 28 | 28 | 18 | 95 | 1 | 5 | 480 | | | 0 | 28 | 28 | 18 | 95 | 1 | 5 | 480 | | | | | | |
| | | | | | | | | | | EAv | 0 | 28 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 30 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 28 | 58 | 22 | 16 | 95 | 1 | 5 | 336 | | | 28 | 58 | 30 | 16 | 95 | 1 | 5 | 458 | | | | | | |
| | | | | | | | | | | EAv | 28 | 58 | 8 | 10 | 95 | 1 | 5 | 76 | | | | | | | | | | | | | | | |
| | 3 | 52 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 58 | 110 | 0 | 13 | 90 | 10 | 10 | 0 | 126 | 12 | 58 | 110 | 12 | 13 | 90 | 10 | 10 | 152 | 109 | 2 | 2 | | | |
| | | | | | | | | | | EAv | 58 | 110 | 52 | 7 | 90 | 7 | 10 | 364 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 84 | 1 | 37 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | 0 | 37 | 37 | 17 | 100 | 0 | 0 | 629 | | | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 23 | C | 5 | POOR | 13 | 7 | 1.0 | 0.5 | TAv | 37 | 60 | 13 | 13 | 95 | 1 | 5 | 161 | | | 37 | 60 | 23 | 13 | 95 | 1 | 5 | 285 | | | | | | |
| | | | | | | | | | | EAv | 37 | 60 | 10 | 7 | 95 | 1 | 5 | 67 | | | | | | | | | | | | | | | |
| | 3 | 40 | C | 0 | POOR | 13 | 7 | | | TAv | 60 | 100 | 0 | 13 | 100 | 0 | 0 | 0 | 114 | 0 | 60 | 100 | 10 | 13 | 100 | 0 | 0 | 130 | 104 | -3 | 3a | | | |
| | | | | | | | | | | EAv | 60 | 100 | 40 | 7 | 100 | 0 | 0 | 280 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 85 | 1 | 30 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 17 | 95 | 1 | 5 | 486 | | | 0 | 30 | 30 | 17 | 95 | 1 | 5 | 486 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 25 | C | 5 | POOR | 13 | 7 | 1.0 | 0.5 | TAv | 30 | 55 | 20 | 13 | 95 | 1 | 5 | 248 | | | 30 | 55 | 25 | 13 | 95 | 1 | 5 | 310 | | | |
| | | | | | | | | | | EAv | 30 | 55 | 5 | 7 | 95 | 1 | 5 | 33 | | | | | | | | | | | | | |
| | 3 | 25 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 80 | 0 | 13 | 100 | 0 | 0 | 0 | 94 | -19 | 55 | 80 | 15 | 13 | 100 | 0 | 0 | 195 | 99 | -8 | 3a |
| | | | | | | | | | | EAv | 55 | 80 | 25 | 7 | 100 | 0 | 0 | 175 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 86 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 25 | C | 5 | POOR | 13 | 7 | 1.0 | 0.5 | TAv | 30 | 55 | 20 | 13 | 95 | 1 | 5 | 248 | | | 30 | 55 | 25 | 13 | 95 | 1 | 5 | 310 | | | |
| | | | | | | | | | | EAv | 30 | 55 | 5 | 7 | 95 | 1 | 5 | 33 | | | | | | | | | | | | | |
| | 3 | 35 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 90 | 0 | 13 | 100 | 0 | 0 | 0 | 104 | -10 | 55 | 90 | 15 | 13 | 100 | 0 | 0 | 195 | 102 | -6 | 3a |
| | | | | | | | | | | EAv | 55 | 90 | 35 | 7 | 100 | 0 | 0 | 245 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 87 | 1 | 40 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 40 | 40 | 18 | 100 | 0 | 0 | 720 | | | 0 | 40 | 40 | 18 | 100 | 0 | 0 | 720 | | | |
| | | | | | | | | | | EAv | 0 | 40 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | C | 0 | POOR | 13 | 7 | | | TAv | 40 | 70 | 10 | 13 | 100 | 0 | 0 | 130 | | | 40 | 70 | 30 | 13 | 100 | 0 | 0 | 390 | | | |
| | | | | | | | | | | EAv | 40 | 70 | 20 | 7 | 100 | 0 | 0 | 140 | | | | | | | | | | | | | |
| | 3 | 20 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 70 | 90 | 0 | 13 | 95 | 10 | 5 | 0 | 113 | 0 | 70 | 90 | 0 | 13 | 95 | 10 | 5 | 0 | 111 | 4 | 3a |
| | | | | | | | | | | EAv | 70 | 90 | 20 | 7 | 95 | 7 | 5 | 140 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 90 | 90 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 88 | 1 | 37 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 37 | 37 | 18 | 100 | 0 | 0 | 666 | | | 0 | 37 | 37 | 18 | 100 | 0 | 0 | 666 | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 21 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 37 | 58 | 13 | 15 | 100 | 0 | 0 | 195 | | | 37 | 58 | 21 | 15 | 100 | 0 | 0 | 315 | | | |
| | | | | | | | | | | EAv | 37 | 58 | 8 | 10 | 100 | 0 | 0 | 80 | | | | | | | | | | | | | |
| | 3 | 24 | C | 0 | POOR | 13 | 7 | | | TAv | 58 | 82 | 0 | 13 | 100 | 0 | 0 | 0 | 111 | -3 | 58 | 82 | 12 | 13 | 100 | 0 | 0 | 156 | 114 | 7 | 3a |
| | | | | | | | | | | EAv | 58 | 82 | 24 | 7 | 100 | 0 | 0 | 168 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 82 | 82 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 89 | 1 | 35 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 35 | 35 | 18 | 100 | 0 | 0 | 630 | | | 0 | 35 | 35 | 18 | 100 | 0 | 0 | 630 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 28 | SCL | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 35 | 63 | 15 | 15 | 95 | 1 | 5 | 215 | | | 35 | 63 | 28 | 15 | 95 | 1 | 5 | 400 | | | |
| | | | | | | | | | | EAv | 35 | 63 | 13 | 10 | 95 | 1 | 5 | 124 | | | | | | | | | | | | | |
| | 3 | 22 | SCL | 10 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 63 | 85 | 0 | 15 | 90 | 1 | 10 | 0 | 117 | 3 | 63 | 85 | 7 | 15 | 90 | 1 | 10 | 95 | 113 | 5 | 3a |
| | | | | | | | | | | EAv | 63 | 85 | 22 | 10 | 90 | 1 | 10 | 199 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 90 | 1 | 35 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 35 | 35 | 18 | 95 | 1 | 5 | 600 | | | 0 | 35 | 35 | 18 | 95 | 1 | 5 | 600 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 33 | HCL | 5 | GOOD | 21 | 14 | 1.0 | 0.5 | TAv | 35 | 68 | 15 | 21 | 95 | 1 | 5 | 300 | | | 35 | 68 | 33 | 21 | 95 | 1 | 5 | 660 | | | |
| | | | | | | | | | | EAv | 35 | 68 | 18 | 14 | 95 | 1 | 5 | 240 | | | | | | | | | | | | | |
| | 3 | 37 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 68 | 105 | 0 | 13 | 95 | 10 | 5 | 0 | 140 | 26 | 68 | 105 | 2 | 13 | 95 | 10 | 5 | 26 | 129 | 21 | 2 |
| | | | | | | | | | | EAv | 68 | 105 | 37 | 7 | 95 | 7 | 5 | 259 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 91 | 1 | 26 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 26 | 26 | 18 | 95 | 1 | 5 | 446 | | | 0 | 26 | 26 | 18 | 95 | 1 | 5 | 446 | | | |
| | | | | | | | | | | EAv | 0 | 26 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 26 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 26 | 52 | 24 | 13 | 95 | 10 | 5 | 308 | | | 26 | 52 | 26 | 13 | 95 | 10 | 5 | 334 | | | |
| | | | | | | | | | | EAv | 26 | 52 | 2 | 7 | 95 | 7 | 5 | 14 | | | | | | | | | | | | | |
| | 3 | 58 | C | 5 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 52 | 110 | 0 | 13 | 95 | 10 | 5 | 0 | 117 | 4 | 52 | 110 | 18 | 13 | 95 | 10 | 5 | 231 | 101 | -6 | 3a |
| | | | | | | | | | | EAv | 52 | 110 | 58 | 7 | 95 | 7 | 5 | 406 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 92 | 1 | 32 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 32 | 32 | 18 | 95 | 1 | 5 | 549 | | | 0 | 32 | 32 | 18 | 95 | 1 | 5 | 549 | | | | |
| | | | | | | | | | | EAv | 0 | 32 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 24 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 32 | 56 | 18 | 16 | 95 | 1 | 5 | 275 | | | 32 | 56 | 24 | 16 | 95 | 1 | 5 | 366 | | | | |
| | | | | | | | | | | EAv | 32 | 56 | 6 | 10 | 95 | 1 | 5 | 57 | | | | | | | | | | | | | |
| | 3 | 49 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 56 | 105 | 0 | 13 | 90 | 10 | 10 | 0 | 122 | 9 | 56 | 105 | 14 | 13 | 90 | 10 | 10 | 178 | 109 | 2 | 2 | |
| | | | | | | | | | | EAv | 56 | 105 | 49 | 7 | 90 | 7 | 10 | 343 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 93 | 1 | 30 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 18 | 95 | 1 | 5 | 515 | | | 0 | 30 | 30 | 18 | 95 | 1 | 5 | 515 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 30 | 60 | 20 | 12 | 95 | 1 | 5 | 229 | | | 30 | 60 | 30 | 12 | 95 | 1 | 5 | 344 | | | | |
| | | | | | | | | | | EAv | 30 | 60 | 10 | 7 | 95 | 1 | 5 | 67 | | | | | | | | | | | | | |
| | 3 | 30 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 60 | 90 | 0 | 13 | 90 | 10 | 10 | 0 | 112 | -1 | 60 | 90 | 10 | 13 | 90 | 10 | 10 | 127 | 99 | -9 | 3a | |
| | | | | | | | | | | EAv | 60 | 90 | 30 | 7 | 90 | 7 | 10 | 210 | | | | | | | | | | | | | |
| | 4 | 20 | MS | 0 | GOOD | 7 | 5 | | | TAv | 90 | 110 | 0 | 7 | 100 | 0 | 0 | 0 | | | 90 | 110 | 0 | 7 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 90 | 110 | 20 | 5 | 100 | 0 | 0 | 100 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 94 | 1 | 30 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 25 | C | 0 | MODERATE | 16 | 8 | | | TAv | 30 | 55 | 20 | 16 | 100 | 0 | 0 | 320 | | | 30 | 55 | 25 | 16 | 100 | 0 | 0 | 400 | | | | |
| | | | | | | | | | | EAv | 30 | 55 | 5 | 8 | 100 | 0 | 0 | 40 | | | | | | | | | | | | | |
| | 3 | 45 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 100 | 0 | 13 | 100 | 0 | 0 | 0 | 122 | 8 | 55 | 100 | 15 | 13 | 100 | 0 | 0 | 195 | 114 | 6 | 2 | |
| | | | | | | | | | | EAv | 55 | 100 | 45 | 7 | 100 | 0 | 0 | 315 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 95 | 1 | 30 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 15 | C | 0 | MODERATE | 16 | 8 | | | TAv | 30 | 45 | 15 | 16 | 100 | 0 | 0 | 240 | | | 30 | 45 | 15 | 16 | 100 | 0 | 0 | 240 | | | | |
| | | | | | | | | | | EAv | 30 | 45 | 0 | 8 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 3 | 40 | C | 0 | POOR | 13 | 7 | | | TAv | 45 | 85 | 5 | 13 | 100 | 0 | 0 | 65 | 109 | -4 | 45 | 85 | 25 | 13 | 100 | 0 | 0 | 325 | 111 | 3 | 3a | |
| | | | | | | | | | | EAv | 45 | 85 | 35 | 7 | 100 | 0 | 0 | 245 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 85 | 85 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 96 | 1 | 30 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | 0 | 30 | 30 | 18 | 100 | 0 | 0 | 540 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 25 | C | 0 | MODERATE | 16 | 8 | | | TAv | 30 | 55 | 20 | 16 | 100 | 0 | 0 | 320 | | | 30 | 55 | 25 | 16 | 100 | 0 | 0 | 400 | | | | |
| | | | | | | | | | | EAv | 30 | 55 | 5 | 8 | 100 | 0 | 0 | 40 | | | | | | | | | | | | | |
| | 3 | 25 | C | 0 | POOR | 13 | 7 | | | TAv | 55 | 80 | 0 | 13 | 100 | 0 | 0 | 0 | 108 | -6 | 55 | 80 | 15 | 13 | 100 | 0 | 0 | 195 | 114 | 6 | 3a | |
| | | | | | | | | | | EAv | 55 | 80 | 25 | 7 | 100 | 0 | 0 | 175 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 80 | 80 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 97 | 1 | 36 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 36 | 36 | 18 | 100 | 0 | 0 | 648 | | | 0 | 36 | 36 | 18 | 100 | 0 | 0 | 648 | | | | |
| | | | | | | | | | | EAv | 0 | 36 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 36 | 66 | 14 | 16 | 100 | 0 | 0 | 224 | | | 36 | 66 | 30 | 16 | 100 | 0 | 0 | 480 | | | | |
| | | | | | | | | | | EAv | 36 | 66 | 16 | 10 | 100 | 0 | 0 | 160 | | | | | | | | | | | | | |
| | 3 | 54 | C | 0 | POOR | 13 | 7 | | | TAv | 66 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 141 | 28 | 66 | 120 | 4 | 13 | 100 | 0 | 0 | 52 | 118 | 11 | 2 | |
| | | | | | | | | | | EAv | 66 | 120 | 54 | 7 | 100 | 0 | 0 | 378 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 98 | 1 | 30 | HCL | 5 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 18 | 95 | 1 | 5 | 515 | | | 0 | 30 | 30 | 18 | 95 | 1 | 5 | 515 | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | MCL | 0 | MODERATE | 16 | 10 | | | TAv | 30 | 60 | 20 | 16 | 100 | 0 | 0 | 320 | | | 30 | 60 | 30 | 16 | 100 | 0 | 0 | 480 | | | | |
| | | | | | | | | | | EAv | 30 | 60 | 10 | 10 | 100 | 0 | 0 | 100 | | | | | | | | | | | | | |
| | 3 | 35 | C | 0 | POOR | 13 | 7 | | | TAv | 60 | 95 | 0 | 13 | 100 | 0 | 0 | 0 | 118 | 4 | 60 | 95 | 10 | 13 | 100 | 0 | 0 | 130 | 112 | 5 | 3a | |
| | | | | | | | | | | EAv | 60 | 95 | 35 | 7 | 100 | 0 | 0 | 245 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 95 | 95 | 0 | 0 | 100 | 0 | 0 | 0 | | | 95 | 95 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 95 | 95 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 95 | 95 | 0 | 0 | 100 | 0 | 0 | 0 | | | 95 | 95 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 95 | 95 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |

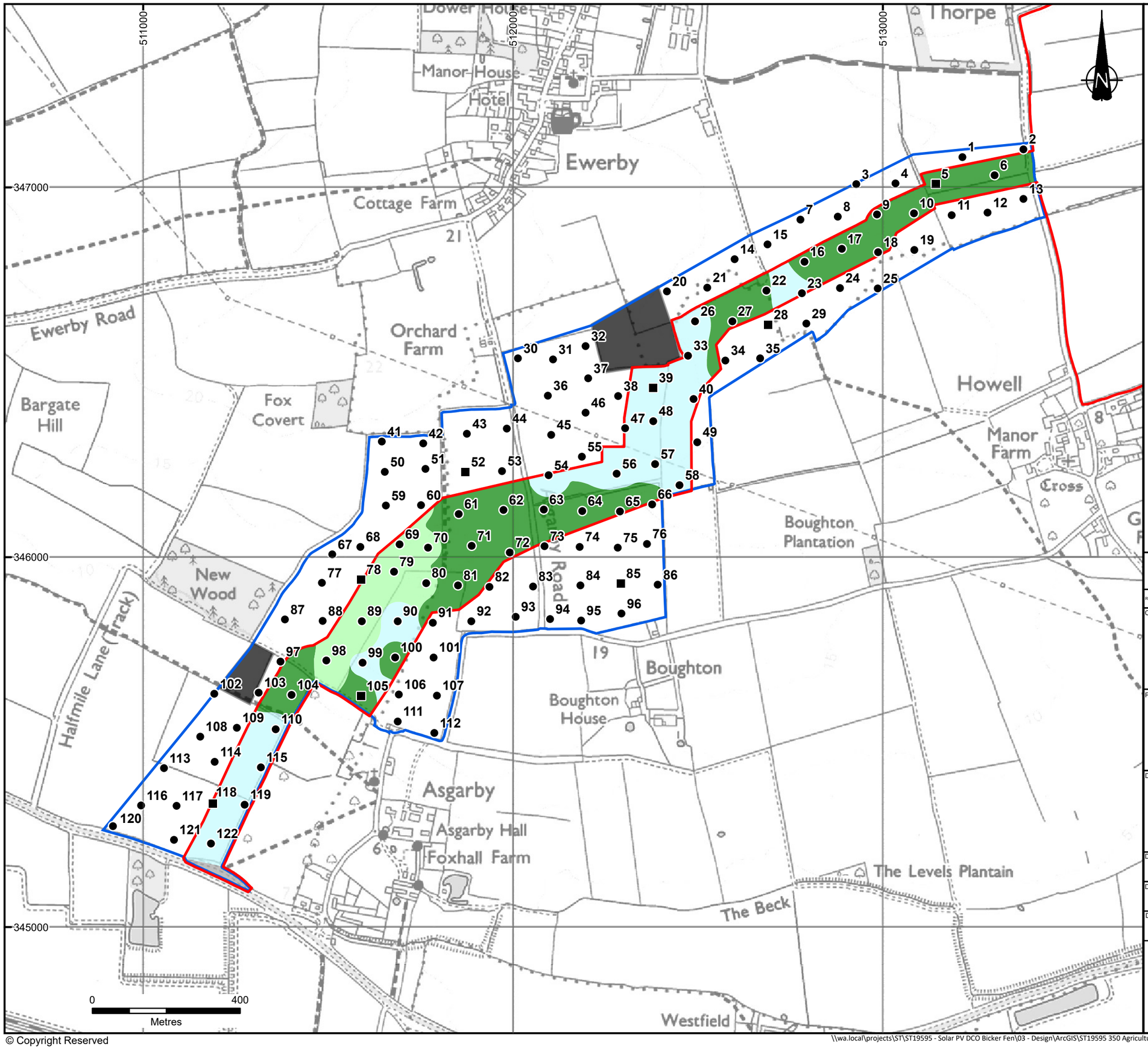
| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 99 | 1 | 28 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 28 | 28 | 18 | 90 | 1 | 10 | 456 | | | 0 | 28 | 28 | 18 | 90 | 1 | 10 | 456 | | | | | | |
| | | | | | | | | | | EAv | 0 | 28 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 24 | HCL | 5 | GOOD | 21 | 14 | 1.0 | 0.5 | TAv | 28 | 52 | 22 | 21 | 95 | 1 | 5 | 440 | | | 28 | 52 | 24 | 21 | 95 | 1 | 5 | 480 | | | | | | |
| | | | | | | | | | | EAv | 28 | 52 | 2 | 14 | 95 | 1 | 5 | 27 | | | | | | | | | | | | | | | |
| | 3 | 68 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 52 | 120 | 0 | 13 | 90 | 10 | 10 | 0 | 140 | 26 | 52 | 120 | 18 | 13 | 90 | 10 | 10 | 229 | 117 | 9 | 2 | | | |
| | | | | | | | | | | EAv | 52 | 120 | 68 | 7 | 90 | 7 | 10 | 476 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 100 | 1 | 30 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 30 | 30 | 18 | 90 | 1 | 10 | 489 | | | 0 | 30 | 30 | 18 | 90 | 1 | 10 | 489 | | | | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 30 | HCL | 5 | POOR | 12 | 7 | 1.0 | 0.5 | TAv | 30 | 60 | 20 | 12 | 95 | 1 | 5 | 229 | | | 30 | 60 | 30 | 12 | 95 | 1 | 5 | 344 | | | | | | |
| | | | | | | | | | | EAv | 30 | 60 | 10 | 7 | 95 | 1 | 5 | 67 | | | | | | | | | | | | | | | |
| | 3 | 60 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 60 | 120 | 0 | 13 | 90 | 10 | 10 | 0 | 120 | 7 | 60 | 120 | 10 | 13 | 90 | 10 | 10 | 127 | 96 | -11 | 3a | | | |
| | | | | | | | | | | EAv | 60 | 120 | 60 | 7 | 90 | 7 | 10 | 420 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 101 | 1 | 29 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 29 | 29 | 18 | 90 | 1 | 10 | 473 | | | 0 | 29 | 29 | 18 | 90 | 1 | 10 | 473 | | | | | | |
| | | | | | | | | | | EAv | 0 | 29 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 36 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 29 | 65 | 21 | 16 | 95 | 1 | 5 | 320 | | | 29 | 65 | 36 | 16 | 95 | 1 | 5 | 549 | | | | | | |
| | | | | | | | | | | EAv | 29 | 65 | 15 | 10 | 95 | 1 | 5 | 143 | | | | | | | | | | | | | | | |
| | 3 | 55 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 65 | 120 | 0 | 13 | 90 | 10 | 10 | 0 | 132 | 19 | 65 | 120 | 5 | 13 | 90 | 10 | 10 | 64 | 109 | 1 | 2 | | | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 90 | 7 | 10 | 385 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 102 | 1 | 40 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 40 | 40 | 17 | 100 | 0 | 0 | 680 | | | 0 | 40 | 40 | 17 | 100 | 0 | 0 | 680 | | | | | | |
| | | | | | | | | | | EAv | 0 | 40 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 35 | LCS | 5 | MODERATE | 8 | 6 | 5.0 | 3.0 | TAv | 40 | 75 | 10 | 8 | 95 | 5 | 5 | 79 | | | 40 | 75 | 30 | 8 | 95 | 5 | 5 | 236 | | | | | | |
| | | | | | | | | | | EAv | 40 | 75 | 25 | 6 | 95 | 3 | 5 | 146 | | | | | | | | | | | | | | | |
| | 3 | 45 | CS | 0 | GOOD | 5 | 4 | | | TAv | 75 | 120 | 0 | 5 | 100 | 0 | 0 | 0 | 108 | -5 | 75 | 120 | 0 | 5 | 100 | 0 | 0 | 0 | 92 | -16 | 3a | | | |
| | | | | | | | | | | EAv | 75 | 120 | 45 | 4 | 100 | 0 | 0 | 180 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 103 | 1 | 37 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 37 | 37 | 18 | 100 | 0 | 0 | 666 | | | 0 | 37 | 37 | 18 | 100 | 0 | 0 | 666 | | | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 28 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 37 | 65 | 13 | 16 | 100 | 0 | 0 | 208 | | | 37 | 65 | 28 | 16 | 100 | 0 | 0 | 448 | | | | | | |
| | | | | | | | | | | EAv | 37 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | | | | |
| | 3 | 55 | C | 0 | POOR | 13 | 7 | | | TAv | 65 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 141 | 27 | 65 | 120 | 5 | 13 | 100 | 0 | 0 | 65 | 118 | 11 | 2 | | | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 100 | 0 | 0 | 385 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 104 | 1 | 37 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 37 | 37 | 18 | 100 | 0 | 0 | 666 | | | 0 | 37 | 37 | 18 | 100 | 0 | 0 | 666 | | | | | | |
| | | | | | | | | | | EAv | 0 | 37 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 28 | HCL | 0 | POOR | 12 | 7 | | | TAv | 37 | 65 | 13 | 12 | 100 | 0 | 0 | 156 | | | 37 | 65 | 28 | 12 | 100 | 0 | 0 | 336 | | | | | | |
| | | | | | | | | | | EAv | 37 | 65 | 15 | 7 | 100 | 0 | 0 | 105 | | | | | | | | | | | | | | | |
| | 3 | 55 | C | 0 | POOR | 13 | 7 | | | TAv | 65 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 131 | 18 | 65 | 120 | 5 | 13 | 100 | 0 | 0 | 65 | 107 | 0 | 2 | | | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 100 | 0 | 0 | 385 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 105 | 1 | 34 | C | 10 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 34 | 34 | 17 | 90 | 1 | 10 | 524 | | | 0 | 34 | 34 | 17 | 90 | 1 | 10 | 524 | | | | | | |
| | | | | | | | | | | EAv | 0 | 34 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 21 | MSZL | 5 | MODERATE | 17 | 11 | 1.0 | 0.5 | TAv | 34 | 55 | 16 | 17 | 95 | 1 | 5 | 259 | | | 34 | 55 | 21 | 17 | 95 | 1 | 5 | 340 | | | | | | |
| | | | | | | | | | | EAv | 34 | 55 | 5 | 11 | 95 | 1 | 5 | 52 | | | | | | | | | | | | | | | |
| | 3 | 45 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 55 | 100 | 0 | 13 | 90 | 10 | 10 | 0 | 115 | 2 | 55 | 100 | 15 | 13 | 90 | 10 | 10 | 191 | 105 | -2 | 3a | | | |
| | | | | | | | | | | EAv | 55 | 100 | 45 | 7 | 90 | 7 | 10 | 315 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 106 | 1 | 34 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 34 | 34 | 18 | 90 | 1 | 10 | 554 | | | 0 | 34 | 34 | 18 | 90 | 1 | 10 | 554 | | | | | | |
| | | | | | | | | | | EAv | 0 | 34 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 28 | C | 5 | GOOD | 21 | 15 | 1.0 | 0.5 | TAv | 34 | 62 | 16 | 21 | 95 | 1 | 5 | 320 | | | 34 | 62 | 28 | 21 | 95 | 1 | 5 | 560 | | | | | | |
| | | | | | | | | | | EAv | 34 | 62 | 12 | 15 | 95 | 1 | 5 | 171 | | | | | | | | | | | | | | | |
| | 3 | 58 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 62 | 120 | 0 | 13 | 90 | 10 | 10 | 0 | 145 | 32 | 62 | 120 | 8 | 13 | 90 | 10 | 10 | 102 | 122 | 14 | 1 | | | |
| | | | | | | | | | | EAv | 62 | 120 | 58 | 7 | 90 | 7 | 10 | 406 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 107 | 1 | 36 | HCL | 10 | GOOD | 18 | | 1.0 | 0.5 | TAv | 0 | 36 | 36 | 18 | 90 | 1 | 10 | 587 | | | 0 | 36 | 36 | 18 | 90 | 1 | 10 | 587 | | | | | | |
| | | | | | | | | | | EAv | 0 | 36 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 32 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 36 | 68 | 14 | 16 | 95 | 1 | 5 | 214 | | | 36 | 68 | 32 | 16 | 95 | 1 | 5 | 488 | | | | | | |
| | | | | | | | | | | EAv | 36 | 68 | 18 | 10 | 95 | 1 | 5 | 171 | | | | | | | | | | | | | | | |
| | 3 | 52 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 68 | 120 | 0 | 13 | 90 | 10 | 10 | 0 | 134 | 20 | 68 | 120 | 2 | 13 | 90 | 10 | 10 | 25 | 110 | 3 | 2 | | | |
| | | | | | | | | | | EAv | 68 | 120 | 52 | 7 | 90 | 7 | 10 | 364 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 108 | 1 | 38 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | 0 | 38 | 38 | 17 | 100 | 0 | 0 | 646 | | | | | | |
| | | | | | | | | | | EAv | 0 | 38 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 37 | LMS | 5 | MODERATE | 9 | 6 | 1.0 | 0.5 | TAv | 38 | 75 | 12 | 9 | 95 | 1 | 5 | 103 | | | 38 | 75 | 32 | 9 | 95 | 1 | 5 | 275 | | | | | | |
| | | | | | | | | | | EAv | 38 | 75 | 25 | 6 | 95 | 1 | 5 | 143 | | | | | | | | | | | | | | | |
| | 3 | 35 | CS | 5 | GOOD | 5 | 4 | 1.0 | 0.5 | TAv | 75 | 110 | 0 | 5 | 95 | 1 | 5 | 0 | 103 | -11 | 75 | 110 | 0 | 5 | 95 | 1 | 5 | 0 | 92 | -15 | 3a | | | |
| | | | | | | | | | | EAv | 75 | 110 | 35 | 4 | 95 | 1 | 5 | 134 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 109 | 1 | 35 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 55 | CSL | 5 | GOOD | 22 | 15 | 1.0 | 0.5 | TAv | 35 | 90 | 15 | 22 | 95 | 1 | 5 | 314 | | | 35 | 90 | 35 | 22 | 95 | 1 | 5 | 733 | | | | | | |
| | | | | | | | | | | EAv | 35 | 90 | 40 | 15 | 95 | 1 | 5 | 571 | | | | | | | | | | | | | | | |
| | 3 | 30 | CS | 10 | GOOD | 5 | 4 | 1.0 | 0.5 | TAv | 90 | 120 | 0 | 5 | 90 | 1 | 10 | 0 | 156 | 43 | 90 | 120 | 0 | 5 | 90 | 1 | 10 | 0 | 130 | 23 | 1 | | | |
| | | | | | | | | | | EAv | 90 | 120 | 30 | 4 | 90 | 1 | 10 | 110 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 110 | 1 | 43 | HCL | 0 | GOOD | 18 | | | | TAv | 0 | 43 | 43 | 18 | 100 | 0 | 0 | 774 | | | 0 | 43 | 43 | 18 | 100 | 0 | 0 | 774 | | | | | | |
| | | | | | | | | | | EAv | 0 | 43 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 2 | 22 | HCL | 0 | MODERATE | 16 | 10 | | | TAv | 43 | 65 | 7 | 16 | 100 | 0 | 0 | 112 | | | 43 | 65 | 22 | 16 | 100 | 0 | 0 | 352 | | | | | | |
| | | | | | | | | | | EAv | 43 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | | | | |
| | 3 | 55 | C | 0 | POOR | 13 | 7 | | | TAv | 65 | 120 | 0 | 13 | 100 | 0 | 0 | 0 | 142 | 29 | 65 | 120 | 5 | 13 | 100 | 0 | 0 | 65 | 119 | 12 | 2 | | | |
| | | | | | | | | | | EAv | 65 | 120 | 55 | 7 | 100 | 0 | 0 | 385 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 111 | 1 | 34 | C | 10 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 34 | 34 | 17 | 90 | 1 | 10 | 524 | | | 0 | 34 | 34 | 17 | 90 | 1 | 10 | 524 | | | | | | |
| | | | | | | | | | | EAv | 0 | 34 | 0 | 0 | 90 | 1 | 10 | 0 | | | | | | | | | | | | | | | |
| | 2 | 24 | HCL | 5 | MODERATE | 16 | 10 | 1.0 | 0.5 | TAv | 34 | 58 | 16 | 16 | 95 | 1 | 5 | 244 | | | 34 | 58 | 24 | 16 | 95 | 1 | 5 | 366 | | | | | | |
| | | | | | | | | | | EAv | 34 | 58 | 8 | 10 | 95 | 1 | 5 | 76 | | | | | | | | | | | | | | | |
| | 3 | 62 | C | 10 | MODERATE | 16 | 8 | 10.0 | 7.0 | TAv | 58 | 120 | 0 | 16 | 90 | 10 | 10 | 0 | 133 | 20 | 58 | 120 | 12 | 16 | 90 | 10 | 10 | 185 | 107 | 0 | 2 | | | |
| | | | | | | | | | | EAv | 58 | 120 | 62 | 8 | 90 | 7 | 10 | 490 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| 112 | 1 | 35 | C | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | 0 | 35 | 35 | 17 | 95 | 1 | 5 | 567 | | | | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | | | |
| | 2 | 20 | C | 5 | MODERATE | 16 | 8 | 1.0 | 0.5 | TAv | 35 | 55 | 15 | 16 | 95 | 1 | 5 | 229 | | | 35 | 55 | 20 | 16 | 95 | 1 | 5 | 305 | | | | | | |
| | | | | | | | | | | EAv | 35 | 55 | 5 | 8 | 95 | 1 | 5 | 38 | | | | | | | | | | | | | | | |
| | 3 | 65 | C | 10 | POOR | 13 | 7 | 10.0 | 7.0 | TAv | 55 | 120 | 0 | 13 | 90 | 10 | 10 | 0 | 129 | 15 | 55 | 120 | 15 | 13 | 90 | 10 | 10 | 191 | 106 | -1 | 2 | | | |
| | | | | | | | | | | EAv | 55 | 120 | 65 | 7 | 90 | 7 | 10 | 455 | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 113 | 1 | 35 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | 0 | 35 | 35 | 17 | 100 | 0 | 0 | 595 | | | |
| | | | | | | | | | | EAv | 0 | 35 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 20 | SCL | 0 | GOOD | 19 | 14 | | | TAv | 35 | 55 | 15 | 19 | 100 | 0 | 0 | 285 | | | 35 | 55 | 20 | 19 | 100 | 0 | 0 | 380 | | | |
| | | | | | | | | | | EAv | 35 | 55 | 5 | 14 | 100 | 0 | 0 | 70 | | | | | | | | | | | | | |
| | 3 | 55 | LMS | 5 | MODERATE | 9 | 6 | 1.0 | 0.5 | TAv | 55 | 110 | 0 | 9 | 95 | 1 | 5 | 0 | 126 | 13 | 55 | 110 | 15 | 9 | 95 | 1 | 5 | 129 | 110 | 3 | 2 |
| | | | | | | | | | | EAv | 55 | 110 | 55 | 6 | 95 | 1 | 5 | 315 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 114 | 1 | 34 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 34 | 34 | 17 | 100 | 0 | 0 | 578 | | | 0 | 34 | 34 | 17 | 100 | 0 | 0 | 578 | | | |
| | | | | | | | | | | EAv | 0 | 34 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 31 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 34 | 65 | 16 | 15 | 100 | 0 | 0 | 240 | | | 34 | 65 | 31 | 15 | 100 | 0 | 0 | 465 | | | |
| | | | | | | | | | | EAv | 34 | 65 | 15 | 10 | 100 | 0 | 0 | 150 | | | | | | | | | | | | | |
| | 3 | 40 | LCS | 5 | GOOD | 11 | 7 | 5.0 | 3.0 | TAv | 65 | 105 | 0 | 11 | 95 | 5 | 5 | 0 | 124 | 11 | 65 | 105 | 5 | 11 | 95 | 5 | 5 | 54 | 110 | 2 | 2 |
| | | | | | | | | | | EAv | 65 | 105 | 40 | 7 | 95 | 3 | 5 | 272 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 115 | 1 | 45 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 45 | 45 | 17 | 100 | 0 | 0 | 765 | | | 0 | 45 | 45 | 17 | 100 | 0 | 0 | 765 | | | |
| | | | | | | | | | | EAv | 0 | 45 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 30 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 45 | 75 | 5 | 15 | 100 | 0 | 0 | 75 | | | 45 | 75 | 25 | 15 | 100 | 0 | 0 | 375 | | | |
| | | | | | | | | | | EAv | 45 | 75 | 25 | 10 | 100 | 0 | 0 | 250 | | | | | | | | | | | | | |
| | 3 | 45 | MS | 0 | GOOD | 7 | 5 | | | TAv | 75 | 120 | 0 | 7 | 100 | 0 | 0 | 0 | 132 | 18 | 75 | 120 | 0 | 7 | 100 | 0 | 0 | 0 | 114 | 7 | 2 |
| | | | | | | | | | | EAv | 75 | 120 | 45 | 5 | 100 | 0 | 0 | 225 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 120 | 120 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 116 | 1 | 42 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | |
| | | | | | | | | | | EAv | 0 | 42 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 18 | SCL | 5 | GOOD | 19 | 14 | 1.0 | 0.5 | TAv | 42 | 60 | 8 | 19 | 95 | 1 | 5 | 145 | | | 42 | 60 | 18 | 19 | 95 | 1 | 5 | 326 | | | |
| | | | | | | | | | | EAv | 42 | 60 | 10 | 14 | 95 | 1 | 5 | 133 | | | | | | | | | | | | | |
| | 3 | 55 | LMS | 5 | GOOD | 12 | 9 | 1.0 | 0.5 | TAv | 60 | 115 | 0 | 12 | 95 | 1 | 5 | 0 | 146 | 33 | 60 | 115 | 10 | 12 | 95 | 1 | 5 | 115 | 115 | 8 | 2 |
| | | | | | | | | | | EAv | 60 | 115 | 55 | 9 | 95 | 1 | 5 | 472 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 117 | 1 | 45 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 45 | 45 | 17 | 100 | 0 | 0 | 765 | | | 0 | 45 | 45 | 17 | 100 | 0 | 0 | 765 | | | |
| | | | | | | | | | | EAv | 0 | 45 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 17 | SCL | 0 | POOR | 13 | 8 | | | TAv | 45 | 62 | 5 | 13 | 100 | 0 | 0 | 65 | | | 45 | 62 | 17 | 13 | 100 | 0 | 0 | 221 | | | |
| | | | | | | | | | | EAv | 45 | 62 | 12 | 8 | 100 | 0 | 0 | 96 | | | | | | | | | | | | | |
| | 3 | 48 | LMS | 5 | GOOD | 12 | 9 | 1.0 | 0.5 | TAv | 62 | 110 | 0 | 12 | 95 | 1 | 5 | 0 | 134 | 20 | 62 | 110 | 8 | 12 | 95 | 1 | 5 | 92 | 108 | 1 | 2 |
| | | | | | | | | | | EAv | 62 | 110 | 48 | 9 | 95 | 1 | 5 | 412 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 118 | 1 | 40 | SCL | 5 | GOOD | 17 | | 1.0 | 0.5 | TAv | 0 | 40 | 40 | 17 | 95 | 1 | 5 | 648 | | | 0 | 40 | 40 | 17 | 95 | 1 | 5 | 648 | | | |
| | | | | | | | | | | EAv | 0 | 40 | 0 | 0 | 95 | 1 | 5 | 0 | | | | | | | | | | | | | |
| | 2 | 15 | SCL | 5 | MODERATE | 15 | 10 | 1.0 | 0.5 | TAv | 40 | 55 | 10 | 15 | 95 | 1 | 5 | 143 | | | 40 | 55 | 15 | 15 | 95 | 1 | 5 | 215 | | | |
| | | | | | | | | | | EAv | 40 | 55 | 5 | 10 | 95 | 1 | 5 | 48 | | | | | | | | | | | | | |
| | 3 | 55 | LCS | 10 | GOOD | 11 | 7 | 1.0 | 0.5 | TAv | 55 | 110 | 0 | 11 | 90 | 1 | 10 | 0 | 119 | 5 | 55 | 110 | 15 | 11 | 90 | 1 | 10 | 150 | 101 | -6 | 2 |
| | | | | | | | | | | EAv | 55 | 110 | 55 | 7 | 90 | 1 | 10 | 349 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| 119 | 1 | 30 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | 0 | 30 | 30 | 17 | 100 | 0 | 0 | 510 | | | |
| | | | | | | | | | | EAv | 0 | 30 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 2 | 26 | SCL | 0 | MODERATE | 15 | 10 | | | TAv | 30 | 56 | 20 | 15 | 100 | 0 | 0 | 300 | | | 30 | 56 | 26 | 15 | 100 | 0 | 0 | 390 | | | |
| | | | | | | | | | | EAv | 30 | 56 | 6 | 10 | 100 | 0 | 0 | 60 | | | | | | | | | | | | | |
| | 3 | 54 | SCL | 5 | GOOD | 19 | 14 | 1.0 | 0.5 | TAv | 56 | 110 | 0 | 19 | 95 | 1 | 5 | 0 | 159 | 45 | 56 | 110 | 14 | 19 | 95 | 1 | 5 | 253 | 115 | 8 | 2 |
| | | | | | | | | | | EAv | 56 | 110 | 54 | 14 | 95 | 1 | 5 | 720 | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | |

| Data inputs | | | | | | | | | | Droughtiness calculations | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Av. water (soil) | | Av. water (stones) | | AP wheat | | | | | | | | | | | | AP potatoes | | | | | | | | | | | | Limited to ALC grade |
| Survey Point | Horizon | Horizon thickness | Texture | Stones % | Structural condition | TAv % | EAv % | TAv % | EAv % | TAv/EAv | Start depth | End depth | Horiz. thickn. | TAv/EAv soil | % non stone | TAv/EAv stones | Stones % | AP wheat | | AP(wheat) -MD(wheat) | | Start depth | End depth | Horiz. thickn. | TAv top/sub soil | non-stone % | TAv stones | Stone % | AP potatoes | | AP(potato) -MD(potato) | |
| 120 | 1 | 40 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 40 | 40 | 17 | 100 | 0 | 0 | 680 | | | | 0 | 40 | 40 | 17 | 100 | 0 | 0 | 680 | | | | |
| | | | | | | | | | | EAv | 0 | 40 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 2 | 16 | CSL | 5 | GOOD | 22 | 15 | 1.0 | 0.5 | TAv | 40 | 56 | 10 | 22 | 95 | 1 | 5 | 210 | | | | 40 | 56 | 16 | 22 | 95 | 1 | 5 | 335 | | | | |
| | | | | | | | | | | EAv | 40 | 56 | 6 | 15 | 95 | 1 | 5 | 86 | | | | | | | | | | | | | | |
| | 3 | 59 | LCS | 5 | MODERATE | 8 | 6 | 1.0 | 0.5 | TAv | 56 | 115 | 0 | 8 | 95 | 1 | 5 | 0 | 131 | 18 | | 56 | 115 | 14 | 8 | 95 | 1 | 5 | 107 | 112 | 5 | 2 |
| | | | | | | | | | | EAv | 56 | 115 | 59 | 6 | 95 | 1 | 5 | 338 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 115 | 115 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 121 | 1 | 42 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | | |
| | | | | | | | | | | EAv | 0 | 42 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 2 | 13 | CSL | 5 | GOOD | 22 | 15 | 1.0 | 0.5 | TAv | 42 | 55 | 8 | 22 | 95 | 1 | 5 | 168 | | | | 42 | 55 | 13 | 22 | 95 | 1 | 5 | 272 | | | | |
| | | | | | | | | | | EAv | 42 | 55 | 5 | 15 | 95 | 1 | 5 | 71 | | | | | | | | | | | | | | |
| | 3 | 50 | LCS | 10 | GOOD | 11 | 7 | 1.0 | 0.5 | TAv | 55 | 105 | 0 | 11 | 90 | 1 | 10 | 0 | 127 | 14 | | 55 | 105 | 15 | 11 | 90 | 1 | 10 | 150 | 114 | 6 | 2 |
| | | | | | | | | | | EAv | 55 | 105 | 50 | 7 | 90 | 1 | 10 | 318 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 105 | 105 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 122 | 1 | 42 | SCL | 0 | GOOD | 17 | | | | TAv | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | | 0 | 42 | 42 | 17 | 100 | 0 | 0 | 714 | | | | |
| | | | | | | | | | | EAv | 0 | 42 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 2 | 18 | SCL | 0 | GOOD | 19 | 14 | | | TAv | 42 | 60 | 8 | 19 | 100 | 0 | 0 | 152 | | | | 42 | 60 | 18 | 19 | 100 | 0 | 0 | 342 | | | | |
| | | | | | | | | | | EAv | 42 | 60 | 10 | 14 | 100 | 0 | 0 | 140 | | | | | | | | | | | | | | |
| | 3 | 50 | LCS | 5 | GOOD | 11 | 7 | 1.0 | 0.5 | TAv | 60 | 110 | 0 | 11 | 95 | 1 | 5 | 0 | 134 | 21 | | 60 | 110 | 10 | 11 | 95 | 1 | 5 | 105 | 116 | 9 | 2 |
| | | | | | | | | | | EAv | 60 | 110 | 50 | 7 | 95 | 1 | 5 | 334 | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | TAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | |
| | | | | | | | | | | EAv | 110 | 110 | 0 | 0 | 100 | 0 | 0 | 0 | | | | | | | | | | | | | | |

# DRAWINGS




KEY

- DCO Order Limits
- Survey Area
- Auger Core
- Profile Pit

Agricultural Land Classification

- Grade 2
- Subgrade 3a
- Subgrade 3b
- Not Surveyed
- Other

Areas within DCO Order Limits

| Agricultural Land Classification | Area (ha) |
|---|---|
| Grade 2 | 16.58 ha |
| Subgrade 3a | 22.1 ha |
| Subgrade 3b | 6.18 ha |
| Not Surveyed | 0.02 ha |
| Other | 0.45 ha |

Notes:

Excluding the DCO Order Limits, boundaries shown are indicative.

DCO Order Limits provided by Ardent Management on 04/02/2025.

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| REVISION | DETAILS | DATE | DRAWN | CHK'D | APP'D |
|---|---|---|---|---|---|
| 1 | FIRST ISSUE | 06/03/25 | BL | GJ | SC |

CLIENT

BEACON FEN ENERGY PARK LTD

PROJECT

BEACON FEN ENERGY PARK

DRAWING TITLE

FIGURE 14.3
AGRICULTURAL LAND CLASSIFICATION
(BESPOKE ACCESS CORRIDOR)

| DRG No. | REV | SUIT. CODE |
|---|---|---|
| ST19595-350 | 1 | -- |

| DRG SIZE | SCALE | DATE |
|---|---|---|
| A3 | 1:10,000 | 06/03/2025 |

| DRAWN BY | CHECKED BY | APPROVED BY |
|---|---|---|
| SRW | GJ | SC |

wardell armstrong
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[redacted]


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