

Semi-detailed soil resource survey and mapping of REALISE woredas in Ethiopia

Project report to the BENEFIT-REALISE programme

December 2020

J.G.B. Leenaars
M. Ruiperez González
B. Kempen
S. Mantel



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ISRIC - World Soil Information
Wageningen

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Summary

As partner in the BENEFIT-REALISE programme, ISRIC - World Soil Information provided guidance in the design and implementation of a soil resource survey at semi-detailed scale in selected BENEFIT-REALISE intervention woredas in Ethiopia and produced a soil resource dataset including a soil profiles database and a soil class map. Moreover, ISRIC provided a number of training sessions. The work contributes directly to the further strengthening of the capacity of the Soil Resource Information and Mapping Directorate of the Ministry of Agriculture of Ethiopia in its ambition to survey and map soil resources at scale and become the Ethiopian Soil Resources Institute. The implemented work activities are reported here relative to the original work plan. This semi-final version of the report presents the status as per December 2020.

Introduction

The involvement of ISRIC in the soil survey and mapping project of the BENEFIT-REALISE programme is specified in the work plan (including terms of reference) and partly in so-called task force modalities. The focus of the involvement was on the following work packages:

WP1. Prepare work plan and ToRs (and adjust according to task force modality)

WP2. Prepare soil survey

WP3. Guide soil survey

WP4. Produce an overall soil dataset including soil profiles data and a soil class map

WP5. Disseminate results

WP6. Capacity building

WP7. Management

Note that most of the budget for WP5 was transferred to WP6 in consultation with the REALISE management for additional capacity building of the targeted partner organisation at MoA. WP4 has been implemented according to plan B in consultation with the REALISE management, which implies that the overall dataset has been produced with available but incomplete survey data.

WP1. Prepare work plan and terms of references

Work plan and terms of reference to survey and map the soils of REALISE woredas, Ethiopia

A detailed work plan was drafted for the survey and mapping of soil-landscape resources in REALISE woredas in 4 regions in Ethiopia including a detailed activity plan serving as Terms of Reference for the involvement of ISRIC as partner in the BENEFIT-REALISE program. The first version of the work plan of 2017 Nov. 2nd has been included in the REALISE programme proposal as part of the larger BENEFIT partnership and has been proposed by WCDI, WEnR and ISRIC to the Netherlands Embassy in Ethiopia. The proposal has been approved by the Embassy early 2018 and the project started in the course of 2018.

The involvement of ISRIC in the programme was foreseen to also start in 2018 but has been postponed due to changing circumstances in Ethiopia, particularly on the Ethiopian partner organisation which was yet to be selected. Ultimately, the actual starting date of ISRIC's involvement was fixed at March 15th 2019. In the meanwhile, the workplan has been updated five times upon the request of REALISE (*updated on 2018 May 17th, 2019 Jan 30th, 2019 Feb 23rd and 2019 March 5th and 6th*) which is indicative for the changing circumstances. The latest update (see Annex 1) included an annex with a list of new issues (task force modalities) and it was agreed not to integrate these new issues into a 7th version of the workplan, including ToR's for ISRIC's involvement, before formalising the project agreement. Instead, the issues were attached to the work plan (see Annex 2) and it was agreed that they would receive particular attention during the kick-off meeting at the start of the project and be dealt with by the committed partners during the course of the project.

The new issues actually implied major changes of the scope and feasibility of the work load relative to the agreed upon work plan with the change of scale being the most important one. Consequently a 7th update of the work plan was produced during the project course upon consultation with committed partners. An overview of that work plan, updated in December 2019, is given in Annex 3. Where necessary, and because of a continued change in circumstances, the actual work deviated from the plan in consultation with the REALISE programme management.

ToR and work plan adjusted to adjusted target scale

The taskforce modalities included an adjustment of the targeted spatial scale from 1: 250,000 to 1: 50,000. This adjustment to semi-detailed scale implied a 25 times more detailed final map and in principle a 25 times denser survey relative to the approved plan. The increase of spatial detail (granularity) also implied a needed increase of thematic detail (and complexity) and thus the necessity to classify soils in greater detail. The plan was to classify soils according to the World Reference Base (WRB) for soil resources (IUSS WG WRB, 2015) as Reference Soil Groups (RSGs) with maximally one qualifier, but the required increase in detail led to the inclusion of additional qualifiers. The consequences of the change of scale for the activities to be undertaken were huge, implying that the approach developed and implemented for the CASCAPE project could not be applied as originally planned.

The original plan aimed to survey and map the major soils of 50 REALISE woredas from about 4000 soil profile observations, including 400 detailed soil pit descriptions, and some 1600 analyzed samples taken from the 400 pits. The associated budget was fixed, thus the same number of observations needed to be made in a smaller number of woredas. A survey that is 25 times more dense than originally planned would imply that only 2 woredas could be surveyed. Instead, we consulted a recognised geo-statistician to define a lower density, for a larger number of woredas, justifiable to map at semi-detailed scale.

The original plan was based on an approximate density of one observation for every two cm^2 on a paper map at 1: 250,000 scale, which corresponds with one observation per 12.5 km^2 . Note that this density is yet half of the density conventionally adhered to before the era that auxiliary information such as aerial photography was used to reduce density (and costs). Considering the fact that nowadays an enormous amount of auxiliary information is available, from e.g. satellite imagery, allowing to distribute soil profile locations across the variability of soil forming factors in the landscape at minimised density, combined with the intended use of machine learning to model and map the relationship between those landscape features and the soil observations, a reduced density was concluded. That density allowed to survey 18 woredas ($15,840 \text{ km}^2$) with one observation per 4 km^2 . In absolute numbers, this implied a plan to observe 3960 soil profiles including $18 \times 200 = 3600$ soil augers and $18 \times 20 = 360$ soil pits with a total of 1624 soil samples.

ToR for national soil coordinator

It was agreed that REALISE would appoint a national soil coordinator (NSC) to coordinate the project related activities within Ethiopia. ISRIC developed the ToR for the national soil coordinator.

ToR for soil surveyors

It was foreseen that REALISE would collaborate with eight universities as well as with, at the time, a yet to be defined partner organisation of the Ministry of Agriculture to set up and deploy a team of soil scientists to survey the targeted REALISE woredas. ISRIC developed the ToR for the selection and deployment of soil survey staff on the basis of the tentative ToR yet included in the work plan. More precisely, these 'Terms of reference for soil characterisation of selected BENEFIT-REALISE woredas' specified the scope of work, the methodological approach and near all details of the survey tasks to be undertaken by the surveyors, including specification of the timeline and deliverables (see Annex 4).

ToR for soil survey (protocol)

The survey protocol was worked out in large detail in the above mentioned 'ToR for soil characterisation of selected BENEFIT-REALISE woredas'. Additional specifications were communicated during an introductory

training of the survey staff during the phase of survey preparation including details about additional reference materials to use and standards to adhere to.

ToR for capacity building activities

The work plan did not include a ToR for capacity building of, at the time, a yet to be determined partner organisation. In the course of 2019, a Memorandum of Understanding was signed between the Ministry of Agriculture (MoA), Natural Resources and Food Security Sector, and the Bilateral Ethiopia-Netherlands Effort for Food, Income and Trade (BENEFIT) Partnership, specifying the intended collaboration between BENEFIT-REALISE and the MoA through the Soil Information and Mapping Directorate and the Extension Directorate. That collaboration focused on Soil characterisation and mapping in 18 PSNP/REALISE woredas, involving ISRIC, and Recommendation mapping in 5, involving WUR. Herewith, the partner organisation was defined as the Soil Information and Mapping Directorate. It is anticipated that this directorate will become the Ethiopian Soil Resources Institute (ESRI).

The entire soil survey and mapping project is regarded as a capacity building activity whereby the Soil Information and Mapping Directorate intends to adopt the approach suggested by ISRIC and implemented by REALISE with support of ISRIC. This approach includes the survey protocol, including associated standards and reference materials, as well as the mapping methodology. The main deliverables planned for the project will be handed over to the Directorate including a soil profiles dataset and a soil class map. During the course of the project, more specific capacity building activities were defined, and implemented by ISRIC, including the production and sharing of a country-wide geomorphic base map at 50 m resolution, the preparation and sharing of country-wide covariates at 50 m resolution and a hands-on training in Digital Soil Mapping with focus on WRB.

WP2. Prepare soil survey

All activities to prepare for the soil survey were conducted as planned. Key activity was the preparation of a detailed survey protocol including the associated reference materials and standards and an introductory training for explanation and practice.

Plan: Prepare soil survey

Design and prepare full procedure

- o Design procedure to produce and validate a definitive map;

Define Area of Interest

- o Identify the REALISE woredas, including definition of stable ID's and delineations (AoI)

Produce base map

- o Compile existing data, disaggregate Soils & Geomorphology (S&G) map of Ethiopia (FAO, 1984);
- o Produce base map of hypothesised soil-landscapes using the disaggregated S&G map

Prepare survey scheme

- o Design exploratory baseline soil survey (augers)
- o Design procedure to distinguish the preliminary soil types
- o Design detailed soil characterisation (soil pits)
- o Design full survey of woredas (augers)

Prepare standards, tools, materials

- o Prepare standards, tools and materials for field survey
- o Contract analytical laboratory

Prepare ToR's for surveyors incl. workflow (pre field work, field work, post field work)

Prepare and conduct training workshop

- o Preparation of training workshop
- o Training workshop, 5 days, exercising in room and in field
- o Adapt designs, standards etc. if necessary following workshop

It is of utmost importance that all surveyors follow the protocol, use the reference materials and adhere to the standards, including the standard workflow, for collecting data in a similar way such that they are unbiased and comparable across the different regions. This will allow the compilation of a coherent dataset with high quality data (profiles) and high quality maps, in an efficient manner.

Key standards and reference materials included in the protocol are :

- Workflow
- Base map at 50 m resolution
- Guidelines for soil description
- Field form template for soil description
- World Reference Base for soil classification
- Procedures for soil analysis
- Data entry template
- Report template

Workflow

Major soils are distinguished from auger observations which are tentatively classified in the field with a low level of detail. Based on that exploratory survey, representative soil pits (representative for the distinguished major soils) are located in the landscape and fully classified with a high level of detail (more qualifiers) and a high level of reliability (verified by laboratory analysis). Through an explicit linkage, by unique identifiers (IDs), between augers and representative pits, the tentative and incomplete auger classifications will be updated and completed through verification with the complete and verified classifications of the corresponding pits. In this way the classification of all observations are consistent with comparable levels of detail. Additional augering (full survey) shows the spatial distribution of the major soils, i.e. soils distinguished on basis of the exploratory auger and classified by representative pits. It may also result in the identification of additional major soils (soils not encountered during the exploratory survey) which also need to be described and classified in detail through new representative soil pits, and so forth.

Base map at 50 m resolution

A good base map for soil survey permits adequate distribution of soil profile locations across the landscape at a relatively low density, while ensuring covering the variability of soil forming factors (feature space) across the survey area at targeted scale. The lower the survey density, the more important the base map is. A survey at semi-detailed scale requires a base map at semi-detailed scale.

Adding to the activities listed in above table was the production of a geomorphic base map at 50 m resolution to support the survey at semi-detailed scale (Leenaars et al., 2019). That map was then used to disaggregate the already existing Soils & Geomorphology map of Ethiopia (FAO, 1984), according to plan, to produce a base map with hypothesised soil class distributions that were then to be verified in the field. However, following feedback from senior soil surveyors from Ethiopia, a base map was produced which did not include data from the Soils & Geomorphology map but, instead, geological classes that were interpreted from the Geological map of Ethiopia of 1: 250,000 scale. The resulting base map represents not all but the most important mappable soil forming factors at targeted scale. (See Annex 5 for the base map of a selected woreda and, without geological classes, for the whole country).

The production of this base map proved very costly but was necessary to adequately distribute the survey locations with a limited density across the landscape covering the variability of soil forming factors at semi-detailed scale. The protocol dictates that the surveyors cover all the base map units with at least one observation per unit. The latter is necessary to enable adequate modelling, through digital soil mapping, of the relationships between the base map units and soil classes.

Guidelines for soil description

The soil survey protocol prescribes the Guidelines for soil description (FAO, 2006) as the standard for making soil profile descriptions. A description always includes administrative data, data on the site and the profile, data on the horizons including horizon designations and data about the diagnostic horizons, properties and materials, followed by a field classification (see Annex 6 for the workflow).

Field form for soil description

ISRIC developed a field form template on the basis of the FAO guidelines for soil description. The template specifies which soil properties from the guidelines needed to be described from augers and from pits (Annex 7).

World Reference Base (WRB) for soil resources: a system for soil classification

The protocol defines the World Reference Base (IUSS WG WRB, 2014, update 2015), as the standard to apply for soil classification. The classification system requires adequate field descriptions that specify the diagnostic horizons, properties and/or materials observed. Moreover, the system requires to follow the key to classify and allocate a soil to a Reference Soil Group.

The targeted spatial detail determines the thematic detail. This implies that soils should be classified with a considerable level of detail to enable to distinguish different soils at targeted scale (at short distance). For this purpose, the surveyors were instructed to classify soils including, if possible, three principal qualifiers plus an undefined number of supplementary qualifiers (RSGs+3PQs+SQs). This may not be possible always for auger observations and therefore it was emphasised to define explicit linkages, by IDs, between auger observations with tentative and incomplete classifications and representative pit observations (representative for the augers) with verified, complete and detailed classifications. It is key that each of the survey teams classifies soils with a similar level of detail.

Procedures for soil analysis

The standard for soil analysis dictated by the WRB, and thus by the protocol, are the procedures of van Reeuwijk (2002). This standard is not of relevance for the surveyors but for the laboratory.

Data entry template

The protocol dictates that the survey and laboratory data are entered strictly according to the standards provided by the data entry template as developed by ISRIC. That template is adapted from the data model of the Africa Soil Profiles database (Leenaars et al., 2014), with details added from the FAO guidelines and the WRB, and facilitates the compilation of all data into one overall dataset. See Annex 8 for an example extract from the data entry template.

Report template

A report template was developed by ISRIC to facilitate standard reporting per woreda and subsequent compilation in an overall report.

Training

The training workshop took place in Adama in autumn 2019. The objective of the training was to prepare soil surveyors for the soil survey planned in 18 selected REALISE woredas, including pre-field, field and post-field activities, with specific focus on a common approach wherein the soil surveyors, deployed in different regions, operate as a team in collecting soil data in a similar way, adhering to similar standards, for producing a coherent dataset of high quality data.

The survey protocol was discussed in detail including the rationale, workflows and all survey activities (pre-field, field and post-field) with timelines and deliverables. Much attention was given to explain the key standards to adhere to, including the reference materials, and these were practised during exercises and discussed. Special attention was given to soil classification according to the WRB (2015). The principles of the system and the use of the key were explained. Exercises that were planned and prepared for being conducted in the field could not take place due to unrest in the area. Instead, these exercises were conducted inside as far as possible with particular attention to the localisation of profile observations according to the base map and profile classifications according to WRB. See annex 9 for the training program.

The challenges associated with the task force modalities, which were included as new issues in an annex to the work plan including ToRs for ISRIC's assignment, were answered by ISRIC and discussed.

Moreover, the budgeting for deployment of surveyors was discussed in detail with the national soil coordinator. Agreed was that each survey team would be composed of a lead surveyor, an assistant surveyor and a data entry GIS assistant.

WP3. Guide soil survey

ISRIC was not involved in conducting the soil survey and only provided guidance through the national soil coordinator.

Soil survey - Pre-field

Important for conducting the surveys is to be well prepared including an adequate survey design according to the base map and an associated timeline. ISRIC was not involved in the survey pre-field preparations and only provided guidance through the national soil coordinator.

Plan: Conduct soil survey – Pre field

Plan and prepare logistics

- o Pre-field preparations including planning (timeline)
- o One soil surveyor and one GIS specialist to assist the lead surveyor
- o Get acquainted with protocol incl. standards, tools, materials (base map, guidelines, wrb, templates etc.)
- o Prepare a survey scheme according to the base map
- o Announcement of start of field work.

Soil survey - Field

ISRIC was not involved in the survey field activities themselves but only provided guidance through the national soil coordinator. Additionally, ISRIC prepared and conducted a number of field backstopping and correlation missions.

Plan : Conduct soil survey - Field

Exploratory survey to distinguish major soils according to the base map

- o Conduct exploratory baseline soil survey
- o Augering according to base map

Prepare and conduct field backstopping and correlation work

- o Prepare field backstopping and correlation work
- o Conduct field backstopping and correlation work

Distinguish major soils incl. diagnostics

- o Exploratory survey leads to the preliminary identification of major soils including. diagnostics

Detailed characterization and interpretation of soil pits representative for the major soils

- o Open soil pits to classify by WRB and describe in detail
- o Take samples from the designated soil horizons in the soil pits

Sample administration and data entry, according to templates

Full survey (augers) of each woreda to verify the distribution of major soils classified by WRB

- o Augers are classified by WRB and described

Important for conducting the survey is that each or the survey teams, deployed in different regions, proceeds according to the established protocol while adhering to the common standards such as to produce unbiased results which can be consistently compiled in an overall dataset of the full project. The most critical point in the survey is the soil classification, since the end product will be a soil class map. It is therefore crucial that all survey teams classify according to the standard procedures while giving attention to, similar, class details (qualifiers) with similar levels of detail. Most importantly, soils need to be observed and interpreted correctly, with adequate identification of diagnostic horizons, properties and materials that form the basis of the classification. This requires pedological knowledge as well as experience. Soil correlation is an old concept that aims at unification of the interpretations and conclusions made by different surveyors and based on their observations. For these purposes and according to plan, ISRIC made a number of backstopping and correlation missions whereby each survey team was visited and joined in their field work for a number of days.

In addition, ISRIC provided advisory services to the REALISE management about whether to deploy a survey team in a region with unrest at a late moment during the course of the project. Finally, surveys have been conducted in 15 woredas including a delayed survey in 3 woredas. The 3 woredas in East Oromia have not been surveyed.

ISRIC proposed a plan to select a suitable Ethiopian laboratory based on criteria to evaluate the quality of soil test results. It was proposed to purchase and send a number of reference soil samples from WEPAL (Wageningen Evaluating Programs for Analytical Laboratories) designed to do proficiency tests in line with WEPAL's Proficiency Testing Schemes in soil. Instead, one soil sample was sent to ISRIC for analysis in a Dutch laboratory. Quotes were requested from four laboratories but none of these offers analyses according to the defined standard procedures for soil analysis (van Reeuwijk, 2002). The Ethiopian laboratory finally selected was the NSTC of the MoA which is member of the WEPAL proficiency testing scheme.

Soil survey - Post-field

ISRIC was not involved in conducting the survey, nor in the post-field activities, but it provided advisory services through the national soil coordinator. Additionally, ISRIC formulated a plan B to enable processing of the survey data into a final plan B dataset, including semi-detailed soil class maps, before the end of project date. This proved necessary because of delays with the field surveys which resulted in late post-field survey activities, including late submission of samples to the selected laboratory. Consequently, the surveyors could not share any field or lab data as of yet and consequently could not verify the field classifications required to produce the final classifications. Plan A implied to use final profile classifications as input to soil mapping and plan B to use field classifications.

Plan: Conduct survey - Post-field (back to office)

Submit administrated samples to soil laboratory

- o Submit batches of the samples to the lab, with the sample administration shared with the NSC
- o Sample preparation and analysis of key soil parameters
- o The lab shares the results with NSC and the NSC with the surveyors

Data entry continued, data analysis including error checking and possibly revisit of laboratory.

- o Enter the data from augers and soil pits in a standard database.
- o Data quality control incl. laboratory results, re-analyse samples if necessary

Final soil classification based on analytical data according to WRB 2014, update 2015.

To the point reporting per region and per woreda

Sharing of results (datasets and reports)

The post-field activities proved all to be far beyond schedule and too late for ISRIC to produce a final plan A dataset in time. This delay may be partly due to the COVID-19 outbreak as well as to social unrest in Ethiopia. Hence, plan B was implemented which implied that the surveyors prepared and sent incomplete survey datasets only including profile IDs, coordinates and tentative field classifications. These datasets were then in November compiled into one dataset.

The survey datasets according to the template and plan A would include full soil descriptions, including diagnostic horizons, properties and materials and tentative field classifications, as well as the soil analytical results and the

verified, updated, final soil classifications both of pits and the associated augers. These data are supposed to be quality controlled, standardised, consistent and clean. At this stage, it is certain that the originally planned survey data will not become available within the time frame of this project.

WP4. Produce an overall soil dataset including a soil profiles dataset and a soil class map

ISRIC produced an overall soil dataset according to plan B including a soil profiles dataset with field classifications and a semi-detailed soil class map. Only part of the planned activities listed in below table could be started and realised before the end of project date due to the lateness of the plan B survey data and absence of plan A survey data.

Not planned yet realised in work package 4, was the development and testing of alternative approaches for semi-detailed soil class mapping. The purpose was to evaluate the approaches in terms of both accuracy and precision and to select the best performing one. This testing of alternative approaches was required because the originally planned approach was insufficiently suited to deal with the challenges caused by the changed target scale and the adjusted, corresponding, level of detail of the soil classes to map (how many PQs and SQs to add?). Another reason for testing alternative approaches was the nature of the soil profile data with soil classes reported at variable levels of detail.

Plan: Process soil survey into an overall soil resource dataset including a soil profiles database and a map

Review of data, diagnostics, classifications and reports (6 * for 18 woredas)

- o Review of data, diagnostics, classifications
- o Review of reports

Discuss and correct data, diagnostics, classifications and reports

- o Session in Addis to discuss data, diagnostics, classifications
- o Session in Addis to discuss reports
- o Correct data, diagnostics, classifications
- o Correct reports

Compile all datasets into one, compile all reports into one

- o Compile all datasets into one, incl. corrections
- o Compile all reports into one, incl. corrections

Prepare mapping procedure

- o Prepare data
- o Prepare covariates
- o Prepare R scripts
- o Prepare and do tests

Produce & validate maps of RSG and of diagnostics

- o Produce maps
- o Validate maps

Aggregate raster maps to polygon maps, layout of maps

Attribute soil property data to, mapped, soil classes

Report

Make results, incl. metadata, available online

Survey reporting

For similar reasons as above, the delay in survey activities included a delay in reporting of the survey results per woreda. At this stage, it is certain that the originally planned survey reports will not become available within the time frame of this project.

Soil profiles dataset (plan B)

Soil profiles data prepared according to 'plan B' were shared with ISRIC and submitted to review for rigid quality control and cleaning. Many issues were identified and these were communicated back to the surveyors for subsequent correction or clarification. This review took a number of rounds after which the individual datasets were compiled into a final and clean one, ready for use. Issues encountered during the data review include:

- Profile IDs unstable (unstable data arrangements)
- Profile IDs duplicated
- Coordinates duplicated
- Coordinates as text (deg° min' sec'') rather than numeric
- Coordinates outside woreda
- Coordinates (locations) poorly distributed over the base map
- Typing errors in coordinates and in RSGs, PQs and SQs
- Not applicable combinations of RSG+PQs+SQs
- Not possible combinations of RSG+PQs+SQs
- Exotic SQs (*drainic, lapidic, magnesian, raptic, tidalic, transportic, turbic*)
- Levels of detail (reported numbers of PQs and SQs) highly variable

Annex 10 shows the variation in the levels of detail of the soil classes as reported by each team and as retained after data review. The distribution of soil profile locations relative to the base map is illustrated by Figures in Annex 11. Annex 12 also shows how the profiles are distributed over the base map by an explicit overview of all the aggregated base map units (1329) and all the soil profile data (3440). Only 435 of the aggregated base map units was covered by one or more soil profile observations (with an average density of 8 observations per unit) while 894 base map units remained uncovered. The soil profiles data presented in Annex 12 are compiled in the plan B soil profiles dataset including profile IDs, coordinates and the retained soil classes.

In total, a number of 3440 soil profiles has been described and classified in the field of which 322 from soil pits and 3118 from augers. This number exceeds the target with 140 profiles. However, 66 profiles are located outside the woredas boundaries. The number of unique soil classes retained after review was 524. These classes represent unique combinations of 16 RSGs, 36 PQs and 31 SQs.

Spatial covariates

The covariates used by ISRIC for producing SoilGrids250m version 2.0 ¹ were resampled from 250 m to 50 m resolution. The geomorphic base map at 50 m resolution, plus associated terrain characteristics (elevation, slope, curvature, topographic wetness index; as processed with the ALOS Global Digital Surface Model) were added to the SoilGrids covariate stack, as well as a number of new covariates from the Earth Engine Data catalogue including land cover related characteristics from SENTINEL 2 satellite imagery. Annex 13 lists the covariates used for digital soil mapping.

The use of 50 m covariates for digital soil mapping purposes is highly computing intense thus it took considerable time to get a covariate stack prepared at this resolution.

Digital Soil Class Mapping : different approaches

The alternative approaches developed and tested to best model and map soil classes at semi-detailed precision, both spatially and thematically, include three different major pathways. Each pathway is tested at 16 levels of detail including 1 RSG, 0-3 PQs and 0-4 SQs. The pathways included :

1. Soil class predicted by one multi-class Random Forest (RF) model (i.e. one model that predicts the probability of occurrence of each soil class in one go; probabilities sum to 1) developed directly from reported soil classes including RSGs and qualifiers
2. Soil class constructed from the most probable Reference Soil Group (RSG) and the most probable, and applicable, qualifiers as predicted by RF models developed separately from reported RSGs and reported qualifiers;
 - a. RSGs modelled by one multi-class RF model
 - i. Qualifiers modelled by two multi-class RF models (one for principal qualifiers and one for supplementary qualifiers)
 - ii. Qualifiers modelled by multiple single-class (binary) RF models; i.e. models that predict probability of each of the qualifiers individually
 - b. RSGs modelled by multiple single-class (binary) RF models (not done)
 - i. Qualifiers modelled by two multi-class RF models (one for principal qualifiers and one for supplementary qualifiers)
 - ii. Qualifiers modelled by multiple single-class (binary) RF models
3. Soil class constructed from the RSG, as classified through the WRB key using diagnostics predicted by multiple single-class (binary) RF models developed from diagnostics derived from reported RSGs and qualifiers, and the most probable, and applicable, qualifiers predicted by multiple single-class (binary) RF models. The threshold between presence and absence of each of the predicted diagnostic was set at a probability of 0.3. The diagnostics as applicable for each RSG are given in Annex 14. The annex also presents rules for simplification of qualifiers such as e.g. hyperskeletal also qualifying for being included in the prediction of skeletal. (See also the file WRB_diagnostics.xlsx).

The first pathway corresponds with the mapping approach applied for CASCAPE by Leenaars et al. (2020) which resulted in a map at 1: 250,000 scale of RSGs and of RSGs plus 1 principal qualifier. This approach appeared insufficiently suited to map at a higher thematic precision as it required predicting classes with a higher number of principal and supplementary qualifiers. An additional challenge was due to the multitude of unique soil classes recorded in the soil profiles dataset as well as the variable levels of detail in the recorded soil classes.

The scripting and testing of the different pathways was a time intense operation because of the large number of unforeseen challenges that proved associated with the numerous diagnostics and qualifiers that are included in

¹ <https://www.isric.org/explore/soilgrids/faq-soilgrids> and <https://soilgrids.org>

the WRB soil classification system. For example, certain qualifiers are defined by a number of criteria whereby one or more of those criteria corresponds with the meaning of one or more other qualifiers (e.g. Luvic implying Argic, Eutric and a CEC > 24 cmolc/kg (which is not a qualifier). Or, qualifiers are mutually exclusive (e.g. Eutric and Dystric). Eliminating the latter occurrences (e.g. eliminating Dystric if Eutric is more dominant) implied a significant drop in the accuracy of the resulting map. Another challenge emerged from using a covariate stack composed of covariates with different original resolutions (e.g. 50 m and 1 km) which caused artefacts in the spatial map patterns. We reduced the number of covariates with a coarse resolution (e.g. climatic variables) to improve the spatial map patterns at the cost of accuracy.

Validation of approaches

The maps resulting from each pathway, at each tested level of detail, were all validated similarly. In fact, not the maps but the Random Forest models were validated through the so-called out-of-bag (OOB) procedure which guarantees that the validations are independent (i.e. model predictions are evaluated with data points not used for training the RF model). The RF algorithm produces an OOB prediction for each of the data points (profile locations) in the dataset.

The validation implies an evaluation of predicted relative to observed soil classes whereby a predicted soil class is either fully correct or fully incorrect (boolean). This is done for all OOB predictions, at all profile locations, and results in an overall accuracy of 1 if all (3440) OOB predictions are correct. Because of the nature of the soil profile data, with variable levels of detail, we decided not to validate the full classes but the class elements, following suggestions by Marsman and de Gruijter (1986). With validation of 'full classes' we mean that a predicted classification is only considered correct if all elements (RSGs and the qualifiers) that make up the class are predicted correctly. Validating this way, results in a very strict measure of the accuracy that Marsman and de Gruijter (1986) refer to as the '*strict purity*'. Such validation does not acknowledge that some of the elements might be predicted correctly. Let us give an example. Suppose that we have a predicted class consisting of five elements: two principal qualifiers, an RSG and two supplementary qualifiers, and that only one element (out of five; e.g. a SQ) is not predicted correctly, then the entire classification is regarded as incorrect while in fact we have done a good job. Instead of such strict validation, Marsman and de Gruijter (1986) therefore recommend to validate each of classification's elements individually and then average these '*partial purities* (accuracies)'. They refer to the resulting validation statistic as the '*average purity*' that is a less conservative accuracy measure and acknowledges that parts of the classification are predicted correctly. We have implemented this approach to validate soil classes here.

For instance, a soil class with 4 elements (RSG + 3 qualifiers) is evaluated 75% correct if 3 out of the 4 elements are correct. The latter is especially relevant when validating predictions at a relatively high level of detail with profile observations recorded with a lower level of detail (missing qualifiers). For instance, a predicted soil class with 4 elements is evaluated 75% correct if 3 elements correspond with all elements of a soil profile with only 3 elements. For each profile such OOB accuracy measure is computed that ranges between 0 and 1 depending on the number of correctly predicted classification elements. The overall accuracy is then computed as the average these (equalling Marsman and de Gruijter's 'average purity' measure).

Note that an additional option would be to give more weight to the validation of RSGs than to that of qualifiers.

See Annex 15 for the overall accuracies for each of the pathways at each level of detail. Pathway 2a-ii and 3 proved to result in the highest accuracies.

Selected mapping approach

The results of each pathway, at each level of detail, were evaluated to select the final approach for producing a final map that represents the optimum between both accuracy and detail. (Note that a higher level of detail (or

precision) generally leads to lower accuracy and vice versa). The evaluation was based on the overall accuracies (objective evaluation), the numbers of unique soil classes (objective evaluation) and the map patterns (subjective evaluation).

The approach to select was either pathway 2a-ii or pathway 3. Both pathways resulted in similar accuracies and comparable spatial patterns. The maps resulting from pathway 2a-ii showed less variation though at the level of the RSGs. We therefore selected pathway 3 as the final approach. The purpose of pathway 3 was to classify soils more accurately than as recorded in the soil profiles dataset on the basis of mapped soil diagnostics and according to the WRB key. The results included small areas with RSGs that were not recorded during the survey such as Phaeozems, Kastanozems and Ferralsols and we considered these results a success. Pathway 3 is definitely very promising and a few more little improvements will certainly further enhance the performance in terms of accuracy and spatial patterns. The pathway also permits to manipulate the outcome (which we did not do) by finetuning of the settings (the thresholds) that define the likeliness of mapping given RSGs.

The selected approach of pathway 3 resulted in an overall accuracy of 0.55 for RSGs. For RSGs with 1 principal qualifier and 0-4 supplementary ones, the accuracy varied between 0.58 to 0.41 and with 2 principal qualifiers between 0.47 and 0.38. These accuracies exceeded those of the other pathways, except pathway 2a-ii, while the decline with increasing detail is only slight relative to the decline shown in pathway 1. These results suggest that it was worthwhile to invest in the development and testing of alternative approaches.

The thematic level of detail selected was RSG+1PQ+3SQs. The accuracy at this level was 0.47 which is low relative to the accuracies at lower levels of detail but more informative whereby the higher accuracies, obtained at the lower levels of detail, were preserved within the class. The spatial pattern at this level of thematic detail was also very detailed but rather granular in especially areas with rugged topography. In general, the granularity increased with increasing levels of thematic detail. In fact, we first selected RSG+2PQs+4SQs but that level of detail proved too high.

Digital soil class map

The raster version of the soil class map, resulting from the selected approach (pathway 3) and according to plan B, is presented in Annex 16. This map provides an overview of the 15 wordas together and has no legend because of the large amount of different soil classes with different combinations of RSGs, PQs and SQs.

Map generalisation and layout

The soil class map has a spatial resolution of 50 m with very granular and too detailed patterns corresponding with a scale of approximately 1: 10.000. Consequently, we generalised, or aggregated, the map by in first instance dissolving mapping units of a size below 16 raster cells (pixels). Assuming a level of detail of 4 units within 1 cm² on a paper map of semi-detailed scale, the smallest unit of the map should be 5x5=25 pixels. This generalisation however proved to result in a large loss of spatial fineness and after a number of trials, with minimum sizes retained of 25, 16, 12, 6 and 3 pixels, we choosed for the latter whereby we emphasised the preservation of elongated features which indicate spatial connectivity. The corresponding scale is well more detailed than the targeted scale of 1: 50,000.

The generalisation inevitably resulted in a small loss of accuracy. However, we could not assess the accuracy of the generalised map through an independent procedure such as the OOB validation procedure that we used to validate the model predictions. Therefore we assessed the so-called map correspondence (Leenaars et al., 2020) which simply compares the mapped classes with observed classes. That map correspondence was 0.48 (similar to the accuracy of the raster predictions) at the selected level of detail and 0.74 at the level of RSGs (much exceeding the accuracy of the raster predictions).

The generalised raster map, of semi-detailed scale, was subsequently polygonised. From the polygon map (shapefile), a layout was created for presentation purposes. However, the multitude of soil classes inhibited to create a layout with a legend that explains all soil classes with all details. Instead, the Reference Soil Groups were indicated by a colour legend more or less corresponding to that of the WRB soil atlases and the combinations of, principal qualifiers within each RSG were delineated and labeled by the corresponding WRB codes. (See WRB manual or the file 'WRB_diagnostics.xlsx' for the code descriptions). The combinations of supplementary qualifiers were also delineated by thin lines but the mapping units were too small in size to label them by WRB codes and GIS software is required to query for the supplementary qualifiers. The resulting map is given per woreda in Annex 17 and the corresponding full legend in Annex 18.

Final reporting

The current report serves as the final project report for the BENEFIT-REALISE programme.

WP5. Dissemination

Several dissemination activities were proposed but only approved was the preparation of a peer-reviewed publication.

Plan: Dissemination

Collect 4 reference profiles to add to the world soil museum (not in this ToR)

Dissemination, regionally, nationally, internationally, incl. online (not in this ToR)

Publish about results

- o Prepare a peer-reviewed publication about this study

The budget foresaw dissemination through a scientific publication. It has been decided however with the REALISE project management to allocate that budget to work package 6 on capacity building, for two reasons. First, the delay in data availability combined with the approaching end of project date didn't permit to prepare a publication in time. Second, the budget for capacity building was exhausted by the production of the base map while the partner organisation still wished for a training. Therefore the latter has been prepared.

The REALISE project management proposed to contribute to a book titled 'The Soils of Ethiopia'. However, this proved to be unrealistic considering time and the plan B results of the present project.

WP6. Capacity building

The entire project was formulated as a capacity building activity aimed at the Soil Resource Information and Mapping Directorate of the MoA adopting the developed survey and mapping approach to survey and map soil resources at semi-detailed scale in 480 woredas.

Plan: Capacity building

Capacity building activities ESRI

- o tbd

The following concrete capacity building activities have been realised:

- Geomorphic base map at 50 m resolution country-wide, as input to soil survey: preparation and handover to the Ministry of Agriculture
- Covariates at 50 m resolution country-wide, as input to soil mapping : preparation and handover to the Soil Resource Information and Mapping Directorate of the Ministry of Agriculture
- Training Introduction to Digital Soil Mapping with focus on World Reference Base soil classes : preparation and provisioning of a five-day training event to the Soil Resource Information and Mapping Directorate of the Ministry of Agriculture and other institutes.

Training

The online training event took place from November 23rd to December 1st, 2020. It included a section to recapitulate the survey protocol emphasising the necessity to adhere to the standards using the reference materials to produce a soil profiles dataset of high quality serving as input to Digital Soil Mapping to produce soil class maps of high quality. Further included was a section to introduce R for processing and analysing spatial data and a section of four days focused on digital soil class mapping using Random Forest through a series of lectures and hands-on exercises. See Annex 19 for the training program. The training was a success because all parties were well prepared and motivated.

Conclusion

The project work plan has been implemented and realised, including so-called taskforce modalities with committed partners, and targeted products have been produced. The implementation deviated from the original workplan where necessary and in consultation with the REALISE programme management. Reasons for deviation include unforeseen challenges due to one of the taskforce modalities (increase of scale), delayed availability of survey data as well as the lack of analytical data due to external circumstances (e.g. outbreaks of unrest and a pandemic), and the request for an additional capacity building activity. As a result, the soil profiles dataset and the soil class map at semi-detailed scale have been produced according to 'plan B', based on 'available field classifications'. An overview of the delivered products is given in Annex 20.

The resulting soil class map represents the distribution of soil resources across the landscapes with a high spatial detail whereby the accuracy depends on the thematic detail of the map. The overall accuracy of the map is 0.47 when showing soils classified at a high level of thematic detail, including one principal and three supplementary qualifiers, and 0.58 when showing soils classified at a lower level of detail including one principal and one supplementary qualifier. These accuracies are assessed through independent model validation relative to the profile observations and are considered satisfactory, given the variable quality of the profile classifications, with only a limited decrease of accuracy at increasing thematic detail. The latter fact is the result of the alternative mapping approach that we developed during the project. RSGs are predicted with an accuracy of 0.55 and the final polygon map shows a correspondence between mapped and observed RSGs of 0.74.

The accuracy would probably be higher if 'plan A' could have been implemented. In any follow up survey, particular attention should be paid to the selection of soil profile locations so as to cover the variability shown by the survey base map. Similarly, more attention should be paid to improve classification of the soils from the profile pits as well as from the auger observations using the agreed upon standards.

An important conclusion from the project is that the World Reference Base for soil resources provides a system for soil classification which requires a considerable to high level of pedological knowledge and experience. When aiming to map soil classes at semi-detailed scale with a commensurate level of detail in the classification, using digital soil mapping techniques, proved to be a complex and difficult procedure. It is therefore suggested to agree

a simplified and tailored pragmatic version of the system (i. e. a step towards an Ethiopian Soil Classification System) for the purpose of semi-detailed soil resources survey and mapping in Ethiopia at scale.

Acknowledgements

This project has been made possible by the BENEFIT-REALISE programme funded by the Ministry of Foreign Affairs of the Netherlands. Special thanks go to the REALISE programme leader Remko Vonk of Wageningen Environmental Research, the REALISE programme manager Tewodros Tefera and the REALISE soil coordinator Ashenafi Ali. Much appreciation is due to the lead soil surveyors Gebeyehu Belay, Kefyalew Assefa, Mekonen Getahun, Gebereyohans Girmay and their teams.

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Acronyms

BENEFIT	Bilateral Ethiopia-Netherlands Effort for Food, Income and Trade partnership
CASCAPE	Capacity building for scaling up of evidence-based best practices in agricultural production in Ethiopia
ESRI	Ethiopian Soil Resources Institute
ID	Identifier
ISRIC	International Soil Reference and Information Centre (legal name of ISRIC - World Soil Information)
MoA	Ministry of Agriculture
NSC	National soil coordinator
OOB	Out of Bag validation
PQ	Principal qualifier (WRB)
REALISE	Realising Sustainable Agricultural Livelihood Security in Ethiopia programme
RF	Random Forest
RSG	Reference Soil Group (WRB)
SQ	Supplementary qualifier (WRB)
WP	Work package
WUR	Wageningen University and Research
WRB	World Reference Base for soil resources

Annex 1. Work plan to survey and map the soils of REALISE woredas (terms of reference)

Background

The Bilateral Ethiopia-Netherlands Effort for Food, Income and Trade (BENEFIT), which is funded by the Government of the Netherlands through its Embassy in Addis Ababa, aims to improve sustainable food, income and trade among rural households in Ethiopia. BENEFIT works in collaboration with Wageningen UR in the Netherlands. The BENEFIT Partnership, which also collaborate with Wageningen UR in the Netherlands, unites five agricultural development programs. The Integrated Seed Sector Development in Ethiopia (ISSD Ethiopia) program, the capacity building for scaling up of evidence-based best practices in agricultural production in Ethiopia (CASCAPE) program, the Ethiopian-Netherlands Trade Facility for Agribusiness (ENTAG), the Sesame Business Network (SBN) support program, and Realising Sustainable Agricultural Livelihood Security in Ethiopia (REALISE). The BENEFIT Partnership Coordination Unit (PCU) provides leadership and support to the five programs in the areas of programme coordination and management, financial control, monitoring and evaluation, gender and nutrition. The BENEFIT PCU and all programme managers are hosted at the BENEFIT programme office in Addis Ababa.

The BENEFIT-REALISE programme is operating in alignment with productive safety net programme (PSNP) in 60 PSNP woredas. The programme aims to improve food and nutrition security of the targeted households, which are chronically food insecure, through increased production and productivity and capacity building.

Coherent information about soil-landscape resources, including geographic distribution and characteristics, is fundamental for defining natural and agricultural resource management interventions in any area.

Therefore, BENEFIT-REALISE programme in collaboration with MoA and ATA would like to support a study to produce a coherent dataset of the major soil-landscape resources of 18 REALISE intervention woredas including maps at semi-detailed scale and associated soil property data. The study encompasses the survey (identification, classification, characterization) and mapping of the major soils in the woreda landscapes. The programme is planning to deploy six lead soil surveyors (geo-pedologists) who have sufficient academic background and proven experiences in surveying soil-landscape resources, including soil classification according to WRB, and six assisting soil surveyors with adequate GIS & data processing expertise who will assist the survey both in the office and the field.

Scope and methodologic approach of the study

The study will be conducted on the agricultural and not-agricultural lands of 18 REALISE intervention woredas in 4 regions (Annex 1) together covering approximately 16,795 km². Involved are 8 universities representing 8 minor clusters including Mekelle (Tigray), Bahir Dar (Amhara), Woldia (Amhara), Arsi (Oromia Central), Oda Bultum (Oromia East) and Haramaya (Oromia East), Abar Minch (SNNPR) and Hawassa (SNNPR). Six teams will be established for survey of 18 woredas (3 woredas per team). Base maps will be prepared and provided by the project and will serve as a guidance for the localization of soil observation points. The survey will be conducted at a density of on average one observation per about 424 ha, which will be 220 observations per woreda, including detailed soil pit observations (20) and auger observations (200). Each observation point needs to be classified according to the World Reference Base (WRB) for soil resources (IUSS, 2015) and all data, both from the field and the laboratory, need to be processed and recorded in data tables strictly according to the standards of a data entry template provided by ISRIC. Using that data, ISRIC will produce the soil-landscape resources maps for each woreda at a final scale of 1: 50,000.

Two base maps will be prepared and provided by the project indicating 1) geomorphic landscape elements at 1: 50,000 scale, derived from DEM, and 2) hypothetical soil-units, classified according to the legend of the soil map of the world, at approximately 1: 250,000 disaggregated from the national Geomorphology and Soils map of Ethiopia. The field surveys should cover the full diversity indicated on these base maps, irrespective of administrative boundary of kebeles. Additionally, the surveyors will consult additional sources of information and data to understand the geomorphology and soils of the area before starting the field survey.

Auger descriptions will be made along transects running across the base map units and tentatively classified in the field. These classifications serve the identification of the major soils in the area and for each of the identified major soils, a representative location will be selected and a soil pit will be dug, to a depth of at least 180 cm bedrock permitting, for a full profile description. Samples will be collected from each of the identified horizons for laboratory analysis to support final classification of the soil profile and detailed characterization of the classified soil. The tentative field classifications of the auger observations will be adjusted to the final classifications. Soil classification is according to the WRB for Soil Resources (IUSS, 2015). Auger and pit descriptions will be carried out using field forms prepared according to the data standards of the Guidelines for soil description (FAO, 2006).

Objectives

Objective of the project is to produce a coherent dataset of the major soil types of the REALISE intervention woredas including maps of the major soil-landscape resources and associated soil property data (identify, characterise, classify and map the major soil types), followed by capacity building activities, including training, of a yet to be defined Ethiopian partner organisation.

Specific objectives

- To prepare the soil survey
- To guide the conductance of the soil survey
 - To verify soil variability and to identify major soil types in each woreda through auger observations, based on the outcome of preparatory work and specifically on the, prepared, baseline soil maps;
 - To characterise and classify the major soil types by recording their morphological, physical and chemical characteristics including their diagnostic horizons, properties and materials, through observations and measurements in soil pits and laboratory.
- To process the soil survey into a coherent dataset including maps and associated soil property data.
- To plan and conduct capacity building activities with a yet to be defined Ethiopian partner organisation.

Outline of the work plan activities

The study will involve the research elements and activities as described hereafter. Details are given in annex 2.

- Prepare soil survey (ISRIC executes)
 - Validate, adjust and prepare full procedure
 - Define Aoi
 - Produce base map
 - Prepare survey scheme
 - Prepare standards, tools, materials
 - Prepare ToR's for surveyors incl. in country workflow (pre field, field, post field work)
 - Validate the proper team composition
 - Prepare and conduct training workshop

- Conduct soil survey (ISRIC supervises)

Pre-field

- Plan and prepare logistics

Field

- Exploratory survey of the woredas to verify and distinguish soil types according to the base map
- Prepare and conduct field backstopping & correlation work
- Distinguish preliminary soil types and soil diagnostics
- Detailed characterization and interpretation of soil profiles (soil pits) that are seen as representative for the distinguished preliminary soil types, including description, sampling, field diagnostics and field classification,
- Data entry and sample administration, according to templates
- Full survey (soil augers) of each woreda to map the distribution of distinguished soil types, according to the base map, possibly identifying new soil types to sample

Post-field

- Submit administrated samples to soil laboratory, in 4 batches (4 weeks)
- Data entry continued, data analysis including error checking and possibly revisit of laboratory.
- Preliminary soil classifications verified against analytical data and final classification according to WRB2014/15.
- Reporting per region and per woreda, which emphasis on the hard data. A reporting template to be defined.
- Transfer of results.

- Process soil survey into a dataset (ISRIC executes)
 - Review of data, diagnostics, classifications and reports
 - Discuss and correct data, diagnostics, classifications and reports
 - Compile all datasets into one, compile all reports into one
 - Prepare mapping procedure (prepare data, covariates, R scripts, tests)
 - Produce & validate maps of RSG and of diagnostics
 - Aggregate raster maps to polygon maps, layout of maps
 - Attribute soil property data to, mapped, soil types
 - Report
 - Make results, incl. metadata, available online
 - Handover the results and, together with the REALISE programme management, define the correct attribution.
 - If within scope, possible and relevant: publish about results and combine these results with results from other actors (EthioSIS, CASCAPE, etc.)

- Management (ISRIC responsible)
 - Communication with PMU, the national coordinator and surveyors
 - Management
 - Administration
 - Scientific advice, editing, quality control
- Capacity building of a yet to be defined Ethiopian partner organisation (This section will be further worked out in the first three months of the assignment)
 - Plan capacity building goals and activities, incl. training, together with PMU and relevant Ethiopian partners.
 - Prepare activities
 - Conduct activities
 - Brief report

Timeline for the work to be carried out

The work to be carried out, as summarised above, is outlined in detail in annex 2 and the associated draft timeline is given a separate spreadsheet and copied into annex 3. This draft timeline is rather tight and still provisory and needs further fine tuning depending a. o. on the timing of contract signature and the actual start of the project, the work load of ISRIC staff for other, parallel, projects (yet planned due to late contract signature) and summer holidays as well as on the conditions in Ethiopia (such as the assignment of the national (Ethiopian) coordinating sr. soil scientist, the recruitment of surveyors, start of the field work period, weather, duration of the field work and of the throughput in laboratory, and ultimately the partner institute. Tentatively estimated points in time (starting in 2019) are estimated as:

- Contract signature: December 2017, postponed to August 2018, further postponed to week 11 (March 14th, 2019)
- Start project: January 2018, postponed to August 2018, further postponed to week 11 (March 15th, 2019)
- Base maps, standards, tools and materials prepared: week 16 (April 19th, 2019)
- Training workshop: week 20 (May 17th, 2019); to be decided together with national coordinator
- Start pre-field work: week 21 (May 2019)
- Start field work: week 23 (June 2019); to be decided together with national coordinator
- Backstopping field work: week 25 (June 2019); to be decided together with national coordinator
- Submit samples to laboratory in 4 batches: week 32, 33, 34, 35 (Aug 2019); rapid throughput arranged by national coordinator
- End field work: week 37 (Sep 2019)
- End post-field work (data incl. lab data, classifications, brief reports): week 44 (Oct 2019)
- Review workshop survey results (data, classifications, brief reports): week 48 (Nov 2019)
- All data and brief reports corrected and compiled into one: week 51 (Dec 2019)
- Data, covariates and scripts prepared: week 57 (January 2020)
- Maps produced and validated: week 59 (Feb 2020)
- Polygon maps produced, validated and layout: week 61 (Feb 2020)
- Final products made available: week 62 (March 2020)
- End mapping project: week 64 (March 2020)
- *Prepare capacity building of a yet to be defined Ethiopian partner organisation including training: week 67 (April 2020)*
- *Capacity building including training: week 68 (April 2020)*
- Prepare a joint paper: week 79 (June 2020)
- End of project: week 102 (Dec 2020)

The dates mentioned here above need updating according to the actual start of project and are tentative.

Detailed scheduling of the time required from ISRIC

The work activities to be carried out, including those required from ISRIC and as summarised above, are outlined in detail in annex 2 and the associated draft schedule of the time required from ISRIC is detailed in a separate spreadsheet and copied into annex 4a. Note that this schedule is a preliminary estimate and based on the assumption that the Ethiopian senior soil scientist (coordinator) carries out part of the work activities as delegated by ISRIC and included in the work plan.

Budget for the involvement of ISRIC.

The work activities to be carried out including those required from ISRIC are outlined in detail in annex 2 and the associated draft budget estimated for the involvement of ISRIC, based on EZ tariffs, is given in a separate spreadsheet and copied into annex 4b. Note that this budget is a preliminary estimate and the current version is based on the assumption that the Ethiopian senior soil scientist (national coordinator) carries out part of the work activities as delegated by ISRIC and as separately budgeted for REALISE.

Annex 2. Modalities to the contract agreement and ToRs (pending issues)

(Was annex 8 of the work plan including terms of reference of the project agreement)

From: Tewodros Amede
Sent: dinsdag 5 maart 2019 12:06
To: Johan Leenaars; Vonk, Remko
Cc: Mulugeta D. Chimsa <md.chimsa@yahoo.com>
Subject: Updating the soil mapping ToR

Dear Johan and Remko,

I hope you are well and this email find you in good health,

In March 4, 2019 we had our first task force meeting to discuss on the operational modalities of soil mapping. Many things were raised. I summarised key issues which need you attention and may also lead to modification of the ToR.

1. The Ministry of Agriculture (MoA) indicated that the scale of the soil map should be 1:50,000. This decision is made at ministerial levels and they want every project or government initiated soil mapping exercise should follow the same approaches and the scale should also be semi details one.

We believe that this suggestion will have implication on intensity of observation and associated cost. We argued that this suggestion will have a direct consequences on the number of woredas to compensate the cost inflation due to the scale modification.

Action point: Please inform us what is the implication of the scale change on cost and time and whether there is a need to reduce the number of woredas

2. Capacity building interest has been explicitly communicated. Some of this interest is also included in the ToR. However, the MoA is particularity interested on output generation (mapping) and modelling and algorithm related capacity development. They mentioned that the MoA are well equipped in terms of materials and facilities.

Action point: ISRIC need to make some capacity gaps assessment to develop effective capacity development plan

3. One step mapping. The idea of one step mapping has been challenged by the task force and they insist validation should be part of the procedure

Action point: ISRIC needs to justify the validity and acceptance of one step procedure

4. Profile of soil surveyors- we received list of suggested soil surveyors from the research institutes, universities and freelance consultants. We further refine the list for further communication. However, generally what is indicated as a profile in the ToR is weak and require revision both in academic qualification and experiences.

Action point: reflection

5. Random forest model- the task force members recognise the RFM but they suggest machine learning model to be indicated in the ToR. They believe the former is too specific.

Action point: Reflection

In addition, I included the ToR with my comments for revision.

Kind regards, Tewodros Tefera (Ph.D), REALISE Programme Manager

Annex 3. Detailed workplan (update December 2019)

(Was part of annex 3 of the work plan including terms of reference of the project agreement detailing the planning of activities)

Work Plan

Work (survey) in Ethiopia is managed by REALISE

- Prepare soil survey
 - Design and prepare full procedure
 - o Design procedure to produce and validate a definitive map;
 - Define Aol
 - o Identify the REALISE woredas, including definition of stable ID's and delineations (Aol)
 - Produce base map
 - o Compile existing data, disaggregate Soils & Geomorphology maps (FAO, 1984) ;
 - o Produce base map of hypothesised soil-landscapes using the disaggregated Soils & Geomorphology map
 - Prepare survey scheme
 - o Design baseline soil survey of selected kebelas (augers)
 - o Design procedure to distinguish the preliminary soil types
 - o Design detailed soil characterisation (soil pits)
 - o Design full survey of woredas (augers)
 - Prepare standards, tools, materials
 - o Prepare standards, tools and materials for field survey
 - o Contract analytical laboratory
 - Prepare ToR's for surveyors incl. workflow (pre field work, field work, post field work)
 - Prepare and conduct training workshop
 - o Preparation of training workshop
 - o Training workshop, 5 days, exercising in room and in field
 - o Adapt designs, standards etc. if necessary following workshop

- Conduct soil survey

Pre-field

- Plan and prepare logistics
 - o Pre-field preparations including planning (timeline)
 - o One agronomist/natural resources specialist to assist the consultant
 - o Get acquainted with protocol incl. standards, tools, materials (base map, guidelines, wrb, templates etc.)
 - o Prepare a survey scheme according to the base map
 - o Announcement of start of field work.

2

Field

- Exploratory survey to verify and distinguish soil types according to the base map
 - o Conduct exploratory baseline soil survey
 - o Augering according to base map
- Prepare and conduct field backstopping & correlation work
 - o Prepare field backstopping & correlation work
 - o Conduct field backstopping & correlation work
- Distinguish major soil types and diagnostics
 - o Exploratory survey leads to the preliminary identification of soil types and diagnostics,
- Detailed characterization and interpretation of soil profiles (soil pits)
 - o Open soil profiles to classify and describe in detail
 - o The designated soil horizons of the soil pits are sampled
- Sample administration and data entry, according to templates
- Full survey (augers) of each woreda to validate map soil types
 - o Augers are classified and described

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Post-field (back to office)

- Submit administrated samples to soil laboratory
 - o Submit batch 1 of the samples to the lab, with the sample administration shared with the national soil coordinator
 - o Submit batch 2,3,4 of the samples to the lab, with the sample administration shared with the national soil coordinator
 - o Sample preparation and analysis of key soil parameters
 - o The lab shares the results with national soil coordinator and the national soil coordinator with the surveyors

- Data entry continued, data analysis including error checking and possibly revisit of laboratory.
 - o Compile the data from augers and soil pits in a standard database.
 - o Data quality control incl. laboratory results, re-analyse samples if necessary
- Final soil classification based on analytical data according to WRB2014/15.
- To the point reporting per region and per woreda
 - o The draft report will have to be sent to the national soil coordinator and ISRIC
 - o Includes: A synthesis (of the cluster and the woreda)
 - o A description of the soil-landscape (matrix soils-landscapes)
 - o Full characterization of the representative soil profiles (soil pits)
 - o Auger profile descriptions incl. soil types
 - o Agronomic observations per soil type
 - o Match between farmers' soil types and WRB soil types
 - o Deliverable: report, including map and annexes (soft copies)
- Sharing of results (datasets & reports)

9

- Process soil survey into an overall dataset including profile data and maps
- Review of data, diagnostics, classifications and reports (6 * for 18 woredas)
 - o Review of data, diagnostics, classifications
 - o Review of reports
- Discuss and correct data, diagnostics, classifications and reports
 - o Session in Addis to discuss data, diagnostics, classifications
 - o Session in Addis to discuss reports
 - o Correct data, diagnostics, classifications
 - o Correct reports

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- Compile all datasets into one, compile all reports into one
 - o Compile all datasets into one, incl. corrections
 - o Compile all reports into one, incl. corrections
- Prepare mapping procedure
 - o Prepare data
 - o Prepare covariates

- o Prepare R scripts
 - o Prepare and do tests
- Produce & validate maps of RSG and of diagnostics
 - o Produce maps
 - o Validate maps
- Aggregate raster maps to polygon maps, layout of maps
- Attribute soil property data to, mapped, soil types
- Report
- Make results, incl. metadata, available online

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Dissemination

- Collect 4 reference profiles to add to the world soil museum (not in this ToR)
 - o Prepare field work
 - o Do field work
 - o Transport monoliths (4 to Wageningen, possibly 4 to Addis)
 - o Send samples to reference laboratory, analysis
 - o Process data, diagnostics, classifications
- Dissemination, regionally, nationally, internationally, incl. online (not in this ToR)
 - o Regionally; workshop with field excursion for regional REALISE teams
 - o Nationally; to be determined
 - o Internationally; add 4 profiles to museum
 - o Internationally; prepare a publication
- Publish about results
 - o Prepare a publication about this study

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Capacity building

- Adjust ToRs according to last minute changes: DONE in 2019
- Prepare terrain map 1: 50.000 scale (base map): DONE in 2019
 - tbd
 - tbd
- Capacity building activities ESRI

tbd

0

- Management
- Communication 30 min. p. week, with WEnR, national soil coordinator and 4 clusters (12 surveyors) during 78 weeks
- Management, during 78 weeks, 15 min per week
- Administration, during 78 weeks, 10 min per week
- Scientific advice, editing, quality control

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Annex 4. ToRs for soil characterization in selected BENEFIT-REALISE woredas

(Included in the contract agreements with the individual soil surveyors)

Background

The Bilateral Ethiopia-Netherlands Effort for Food, Income and Trade (BENEFIT), which is funded by the Government of the Netherlands through its Embassy in Addis Ababa, aims to improve sustainable food, income and trade among rural households in Ethiopia. BENEFIT works in collaboration with Wageningen UR in the Netherlands. The BENEFIT Partnership, which also collaborates with Wageningen UR in the Netherlands, unites five agricultural development programs. The Integrated Seed Sector Development in Ethiopia (ISSD Ethiopia) program, the capacity building for scaling up of evidence-based best practices in agricultural production in Ethiopia (CASCAPE) program, the Ethiopian-Netherlands Trade Facility for Agribusiness (ENTAG), the Sesame Business Network (SBN) support program, and Realising Sustainable Agricultural Livelihood Security in Ethiopia (REALISE). The BENEFIT Partnership Coordination Unit (PCU) provides leadership and support to the five programs in the areas of programme coordination and management, financial control, monitoring and evaluation, gender and nutrition. The BENEFIT PCU and all programme managers are hosted at the BENEFIT programme office in Addis Ababa.

The BENEFIT-REALISE programme is operating in alignment with productive safety net programme (PSNP) in 60 PSNP woredas. The programme aims to improve food and nutrition security of the targeted households, which are chronically food insecure, through increased production and productivity and capacity building.

Coherent information about soil-landscape resources, including geographic distribution and characteristics, is fundamental for defining natural and agricultural resource management interventions in any area.

Therefore, BENEFIT-REALISE programme in collaboration with MoA and ATA would like to support a study to produce a coherent dataset of the major soil-landscape resources of 18 REALISE intervention woredas including maps at semi-detailed scale and associated soil property data. The study encompasses the survey (identification, classification, characterization) and mapping of the major soils in the woreda landscapes. The programme is planning to deploy six lead soil surveyors (geopedologists) who have sufficient academic background and proven experiences in surveying soil-landscape resources, including soil classification according to WRB, and six assisting soil surveyors with adequate GIS & data processing expertise who will assist the survey both in the office and the field.

Scope and methodologic approach of the study

The study will be conducted on the agricultural and not-agricultural lands of 18 REALISE intervention woredas in 4 regions (Annex 1) together covering approximately 16,795 km². Involved are 8 universities representing 8 minor clusters including Mekelle (Tigray), Bahir Dar (Amhara), Woldia (Amhara), Arsi (Oromia Central), Oda Bultum (Oromia East) and Haramaya (Oromia East), Abar Minch (SNNPR) and Hawassa (SNNPR). Six teams will be established for survey of 18 woredas (3 woredas per team). Base maps will be prepared and provided by the project and will serve as a guidance for the localization of soil observation points. The survey will be conducted at a density of on average one observation per about 424 ha, which will be 220 observations per woreda, including detailed soil pit observations and auger observations. Each observation point needs to be classified according to the World Reference Base (WRB) for soil resources (IUSS, 2015) and all data, both from the field and the laboratory, need to be processed and recorded in data tables strictly according to the standards of a data entry template provided by ISRIC. Using that data, ISRIC will produce the soil-landscape resources maps for each woreda at a final scale of 1: 50,000. The final polygon maps will be derived from raster maps produced by machine learning at a resolution of 250m (or finer). This implies minimally 4 map pixels depicted on 1 cm² (500 m * 500 m) of a paper map at 1:50,000 with the smallest mapping units representing a surface of 250*250m = 6.25 ha.

Base maps will be prepared and provided by the project indicating landscape elements at 1: 50,000 scale and soil-units at approximately 1: 250,000 disaggregated from the national Geomorphology and Soils map of Ethiopia. The field surveys should cover the full diversity indicated on these base maps, irrespective of administrative boundary of kebeles. Additionally, the surveyors conduct literature review, interpretation of topographic maps and satellite images of the woredas as well as relief intensity, topographic features, genesis of the landforms and major parent materials to better understand the geomorphology and soils of the area before starting the field survey.

Auger descriptions will be made to a depth of at least 120 cm, bedrock permitting, along transects running across the base map units and tentatively classified in the field. These classifications serve the identification of the major soils in the area and for each of the identified major soils, a representative location will be selected and a soil pit will be dug, to a depth of at least 180 cm bedrock permitting, for a full profile description. Samples will be collected from each of the identified horizons for laboratory analysis to support final classification of the soil profile and detailed characterization of the classified soil. Soil classification is according to the WRB for Soil Resources (IUSS, 2015). Auger and pit descriptions will be carried out using field forms prepared according to the data standards of the Guidelines for soil description (FAO, 2006).

Tasks of the consultants/surveyors

The survey assignment includes pre-field, field and post-field work plus two workshops at the start and near the end of the assignment. See annex 2 for a summary outline of the survey activities, here below specified as tasks. The survey activities must start and finish, and the deliverables delivered, according to the scheduled timeline given in annex 3. The number of augers and pits to be described and classified is specified in annex 4 together with the number of samples to be collected. Pre-field:

- Participate in the preparatory training workshop;
- Study the base maps prepared and provided by the project. Additionally, review and assess previous soil survey studies carried out in the area, including the PRA's produced by REALISE team, as well as -mapping- studies concerning land use, land cover, agro-ecology, topography, geomorphology and geology and combine this information with the base maps for better survey design;
- Prepare a survey field plan for each woreda, indicating the targeted auger locations on the base maps considering the targeted number of auger observations and the variability indicated on the base maps;
- Prepare a time plan for the survey considering the number and localisation of auger hole descriptions (200 per woreda) and the number of soil pit descriptions (20 per woreda). Define activities and timing;
- Prepare survey materials. The surveyors will organise all materials required in the field (auger, sample bags, labels, marker, GPS/altitude/inclinometer, knife, pick, cm-ruler, field test kits (10% HCl), etc.) together with the materials provided by the project (base maps, guidelines for soil description (FAO, 2006), WRB for soil resources (IUSS, 2015), field form for auger observations, field form for pit descriptions, data entry template);

Field:

- Conduct soil survey at 1: 50.000 scale in three woredas per team (18 in total) on both agricultural and non-agricultural land through georeferenced auger hole observations (minimally 200 per woreda) following the base maps with associated instructions (cover all map units distinguished on the base maps). Describe the auger holes to a depth of 120 cm, or to bedrock if shallower (also describing the bedrock), by distinguishing major depth intervals and using the field form provided by the project (prepared from elements selected from the Guidelines for soil description). Record diagnostic horizons, properties or materials recognised in the auger hole and classify the soil in the field as RSG, with qualifiers, according to WRB (IUSS, 2015). Also classify the soil as a local soil type according to farmers classification. Records of the auger hole descriptions (field forms) will be kept and the recorded data will be digitized by the surveyor;
- Distinguish and identify the major, most common, soils in the woreda. Note that the major soils will be identified on the basis of the WRB field classifications, considering both the RSGs and qualifiers, and possibly also considering farmer's classification;
- Select representative locations within the woreda landscape for each of the identified major soils and dig at least one soil pit, up to a depth of at least 180 cm (if bedrock allows), in each of the major soils. (On average 20 pits per woreda). Make sure that you have identified the auger points for which this soil pit is representative. Describe the soil pit in detail to a depth of 180 cm, or to bedrock if shallower (also describing the bedrock), by distinguishing and designating the horizons and using the extended field form provided by the project (prepared from the Guidelines for soil description). Record diagnostic horizons, properties or materials observed in the soil pit and classify the soil as RSG, with principal and supplementary qualifiers, according to WRB (IUSS, 2015). Also classify the soil as a local soil type according to farmers classification. Records of the soil pit descriptions (field forms) will be kept and the recorded data will be digitized by the surveyor;
- Collect a soil sample (properly labelled) from each of the horizons distinguished in the soil pit, with a minimum of four samples per profile. Take two samples from two depth intervals within a horizon in case that the horizon is over 60 cm thick (and specify sample depths on the profile description). The total number of samples per woreda is 90 of which 60 are collected from 15 pits with 4 horizons, 25 from 5 pits with 5 horizons and 5 are hidden duplicates.
- Deliver the soil samples to the national coordinator (or cluster manager) who will deliver the samples to an agreed domestic soil laboratory for analysis of minimally the following soil parameters: sand, silt, clay, pH-H₂O, pH-KCl, EC, organic C, total N, total P, P-Olsen, CEC, exchangeable acidity, exchange bases (Ca, Mg, K, Na). Micro-nutrients, including S and Zn, of first and second horizon only.
- Continue with augering and with describing representative soil pits.

Post-field:

- After analysis, collect the soil analytical data and enter the data in the soil database table, specifying the soil profile ID, the soil sample ID and the soil properties, the soil property values, the units of the soil property values and the methods to measure soil property values, strictly according to the standards of the provided data format.
- Use the soil analytical data to make a definitive classification of the representative soil profiles (soil pits) according to the World Reference Base for Soil Resources (IUSS, 2014) up to the level of a RSG including all principal and supplementary qualifiers;
- Distinguish and identify the final version of the major, most common, soils in the woreda specifying the RSG's and the first 3 principal qualifiers, maximally;
- Update (reclassify if needed) the field classifications made for the auger hole observations referring to the final version of major soils in the woreda and referring to the definitive classification of the representative soil profiles;
- Compile all collected data in a soil database table, strictly following the standards of the template provided by the project. All soil profiles (auger points and profile pits) need to be identified (IDs), geo-referenced and classified according to WRB. All depth intervals, associated with the profile IDs, also need to be adequately identified (IDs) and the corresponding data (soil morphologic field observations, soil analytical lab measurements and WRB diagnostics) entered according to the common standard;

- Provide the soil database table to the project;
- Write a concise very brief report of the soil-landscape resources at 1: 50.000 scale per woreda. The report should describe the landscape including landscape elements at 1:50.000, the major soils in relation to the landscape and landscape elements and the physical and chemical properties of the soils, together with a brief interpretation of the soil qualities and constraints for agricultural use. Include the soil database table in an annex as well as the point locations plotted on a map;
- Participate in quality-control review workshop and correct soil database tables, including soil data, diagnostics and classifications, and reports where needed. Provide the corrected soil database table to the project (major deliverable) as well as the corrected report (minor deliverable).
- Post-field additional:
- Provide training on soil-landscape survey to regional experts, as a part of capacity building, when invited.

Provision by the programme

The consultants/ soil surveyors will be trained on soil survey (pre-field, field and post-field) activities by senior experts from ISRIC – World Soil Information. The surveyors also will receive base maps, standard field form templates (or ODK app) for auger and soil pit description and an empty database table serving as a data entry templates. Additional materials include the WRB for soil resources (IUSS, 2015), guidelines for soil description (FAO, 2006), and Munsell color charts (or app; soil analysis). *(Note that devices need to be available if it is decided to use apps for in-field data collection)*. During the field work, the surveyors will receive a few days of backstopping by senior experts from ISRIC.

In each region and for each team, the REALISE cluster manager will assign a pickup car with fuel and a driver for field work and the transportation of soil samples to the national coordinator (or the cluster manager) who'll deliver the samples to the lab.

Within the scope of the programme objective, REALISE agrees to pay consultancy fees to each lead surveyors (based on the contract agreement that will be signed), per-diem and travel costs for participation in the two workshops. The maximum amount of budget days per team is 144 days. The programme will facilitate support for manipulating (base) maps and data tables to assure adequate preparation and conductance of the survey according to the base map and adequate data entry strictly according to the standards of the provided data entry template. The programme will therefore pay for the time of an assistant soil surveyor with adequate GIS & data processing expertise. This assistant soil surveyor will also do the augering. Moreover, the programme pays for labor for digging soil pits.

Reporting

The consultant will report to BENEFIT-REALISE programme National Manager, Dr. Tewodros Tefera, to the programme Coordinator, Ir. Remko Vonk, and to the programme national soil coordinator, A. Ali.

Deliverables

The consultant will provide detailed reports on his/her activities and will produce and provide specific deliverables mentioned under 'tasks of the consultant'. Final payment takes place only upon delivery and acceptance of the indicated deliverables.

Annex 4 continued. A1: Woredas and university clusters for survey for soil characterization

Plan :

S/N	University cluster	No of woredas	Name of woredas	Coordinating university and team
1	Arba Minch	1	Mirab Abaya	Hawassa University for SNNPR (one team: 1 lead surveyor and 2 technicians)
2	Hawassa	2	Silti, Kacha Bira	
3	Bahir Dar	3	Libo Kemikem, Enebise Sar Midir, Lay Gayint	Bahir Dar University for Amhara (two teams: 2 lead surveyors and 4 technicians)
4	Woldia	3	Habru, Raya-Kobo, Wadla	
5	Haramaya	3	Dedder, Jarso, Kersa	Haramaya University for Oromia (two teams: two lead surveyors and 4 technicians)
6	Oda Bultum	1	Doba	
7	Arsi	2	Arsi Negele, Sire	
8	Mekelle	3	Ahferom, Sa'esie Tseda Emba, Hawzien	Mekelle University for Tigray (one team: 1 surveyor and 2 technicians).

Concrete plan :

• BENEFIT-REASE programme introduced to the State Minister of Natural Resources and Food Security, MoA, H.E Dr. Kaba Urgessa in the presence of two directorates (PSNP and Soil Information and Mapping) • Taskforce was established by the State Minister to support the soil mapping activities						
S/N	Clusters	No of woredas	Name of woreda	Coordinators	Suggested pedologist	National coordinator
1	AMU	1	Mirab Abaye	HU	Mr. Nesru Hussien	Ashenafi
2	HwU	3	Silti, Kacha Bira			
3	BDU	3	Libo Kemikem, Enebise Sar Midir, Lay Gayint	BDU	Mr. Mekonnen Getahun / Mr. Gebeyehu Belaye	
4	WU	3	Habru, Raya-kobo, Wadla			
5	HrU	3	Dedder, Jarso, Kersa	HrU	Dr. Alemayehu Regassa / Kefyalew Assefa	
6	AU	2	Arsi Negele, Sire			
7	OBU	1	Doba			
8	MU	3	Ahferom, Sa'esie Tseda Emba, Hawzien	MU	Dr. Amanuel	

Implementation of plan :

Old lead	New lead	Region	Woreda	Surveyed?
Gebeyehu_Belay	Gebeyehu Belay	SNNP	Mirab Abaya	Y
			Silti	Y
			Kacha Bira	Y
Alemayehu_Regassa	Kefyalew Assefa	Oromia C	Sire	Y
			Doba	Y
			Arsi Negele	Y
Senbeta_Esata	NOT SURVEYED	Oromia E	Deder	N
			Jarso	N
			Kersa	N
Mekonnen_Getahun	Mekonnen Getahun	Amhara W	Enbise Sar Midir	Y
			Libo Kemikem	Y
			Lay Gayinth	Y
Mekonnen_Getahun2	Mekonnen Getahun2	Amhara E	Raya Kobo	Y
			Habru	Y
			Wadla	Y
Geberyohans_Girmay	Gebereyohans Girmay	Tigray	Ahferom	Y
			Hawzen	Y
			Saesie Tsaeda Emba	Y

Annex 4 continued. A2: Summary outline of survey activities

Pre-field

- Training workshop
- Plan and prepare logistics

Field

- Exploratory survey of the woredas to verify and distinguish soil types according to the base map
- Prepare and conduct field backstopping & correlation work
- Distinguish preliminary soil types and soil diagnostics
- Detailed characterization and interpretation of soil profiles (soil pits) that are seen as representative for the distinguished preliminary soil types, including description, sampling, field diagnostics and field classification,
- Data entry and sample administration, according to templates
- Full survey (soil augers) of each woreda to map the distribution of distinguished soil types, according to the base map, possibly identifying new soil types to sample

Post-field

- Submit administrated samples to soil laboratory, in a number of batches (not all together at the end)
- Data entry continued, data analysis including error checking and possibly revisit of laboratory.
- Preliminary soil classifications verified against analytical data and final classification according to WRB2015.
- Reporting per woreda, which emphasis on the hard data. A reporting template to be defined.
- Transfer of temporary results.
- Review workshop
- Correction of data, diagnostics, classifications and brief report and transfer of final results

Annex 4 continued. A3: Survey timeline with milestones and budget days per team

- Start pre-field: week 40 (Oct 2019); 18 days
 - Training workshop: week 43 (Oct 2019)
 - End pre-field work: week 45 (Nov 2019)
- Start field work: week 46 (Nov 2019); 90 days
 - Backstopping field work: week 47, 48, 49 or 50 (Nov-Dec 2019)
 - Submit samples to laboratory in 4 batches: week 3, 4, 5, 6 (Jan-Feb 2020)
 - End field work: week 11 (Mar 2020)
- Start post-field work: week 12 (Mar 2020); 36 days
 - Temporary end post-field (data entry, classifications, brief reports): week 15 (Apr 2020)
 - Review workshop results (data, classifications, brief reports): week 19 (May 2020)
 - End post-field work (corrected data, classifications, brief reports): week 22 (May 2020)
- End assignment: week 22 (May 2020); 0 days

Project throughput time: 28 weeks (7.5 months)

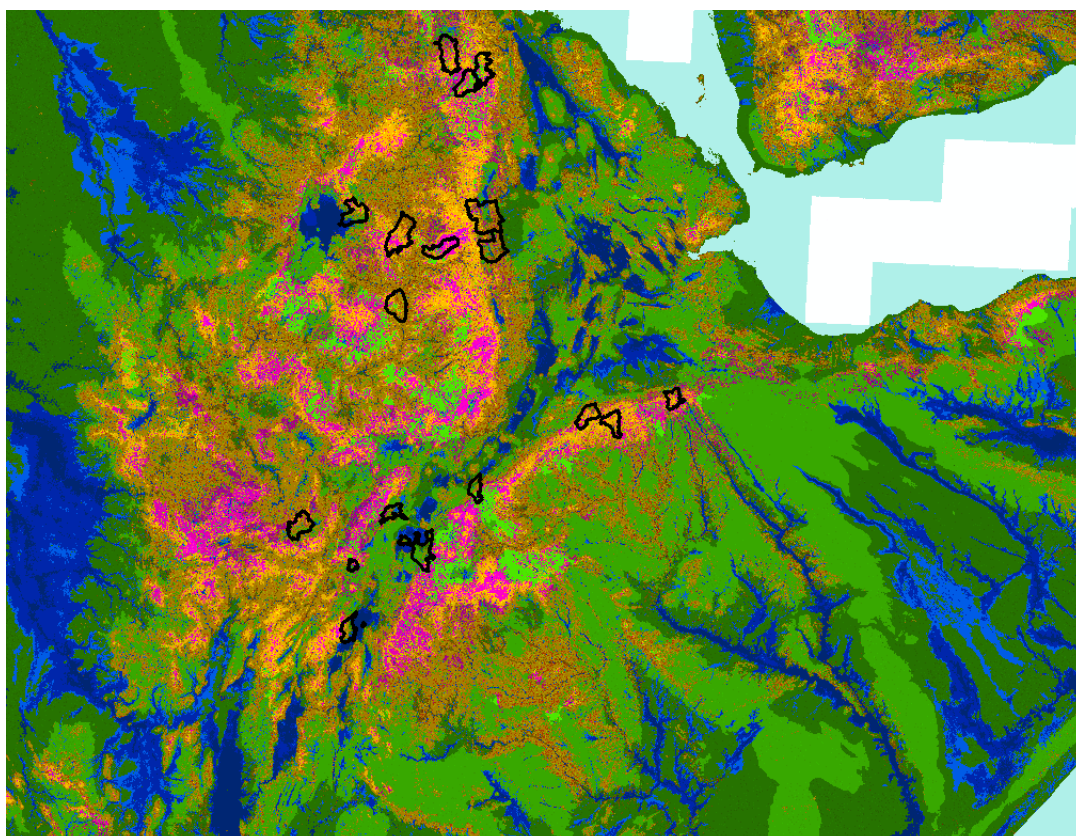
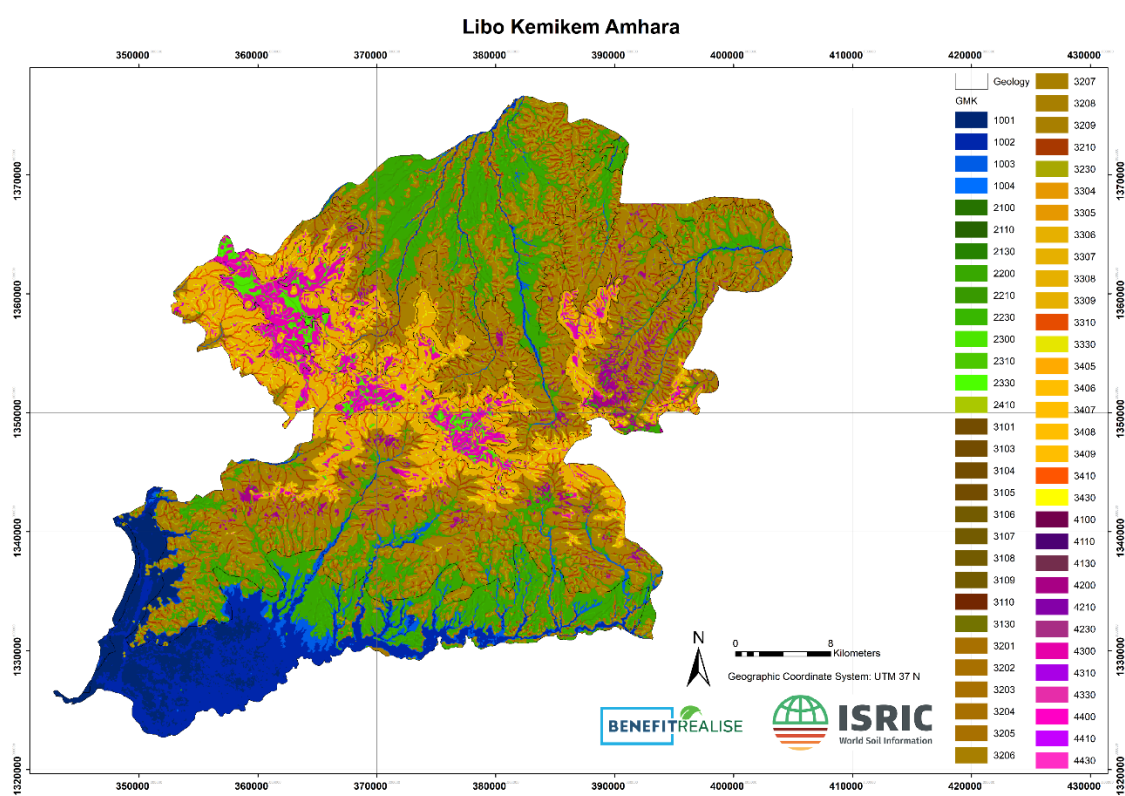
Budget days per team: $18 + 90 + 36 = 144$ days

Annex 4 continued. A4: Survey observations made from augers, pits and samples

- Augers: 600 per team (200 per woreda; total = 3600); 15 augers per day = 40 days
- Pits: 60 per team (20 per woreda; total = 360); 2 pits per day = 30 days
- Samples: 270 per team (90 per woreda; total = 1620); $3/4^{\text{th}}$ of the pits * 4 horizons + $1/4^{\text{th}}$ of the pits * 5 horizons + 5 hidden duplicates

Annex 5. Geomorphic base map at 50 m resolution

a) selected woreda including geology, b) whole country excluding geology, c) legend incl. aggregated legend



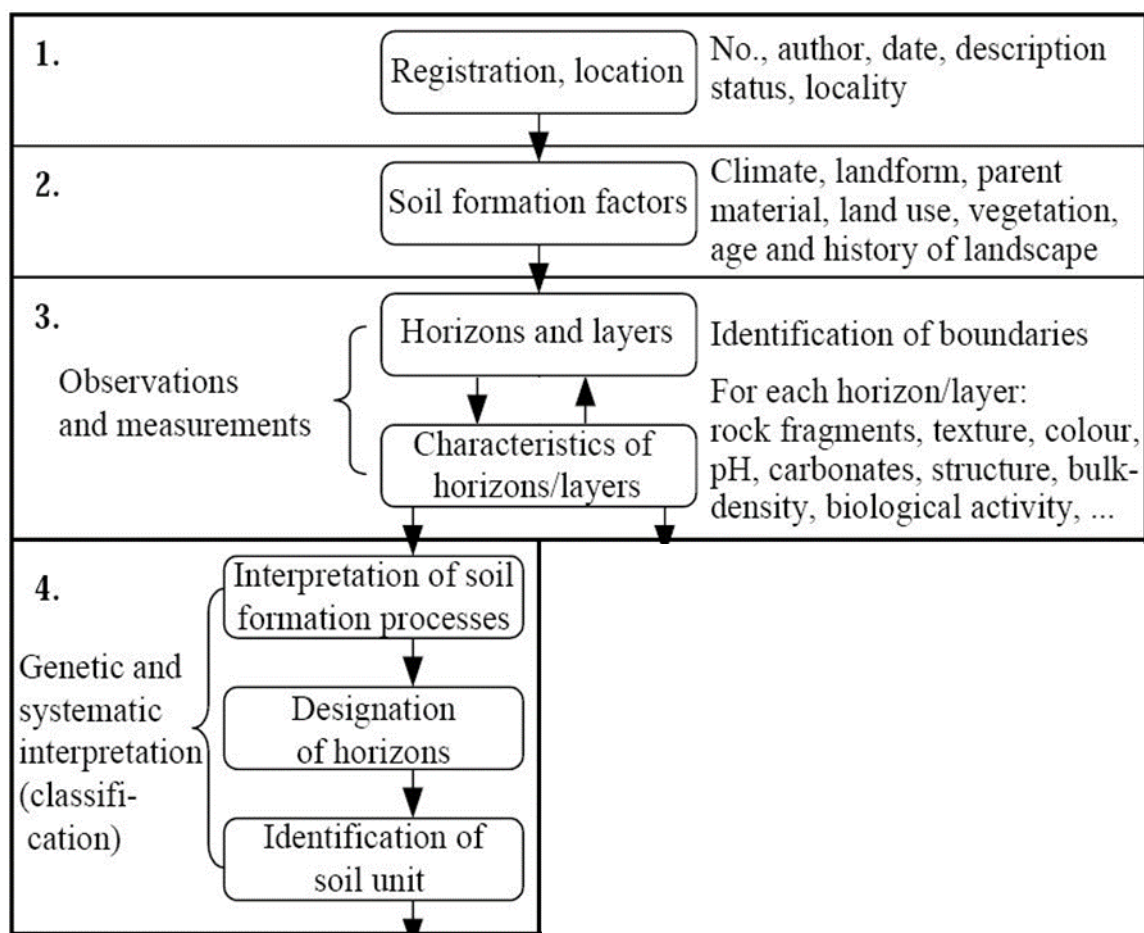
Legend geomorphic base map including aggregated legend

legend_GMK	geo	level	differentiate	legend_GMK-aggr
100	bottom	level 123 or 4	undefined	100
1000	bottom	level 123 or 4	very wettest lowest	1000
1001	bottom	level 123 or 4	wettest lowest	1001
1002	bottom	level 123 or 4	more wet more low	1002
1003	bottom	level 123 or 4	wet low	1003
1004	bottom	level 123 or 4	less wet less low	1004
1005	bottom	level 123 or 4	least wet least low	1005
2100	flat	level 1 (RE -90-100)	straight	2100
2110	flat	level 1 (RE -90-100)	convergent	2110
2130	flat	level 1 (RE -90-100)	divergent	2130
2200	flat	level 2 (RE 100-835)	straight	2200
2210	flat	level 2 (RE 100-835)	convergent	2210
2230	flat	level 2 (RE 100-835)	divergent	2230
2300	flat	level 3 (RE 835-1635)	straight	2300
2310	flat	level 3 (RE 835-1635)	convergent	2310
2330	flat	level 3 (RE 835-1635)	divergent	2330
2400	flat	level 4 (RE 1635-3321)	straight	2400
2410	flat	level 4 (RE 1635-3321)	convergent	2410
2430	flat	level 4 (RE 1635-3321)	divergent	2430
3100	slope	level 1 (RE -90-100)	0-0.2	3121
3101	slope	level 1 (RE -90-100)	0.2-0.5	3121
3102	slope	level 1 (RE -90-100)	0.5-1	3121
3103	slope	level 1 (RE -90-100)	1-2	3121
3104	slope	level 1 (RE -90-100)	2-5	3121
3105	slope	level 1 (RE -90-100)	5-10	3121
3106	slope	level 1 (RE -90-100)	10-15	3122
3107	slope	level 1 (RE -90-100)	15-30	3122
3108	slope	level 1 (RE -90-100)	30-60	3123
3109	slope	level 1 (RE -90-100)	>60	3123
3110	slope	level 1 (RE -90-100)	convergent	3110
3130	slope	level 1 (RE -90-100)	divergent	3130
3200	slope	level 2 (RE 100-835)	0-0.2	3221
3201	slope	level 2 (RE 100-835)	0.2-0.5	3221
3202	slope	level 2 (RE 100-835)	0.5-1	3221
3203	slope	level 2 (RE 100-835)	1-2	3221
3204	slope	level 2 (RE 100-835)	2-5	3221
3205	slope	level 2 (RE 100-835)	5-10	3221
3206	slope	level 2 (RE 100-835)	10-15	3222
3207	slope	level 2 (RE 100-835)	15-30	3222
3208	slope	level 2 (RE 100-835)	30-60	3223
3209	slope	level 2 (RE 100-835)	>60	3223
3210	slope	level 2 (RE 100-835)	convergent	3210
3230	slope	level 2 (RE 100-835)	divergent	3230
3300	slope	level 3 (RE 835-1635)	0-0.2	3321
3301	slope	level 3 (RE 835-1635)	0.2-0.5	3321
3302	slope	level 3 (RE 835-1635)	0.5-1	3321
3303	slope	level 3 (RE 835-1635)	1-2	3321
3304	slope	level 3 (RE 835-1635)	2-5	3321
3305	slope	level 3 (RE 835-1635)	5-10	3321
3306	slope	level 3 (RE 835-1635)	10-15	3322
3307	slope	level 3 (RE 835-1635)	15-30	3322
3308	slope	level 3 (RE 835-1635)	30-60	3323
3309	slope	level 3 (RE 835-1635)	>60	3323
3310	slope	level 3 (RE 835-1635)	convergent	3310
3330	slope	level 3 (RE 835-1635)	divergent	3330
3400	slope	level 4 (RE 1635-3321)	0-0.2	3421
3401	slope	level 4 (RE 1635-3321)	0.2-0.5	3421
3402	slope	level 4 (RE 1635-3321)	0.5-1	3421

legend_GMK	geo	level	differentiate	legend_GMK-aggr
3403	slope	level 4 (RE 1635-3321)	1-2	3421
3404	slope	level 4 (RE 1635-3321)	2-5	3421
3405	slope	level 4 (RE 1635-3321)	5-10	3421
3406	slope	level 4 (RE 1635-3321)	10-15	3422
3407	slope	level 4 (RE 1635-3321)	15-30	3422
3408	slope	level 4 (RE 1635-3321)	30-60	3423
3409	slope	level 4 (RE 1635-3321)	>60	3423
3410	slope	level 4 (RE 1635-3321)	convergent	3410
3430	slope	level 4 (RE 1635-3321)	divergent	3430
4100	summit	level 1 (RE -90-100)	straight	4100
4110	summit	level 1 (RE -90-100)	convergent	4110
4130	summit	level 1 (RE -90-100)	divergent	4130
4200	summit	level 2 (RE 100-835)	straight	4200
4210	summit	level 2 (RE 100-835)	convergent	4210
4230	summit	level 2 (RE 100-835)	divergent	4230
4300	summit	level 3 (RE 835-1635)	straight	4300
4310	summit	level 3 (RE 835-1635)	convergent	4310
4330	summit	level 3 (RE 835-1635)	divergent	4330
4400	summit	level 4 (RE 1635-3321)	straight	4400
4410	summit	level 4 (RE 1635-3321)	convergent	4410
4430	summit	level 4 (RE 1635-3321)	divergent	4430

Annex 6. Soil profile description workflow according to the Guidelines for soil description

(Excluded from the workflow is step 5 which is directed to assessing soil qualities and out of scope)



Source: FAO (2006)

Annex 7. Field form template

(For soil pit description)



Soil Profile Description

Profile ID	Date ... / ... / ...	Surveyor	Status (t1) 1 2 3 4 5
Location (admin.)	GPS E ... ° ... ' ... "	GPS N ... ° ... ' ... "	Elevation (m.)
(Base) map unit ID	Topography (t7) <0.5 0.5-2 2-5 5-10 10-15 15-30 30-45 45-60 >60		
Major landform (t4) L (P L D F V) - S (E H M P) - T (E H M V)	Position in landform, descr.		
Position on slope (f2) CR UP MS LS TS BO	Slope form (t6) S C V T X / S V C	Slope (%) ...	
Land Use (t8) A M H F P S Y O U	Crop (t9) Ce Oi Fo Ro Fr Fi Ve Pu Lu Ot	Human infl. (t10)	
Geology descr.	Parent material (t12) I M S U		
Outcrops/stoniness (t15)	Cover (%) ... , N V F C M A D	Size (cm.) ... , F M C S B L	
Erosion (t16, 17, 18)	Category N W A WA M NK	Area % ... , 0 1 2 3 4 5	Degree S M V E
Sealing (t20)	Thickness (mm) ... , N F M T V	Consistence S H V E	
Cracks (t21)	Width (cm) ... , F M W V E	Depth (cm) ... , S M D V	Distance (m) ... , C D M W V
Surface drainage V R W S E	Soil drainage E S W M I P V	Flooding freq. (. /yr) ... duration (wks) ...	
Depth to groundwater (cm) / N	Depth to bedrock (cm) / N	Rootable depth (cm) , V S M D X	
Local soil name		Field WRB	
Notes, observations, diagram			

Profile ID																
Horizon (p67 t85)		1			2			3			4			5		
Depth interval (cm)		0 -														
Hor. Boundary		Distinct. (t24)			A C G D			A C G D			A C G D			A C G D		
		Topography (t24)			S W I B			S W I B			S W I B			S W I B		
Texture class (f4, t25)																
Coarse fragments																
Abundance % (t26)		N V F C M A D			N V F C M A D			N V F C M A D			N V F C M A D			N V F C M A D		
Size mm (t27)		F M C S B L			F M C S B L			F M C S B L			F M C S B L			F M C S B L		
Weathering state (t29)		F W S			F W S			F W S			F W S			F W S		
Colour munsell code		moist														
Colour munsell code		dry														
Mottles		Abundance (t32)			N V F C M A			N V F C M A			N V F C M A			N V F C M A		
		Size (t33)			V F M C			V F M C			V F M C			V F M C		
		Prominence (t34)			F D P			F D P			F D P			F D P		
		Colour munsell code														

FAO, 2006. Guidelines for soil description, 4th ed.



Soil Profile Description

Carbonates (t38) by HCl		N	SL	MO	ST	EX	N	SL	MO	ST	EX	N	SL	MO	ST	EX	N	SL	MO	ST	EX	N	SL	MO	ST	EX					
Field pH																															
Horizon (p67 t85)		1					2					3					4					5									
Structure	Grade (t47)	WE	MO	ST			WE	MO	ST			WE	MO	ST			WE	MO	ST			WE	MO	ST							
	Size (t50)	VF	F	M	C	VC	VF	F	M	C	VC	VF	F	M	C	VC	VF	F	M	C	VC	VF	F	M	C	VC					
	Type (t49)	RS	SG	MA	PM		RS	SG	MA	PM		RS	SG	MA	PM		RS	SG	MA	PM		RS	SG	MA	PM						
	(str breaking into str 2)	PR	AB	SAB	PR		PR	AB	SAB	PR		PR	AB	SAB	PR		PR	AB	SAB	PR		PR	AB	SAB	PR						
		WE	CO	GR	WC		WE	CO	GR	WC		WE	CO	GR	WC		WE	CO	GR	WC		WE	CO	GR	WC						
		PL	CL	CR	LU		PL	CL	CR	LU		PL	CL	CR	LU		PL	CL	CR	LU		PL	CL	CR	LU						
Structure 2	Grade (t47)	WE	MO	ST			WE	MO	ST			WE	MO	ST			WE	MO	ST			WE	MO	ST							
	Size (t50)	VF	F	M	C	VC	VF	F	M	C	VC	VF	F	M	C	VC	VF	F	M	C	VC	VF	F	M	C	VC					
	Type (t49)	RS	SG	MA	PM		RS	SG	MA	PM		RS	SG	MA	PM		RS	SG	MA	PM		RS	SG	MA	PM						
		PR	AB	SAB	PR		PR	AB	SAB	PR		PR	AB	SAB	PR		PR	AB	SAB	PR		PR	AB	SAB	PR						
		WE	CO	GR	WC		WE	CO	GR	WC		WE	CO	GR	WC		WE	CO	GR	WC		WE	CO	GR	WC						
		PL	CL	CR	LU		PL	CL	CR	LU		PL	CL	CR	LU		PL	CL	CR	LU		PL	CL	CR	LU						
Consistency	Dry (t53)	LO	SO	SHA			LO	SO	SHA			LO	SO	SHA			LO	SO	SHA			LO	SO	SHA							
		HA	VHA	EHA			HA	VHA	EHA			HA	VHA	EHA			HA	VHA	EHA			HA	VHA	EHA							
	Moist (t54)	LO	VFR	FR			LO	VFR	FR			LO	VFR	FR			LO	VFR	FR			LO	VFR	FR							
		FI	VFI	EFI			FI	VFI	EFI			FI	VFI	EFI			FI	VFI	EFI			FI	VFI	EFI							
		NS	SS	S	VS		NS	SS	S	VS		NS	SS	S	VS		NS	SS	S	VS		NS	SS	S	VS						
		NP	SP	P	VP		NP	SP	P	VP		NP	SP	P	VP		NP	SP	P	VP		NP	SP	P	VP						
Moisture status (t57)		VD	D	SM	M	WVW	VD	D	SM	M	WVW	VD	D	SM	M	WVW	VD	D	SM	M	WVW	VD	D	SM	M	WVW					
Porosity	Volume % (t60)	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5					
	Abundance (t63)	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M					
Coatings	Abundance % (t64)	N	V	F	C	MAD	N	V	F	C	MAD	N	V	F	C	MAD	N	V	F	C	MAD	N	V	F	C	MAD					
	Contrast (t65)	F	D	P			F	D	P			F	D	P			F	D	P			F	D	P							
	Nature (t66)	C	S	MN	SF	PF	C	S	MN	SF	PF	C	S	MN	SF	PF	C	S	MN	SF	PF	C	S	MN	SF	PF					
Cementation	Nature (t71)																														
/compaction	Degree (t72)	N	Y	W	M	C	I	N	Y	W	M	C	I	N	Y	W	M	C	I	N	Y	W	M	C	I	N	Y	W	M	C	I
Mineral concentrations	Abundance % (t73)	N	V	F	C	MAD	N	V	F	C	MAD	N	V	F	C	MAD	N	V	F	C	MAD	N	V	F	C	MAD					
	Size mm (t75)	V	F	M	C		V	F	M	C		V	F	M	C		V	F	M	C		V	F	M	C						
	Hardness (t76)	H	S	B			H	S	B			H	S	B			H	S	B			H	S	B							
	Nature (t77)																														
Roots	Size mm (t79)	VF	F	M	C		VF	F	M	C		VF	F	M	C		VF	F	M	C		VF	F	M	C						
	Abundance % (t80)	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M					
Biological activity	Abundance % (t81)	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M	N	V	F	C	M					
	Kind (t82)	A	B	C	E	P	T	I	A	B	C	E	P	T	I	A	B	C	E	P	T	I	A	B	C	E	P	T	I		
Sample interval (cm)																															
Sample ID																															
Diagnostic horizon																															
Diagnostic property																															
Diagnostic material																															

SOIL PIT

Annex 8. Data entry template

Example extract from the CASCAPE dataset template

	A	B	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
1	A	B	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
2	Ref →	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006		FAO2006	SOTER1993	SOTER1993			FAO2006	FAO2006	FAO2006
3	Ref sub →	p5	p7	p7	p7	p7	p7	p7		p6	p65	p66			t4	t4	t6
4	Units →		Deg	DecMin	m	m	DecDeg	DecDeg		m							
5	Attributes →	Profile ID	LatID	LatM	Easting	North	Longitude	XY accuracy		Elevation	Map ID	Map scale	Map unit ID	Major landform	Land element	Position on slope	Slope form
6	Obj	ProfileID			Xutm37N	Yutm37N	X_LonDD	Y_LatDD	XYAccur	Z_Alti	MapID	MapScale	MapUnitID	LandForm	LandElem	SlpPosit	SlpForm
7	1	ET_AM/SG/FA/AS/P1			405742	1304772	38.13479	11.80170		2752				LP		LS	S
8	2	ET_AM/SG/FA/AS/P2			410591	1304887	38.17929	11.80287		2976				TM		MS	X
9	3	ET_AM/SG/FA/AS/P3			409042	1305006	38.16507	11.80391		2768				SV		UP	S
10	4	ET_AM/SG/FA/AS/P4			407933	1305207	38.15488	11.80570		2804				LP		MS	S
11																	
12																	
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30																	

	A	B	C		AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM
1	A	B	C		AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM
2	Ref →				FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006	FAO2006
3	Ref sub →				t73	t75	t76	t77	t80	t80	t80	t80	p59	t81	t82		p77	p77	p77		FAO2006
4	Units →																				
5	Attributes →	Profile ID	Layer ID		Mineral concn	Mineral concn	Mineral concn	Mineral concn	Mineral concn	RootsC	RootsM	RootsF	RootsV	Roots	Biologic ac	Biologic ac	Salt or alk	Diagnostic F	Diagnostic F	Diagnostic F	Notes
6	LyrObj	ProfileID	LayerID		MinConcA	MinConcS	MinConcH	MinConcN	MinConcN	RootsC	RootsM	RootsF	RootsV	Roots	BioAbun	BioKind	SaltAlkI	DiagnHor	DiagnPrp	DiagnMat	Notes
7	1	ET_AM/SG/FA/AS/P1	ET_AM/SG/FA/AS/P1_1		N	N	N	N	N	N	M	M	Y	N	N/A	N	Mollic	N/A	Fluvic	N/A	N/A
8	2	ET_AM/SG/FA/AS/P1	ET_AM/SG/FA/AS/P1_2		N	N	N	N	N	N	M	M	Y	N	N/A	N	N/A	N/A	Fluvic	N/A	N/A
9	3	ET_AM/SG/FA/AS/P1	ET_AM/SG/FA/AS/P1_3		F	F	H	M	N	N	M	M	Y	N	N/A	N	N/A	Stagnic	Fluvic	N/A	N/A
10	4	ET_AM/SG/FA/AS/P1	ET_AM/SG/FA/AS/P1_4		C	M	H	M	N	N	C	M	Y	N	N/A	N	N/A	Stagnic	Fluvic	N/A	N/A
11	5	ET_AM/SG/FA/AS/P1	ET_AM/SG/FA/AS/P1_5		N	N	N	N	N	N	F	C	Y	N	N/A	N	Vertic	Stagnic	N/A	N/A	N/A
12	6	ET_AM/SG/FA/AS/P1	ET_AM/SG/FA/AS/P1_6		N/A	N/A	N/A	N/A	N	N	N	F	Y	N	N/A	N	Vertic	Stagnic	N/A	N/A	N/A
13	7	ET_AM/SG/FA/AS/P2	ET_AM/SG/FA/AS/P2_1		N/A	N/A	N/A	N/A	N	N	C	M	Y	N	N/A	N	N/A	N/A	N/A	N/A	N/A
14	8	ET_AM/SG/FA/AS/P2	ET_AM/SG/FA/AS/P2_2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	9	ET_AM/SG/FA/AS/P3	ET_AM/SG/FA/AS/P3_1		N/A	N/A	N/A	N/A	N/A	N	M	M	Y	N	N/A	N	N/A	N/A	N/A	N/A	N/A
16	10	ET_AM/SG/FA/AS/P3	ET_AM/SG/FA/AS/P3_2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	11	ET_AM/SG/FA/AS/P4	ET_AM/SG/FA/AS/P4_1		N/A	N/A	N/A	N/A	N	N	M	M	Y	N	N/A	N	Mollic	N/A	N/A	N/A	N/A
18	12	ET_AM/SG/FA/AS/P4	ET_AM/SG/FA/AS/P4_2		N/A	N/A	N/A	N/A	N	N	C	M	Y	N	N/A	N	Argic	N/A	N/A	N/A	N/A
19	13	ET_AM/SG/FA/AS/P4	ET_AM/SG/FA/AS/P4_3		N/A	N/A	N/A	N/A	N	N	F	C	Y	N	N/A	N	N/A	N/A	N/A	N/A	N/A
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Annex 9. Training programme October 2019

WHEN	WHAT	HOW	WHO
DAY 1 Wed			
0830-0930	Introductory round	Discussion	Participants
0930-1000	Overview survey protocol incl. ToRs	Lecture	JL
1000-1030	Discussion	Discussion	Participants
1030-1130	Base maps	Lecture	JL
1130-1230	Exercise	Exercise	Participants
1230-1330	LUNCH		
1330-1430	WRB soil classification	Lecture	SM
1430-1530	Exercise	Exercise	Participants
1530-1630	WRB soil classification field & lab (auger & pit)	Lecture	SM
1630-1700	Exercise	Exercise	Participants
DAY 2 Thu			
Excursion to Sire, Silite or Arsi Negele woreda			
0830-	Departure from hotel		
	Base map, augering, field form	Exercise	Participants
	Soil pit 1	Exercise	Participants
1230-1330	LUNCH		
	Soil pit 2, incl. base map, augering and field form	Exercise	Participants
-1730	Return from field		
DAY 3 Fri			
Excursion to Sire, Silite or Arsi Negele woreda			
0830-	Departure from hotel		
	Base map, augering, field form continued	Exercise	Participants
	Soil pit 3	Exercise	Participants
1230-1330	LUNCH		
	Soil pit 4, incl. base map, augering and field form	Exercise	Participants
-1630	Return from field		
	(Departure SM)		
DAY 4 Sat			
	Pre field		
0830-0930	Prepare survey (base maps and planning)	Lecture	JL
0930-1030	Exercise	Exercise	Participants
	Field		
1030-1130	Soil description incl. template	Lecture	JL
1130-1230	Exercise	Exercise	Participants
1230-1330	LUNCH		
	Post field		
1330-1430	Data processing; dataset and report standards	Lecture	JL
1430-1500	Exercise	Exercise	Participants
	Extra		
1500-1600	Taskforce modalities	Discussion	Participants
	Pre field, field, post field		
1600-1700	Wrap up	Discussion	Participants

SM = Stephan Mantel, JL = Johan Leenaars



Soil surveyors participating in the introductory training in Adama, October 2019, and ISRIC staff

Annex 10. Soil profiles dataset (plan B); levels of detail in soil classification

Summary overview of the first version of the submitted plan B datasets before cleaning and quality control showing the variation in the numbers of principal and supplementary qualifiers distinguished per team

Region	RSG	PQs	min-max	SQs	min-max
Amhara	1372	1	1 - 1	4.3	2 - 7
Oromia	616	0,4	0 - 2	0.3	0 - 1
SNNP	712	1	1 - 1	1	1 - 1
Tigray	739	1	1 - 1	1.4	1 - 3
Total	3440	3069		7831	

Summary overview of the final version of the compilation of plan B datasets used for mapping and showing the variation in the numbers of principal and supplementary qualifiers retained per team

Region	RSG	PQs	min-max	SQs	min-max
Amhara	1372	1.1	1 - 3	3.2	1 - 4
Oromia	616	1.2	1 - 3	1.3	0 - 3
SNNP	712	1.7	1 - 3	1.8	0 - 3
Tigray	739	1.0	1 - 2	1.3	0 - 3
Total	3440	4278		6520	

Summary overview of the final version of the compilation of plan B datasets used for mapping and showing the variation in the numbers of principal and supplementary qualifiers retained per team

Region	RSG	PQ1	PQ2	PQ3	SQ1	SQ2	SQ3	SQ4
Amhara	1372	1370	65	6	1324	1273	872	727
Oromia	616	608	85	20	544	139	22	1
SNNP	712	712	397	130	707	552	18	0
Tigray	739	738	7	0	648	195	5	0
Total	3440	3429	554	156	3223	2159	917	728

Total numbers of different RSGs, PQs and SQs retained

RSGs : 16

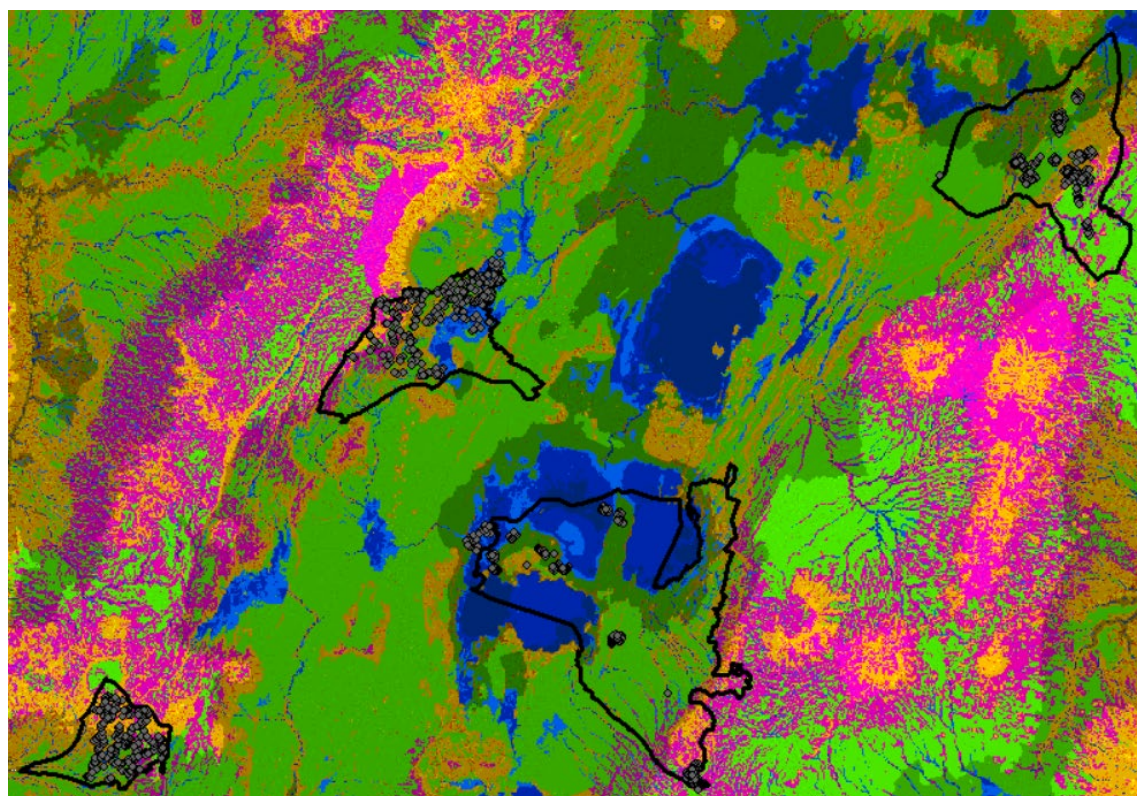
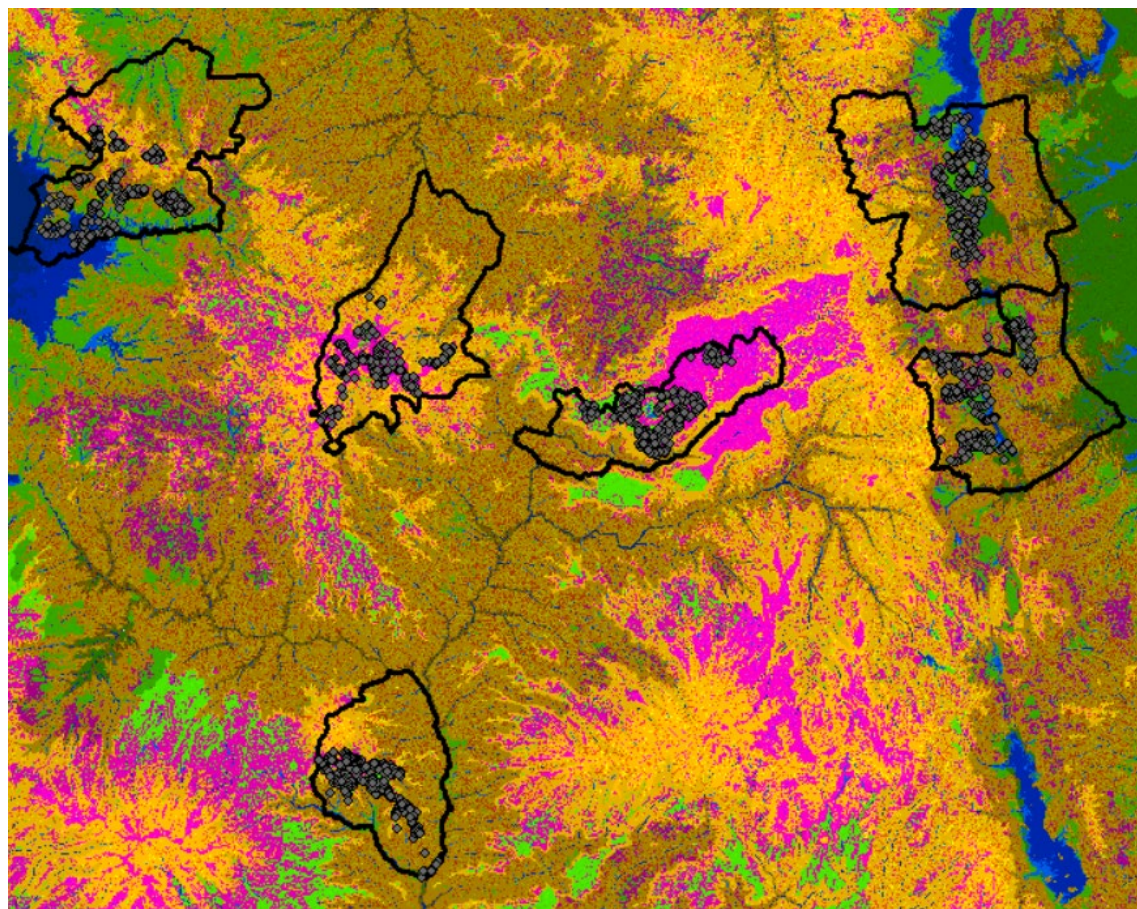
PQs : 36

SQs : 31

Unique Qs : 56 (11 overlapping)

Annex 11. Soil profiles dataset (plan B); locations relative to the geomorphic base map

Illustrations of the distribution of soil profile locations relative to the geomorphic base map



Annex 12. Soil profiles dataset (plan B); profiles presented relative to the geomorphic base map units

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara/Enbise Sar Midir/outsideAol	1747	ET_AM/EG/ESMW/AU/P5	4	Enbise Sar Midir	2020	441667	1175511	hyperskeletal Leptosols
Amhara/Habru/outsideAol	1622	ET_AM/NW/HW/AU/P85	4	Habru	2020	570758	1292275	irragric Vertisols aric hypereutric gilgaic grumic
Amhara/Habru/outsideAol	1655	ET_AM/NW/HW/AU/P118	4	Habru	2020	574475	1296807	irragric Vertisols aric hypereutric gilgaic mazi
Amhara/Habru/outsideAol	1663	ET_AM/NW/HW/AU/P126	4	Habru	2020	573030	1295575	chromic Vertisols aric hypereutric gilgaic grumic
Amhara/Habru/outsideAol	1684	ET_AM/NW/HW/AU/P147	4	Habru	2020	587366	1306575	colluvic Regosols loamic aric
Amhara/Habru/outsideAol	1685	ET_AM/NW/HW/AU/P148	4	Habru	2020	577510	1304984	hyperskeletal Leptosols arenic aric
Amhara/Habru/outsideAol	2053	ET_AM/NW/HW/SP/P15	1	Habru	2020	566424	1300707	irragric Cambisols loamic aric ochric
Amhara/Lay Gayint/outsideAol	1366	ET_AM/SGLGW/AU/P37	4	Lay Gayint	2020	446690	1299725	skeletal Regosols loamic aric
Amhara/Lay Gayint/outsideAol	1388	ET_AM/SGLGW/AU/P59	4	Lay Gayint	2020	438048	1293375	skeletal Regosols loamic aric
Amhara/Lay Gayint/outsideAol	1401	ET_AM/SGLGW/AU/P72	4	Lay Gayint	2020	432812	1295325	chromic Vertisols aric chernic hypereutric grumic
Amhara/Lay Gayint/outsideAol	1533	ET_AM/SGLGW/AU/P204	4	Lay Gayint	2020	417386	1285015	lithic Leptosols
Amhara/Libo Kemkem/outsideAol	1175	ET_AM/SG/LKW/AU/P53	4	Libo Kemkem	2020	368827	1337525	colluvic skeletal Regosols arenic aric
Amhara/Libo Kemkem/outsideAol	1265	ET_AM/SG/LKW/AU/P143	4	Libo Kemkem	2020	355875	1337441	skeletal Regosols arenic aric
Amhara/Libo Kemkem/outsideAol	1283	ET_AM/SG/LKW/AU/P161	4	Libo Kemkem	2020	360607	1332675	pellic Vertisols aric chernic hypereutric mazi
Amhara/Libo Kemkem/outsideAol	1998	ET_AM/SG/LKW/SP/P3	1	Libo Kemkem	2020	385092	1336875	colluvic skeletal Regosols loamic aric ochric
Amhara/Raya Kobo/outsideAol	922	ET_AM/NW/RKW/AU/P5	4	Raya Kobo	2020	565684	1356275	irragric Vertisols aric chernic gilgaic grumic
Amhara/Raya Kobo/outsideAol	1021	ET_AM/NW/RKW/AU/P104	4	Raya Kobo	2020	569437	1339125	skeletal Leptosols arenic aric ochric
Amhara/Raya Kobo/outsideAol	1989	ET_AM/NW/RKW/SP/P17	1	Raya Kobo	2020	571722	1322575	skeletal Leptosols arenic
Amhara/Wadla/outsideAol	824	ET_AM/NW/WW/AU/P112	4	Wadla	2020	494295	1292644	lithic Leptosols arenic
Amhara-E/CzQ-Basalt_&scoria_cones/1003	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/2100	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/2110	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/2130	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/3110	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/3121	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/3122	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/3123	0		0		0	0	0	
Amhara-E/CzQ-Basalt_&scoria_cones/3130	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/1001	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/1002	933	ET_AM/NW/RKW/AU/P16	4	Raya Kobo	2020	572986	1357800	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1002	965	ET_AM/NW/RKW/AU/P48	4	Raya Kobo	2020	576074	1345804	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/1002	1018	ET_AM/NW/RKW/AU/P101	4	Raya Kobo	2020	573117	1336631	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/1002	1036	ET_AM/NW/RKW/AU/P119	4	Raya Kobo	2020	569091	1333509	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/1002	1113	ET_AM/NW/RKW/AU/P196	4	Raya Kobo	2020	572815	1354608	leptic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/1002	1562	ET_AM/NW/HW/AU/P25	4	Habru	2020	583137	1278238	skeletal leptic Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/1002	1563	ET_AM/NW/HW/AU/P26	4	Habru	2020	582531	1278883	chromic Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1002	1564	ET_AM/NW/HW/AU/P27	4	Habru	2020	583400	1278174	chromic Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1002	1567	ET_AM/NW/HW/AU/P30	4	Habru	2020	582122	1279461	irragric Cambisols siltic aric
Amhara-E/CzQ-Sediment_alluvium/1002	1615	ET_AM/NW/HW/AU/P78	4	Habru	2020	578484	1285369	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1002	1620	ET_AM/NW/HW/AU/P83	4	Habru	2020	578763	1285746	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1002	1740	ET_AM/NW/HW/AU/P203	4	Habru	2020	578904	1285935	lithic Leptosols arenic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzQ-Sediment_alluvium/1002	1741	ET_AM/NW/HW/AU/P204	4	Habru	2020	577100	1291235	hyperskeletal Leptosols arenic
Amhara-E/CzQ-Sediment_alluvium/1002	1973	ET_AM/NW/RKW/SP/P1	1	Raya Kobo	2020	572815	1354608	leptic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1002	2041	ET_AM/NW/HW/SP/P3	1	Habru	2020	583466	1277924	irragric Vertisols aric chernic gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1002	2046	ET_AM/NW/HW/SP/P8	1	Habru	2020	577103	1291240	leptic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	921	ET_AM/NW/RKW/AU/P4	4	Raya Kobo	2020	565349	1355403	irragric Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/1003	932	ET_AM/NW/RKW/AU/P15	4	Raya Kobo	2020	570927	1357670	vertic Cambisols clayic aric humic
Amhara-E/CzQ-Sediment_alluvium/1003	934	ET_AM/NW/RKW/AU/P17	4	Raya Kobo	2020	572183	1357435	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	935	ET_AM/NW/RKW/AU/P18	4	Raya Kobo	2020	571567	1356650	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	950	ET_AM/NW/RKW/AU/P33	4	Raya Kobo	2020	570608	1348665	leptic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	956	ET_AM/NW/RKW/AU/P39	4	Raya Kobo	2020	575117	1351517	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	957	ET_AM/NW/RKW/AU/P40	4	Raya Kobo	2020	575007	1350648	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	962	ET_AM/NW/RKW/AU/P45	4	Raya Kobo	2020	576524	1346691	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	966	ET_AM/NW/RKW/AU/P49	4	Raya Kobo	2020	575575	1344733	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	967	ET_AM/NW/RKW/AU/P50	4	Raya Kobo	2020	574990	1343659	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	971	ET_AM/NW/RKW/AU/P54	4	Raya Kobo	2020	575855	1350819	leptic Fluvisols siltic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	972	ET_AM/NW/RKW/AU/P55	4	Raya Kobo	2020	575325	1349285	pellic Vertisols aric calcaric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	973	ET_AM/NW/RKW/AU/P56	4	Raya Kobo	2020	575404	1349685	irragric Cambisols clayic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	974	ET_AM/NW/RKW/AU/P57	4	Raya Kobo	2020	575054	1349118	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	975	ET_AM/NW/RKW/AU/P58	4	Raya Kobo	2020	574777	1349136	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	977	ET_AM/NW/RKW/AU/P60	4	Raya Kobo	2020	575656	1350294	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	985	ET_AM/NW/RKW/AU/P68	4	Raya Kobo	2020	577029	1341867	vertic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/1003	986	ET_AM/NW/RKW/AU/P69	4	Raya Kobo	2020	576120	1342330	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	987	ET_AM/NW/RKW/AU/P70	4	Raya Kobo	2020	575223	1342530	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	1116	ET_AM/NW/RKW/AU/P199	4	Raya Kobo	2020	575215	1347820	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	1559	ET_AM/NW/HW/AU/P22	4	Habru	2020	581521	1279254	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	1560	ET_AM/NW/HW/AU/P23	4	Habru	2020	581360	1278931	skeletal leptic Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/1003	1561	ET_AM/NW/HW/AU/P24	4	Habru	2020	581102	1278488	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	1565	ET_AM/NW/HW/AU/P28	4	Habru	2020	583545	1277785	chromic Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	1566	ET_AM/NW/HW/AU/P29	4	Habru	2020	581360	1278931	irragric Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/1003	1590	ET_AM/NW/HW/AU/P53	4	Habru	2020	573018	1279976	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	1601	ET_AM/NW/HW/AU/P64	4	Habru	2020	575344	1292382	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	1602	ET_AM/NW/HW/AU/P65	4	Habru	2020	576199	1292736	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/1003	1609	ET_AM/NW/HW/AU/P72	4	Habru	2020	577520	1288880	skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/1003	1610	ET_AM/NW/HW/AU/P73	4	Habru	2020	578111	1289578	skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/1003	1978	ET_AM/NW/RKW/SP/P6	1	Raya Kobo	2020	575164	1350380	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	1979	ET_AM/NW/RKW/SP/P7	1	Raya Kobo	2020	575215	1347820	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	1981	ET_AM/NW/RKW/SP/P9	1	Raya Kobo	2020	576063	1343154	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/1003	2045	ET_AM/NW/HW/SP/P7	1	Habru	2020	578907	1285294	eutric skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/1004	1087	ET_AM/NW/RKW/AU/P170	4	Raya Kobo	2020	569091	1345860	leptic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2100	1003	ET_AM/NW/RKW/AU/P86	4	Raya Kobo	2020	572883	1335614	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2100	1005	ET_AM/NW/RKW/AU/P88	4	Raya Kobo	2020	574102	1337722	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2100	1006	ET_AM/NW/RKW/AU/P89	4	Raya Kobo	2020	575313	1338020	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2100	1007	ET_AM/NW/RKW/AU/P90	4	Raya Kobo	2020	576259	1337886	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2100	1008	ET_AM/NW/RKW/AU/P91	4	Raya Kobo	2020	575923	1336894	chromic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2100	1009	ET_AM/NW/RKW/AU/P92	4	Raya Kobo	2020	575786	1335819	leptic Cambisols loamic aric ochric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzQ-Sediment_alluvium/2100	1010	ET_AM/NW/RKW/AU/P93	4	Raya Kobo	2020	575482	1334815	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2100	1014	ET_AM/NW/RKW/AU/P97	4	Raya Kobo	2020	572805	1336667	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1015	ET_AM/NW/RKW/AU/P98	4	Raya Kobo	2020	573636	1336411	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1016	ET_AM/NW/RKW/AU/P99	4	Raya Kobo	2020	573827	1336129	irragric Vertisols aric calcaric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1052	ET_AM/NW/RKW/AU/P135	4	Raya Kobo	2020	574350	1330393	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2100	1053	ET_AM/NW/RKW/AU/P136	4	Raya Kobo	2020	575043	1329789	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2100	1054	ET_AM/NW/RKW/AU/P137	4	Raya Kobo	2020	574552	1328969	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2100	1074	ET_AM/NW/RKW/AU/P157	4	Raya Kobo	2020	573665	1332413	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2100	1075	ET_AM/NW/RKW/AU/P158	4	Raya Kobo	2020	574432	1332419	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2100	1548	ET_AM/NW/HW/AU/P11	4	Habru	2020	576482	1278769	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2100	1551	ET_AM/NW/HW/AU/P14	4	Habru	2020	576188	1279453	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1554	ET_AM/NW/HW/AU/P17	4	Habru	2020	577073	1281912	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1555	ET_AM/NW/HW/AU/P18	4	Habru	2020	577910	1281418	vertic Cambisols clayic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2100	1556	ET_AM/NW/HW/AU/P19	4	Habru	2020	578339	1280678	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1557	ET_AM/NW/HW/AU/P20	4	Habru	2020	578695	1279927	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1558	ET_AM/NW/HW/AU/P21	4	Habru	2020	580419	1278104	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2100	1608	ET_AM/NW/HW/AU/P71	4	Habru	2020	576605	1288691	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2100	1980	ET_AM/NW/RKW/SP/P8	1	Raya Kobo	2020	577639	1341043	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2100	1982	ET_AM/NW/RKW/SP/P10	1	Raya Kobo	2020	572864	1336142	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2100	1992	ET_AM/NW/RKW/SP/P20	1	Raya Kobo	2020	574252	1333122	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2110	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/2130	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/2200	918	ET_AM/NW/RKW/AU/P1	4	Raya Kobo	2020	565817	1354368	irragric Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	919	ET_AM/NW/RKW/AU/P2	4	Raya Kobo	2020	564589	1354181	irragric Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	920	ET_AM/NW/RKW/AU/P3	4	Raya Kobo	2020	564302	1354984	irragric Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	923	ET_AM/NW/RKW/AU/P6	4	Raya Kobo	2020	566860	1353144	irragric Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	924	ET_AM/NW/RKW/AU/P7	4	Raya Kobo	2020	562130	1353421	irragric Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	925	ET_AM/NW/RKW/AU/P8	4	Raya Kobo	2020	567549	1353706	irragric Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	926	ET_AM/NW/RKW/AU/P9	4	Raya Kobo	2020	567844	1355158	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	927	ET_AM/NW/RKW/AU/P10	4	Raya Kobo	2020	567548	1356933	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	928	ET_AM/NW/RKW/AU/P11	4	Raya Kobo	2020	567833	1355585	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	929	ET_AM/NW/RKW/AU/P12	4	Raya Kobo	2020	567625	1354282	irragric Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	930	ET_AM/NW/RKW/AU/P13	4	Raya Kobo	2020	567693	1356047	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	931	ET_AM/NW/RKW/AU/P14	4	Raya Kobo	2020	567741	1354606	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	936	ET_AM/NW/RKW/AU/P19	4	Raya Kobo	2020	569876	1357441	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	937	ET_AM/NW/RKW/AU/P20	4	Raya Kobo	2020	568693	1357442	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	938	ET_AM/NW/RKW/AU/P21	4	Raya Kobo	2020	574002	1350228	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	939	ET_AM/NW/RKW/AU/P22	4	Raya Kobo	2020	574186	1349041	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	940	ET_AM/NW/RKW/AU/P23	4	Raya Kobo	2020	573589	1348627	vertic Cambisols clayic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	941	ET_AM/NW/RKW/AU/P24	4	Raya Kobo	2020	573431	1349450	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	942	ET_AM/NW/RKW/AU/P25	4	Raya Kobo	2020	573182	1350270	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	945	ET_AM/NW/RKW/AU/P28	4	Raya Kobo	2020	570702	1346974	leptic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	946	ET_AM/NW/RKW/AU/P29	4	Raya Kobo	2020	570650	1346037	leptic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	947	ET_AM/NW/RKW/AU/P30	4	Raya Kobo	2020	569948	1345610	leptic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	948	ET_AM/NW/RKW/AU/P31	4	Raya Kobo	2020	569372	1345188	leptic Cambisols loamic aric ochric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzQ-Sediment_alluvium/2200	949	ET_AM/NW/RKW/AU/P32	4	Raya Kobo	2020	570654	1347880	leptic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	964	ET_AM/NW/RKW/AU/P47	4	Raya Kobo	2020	576609	1347903	hyperskeletal Leptosols aric
Amhara-E/CzQ-Sediment_alluvium/2200	968	ET_AM/NW/RKW/AU/P51	4	Raya Kobo	2020	572890	1349227	skeletal Leptosols aric arenic
Amhara-E/CzQ-Sediment_alluvium/2200	969	ET_AM/NW/RKW/AU/P52	4	Raya Kobo	2020	573359	1349285	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	970	ET_AM/NW/RKW/AU/P53	4	Raya Kobo	2020	574218	1349153	irragric Vertisols aric calcaric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	976	ET_AM/NW/RKW/AU/P59	4	Raya Kobo	2020	576083	1351283	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	978	ET_AM/NW/RKW/AU/P61	4	Raya Kobo	2020	571865	1342301	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	979	ET_AM/NW/RKW/AU/P62	4	Raya Kobo	2020	571631	1341220	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	980	ET_AM/NW/RKW/AU/P63	4	Raya Kobo	2020	570721	1341424	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	981	ET_AM/NW/RKW/AU/P64	4	Raya Kobo	2020	570316	1342367	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	982	ET_AM/NW/RKW/AU/P65	4	Raya Kobo	2020	570769	1343231	irragric Cambisols clayic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	983	ET_AM/NW/RKW/AU/P66	4	Raya Kobo	2020	571453	1343966	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	984	ET_AM/NW/RKW/AU/P67	4	Raya Kobo	2020	577821	1340968	cambic Leptosols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	988	ET_AM/NW/RKW/AU/P71	4	Raya Kobo	2020	574330	1342290	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	990	ET_AM/NW/RKW/AU/P73	4	Raya Kobo	2020	572735	1342925	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	991	ET_AM/NW/RKW/AU/P74	4	Raya Kobo	2020	572472	1342263	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	993	ET_AM/NW/RKW/AU/P76	4	Raya Kobo	2020	572435	1343663	irragric Vertisols aric calcaric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	994	ET_AM/NW/RKW/AU/P77	4	Raya Kobo	2020	572636	1342699	irragric Vertisols aric calcaric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	995	ET_AM/NW/RKW/AU/P78	4	Raya Kobo	2020	572086	1344011	irragric Vertisols aric calcaric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	997	ET_AM/NW/RKW/AU/P80	4	Raya Kobo	2020	571646	1345106	umbric Leptosols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	998	ET_AM/NW/RKW/AU/P81	4	Raya Kobo	2020	571772	1344487	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	999	ET_AM/NW/RKW/AU/P82	4	Raya Kobo	2020	571113	1336753	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1000	ET_AM/NW/RKW/AU/P83	4	Raya Kobo	2020	572111	1335201	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1001	ET_AM/NW/RKW/AU/P84	4	Raya Kobo	2020	571078	1335322	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1002	ET_AM/NW/RKW/AU/P85	4	Raya Kobo	2020	570611	1335996	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1004	ET_AM/NW/RKW/AU/P87	4	Raya Kobo	2020	571273	1345007	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1011	ET_AM/NW/RKW/AU/P94	4	Raya Kobo	2020	571130	1337334	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1012	ET_AM/NW/RKW/AU/P95	4	Raya Kobo	2020	572530	1336961	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1013	ET_AM/NW/RKW/AU/P96	4	Raya Kobo	2020	571985	1337237	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1019	ET_AM/NW/RKW/AU/P102	4	Raya Kobo	2020	567645	1339254	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1022	ET_AM/NW/RKW/AU/P105	4	Raya Kobo	2020	569660	1339109	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1023	ET_AM/NW/RKW/AU/P106	4	Raya Kobo	2020	565556	1339073	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1025	ET_AM/NW/RKW/AU/P108	4	Raya Kobo	2020	568990	1339050	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1026	ET_AM/NW/RKW/AU/P109	4	Raya Kobo	2020	567566	1340205	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1027	ET_AM/NW/RKW/AU/P110	4	Raya Kobo	2020	567669	1340594	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1028	ET_AM/NW/RKW/AU/P111	4	Raya Kobo	2020	567588	1338720	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1029	ET_AM/NW/RKW/AU/P112	4	Raya Kobo	2020	568683	1337223	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1030	ET_AM/NW/RKW/AU/P113	4	Raya Kobo	2020	569836	1337002	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1031	ET_AM/NW/RKW/AU/P114	4	Raya Kobo	2020	570725	1337515	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1032	ET_AM/NW/RKW/AU/P115	4	Raya Kobo	2020	568274	1338720	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1033	ET_AM/NW/RKW/AU/P116	4	Raya Kobo	2020	568942	1338274	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1034	ET_AM/NW/RKW/AU/P117	4	Raya Kobo	2020	569008	1332693	vertic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1035	ET_AM/NW/RKW/AU/P118	4	Raya Kobo	2020	568929	1334431	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1037	ET_AM/NW/RKW/AU/P120	4	Raya Kobo	2020	570592	1334096	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1038	ET_AM/NW/RKW/AU/P121	4	Raya Kobo	2020	569885	1334433	pellic Vertisols aric hypereutric gilgaic mazic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzQ-Sediment_alluvium/2200	1041	ET_AM/NW/RKW/AU/P124	4	Raya Kobo	2020	568160	1337798	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1055	ET_AM/NW/RKW/AU/P138	4	Raya Kobo	2020	574004	1328094	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1056	ET_AM/NW/RKW/AU/P139	4	Raya Kobo	2020	573694	1327096	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1070	ET_AM/NW/RKW/AU/P153	4	Raya Kobo	2020	569086	1331659	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1071	ET_AM/NW/RKW/AU/P154	4	Raya Kobo	2020	569844	1331786	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1072	ET_AM/NW/RKW/AU/P155	4	Raya Kobo	2020	572080	1332306	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1073	ET_AM/NW/RKW/AU/P156	4	Raya Kobo	2020	572837	1332449	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1076	ET_AM/NW/RKW/AU/P159	4	Raya Kobo	2020	570660	1331868	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1077	ET_AM/NW/RKW/AU/P160	4	Raya Kobo	2020	571207	1332193	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1080	ET_AM/NW/RKW/AU/P163	4	Raya Kobo	2020	565596	1343215	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1083	ET_AM/NW/RKW/AU/P166	4	Raya Kobo	2020	564896	1344668	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1084	ET_AM/NW/RKW/AU/P167	4	Raya Kobo	2020	566302	1343438	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1085	ET_AM/NW/RKW/AU/P168	4	Raya Kobo	2020	566972	1343305	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1086	ET_AM/NW/RKW/AU/P169	4	Raya Kobo	2020	568779	1345450	leptic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1088	ET_AM/NW/RKW/AU/P171	4	Raya Kobo	2020	568640	1346595	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1090	ET_AM/NW/RKW/AU/P173	4	Raya Kobo	2020	567540	1348335	leptic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1092	ET_AM/NW/RKW/AU/P175	4	Raya Kobo	2020	573318	1328741	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1100	ET_AM/NW/RKW/AU/P183	4	Raya Kobo	2020	572361	1329429	colluvic Regosols siltic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1102	ET_AM/NW/RKW/AU/P185	4	Raya Kobo	2020	566440	1340617	irragric Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1103	ET_AM/NW/RKW/AU/P186	4	Raya Kobo	2020	565892	1340799	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1104	ET_AM/NW/RKW/AU/P187	4	Raya Kobo	2020	566597	1341458	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1105	ET_AM/NW/RKW/AU/P188	4	Raya Kobo	2020	566861	1340552	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1107	ET_AM/NW/RKW/AU/P190	4	Raya Kobo	2020	572775	1329306	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1108	ET_AM/NW/RKW/AU/P191	4	Raya Kobo	2020	572559	1329957	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1112	ET_AM/NW/RKW/AU/P195	4	Raya Kobo	2020	572235	1329648	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1114	ET_AM/NW/RKW/AU/P197	4	Raya Kobo	2020	564684	1356905	leptic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1118	ET_AM/NW/RKW/AU/P201	4	Raya Kobo	2020	570573	1334350	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1119	ET_AM/NW/RKW/AU/P202	4	Raya Kobo	2020	572974	1330523	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1121	ET_AM/NW/RKW/AU/P204	4	Raya Kobo	2020	567776	1348382	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1542	ET_AM/NW/HW/AU/P5	4	Habru	2020	572825	1276953	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1543	ET_AM/NW/HW/AU/P6	4	Habru	2020	572104	1276070	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1544	ET_AM/NW/HW/AU/P7	4	Habru	2020	573021	1278621	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1545	ET_AM/NW/HW/AU/P8	4	Habru	2020	573878	1278769	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1546	ET_AM/NW/HW/AU/P9	4	Habru	2020	574685	1278913	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1547	ET_AM/NW/HW/AU/P10	4	Habru	2020	575719	1278814	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzQ-Sediment_alluvium/2200	1553	ET_AM/NW/HW/AU/P16	4	Habru	2020	576267	1281444	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1568	ET_AM/NW/HW/AU/P31	4	Habru	2020	571463	1277971	irragric Vertisols aric chernic gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1569	ET_AM/NW/HW/AU/P32	4	Habru	2020	575423	1278703	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1576	ET_AM/NW/HW/AU/P39	4	Habru	2020	571666	1280500	leptic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1579	ET_AM/NW/HW/AU/P42	4	Habru	2020	570921	1281421	chromic Luvisols clayic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1580	ET_AM/NW/HW/AU/P43	4	Habru	2020	571598	1282115	skeletal Fluvisols arenic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1582	ET_AM/NW/HW/AU/P45	4	Habru	2020	570756	1281229	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1584	ET_AM/NW/HW/AU/P47	4	Habru	2020	573966	1280704	skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1585	ET_AM/NW/HW/AU/P48	4	Habru	2020	574546	1281478	colluvic Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1587	ET_AM/NW/HW/AU/P50	4	Habru	2020	575063	1280906	skeletal Fluvisols clayic aric ochric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzQ-Sediment_alluvium/2200	1588	ET_AM/NW/HW/AU/P51	4	Habru	2020	574089	1280117	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1589	ET_AM/NW/HW/AU/P52	4	Habru	2020	574857	1279085	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1591	ET_AM/NW/HW/AU/P54	4	Habru	2020	573691	1280459	leptic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1592	ET_AM/NW/HW/AU/P55	4	Habru	2020	574389	1281113	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1596	ET_AM/NW/HW/AU/P59	4	Habru	2020	572914	1281717	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1597	ET_AM/NW/HW/AU/P60	4	Habru	2020	572351	1291571	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1598	ET_AM/NW/HW/AU/P61	4	Habru	2020	573137	1291610	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1599	ET_AM/NW/HW/AU/P62	4	Habru	2020	573758	1291748	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1600	ET_AM/NW/HW/AU/P63	4	Habru	2020	574572	1291855	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1604	ET_AM/NW/HW/AU/P67	4	Habru	2020	573588	1289272	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1605	ET_AM/NW/HW/AU/P68	4	Habru	2020	573921	1288882	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1607	ET_AM/NW/HW/AU/P70	4	Habru	2020	575791	1288691	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1627	ET_AM/NW/HW/AU/P90	4	Habru	2020	567288	1292305	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1630	ET_AM/NW/HW/AU/P93	4	Habru	2020	567681	1292859	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1631	ET_AM/NW/HW/AU/P94	4	Habru	2020	567191	1290999	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1642	ET_AM/NW/HW/AU/P105	4	Habru	2020	568000	1291727	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1643	ET_AM/NW/HW/AU/P106	4	Habru	2020	567148	1291614	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1644	ET_AM/NW/HW/AU/P107	4	Habru	2020	576271	1296175	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1648	ET_AM/NW/HW/AU/P111	4	Habru	2020	577387	1297976	skeletal Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1649	ET_AM/NW/HW/AU/P112	4	Habru	2020	576108	1297476	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1662	ET_AM/NW/HW/AU/P125	4	Habru	2020	572869	1295904	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1696	ET_AM/NW/HW/AU/P159	4	Habru	2020	564160	1300248	colluvic Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1698	ET_AM/NW/HW/AU/P161	4	Habru	2020	567428	1300034	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1735	ET_AM/NW/HW/AU/P198	4	Habru	2020	570096	1292172	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1974	ET_AM/NW/RKW/SP/P2	1	Raya Kobo	2020	564684	1356905	leptic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	1976	ET_AM/NW/RKW/SP/P4	1	Raya Kobo	2020	574297	1350762	haplic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1977	ET_AM/NW/RKW/SP/P5	1	Raya Kobo	2020	570643	1347053	eutric Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/2200	1983	ET_AM/NW/RKW/SP/P11	1	Raya Kobo	2020	571474	1337338	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	1984	ET_AM/NW/RKW/SP/P12	1	Raya Kobo	2020	570573	1334350	eutric Fluvisols loamic aric humic
Amhara-E/CzQ-Sediment_alluvium/2200	1985	ET_AM/NW/RKW/SP/P13	1	Raya Kobo	2020	568818	1333022	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	1993	ET_AM/NW/RKW/SP/P21	1	Raya Kobo	2020	572974	1330523	vertic Luvisols clayic aric cutanic hypereutric
Amhara-E/CzQ-Sediment_alluvium/2200	1995	ET_AM/NW/RKW/SP/P23	1	Raya Kobo	2020	567776	1348382	vertic Luvisols clayic aric cutanic hypereutric
Amhara-E/CzQ-Sediment_alluvium/2200	2039	ET_AM/NW/HW/SP/P1	1	Habru	2020	571556	1278000	eutric Fluvisols silty aric
Amhara-E/CzQ-Sediment_alluvium/2200	2040	ET_AM/NW/HW/SP/P2	1	Habru	2020	571224	1277460	fluvic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	2043	ET_AM/NW/HW/SP/P5	1	Habru	2020	574880	1279354	pellic Vertisols aric chernic gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	2047	ET_AM/NW/HW/SP/P9	1	Habru	2020	567153	1291958	leptic Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/2200	2048	ET_AM/NW/HW/SP/P10	1	Habru	2020	570096	1292172	pellic Vertisols aric chernic gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2200	2050	ET_AM/NW/HW/SP/P12	1	Habru	2020	576504	1296279	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2200	2051	ET_AM/NW/HW/SP/P13	1	Habru	2020	574963	1299743	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2210	989	ET_AM/NW/RKW/AU/P72	4	Raya Kobo	2020	573358	1342052	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2210	992	ET_AM/NW/RKW/AU/P75	4	Raya Kobo	2020	572689	1343281	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2210	1078	ET_AM/NW/RKW/AU/P161	4	Raya Kobo	2020	565925	1344557	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2210	1623	ET_AM/NW/HW/AU/P86	4	Habru	2020	570527	1292611	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2210	1626	ET_AM/NW/HW/AU/P89	4	Habru	2020	568193	1292965	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2210	1641	ET_AM/NW/HW/AU/P104	4	Habru	2020	568614	1291781	chromic Vertisols aric hypereutric gilgaic mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzQ-Sediment_alluvium/2230	1101	ET_AM/NW/RKW/AU/P184	4	Raya Kobo	2020	567280	1340291	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2230	1583	ET_AM/NW/HW/AU/P46	4	Habru	2020	573259	1280115	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/2230	1656	ET_AM/NW/HW/AU/P119	4	Habru	2020	575221	1296760	leptic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/2230	1660	ET_AM/NW/HW/AU/P123	4	Habru	2020	570891	1296095	hyperskeletal Leptosols arenic aric
Amhara-E/CzQ-Sediment_alluvium/2300	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/2330	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3110	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3121	1621	ET_AM/NW/HW/AU/P84	4	Habru	2020	579434	1285811	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3122	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3123	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3130	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3210	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3221	951	ET_AM/NW/RKW/AU/P34	4	Raya Kobo	2020	570706	1348960	skeletal Leptosols arenic
Amhara-E/CzQ-Sediment_alluvium/3221	963	ET_AM/NW/RKW/AU/P46	4	Raya Kobo	2020	577173	1348780	gleyic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/3221	996	ET_AM/NW/RKW/AU/P79	4	Raya Kobo	2020	571937	1344362	irragric Vertisols aric calcaric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3221	1017	ET_AM/NW/RKW/AU/P100	4	Raya Kobo	2020	570312	1338533	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/3221	1024	ET_AM/NW/RKW/AU/P107	4	Raya Kobo	2020	570000	1339002	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3221	1039	ET_AM/NW/RKW/AU/P122	4	Raya Kobo	2020	568345	1332704	leptic Fluvisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/3221	1089	ET_AM/NW/RKW/AU/P172	4	Raya Kobo	2020	568355	1347453	leptic Fluvisols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/3221	1110	ET_AM/NW/RKW/AU/P193	4	Raya Kobo	2020	572854	1330782	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3221	1578	ET_AM/NW/HW/AU/P41	4	Habru	2020	572055	1280065	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3221	1603	ET_AM/NW/HW/AU/P66	4	Habru	2020	577220	1292751	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/3221	1606	ET_AM/NW/HW/AU/P69	4	Habru	2020	575103	1288446	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3221	1629	ET_AM/NW/HW/AU/P92	4	Habru	2020	568789	1292833	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3222	1093	ET_AM/NW/RKW/AU/P176	4	Raya Kobo	2020	571597	1329345	hyperskeletal Leptosols aric
Amhara-E/CzQ-Sediment_alluvium/3222	1097	ET_AM/NW/RKW/AU/P180	4	Raya Kobo	2020	571481	1327476	colluvic Regosols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/3222	1577	ET_AM/NW/HW/AU/P40	4	Habru	2020	571755	1280193	skeletal Leptosols arenic ochric
Amhara-E/CzQ-Sediment_alluvium/3222	1581	ET_AM/NW/HW/AU/P44	4	Habru	2020	574318	1281906	skeletal Fluvisols arenic aric
Amhara-E/CzQ-Sediment_alluvium/3222	1586	ET_AM/NW/HW/AU/P49	4	Habru	2020	575222	1281524	skeletal Leptosols arenic ochric
Amhara-E/CzQ-Sediment_alluvium/3222	1593	ET_AM/NW/HW/AU/P56	4	Habru	2020	574838	1281786	skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/3222	1595	ET_AM/NW/HW/AU/P58	4	Habru	2020	573802	1281885	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/3222	1612	ET_AM/NW/HW/AU/P75	4	Habru	2020	574408	1286884	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3222	1657	ET_AM/NW/HW/AU/P120	4	Habru	2020	569872	1296785	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/3222	1699	ET_AM/NW/HW/AU/P162	4	Habru	2020	570431	1297986	vertic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/3222	1700	ET_AM/NW/HW/AU/P163	4	Habru	2020	570402	1298804	skeletal leptic Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/3223	1095	ET_AM/NW/RKW/AU/P178	4	Raya Kobo	2020	570303	1328927	hyperskeletal Leptosols aric
Amhara-E/CzQ-Sediment_alluvium/3230	1020	ET_AM/NW/RKW/AU/P103	4	Raya Kobo	2020	567895	1339237	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/3230	1094	ET_AM/NW/RKW/AU/P177	4	Raya Kobo	2020	573153	1329612	hyperskeletal Leptosols aric
Amhara-E/CzQ-Sediment_alluvium/3230	1594	ET_AM/NW/HW/AU/P57	4	Habru	2020	574726	1282324	vertic Cambisols clayic aric humic
Amhara-E/CzQ-Sediment_alluvium/3230	1611	ET_AM/NW/HW/AU/P74	4	Habru	2020	574190	1286895	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/3310	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3322	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3323	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/3330	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/4100	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzQ-Sediment_alluvium/4200	1082	ET_AM/NW/RKW/AU/P165	4	Raya Kobo	2020	565504	1345297	leptic Cambisols clayic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1096	ET_AM/NW/RKW/AU/P179	4	Raya Kobo	2020	571041	1328365	colluvic Regosols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/4200	1098	ET_AM/NW/RKW/AU/P181	4	Raya Kobo	2020	572245	1327829	colluvic Regosols arenic aric ochric
Amhara-E/CzQ-Sediment_alluvium/4200	1099	ET_AM/NW/RKW/AU/P182	4	Raya Kobo	2020	572972	1327859	colluvic Regosols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/4200	1109	ET_AM/NW/RKW/AU/P192	4	Raya Kobo	2020	572388	1330593	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1111	ET_AM/NW/RKW/AU/P194	4	Raya Kobo	2020	573256	1330631	hyperskeletal Leptosols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/4200	1120	ET_AM/NW/RKW/AU/P203	4	Raya Kobo	2020	570013	1329194	leptic Cambisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1570	ET_AM/NW/HW/AU/P33	4	Habru	2020	571482	1279234	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1572	ET_AM/NW/HW/AU/P35	4	Habru	2020	572260	1278860	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1624	ET_AM/NW/HW/AU/P87	4	Habru	2020	570145	1292883	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/4200	1625	ET_AM/NW/HW/AU/P88	4	Habru	2020	569123	1292624	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1628	ET_AM/NW/HW/AU/P91	4	Habru	2020	569774	1292589	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1645	ET_AM/NW/HW/AU/P108	4	Habru	2020	576601	1295588	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/4200	1651	ET_AM/NW/HW/AU/P114	4	Habru	2020	573886	1295196	skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1652	ET_AM/NW/HW/AU/P115	4	Habru	2020	573184	1295816	skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1653	ET_AM/NW/HW/AU/P116	4	Habru	2020	573289	1296715	skeletal Fluvisols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1658	ET_AM/NW/HW/AU/P121	4	Habru	2020	570463	1296698	skeletal Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1659	ET_AM/NW/HW/AU/P122	4	Habru	2020	570682	1296563	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1664	ET_AM/NW/HW/AU/P127	4	Habru	2020	573347	1295167	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1666	ET_AM/NW/HW/AU/P129	4	Habru	2020	573490	1294453	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1667	ET_AM/NW/HW/AU/P130	4	Habru	2020	572829	1295595	chromic Luvisols clayic aric ochric
Amhara-E/CzQ-Sediment_alluvium/4200	1695	ET_AM/NW/HW/AU/P158	4	Habru	2020	564749	1300609	colluvic Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1697	ET_AM/NW/HW/AU/P160	4	Habru	2020	564739	1299853	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/4200	1701	ET_AM/NW/HW/AU/P164	4	Habru	2020	569463	1299694	colluvic Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1702	ET_AM/NW/HW/AU/P165	4	Habru	2020	568548	1300182	colluvic Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1703	ET_AM/NW/HW/AU/P166	4	Habru	2020	567938	1300146	colluvic Regosols loamic aric
Amhara-E/CzQ-Sediment_alluvium/4200	1734	ET_AM/NW/HW/AU/P197	4	Habru	2020	571159	1293635	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4200	1994	ET_AM/NW/RKW/SP/P22	1	Raya Kobo	2020	570013	1329194	irragric Cambisols loamic aric ochric
Amhara-E/CzQ-Sediment_alluvium/4200	2049	ET_AM/NW/HW/SP/P11	1	Habru	2020	571159	1293634	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4210	1571	ET_AM/NW/HW/AU/P34	4	Habru	2020	571522	1279011	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4210	1650	ET_AM/NW/HW/AU/P113	4	Habru	2020	574133	1294565	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4210	1654	ET_AM/NW/HW/AU/P117	4	Habru	2020	573801	1297277	chromic Fluvisols siltic aric
Amhara-E/CzQ-Sediment_alluvium/4210	1665	ET_AM/NW/HW/AU/P128	4	Habru	2020	572550	1296286	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4210	2052	ET_AM/NW/HW/SP/P14	1	Habru	2020	573888	1297222	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzQ-Sediment_alluvium/4230	1638	ET_AM/NW/HW/AU/P101	4	Habru	2020	571323	1292372	cambic Leptosols loamic aric humic
Amhara-E/CzQ-Sediment_alluvium/4230	1704	ET_AM/NW/HW/AU/P167	4	Habru	2020	567714	1299399	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzQ-Sediment_alluvium/4300	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/4310	0		0		0	0	0	
Amhara-E/CzQ-Sediment_alluvium/4330	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/1001	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/1002	1062	ET_AM/NW/RKW/AU/P145	4	Raya Kobo	2020	574389	1315726	leptic Cambisols clayic aric
Amhara-E/CzT-Basalt_lower_flood/1002	1065	ET_AM/NW/RKW/AU/P148	4	Raya Kobo	2020	574620	1316078	leptic Cambisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/1002	1618	ET_AM/NW/HW/AU/P81	4	Habru	2020	577669	1285013	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/1002	1619	ET_AM/NW/HW/AU/P82	4	Habru	2020	578101	1285452	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/1003	1613	ET_AM/NW/HW/AU/P76	4	Habru	2020	575544	1286405	irragric Vertisols aric hypereutric gilgaic grumic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_lower_flood/1003	1986	ET_AM/NW/RKW/SP/P14	1	Raya Kobo	2020	574349	1316244	irragric Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/1004	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/2100	1067	ET_AM/NW/RKW/AU/P150	4	Raya Kobo	2020	574547	1317536	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	1068	ET_AM/NW/RKW/AU/P151	4	Raya Kobo	2020	574781	1316911	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	1069	ET_AM/NW/RKW/AU/P152	4	Raya Kobo	2020	574936	1316537	leptic Cambisols clayic aric
Amhara-E/CzT-Basalt_lower_flood/2100	1122	ET_AM/NW/RKW/AU/P205	4	Raya Kobo	2020	574177	1317198	leptic Cambisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/2100	1614	ET_AM/NW/HW/AU/P77	4	Habru	2020	576183	1285848	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	1616	ET_AM/NW/HW/AU/P79	4	Habru	2020	576754	1285135	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	1617	ET_AM/NW/HW/AU/P80	4	Habru	2020	577055	1285107	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	1713	ET_AM/NW/HW/AU/P176	4	Habru	2020	587012	1299483	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/2100	1714	ET_AM/NW/HW/AU/P177	4	Habru	2020	585942	1298923	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	1726	ET_AM/NW/HW/AU/P189	4	Habru	2020	585570	1303464	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	1987	ET_AM/NW/RKW/SP/P15	1	Raya Kobo	2020	574177	1317198	irragric Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2100	2042	ET_AM/NW/HW/SP/P4	1	Habru	2020	581444	1275556	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2100	2062	ET_AM/NW/HW/SP/P24	1	Habru	2020	585946	1303044	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2110	1718	ET_AM/NW/HW/AU/P181	4	Habru	2020	587166	1302111	skeletal leptic Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/2130	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/2200	1042	ET_AM/NW/RKW/AU/P125	4	Raya Kobo	2020	573286	1324290	leptic Cambisols clayic aric
Amhara-E/CzT-Basalt_lower_flood/2200	1044	ET_AM/NW/RKW/AU/P127	4	Raya Kobo	2020	572963	1325004	lamellic Luvisols clayic aric cutanic
Amhara-E/CzT-Basalt_lower_flood/2200	1045	ET_AM/NW/RKW/AU/P128	4	Raya Kobo	2020	569782	1324427	colluvic Regosols clayic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1057	ET_AM/NW/RKW/AU/P140	4	Raya Kobo	2020	573568	1326225	leptic Cambisols clayic aric
Amhara-E/CzT-Basalt_lower_flood/2200	1059	ET_AM/NW/RKW/AU/P142	4	Raya Kobo	2020	574916	1325084	leptic Cambisols clayic aric
Amhara-E/CzT-Basalt_lower_flood/2200	1060	ET_AM/NW/RKW/AU/P143	4	Raya Kobo	2020	573225	1318054	chromic Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1064	ET_AM/NW/RKW/AU/P147	4	Raya Kobo	2020	573560	1318036	hyperskeletal Leptosols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1079	ET_AM/NW/RKW/AU/P162	4	Raya Kobo	2020	564937	1343632	leptic Cambisols clayic aric
Amhara-E/CzT-Basalt_lower_flood/2200	1117	ET_AM/NW/RKW/AU/P200	4	Raya Kobo	2020	571380	1325184	gleyic Fluvisols arenic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1538	ET_AM/NW/HW/AU/P1	4	Habru	2020	571238	1275488	leptic Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1539	ET_AM/NW/HW/AU/P2	4	Habru	2020	570262	1275373	leptic Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1540	ET_AM/NW/HW/AU/P3	4	Habru	2020	569205	1275150	leptic Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1541	ET_AM/NW/HW/AU/P4	4	Habru	2020	568657	1275629	skeletal Leptosols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1574	ET_AM/NW/HW/AU/P37	4	Habru	2020	570932	1280959	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	1575	ET_AM/NW/HW/AU/P38	4	Habru	2020	571246	1280891	chromic Luvisols clayic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2200	1639	ET_AM/NW/HW/AU/P102	4	Habru	2020	570499	1292014	irragric Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1670	ET_AM/NW/HW/AU/P133	4	Habru	2020	566700	1297069	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	1675	ET_AM/NW/HW/AU/P138	4	Habru	2020	566706	1298601	pellic Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1676	ET_AM/NW/HW/AU/P139	4	Habru	2020	566405	1298149	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	1678	ET_AM/NW/HW/AU/P141	4	Habru	2020	587839	1305873	lithic Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/2200	1688	ET_AM/NW/HW/AU/P151	4	Habru	2020	585632	1305721	pellic Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1689	ET_AM/NW/HW/AU/P152	4	Habru	2020	585099	1305226	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	1691	ET_AM/NW/HW/AU/P154	4	Habru	2020	586844	1303727	pellic Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1693	ET_AM/NW/HW/AU/P156	4	Habru	2020	564110	1300945	chromic Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1708	ET_AM/NW/HW/AU/P171	4	Habru	2020	584667	1308915	chromic Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1709	ET_AM/NW/HW/AU/P172	4	Habru	2020	583816	1308726	chromic Vertisols aric hypereutric gilgaic matic
Amhara-E/CzT-Basalt_lower_flood/2200	1710	ET_AM/NW/HW/AU/P173	4	Habru	2020	583336	1308065	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	1711	ET_AM/NW/HW/AU/P174	4	Habru	2020	583797	1307421	chromic Vertisols aric hypereutric gilgaic grumic

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Amhara-E/CzT-Basalt_lower_flood/2200	1724	ET_AM/NW/HW/AU/P187	4	Habru	2020	587959	1297100	dystic Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/2200	1727	ET_AM/NW/HW/AU/P190	4	Habru	2020	586047	1303040	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	1736	ET_AM/NW/HW/AU/P199	4	Habru	2020	568193	1298438	skeletal Regosols loamic aric fluvic
Amhara-E/CzT-Basalt_lower_flood/2200	1738	ET_AM/NW/HW/AU/P201	4	Habru	2020	587524	1296901	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/2200	1739	ET_AM/NW/HW/AU/P202	4	Habru	2020	571314	1280772	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/2200	1990	ET_AM/NW/RKW/SP/P18	1	Raya Kobo	2020	571529	1324064	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/2200	1991	ET_AM/NW/RKW/SP/P19	1	Raya Kobo	2020	571380	1325184	leptic Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/2200	2044	ET_AM/NW/HW/SP/P6	1	Habru	2020	571314	1280772	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	2055	ET_AM/NW/HW/SP/P17	1	Habru	2020	568193	1298438	leptic Regosols loamic aric fluvic
Amhara-E/CzT-Basalt_lower_flood/2200	2056	ET_AM/NW/HW/SP/P18	1	Habru	2020	587487	1304227	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2200	2059	ET_AM/NW/HW/SP/P21	1	Habru	2020	583686	1308329	pellic Vertisols aric chernic gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/2200	2060	ET_AM/NW/HW/SP/P22	1	Habru	2020	587524	1296901	cambic Leptosols arenic aric
Amhara-E/CzT-Basalt_lower_flood/2210	1677	ET_AM/NW/HW/AU/P140	4	Habru	2020	566242	1297224	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2210	1679	ET_AM/NW/HW/AU/P142	4	Habru	2020	586202	1306431	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2210	1682	ET_AM/NW/HW/AU/P145	4	Habru	2020	587059	1306561	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/2210	1690	ET_AM/NW/HW/AU/P153	4	Habru	2020	585535	1304114	vertic Luvisols clayic aric humic
Amhara-E/CzT-Basalt_lower_flood/2210	1694	ET_AM/NW/HW/AU/P157	4	Habru	2020	562183	1300871	cambic Leptosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/2210	1705	ET_AM/NW/HW/AU/P168	4	Habru	2020	585839	1307591	vertic Luvisols clayic aric ochric
Amhara-E/CzT-Basalt_lower_flood/2230	1048	ET_AM/NW/RKW/AU/P131	4	Raya Kobo	2020	572705	1325809	lamellic Luvisols clayic aric cutanic
Amhara-E/CzT-Basalt_lower_flood/2230	1683	ET_AM/NW/HW/AU/P146	4	Habru	2020	587474	1306389	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/2300	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/2310	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/2330	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3110	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3121	1066	ET_AM/NW/RKW/AU/P149	4	Raya Kobo	2020	574869	1318000	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/3121	1549	ET_AM/NW/HW/AU/P12	4	Habru	2020	577051	1278109	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/3121	1550	ET_AM/NW/HW/AU/P13	4	Habru	2020	577742	1277835	leptic Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/3121	1712	ET_AM/NW/HW/AU/P175	4	Habru	2020	586612	1298836	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3121	1720	ET_AM/NW/HW/AU/P183	4	Habru	2020	587091	1303114	irragric Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/3122	1061	ET_AM/NW/RKW/AU/P144	4	Raya Kobo	2020	574579	1318093	lithic Leptosols loamic aric humic
Amhara-E/CzT-Basalt_lower_flood/3122	1063	ET_AM/NW/RKW/AU/P146	4	Raya Kobo	2020	574138	1317852	hyperskeletal Leptosols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/3122	1716	ET_AM/NW/HW/AU/P179	4	Habru	2020	587071	1298366	skeletal leptic Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3122	1717	ET_AM/NW/HW/AU/P180	4	Habru	2020	588075	1298114	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/3122	1722	ET_AM/NW/HW/AU/P185	4	Habru	2020	588545	1298670	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3122	1732	ET_AM/NW/HW/AU/P195	4	Habru	2020	588038	1298259	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/3122	1733	ET_AM/NW/HW/AU/P196	4	Habru	2020	588147	1299389	skeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_lower_flood/3122	2061	ET_AM/NW/HW/SP/P23	1	Habru	2020	587003	1299554	vertic Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/3123	1721	ET_AM/NW/HW/AU/P184	4	Habru	2020	588203	1299683	skeletal Leptosols loamic
Amhara-E/CzT-Basalt_lower_flood/3130	1728	ET_AM/NW/HW/AU/P191	4	Habru	2020	588050	1297813	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/3130	1731	ET_AM/NW/HW/AU/P194	4	Habru	2020	588050	1297813	skeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_lower_flood/3210	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3221	1573	ET_AM/NW/HW/AU/P36	4	Habru	2020	570690	1280897	skeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_lower_flood/3221	1646	ET_AM/NW/HW/AU/P109	4	Habru	2020	577661	1295779	skeletal Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3221	1647	ET_AM/NW/HW/AU/P110	4	Habru	2020	577793	1296806	cambic Leptosols loamic aric humic
Amhara-E/CzT-Basalt_lower_flood/3221	1715	ET_AM/NW/HW/AU/P178	4	Habru	2020	587298	1297751	skeletal leptic Fluvisols loamic aric

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Amhara-E/CzT-Basalt_lower_flood/3221	1719	ET_AM/NW/HW/AU/P182	4	Habru	2020	587586	1301775	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3221	1723	ET_AM/NW/HW/AU/P186	4	Habru	2020	587540	1297776	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3221	1725	ET_AM/NW/HW/AU/P188	4	Habru	2020	588040	1297379	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/3222	1040	ET_AM/NW/RKW/AU/P123	4	Raya Kobo	2020	569793	1325116	colluvic Regosols clayic aric ochric
Amhara-E/CzT-Basalt_lower_flood/3222	1043	ET_AM/NW/RKW/AU/P126	4	Raya Kobo	2020	569624	1325726	colluvic Regosols clayic aric ochric
Amhara-E/CzT-Basalt_lower_flood/3222	1050	ET_AM/NW/RKW/AU/P133	4	Raya Kobo	2020	572295	1326390	lamellic Luvisols clayic aric cutanic
Amhara-E/CzT-Basalt_lower_flood/3222	1552	ET_AM/NW/HW/AU/P15	4	Habru	2020	566169	1280529	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/3222	1633	ET_AM/NW/HW/AU/P96	4	Habru	2020	568314	1290010	skeletal Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/3222	1634	ET_AM/NW/HW/AU/P97	4	Habru	2020	568930	1290264	skeletal Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3222	1635	ET_AM/NW/HW/AU/P98	4	Habru	2020	569786	1290631	skeletal Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3222	1636	ET_AM/NW/HW/AU/P99	4	Habru	2020	571052	1290726	skeletal Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3222	1637	ET_AM/NW/HW/AU/P100	4	Habru	2020	570423	1290923	skeletal Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3222	1681	ET_AM/NW/HW/AU/P144	4	Habru	2020	586657	1306426	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/3222	1686	ET_AM/NW/HW/AU/P149	4	Habru	2020	586246	1303821	skeletal Leptosols arenic aric
Amhara-E/CzT-Basalt_lower_flood/3222	1729	ET_AM/NW/HW/AU/P192	4	Habru	2020	587569	1296851	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3222	1730	ET_AM/NW/HW/AU/P193	4	Habru	2020	587859	1297100	skeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_lower_flood/3222	1988	ET_AM/NW/RKW/SP/P16	1	Raya Kobo	2020	573548	1317268	skeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/3222	2057	ET_AM/NW/HW/SP/P19	1	Habru	2020	587672	1300634	chromic Vertisols aric mollic gilgaic
Amhara-E/CzT-Basalt_lower_flood/3223	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3230	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3310	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3321	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3322	726	ET_AM/NW/WW/AU/P14	4	Wadla	2020	500872	1279328	vertic Cambisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3322	728	ET_AM/NW/WW/AU/P16	4	Wadla	2020	500055	1277531	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_lower_flood/3323	1948	ET_AM/NW/WW/SP/P1	1	Wadla	2020	501024	1279427	eutric Fluvisols loamic aric
Amhara-E/CzT-Basalt_lower_flood/3330	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3410	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3422	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3423	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/3430	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4100	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4110	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4130	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4200	1046	ET_AM/NW/RKW/AU/P129	4	Raya Kobo	2020	571342	1325050	lamellic Luvisols clayic aric cutanic
Amhara-E/CzT-Basalt_lower_flood/4200	1047	ET_AM/NW/RKW/AU/P130	4	Raya Kobo	2020	570620	1325020	lamellic Luvisols clayic aric cutanic
Amhara-E/CzT-Basalt_lower_flood/4200	1049	ET_AM/NW/RKW/AU/P132	4	Raya Kobo	2020	571722	1325716	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4200	1051	ET_AM/NW/RKW/AU/P134	4	Raya Kobo	2020	575384	1324127	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4200	1058	ET_AM/NW/RKW/AU/P141	4	Raya Kobo	2020	574282	1325674	leptic Cambisols clayic aric
Amhara-E/CzT-Basalt_lower_flood/4200	1081	ET_AM/NW/RKW/AU/P164	4	Raya Kobo	2020	565987	1345549	leptic Regosols siltic aric humic
Amhara-E/CzT-Basalt_lower_flood/4200	1632	ET_AM/NW/HW/AU/P95	4	Habru	2020	567718	1290252	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/4200	1640	ET_AM/NW/HW/AU/P103	4	Habru	2020	570024	1291672	irragric Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4200	1669	ET_AM/NW/HW/AU/P132	4	Habru	2020	566237	1297535	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/4200	1671	ET_AM/NW/HW/AU/P134	4	Habru	2020	566552	1296583	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4200	1672	ET_AM/NW/HW/AU/P135	4	Habru	2020	567843	1298545	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/4200	1673	ET_AM/NW/HW/AU/P136	4	Habru	2020	566762	1297445	chromic Vertisols aric hypereutric gilgaic grumic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_lower_flood/4200	1674	ET_AM/NW/HW/AU/P137	4	Habru	2020	566185	1298847	calcic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4200	1680	ET_AM/NW/HW/AU/P143	4	Habru	2020	587998	1305064	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/4200	1687	ET_AM/NW/HW/AU/P150	4	Habru	2020	586277	1306306	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/4200	1692	ET_AM/NW/HW/AU/P155	4	Habru	2020	587855	1304461	haplic Vertisols aric
Amhara-E/CzT-Basalt_lower_flood/4200	1706	ET_AM/NW/HW/AU/P169	4	Habru	2020	585801	1308263	cambic Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/4200	1707	ET_AM/NW/HW/AU/P170	4	Habru	2020	585340	1309027	chromic Luvisols clayic aric ochric
Amhara-E/CzT-Basalt_lower_flood/4200	1737	ET_AM/NW/HW/AU/P200	4	Habru	2020	587670	1305630	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/4200	1742	ET_AM/NW/HW/AU/P205	4	Habru	2020	568950	1298362	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_lower_flood/4200	2054	ET_AM/NW/HW/SP/P16	1	Habru	2020	568954	1298366	fluvic Cambisols loamic aric ochric
Amhara-E/CzT-Basalt_lower_flood/4200	2058	ET_AM/NW/HW/SP/P20	1	Habru	2020	586276	1306357	pellic Vertisols aric chernic gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4210	1661	ET_AM/NW/HW/AU/P124	4	Habru	2020	582098	1296468	leptic Luvisols clayic aric ochric
Amhara-E/CzT-Basalt_lower_flood/4210	1668	ET_AM/NW/HW/AU/P131	4	Habru	2020	567152	1297828	irragric Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/4230	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4300	724	ET_AM/NW/WW/AU/P12	4	Wadla	2020	500329	1278514	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4300	725	ET_AM/NW/WW/AU/P13	4	Wadla	2020	500631	1279013	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4300	727	ET_AM/NW/WW/AU/P15	4	Wadla	2020	500385	1277941	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_lower_flood/4300	815	ET_AM/NW/WW/AU/P103	4	Wadla	2020	500930	1281212	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_lower_flood/4310	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4330	717	ET_AM/NW/WW/AU/P5	4	Wadla	2020	500191	1277496	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_lower_flood/4400	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4410	0		0		0	0	0	
Amhara-E/CzT-Basalt_lower_flood/4430	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/1002	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/1003	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/1004	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/2200	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/2210	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/2230	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/2300	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/2310	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/2330	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3210	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3221	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3222	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3223	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3230	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3310	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3321	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/3322	715	ET_AM/NW/WW/AU/P3	4	Wadla	2020	498749	1277084	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_middle_flood/3323	748	ET_AM/NW/WW/AU/P36	4	Wadla	2020	498299	1276911	lithic Leptosols arenic
Amhara-E/CzT-Basalt_middle_flood/3330	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/4200	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/4210	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/4230	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/4300	716	ET_AM/NW/WW/AU/P4	4	Wadla	2020	499827	1277235	pellic Vertisols aric hypereutric gilgaic mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_middle_flood/4310	0		0		0	0	0	
Amhara-E/CzT-Basalt_middle_flood/4330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/1002	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/1003	793	ET_AM/NW/WW/AU/P81	4	Wadla	2020	498412	1286873	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/1003	795	ET_AM/NW/WW/AU/P83	4	Wadla	2020	499005	1288741	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/1004	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/2210	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/2300	718	ET_AM/NW/WW/AU/P6	4	Wadla	2020	496624	1277893	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	721	ET_AM/NW/WW/AU/P9	4	Wadla	2020	497819	1279500	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	722	ET_AM/NW/WW/AU/P10	4	Wadla	2020	498263	1279540	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	723	ET_AM/NW/WW/AU/P11	4	Wadla	2020	497599	1280038	hyperskeletal Leptosols clayic aric
Amhara-E/CzT-Basalt_upper_flood/2300	729	ET_AM/NW/WW/AU/P17	4	Wadla	2020	496729	1280156	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	730	ET_AM/NW/WW/AU/P18	4	Wadla	2020	495935	1280073	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	731	ET_AM/NW/WW/AU/P19	4	Wadla	2020	495348	1280058	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	733	ET_AM/NW/WW/AU/P21	4	Wadla	2020	496000	1279469	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	734	ET_AM/NW/WW/AU/P22	4	Wadla	2020	496431	1279516	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	738	ET_AM/NW/WW/AU/P26	4	Wadla	2020	495471	1280465	lithic Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/2300	740	ET_AM/NW/WW/AU/P28	4	Wadla	2020	495874	1278572	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	741	ET_AM/NW/WW/AU/P29	4	Wadla	2020	494112	1278827	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	744	ET_AM/NW/WW/AU/P32	4	Wadla	2020	495242	1278852	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	745	ET_AM/NW/WW/AU/P33	4	Wadla	2020	495808	1277932	lithic Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/2300	751	ET_AM/NW/WW/AU/P39	4	Wadla	2020	503272	1287454	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2300	771	ET_AM/NW/WW/AU/P59	4	Wadla	2020	500870	1285594	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	773	ET_AM/NW/WW/AU/P61	4	Wadla	2020	501535	1286855	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	776	ET_AM/NW/WW/AU/P64	4	Wadla	2020	503252	1285183	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	777	ET_AM/NW/WW/AU/P65	4	Wadla	2020	502004	1285078	lithic Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/2300	796	ET_AM/NW/WW/AU/P84	4	Wadla	2020	499722	1290496	chromic Luvisols clayic cutanic
Amhara-E/CzT-Basalt_upper_flood/2300	811	ET_AM/NW/WW/AU/P99	4	Wadla	2020	498176	1280296	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2300	812	ET_AM/NW/WW/AU/P100	4	Wadla	2020	499204	1280237	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2300	813	ET_AM/NW/WW/AU/P101	4	Wadla	2020	498786	1279977	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	814	ET_AM/NW/WW/AU/P102	4	Wadla	2020	499965	1280649	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	818	ET_AM/NW/WW/AU/P106	4	Wadla	2020	496334	1282047	dystic lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2300	819	ET_AM/NW/WW/AU/P107	4	Wadla	2020	497951	1281591	abruptic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	821	ET_AM/NW/WW/AU/P109	4	Wadla	2020	497570	1281703	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2300	822	ET_AM/NW/WW/AU/P110	4	Wadla	2020	498214	1281551	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2300	823	ET_AM/NW/WW/AU/P111	4	Wadla	2020	499348	1281346	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	828	ET_AM/NW/WW/AU/P116	4	Wadla	2020	494331	1281151	dystic skeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2300	829	ET_AM/NW/WW/AU/P117	4	Wadla	2020	494997	1282158	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2300	833	ET_AM/NW/WW/AU/P121	4	Wadla	2020	493611	1283323	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	840	ET_AM/NW/WW/AU/P128	4	Wadla	2020	499237	1282524	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/2300	842	ET_AM/NW/WW/AU/P130	4	Wadla	2020	496362	1281958	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	844	ET_AM/NW/WW/AU/P132	4	Wadla	2020	495874	1281450	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/2300	847	ET_AM/NW/WW/AU/P135	4	Wadla	2020	491541	1287335	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	851	ET_AM/NW/WW/AU/P139	4	Wadla	2020	489596	1287957	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	856	ET_AM/NW/WW/AU/P144	4	Wadla	2020	488020	1285786	vertic Luvisols clayic aric cutanic nitic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_upper_flood/2300	858	ET_AM/NW/WW/AU/P146	4	Wadla	2020	493070	1287290	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	859	ET_AM/NW/WW/AU/P147	4	Wadla	2020	491702	1285688	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2300	867	ET_AM/NW/WW/AU/P155	4	Wadla	2020	494000	1290583	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/2300	872	ET_AM/NW/WW/AU/P160	4	Wadla	2020	492533	1291037	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/2300	874	ET_AM/NW/WW/AU/P162	4	Wadla	2020	489780	1290078	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	875	ET_AM/NW/WW/AU/P163	4	Wadla	2020	490787	1290148	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	876	ET_AM/NW/WW/AU/P164	4	Wadla	2020	491379	1289998	hyperskeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2300	877	ET_AM/NW/WW/AU/P165	4	Wadla	2020	492185	1289725	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2300	899	ET_AM/NW/WW/AU/P187	4	Wadla	2020	483062	1288546	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/2300	900	ET_AM/NW/WW/AU/P188	4	Wadla	2020	481069	1286461	skeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/2300	902	ET_AM/NW/WW/AU/P190	4	Wadla	2020	482521	1286321	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2300	1956	ET_AM/NW/WW/SP/P9	1	Wadla	2020	501753	1286475	vertic Luvisols clayic aric cutanic hypereutric
Amhara-E/CzT-Basalt_upper_flood/2300	1962	ET_AM/NW/WW/SP/P15	1	Wadla	2020	497707	1279593	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2300	1967	ET_AM/NW/WW/SP/P20	1	Wadla	2020	490752	1286339	rhodic vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2310	779	ET_AM/NW/WW/AU/P67	4	Wadla	2020	500369	1284949	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/2310	790	ET_AM/NW/WW/AU/P78	4	Wadla	2020	503668	1284794	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/2310	816	ET_AM/NW/WW/AU/P104	4	Wadla	2020	495551	1282704	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2310	839	ET_AM/NW/WW/AU/P127	4	Wadla	2020	500794	1282714	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/2310	863	ET_AM/NW/WW/AU/P151	4	Wadla	2020	493493	1289005	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2310	868	ET_AM/NW/WW/AU/P156	4	Wadla	2020	493438	1291291	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2310	909	ET_AM/NW/WW/AU/P197	4	Wadla	2020	492699	1287364	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2310	910	ET_AM/NW/WW/AU/P198	4	Wadla	2020	491159	1290442	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/2310	913	ET_AM/NW/WW/AU/P201	4	Wadla	2020	482302	1286906	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/2310	1950	ET_AM/NW/WW/SP/P3	1	Wadla	2020	496146	1277972	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/2310	1960	ET_AM/NW/WW/SP/P13	1	Wadla	2020	499038	1291058	pellic Vertisols aric chernic gleyic grumic
Amhara-E/CzT-Basalt_upper_flood/2310	1968	ET_AM/NW/WW/SP/P21	1	Wadla	2020	492699	1287364	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/2310	1969	ET_AM/NW/WW/SP/P22	1	Wadla	2020	491159	1290442	rhodic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2310	1972	ET_AM/NW/WW/SP/P25	1	Wadla	2020	482302	1286906	irragric Vertisols aric chernic gleyic grumic
Amhara-E/CzT-Basalt_upper_flood/2330	720	ET_AM/NW/WW/AU/P8	4	Wadla	2020	497550	1278783	hyperskeletal Leptosols clayic aric
Amhara-E/CzT-Basalt_upper_flood/2330	831	ET_AM/NW/WW/AU/P119	4	Wadla	2020	493223	1284044	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/2330	862	ET_AM/NW/WW/AU/P150	4	Wadla	2020	494216	1290974	vertic Cambisols loamic aric
Amhara-E/CzT-Basalt_upper_flood/2330	906	ET_AM/NW/WW/AU/P194	4	Wadla	2020	483573	1286593	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/2330	915	ET_AM/NW/WW/AU/P203	4	Wadla	2020	495468	1281368	lithic Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/2330	917	ET_AM/NW/WW/AU/P205	4	Wadla	2020	491576	1287181	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/2330	1961	ET_AM/NW/WW/SP/P14	1	Wadla	2020	500051	1280547	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/2330	1964	ET_AM/NW/WW/SP/P17	1	Wadla	2020	495468	1281368	vertic Cambisols loamic aric
Amhara-E/CzT-Basalt_upper_flood/2330	1966	ET_AM/NW/WW/SP/P19	1	Wadla	2020	491576	1287181	rhodic vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/3210	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3222	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3223	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3230	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3310	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3321	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3322	854	ET_AM/NW/WW/AU/P142	4	Wadla	2020	488962	1286059	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/3323	739	ET_AM/NW/WW/AU/P27	4	Wadla	2020	496220	1277579	pellic Vertisols aric hypereutric gilgaic mazic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_upper_flood/3323	848	ET_AM/NW/WW/AU/P136	4	Wadla	2020	490771	1287079	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/3330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3410	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3422	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3423	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/3430	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood/4300	719	ET_AM/NW/WW/AU/P7	4	Wadla	2020	496956	1278361	hyperskeletal Leptosols arenic aric
Amhara-E/CzT-Basalt_upper_flood/4300	732	ET_AM/NW/WW/AU/P20	4	Wadla	2020	494948	1279649	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	735	ET_AM/NW/WW/AU/P23	4	Wadla	2020	497044	1279507	vertic Cambisols loamic aric
Amhara-E/CzT-Basalt_upper_flood/4300	736	ET_AM/NW/WW/AU/P24	4	Wadla	2020	496411	1280822	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	742	ET_AM/NW/WW/AU/P30	4	Wadla	2020	494756	1279151	chromic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/4300	743	ET_AM/NW/WW/AU/P31	4	Wadla	2020	493610	1279487	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	752	ET_AM/NW/WW/AU/P40	4	Wadla	2020	503797	1287004	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/4300	772	ET_AM/NW/WW/AU/P60	4	Wadla	2020	500819	1286577	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	778	ET_AM/NW/WW/AU/P66	4	Wadla	2020	501017	1285220	skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	781	ET_AM/NW/WW/AU/P69	4	Wadla	2020	501152	1283646	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	794	ET_AM/NW/WW/AU/P82	4	Wadla	2020	498381	1288053	cambic Leptosols loamic aric humic
Amhara-E/CzT-Basalt_upper_flood/4300	797	ET_AM/NW/WW/AU/P85	4	Wadla	2020	499386	1289152	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4300	810	ET_AM/NW/WW/AU/P98	4	Wadla	2020	497447	1280628	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/4300	817	ET_AM/NW/WW/AU/P105	4	Wadla	2020	495858	1282657	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4300	820	ET_AM/NW/WW/AU/P108	4	Wadla	2020	497007	1281817	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Basalt_upper_flood/4300	825	ET_AM/NW/WW/AU/P113	4	Wadla	2020	494967	1282665	eutric colluvic leptic Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	826	ET_AM/NW/WW/AU/P114	4	Wadla	2020	493615	1282311	eutric colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	827	ET_AM/NW/WW/AU/P115	4	Wadla	2020	493681	1281734	eutric colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	830	ET_AM/NW/WW/AU/P118	4	Wadla	2020	492142	1284749	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	832	ET_AM/NW/WW/AU/P120	4	Wadla	2020	493525	1283752	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4300	834	ET_AM/NW/WW/AU/P122	4	Wadla	2020	493764	1282559	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	835	ET_AM/NW/WW/AU/P123	4	Wadla	2020	495399	1280773	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/4300	836	ET_AM/NW/WW/AU/P124	4	Wadla	2020	499137	1283808	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4300	838	ET_AM/NW/WW/AU/P126	4	Wadla	2020	500180	1283281	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/4300	841	ET_AM/NW/WW/AU/P129	4	Wadla	2020	498514	1283086	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	843	ET_AM/NW/WW/AU/P131	4	Wadla	2020	494607	1280623	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	845	ET_AM/NW/WW/AU/P133	4	Wadla	2020	495061	1281314	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	846	ET_AM/NW/WW/AU/P134	4	Wadla	2020	490672	1287979	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	849	ET_AM/NW/WW/AU/P137	4	Wadla	2020	489658	1286943	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	850	ET_AM/NW/WW/AU/P138	4	Wadla	2020	489009	1287402	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	852	ET_AM/NW/WW/AU/P140	4	Wadla	2020	490782	1285682	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	853	ET_AM/NW/WW/AU/P141	4	Wadla	2020	490164	1286195	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood/4300	857	ET_AM/NW/WW/AU/P145	4	Wadla	2020	489279	1285476	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	860	ET_AM/NW/WW/AU/P148	4	Wadla	2020	492117	1286902	abruptic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	861	ET_AM/NW/WW/AU/P149	4	Wadla	2020	491300	1285062	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	864	ET_AM/NW/WW/AU/P152	4	Wadla	2020	494117	1291285	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	865	ET_AM/NW/WW/AU/P153	4	Wadla	2020	493043	1288159	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	870	ET_AM/NW/WW/AU/P158	4	Wadla	2020	493036	1290678	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	871	ET_AM/NW/WW/AU/P159	4	Wadla	2020	493109	1291476	hyperskeletal Leptosols arenic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_upper_flood/4300	873	ET_AM/NW/WW/AU/P161	4	Wadla	2020	490589	1290780	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/4300	878	ET_AM/NW/WW/AU/P166	4	Wadla	2020	489788	1285559	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	894	ET_AM/NW/WW/AU/P182	4	Wadla	2020	481162	1289133	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	895	ET_AM/NW/WW/AU/P183	4	Wadla	2020	480613	1288370	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	896	ET_AM/NW/WW/AU/P184	4	Wadla	2020	481061	1287412	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	897	ET_AM/NW/WW/AU/P185	4	Wadla	2020	482028	1287571	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	898	ET_AM/NW/WW/AU/P186	4	Wadla	2020	482793	1287882	leptic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	901	ET_AM/NW/WW/AU/P189	4	Wadla	2020	481320	1285563	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	903	ET_AM/NW/WW/AU/P191	4	Wadla	2020	482552	1285824	rhodic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	904	ET_AM/NW/WW/AU/P192	4	Wadla	2020	482235	1286722	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	905	ET_AM/NW/WW/AU/P193	4	Wadla	2020	483056	1287468	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	908	ET_AM/NW/WW/AU/P196	4	Wadla	2020	493812	1286829	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4300	912	ET_AM/NW/WW/AU/P200	4	Wadla	2020	482550	1285818	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	914	ET_AM/NW/WW/AU/P202	4	Wadla	2020	495000	1279444	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/4300	916	ET_AM/NW/WW/AU/P204	4	Wadla	2020	493924	1282587	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/4300	1951	ET_AM/NW/WW/SP/P4	1	Wadla	2020	494667	1279444	vertic Luvisols clayic aric cutanic hypereutric
Amhara-E/CzT-Basalt_upper_flood/4300	1952	ET_AM/NW/WW/SP/P5	1	Wadla	2020	497331	1281322	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4300	1957	ET_AM/NW/WW/SP/P10	1	Wadla	2020	501045	1284442	colluvic Regosols loamic aric
Amhara-E/CzT-Basalt_upper_flood/4300	1963	ET_AM/NW/WW/SP/P16	1	Wadla	2020	495000	1279444	cambic Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/4300	1965	ET_AM/NW/WW/SP/P18	1	Wadla	2020	493924	1282587	rhodic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4300	1971	ET_AM/NW/WW/SP/P24	1	Wadla	2020	482550	1285818	lithic Leptosols silty aric
Amhara-E/CzT-Basalt_upper_flood/4310	869	ET_AM/NW/WW/AU/P157	4	Wadla	2020	492419	1290199	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4330	780	ET_AM/NW/WW/AU/P68	4	Wadla	2020	500354	1284061	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4330	855	ET_AM/NW/WW/AU/P143	4	Wadla	2020	489505	1286282	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4330	866	ET_AM/NW/WW/AU/P154	4	Wadla	2020	493372	1288259	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4400	753	ET_AM/NW/WW/AU/P41	4	Wadla	2020	502956	1288027	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/4400	755	ET_AM/NW/WW/AU/P43	4	Wadla	2020	503448	1288399	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4400	760	ET_AM/NW/WW/AU/P48	4	Wadla	2020	508864	1288442	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4400	762	ET_AM/NW/WW/AU/P50	4	Wadla	2020	508465	1288142	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/4400	774	ET_AM/NW/WW/AU/P62	4	Wadla	2020	502027	1286184	umbric lithic Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood/4400	775	ET_AM/NW/WW/AU/P63	4	Wadla	2020	502656	1285681	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4400	782	ET_AM/NW/WW/AU/P70	4	Wadla	2020	501522	1283044	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/4400	783	ET_AM/NW/WW/AU/P71	4	Wadla	2020	502253	1283947	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/4400	784	ET_AM/NW/WW/AU/P72	4	Wadla	2020	500999	1282063	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/4400	785	ET_AM/NW/WW/AU/P73	4	Wadla	2020	501902	1282869	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4400	786	ET_AM/NW/WW/AU/P74	4	Wadla	2020	501614	1282450	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/4400	787	ET_AM/NW/WW/AU/P75	4	Wadla	2020	502322	1282936	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4400	788	ET_AM/NW/WW/AU/P76	4	Wadla	2020	503344	1283301	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood/4400	789	ET_AM/NW/WW/AU/P77	4	Wadla	2020	503337	1283629	vertic Cambisols loamic aric
Amhara-E/CzT-Basalt_upper_flood/4400	791	ET_AM/NW/WW/AU/P79	4	Wadla	2020	503450	1284176	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4400	792	ET_AM/NW/WW/AU/P80	4	Wadla	2020	504107	1285429	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood/4400	802	ET_AM/NW/WW/AU/P90	4	Wadla	2020	502906	1289584	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood/4400	803	ET_AM/NW/WW/AU/P91	4	Wadla	2020	499216	1290480	vertic Cambisols loamic aric
Amhara-E/CzT-Basalt_upper_flood/4400	837	ET_AM/NW/WW/AU/P125	4	Wadla	2020	500074	1281612	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4400	1953	ET_AM/NW/WW/SP/P6	1	Wadla	2020	508322	1288141	calcic Vertisols aric hypereutric gilgaic grumic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_upper_flood/4410	1955	ET_AM/NW/WW/SP/P8	1	Wadla	2020	503507	1285459	pellic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood/4430	758	ET_AM/NW/WW/AU/P46	4	Wadla	2020	505902	1285643	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood_&trachyte/1002	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/1003	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/2300	737	ET_AM/NW/WW/AU/P25	4	Wadla	2020	493954	1279882	lithic Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood_&trachyte/2310	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/2330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/3310	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/3322	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/3323	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/3330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/4300	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/4310	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_&trachyte/4330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/1002	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/1003	799	ET_AM/NW/WW/AU/P87	4	Wadla	2020	505057	1291276	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood_dome/2300	804	ET_AM/NW/WW/AU/P92	4	Wadla	2020	500197	1291353	dystic hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood_dome/2310	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/2330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3310	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3322	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3323	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3410	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3422	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3423	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/3430	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/4300	756	ET_AM/NW/WW/AU/P44	4	Wadla	2020	504234	1288333	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4300	801	ET_AM/NW/WW/AU/P89	4	Wadla	2020	503927	1290038	vertic Luvisols clayic aric nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4310	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/4330	0		0		0	0	0	
Amhara-E/CzT-Basalt_upper_flood_dome/4400	754	ET_AM/NW/WW/AU/P42	4	Wadla	2020	504811	1286376	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	757	ET_AM/NW/WW/AU/P45	4	Wadla	2020	504751	1287624	cambic Leptosols arenic humic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	759	ET_AM/NW/WW/AU/P47	4	Wadla	2020	506599	1286470	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	761	ET_AM/NW/WW/AU/P49	4	Wadla	2020	507584	1287080	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	763	ET_AM/NW/WW/AU/P51	4	Wadla	2020	507603	1287713	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	764	ET_AM/NW/WW/AU/P52	4	Wadla	2020	506223	1286053	lithic Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4400	765	ET_AM/NW/WW/AU/P53	4	Wadla	2020	508540	1289163	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	766	ET_AM/NW/WW/AU/P54	4	Wadla	2020	508203	1289934	hyperskeletal Leptosols
Amhara-E/CzT-Basalt_upper_flood_dome/4400	767	ET_AM/NW/WW/AU/P55	4	Wadla	2020	507702	1290876	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	768	ET_AM/NW/WW/AU/P56	4	Wadla	2020	506975	1290967	lithic Leptosols arenic humic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	769	ET_AM/NW/WW/AU/P57	4	Wadla	2020	506619	1290103	skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4400	800	ET_AM/NW/WW/AU/P88	4	Wadla	2020	504994	1289868	leptic Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4400	805	ET_AM/NW/WW/AU/P93	4	Wadla	2020	501204	1291301	dystic hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	806	ET_AM/NW/WW/AU/P94	4	Wadla	2020	503760	1292116	dystic hyperskeletal Leptosols arenic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Basalt_upper_flood_dome/4400	808	ET_AM/NW/WW/AU/P96	4	Wadla	2020	501809	1291501	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	879	ET_AM/NW/WW/AU/P167	4	Wadla	2020	512529	1301547	hyperskeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4400	880	ET_AM/NW/WW/AU/P168	4	Wadla	2020	512421	1300644	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	882	ET_AM/NW/WW/AU/P170	4	Wadla	2020	512272	1298621	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	883	ET_AM/NW/WW/AU/P171	4	Wadla	2020	513004	1298763	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	884	ET_AM/NW/WW/AU/P172	4	Wadla	2020	513482	1299459	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	885	ET_AM/NW/WW/AU/P173	4	Wadla	2020	514564	1299866	chromic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	887	ET_AM/NW/WW/AU/P175	4	Wadla	2020	511295	1299391	hyperskeletal Leptosols arenic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	888	ET_AM/NW/WW/AU/P176	4	Wadla	2020	510255	1299501	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	889	ET_AM/NW/WW/AU/P177	4	Wadla	2020	510268	1300666	lamellic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	890	ET_AM/NW/WW/AU/P178	4	Wadla	2020	510553	1301681	skeletal vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	891	ET_AM/NW/WW/AU/P179	4	Wadla	2020	510473	1302604	rhodic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	892	ET_AM/NW/WW/AU/P180	4	Wadla	2020	511682	1302025	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	893	ET_AM/NW/WW/AU/P181	4	Wadla	2020	511521	1301272	vertic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	907	ET_AM/NW/WW/AU/P195	4	Wadla	2020	515971	1298970	skeletal Leptosols arenic ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4400	911	ET_AM/NW/WW/AU/P199	4	Wadla	2020	506237	1300275	colluvic skeletal Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4400	1954	ET_AM/NW/WW/SP/P7	1	Wadla	2020	504815	1287080	vertic Luvisols clayic aric cutanic hypereutric
Amhara-E/CzT-Basalt_upper_flood_dome/4400	1959	ET_AM/NW/WW/SP/P12	1	Wadla	2020	500596	1291285	rhodic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4400	1970	ET_AM/NW/WW/SP/P23	1	Wadla	2020	506237	1300275	rhodic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4410	770	ET_AM/NW/WW/AU/P58	4	Wadla	2020	506881	1288955	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Basalt_upper_flood_dome/4410	807	ET_AM/NW/WW/AU/P95	4	Wadla	2020	502431	1292320	haplic Luvisols clayic aric cutanic nitic
Amhara-E/CzT-Basalt_upper_flood_dome/4410	809	ET_AM/NW/WW/AU/P97	4	Wadla	2020	502036	1291935	chromic Vertisols aric hypereutric
Amhara-E/CzT-Basalt_upper_flood_dome/4410	881	ET_AM/NW/WW/AU/P169	4	Wadla	2020	512145	1299485	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood_dome/4410	886	ET_AM/NW/WW/AU/P174	4	Wadla	2020	511323	1300269	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Basalt_upper_flood_dome/4430	798	ET_AM/NW/WW/AU/P86	4	Wadla	2020	504174	1291720	colluvic Regosols loamic aric ochric
Amhara-E/CzT-Basalt_upper_flood_dome/4430	1958	ET_AM/NW/WW/SP/P11	1	Wadla	2020	504168	1291720	chromic Luvisols clayic aric cutanic hypereutric
Amhara-E/CzT-Granite/2200	0		0		0	0	0	
Amhara-E/CzT-Granite/2210	0		0		0	0	0	
Amhara-E/CzT-Granite/2230	0		0		0	0	0	
Amhara-E/CzT-Granite/3210	0		0		0	0	0	
Amhara-E/CzT-Granite/3221	0		0		0	0	0	
Amhara-E/CzT-Granite/3222	1091	ET_AM/NW/RKW/AU/P174	4	Raya Kobo	2020	568246	1348273	leptic Fluvisols arenic aric ochric
Amhara-E/CzT-Granite/3223	0		0		0	0	0	
Amhara-E/CzT-Granite/3230	0		0		0	0	0	
Amhara-E/CzT-Granite/4200	0		0		0	0	0	
Amhara-E/CzT-Granite/4210	0		0		0	0	0	
Amhara-E/CzT-Granite/4230	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/1002	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/1003	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/1004	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/2200	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/2210	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/2230	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/2300	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/2310	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/2330	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3210	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3221	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3222	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3223	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3230	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3310	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3321	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3322	713	ET_AM/NW/WW/AU/P1	4	Wadla	2020	498659	1278001	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3322	714	ET_AM/NW/WW/AU/P2	4	Wadla	2020	498569	1277478	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3322	746	ET_AM/NW/WW/AU/P34	4	Wadla	2020	497958	1277494	lithic Leptosols arenic
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3322	749	ET_AM/NW/WW/AU/P37	4	Wadla	2020	498790	1277565	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3323	747	ET_AM/NW/WW/AU/P35	4	Wadla	2020	497811	1276972	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3323	750	ET_AM/NW/WW/AU/P38	4	Wadla	2020	497500	1277321	vertic Cambisols loamic aric
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3323	1949	ET_AM/NW/WW/SP/P2	1	Wadla	2020	496667	1277222	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/3330	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/4200	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/4210	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/4230	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/4300	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/4310	0		0		0	0	0	
Amhara-E/CzT-Pyroclast_tuff_ignimbrite/4330	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/1001	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/1002	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/1003	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/2100	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/2110	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/2130	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/2200	953	ET_AM/NW/RKW/AU/P36	4	Raya Kobo	2020	571537	1348625	hyperskeletal Leptosols aric
Amhara-E/CzT-Rhyolite_ignimbrite/2200	958	ET_AM/NW/RKW/AU/P41	4	Raya Kobo	2020	573256	1351179	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Rhyolite_ignimbrite/2200	959	ET_AM/NW/RKW/AU/P42	4	Raya Kobo	2020	572219	1351040	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Rhyolite_ignimbrite/2200	960	ET_AM/NW/RKW/AU/P43	4	Raya Kobo	2020	574094	1350923	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Rhyolite_ignimbrite/2200	961	ET_AM/NW/RKW/AU/P44	4	Raya Kobo	2020	573000	1351884	irragric Cambisols loamic aric ochric
Amhara-E/CzT-Rhyolite_ignimbrite/2200	1115	ET_AM/NW/RKW/AU/P198	4	Raya Kobo	2020	573372	1351190	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Rhyolite_ignimbrite/2200	1975	ET_AM/NW/RKW/SP/P3	1	Raya Kobo	2020	573372	1351190	haplic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Rhyolite_ignimbrite/2210	943	ET_AM/NW/RKW/AU/P26	4	Raya Kobo	2020	572607	1351151	pellic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Rhyolite_ignimbrite/2230	952	ET_AM/NW/RKW/AU/P35	4	Raya Kobo	2020	571071	1349177	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Rhyolite_ignimbrite/2230	955	ET_AM/NW/RKW/AU/P38	4	Raya Kobo	2020	571989	1347785	chromic Vertisols aric hypereutric gilgaic mazic
Amhara-E/CzT-Rhyolite_ignimbrite/2300	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/2310	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/2330	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/3110	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/3121	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/3122	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_ignimbrite/3123	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-E/CzT-Rhyolite_&ignimbrite/3130	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3210	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3221	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3222	944	ET_AM/NW/RKW/AU/P27	4	Raya Kobo	2020	571485	1347370	pellic Vertisols aric hypereutric gilgaic mazi
Amhara-E/CzT-Rhyolite_&ignimbrite/3223	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3230	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3310	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3321	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3322	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3323	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3330	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3422	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3423	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/3430	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/4200	954	ET_AM/NW/RKW/AU/P37	4	Raya Kobo	2020	571976	1348170	chromic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Rhyolite_&ignimbrite/4200	1106	ET_AM/NW/RKW/AU/P189	4	Raya Kobo	2020	572796	1350238	calcic Vertisols aric hypereutric gilgaic grumic
Amhara-E/CzT-Rhyolite_&ignimbrite/4210	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/4230	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/4300	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/4310	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/4330	0		0		0	0	0	
Amhara-E/CzT-Rhyolite_&ignimbrite/4430	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/2300	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/2310	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/2330	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/3310	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/3322	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/3323	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/3330	1941	ET_AM/EG/ESMW/AU/P199	4	Enbise Sar Midir	2020	419562	1204406	skeletal Regosols loamic aric fluvic
Amhara-W/CzQ-Basalt_&scoria_cones/3330	1944	ET_AM/EG/ESMW/AU/P202	4	Enbise Sar Midir	2020	420042	1204432	hyperskeletal Leptosols
Amhara-W/CzQ-Basalt_&scoria_cones/3410	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/3422	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/3423	2074	ET_AM/EG/ESMW/SP/P12	1	Enbise Sar Midir	2020	420456	1205525	hyperskeletal Leptosols ochric
Amhara-W/CzQ-Basalt_&scoria_cones/3430	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/4300	1925	ET_AM/EG/ESMW/AU/P183	4	Enbise Sar Midir	2020	423951	1205305	vertic Cambisols clayic aric humic
Amhara-W/CzQ-Basalt_&scoria_cones/4300	1926	ET_AM/EG/ESMW/AU/P184	4	Enbise Sar Midir	2020	423615	1205051	colluvic Regosols loamic aric
Amhara-W/CzQ-Basalt_&scoria_cones/4300	1927	ET_AM/EG/ESMW/AU/P185	4	Enbise Sar Midir	2020	423268	1205457	hyperskeletal Leptosols
Amhara-W/CzQ-Basalt_&scoria_cones/4300	1942	ET_AM/EG/ESMW/AU/P200	4	Enbise Sar Midir	2020	418950	1203177	colluvic Regosols loamic aric
Amhara-W/CzQ-Basalt_&scoria_cones/4300	1947	ET_AM/EG/ESMW/AU/P205	4	Enbise Sar Midir	2020	417222	1203532	colluvic Regosols loamic aric
Amhara-W/CzQ-Basalt_&scoria_cones/4300	2083	ET_AM/EG/ESMW/SP/P21	1	Enbise Sar Midir	2020	416879	1203493	vertic Luvisols loamic aric
Amhara-W/CzQ-Basalt_&scoria_cones/4310	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/4330	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/4400	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/4410	0		0		0	0	0	
Amhara-W/CzQ-Basalt_&scoria_cones/4430	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzQ-Lake/1001	0		0		0	0	0	
Amhara-W/CzQ-Lake/1002	0		0		0	0	0	
Amhara-W/CzQ-Lake/1003	0		0		0	0	0	
Amhara-W/CzQ-Lake/2200	0		0		0	0	0	
Amhara-W/CzQ-Lake/3222	0		0		0	0	0	
Amhara-W/CzQ-Lake/3230	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/1002	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/1003	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/2200	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/2210	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/2230	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/2300	1830	ET_AM/EG/ESMW/AU/P88	4	Enbise Sar Midir	2020	429961	1198644	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzQ-Sediment_alluvium/2300	1831	ET_AM/EG/ESMW/AU/P89	4	Enbise Sar Midir	2020	430013	1199362	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzQ-Sediment_alluvium/2300	1832	ET_AM/EG/ESMW/AU/P90	4	Enbise Sar Midir	2020	430107	1198961	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzQ-Sediment_alluvium/2310	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/2330	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/3210	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/3221	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/3222	0		0		0	0	0	
Amhara-W/CzQ-Sediment_alluvium/3230	0		0		0	0	0	
Amhara-W/CzQ-Sediment_lacustrine/1001	1225	ET_AM/SG/LKW/AU/P103	4	Libo Kemkem	2020	356814	1331594	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1001	1226	ET_AM/SG/LKW/AU/P104	4	Libo Kemkem	2020	355527	1330262	eutric Gleysols clayic aric humic
Amhara-W/CzQ-Sediment_lacustrine/1001	1227	ET_AM/SG/LKW/AU/P105	4	Libo Kemkem	2020	354781	1330655	eutric Gleysols clayic aric humic
Amhara-W/CzQ-Sediment_lacustrine/1001	1228	ET_AM/SG/LKW/AU/P106	4	Libo Kemkem	2020	354738	1331936	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1001	1229	ET_AM/SG/LKW/AU/P107	4	Libo Kemkem	2020	354714	1330325	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1001	1231	ET_AM/SG/LKW/AU/P109	4	Libo Kemkem	2020	353903	1329700	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1001	1232	ET_AM/SG/LKW/AU/P110	4	Libo Kemkem	2020	352893	1329840	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1001	1235	ET_AM/SG/LKW/AU/P113	4	Libo Kemkem	2020	351108	1330571	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1001	1237	ET_AM/SG/LKW/AU/P115	4	Libo Kemkem	2020	350952	1330293	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1001	1281	ET_AM/SG/LKW/AU/P159	4	Libo Kemkem	2020	360942	1331029	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1001	1307	ET_AM/SG/LKW/AU/P185	4	Libo Kemkem	2020	359328	1326806	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1001	1308	ET_AM/SG/LKW/AU/P186	4	Libo Kemkem	2020	358152	1327175	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1224	ET_AM/SG/LKW/AU/P102	4	Libo Kemkem	2020	356519	1330915	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1230	ET_AM/SG/LKW/AU/P108	4	Libo Kemkem	2020	351890	1330265	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1233	ET_AM/SG/LKW/AU/P111	4	Libo Kemkem	2020	355694	1330282	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1267	ET_AM/SG/LKW/AU/P145	4	Libo Kemkem	2020	368088	1330713	skeletal Regosols arenic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1268	ET_AM/SG/LKW/AU/P146	4	Libo Kemkem	2020	367135	1330756	skeletal Regosols arenic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1269	ET_AM/SG/LKW/AU/P147	4	Libo Kemkem	2020	364978	1330052	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1271	ET_AM/SG/LKW/AU/P149	4	Libo Kemkem	2020	363762	1330153	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1272	ET_AM/SG/LKW/AU/P150	4	Libo Kemkem	2020	362723	1329801	hyperskeletal Leptosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1279	ET_AM/SG/LKW/AU/P157	4	Libo Kemkem	2020	361341	1333534	hyperskeletal Leptosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1280	ET_AM/SG/LKW/AU/P158	4	Libo Kemkem	2020	361203	1330706	hyperskeletal Leptosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1282	ET_AM/SG/LKW/AU/P160	4	Libo Kemkem	2020	360681	1331596	hyperskeletal Leptosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1296	ET_AM/SG/LKW/AU/P174	4	Libo Kemkem	2020	368314	1331136	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1300	ET_AM/SG/LKW/AU/P178	4	Libo Kemkem	2020	362658	1332701	chromic Vertisols aric chernic hypereutric mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzQ-Sediment_lacustrine/1002	1302	ET_AM/SG/LKW/AU/P180	4	Libo Kemkem	2020	359170	1329541	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1303	ET_AM/SG/LKW/AU/P181	4	Libo Kemkem	2020	357977	1329351	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1304	ET_AM/SG/LKW/AU/P182	4	Libo Kemkem	2020	358692	1327840	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1305	ET_AM/SG/LKW/AU/P183	4	Libo Kemkem	2020	359840	1327882	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1306	ET_AM/SG/LKW/AU/P184	4	Libo Kemkem	2020	360272	1329867	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1002	1309	ET_AM/SG/LKW/AU/P187	4	Libo Kemkem	2020	360093	1326482	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1310	ET_AM/SG/LKW/AU/P188	4	Libo Kemkem	2020	360692	1327415	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1311	ET_AM/SG/LKW/AU/P189	4	Libo Kemkem	2020	361171	1328211	leptic Cambisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/1002	1312	ET_AM/SG/LKW/AU/P190	4	Libo Kemkem	2020	361876	1329191	skeletal Regosols arenic aric ochric
Amhara-W/CzQ-Sediment_lacustrine/1002	2007	ET_AM/SG/LKW/SP/P12	1	Libo Kemkem	2020	351484	1329707	stagnic mollic Gleysols abruptic clayic aric vertic
Amhara-W/CzQ-Sediment_lacustrine/1002	2015	ET_AM/SG/LKW/SP/P20	1	Libo Kemkem	2020	362232	1329206	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1003	1124	ET_AM/SG/LKW/AU/P2	4	Libo Kemkem	2020	382502	1334634	eutric calcaric mollic Leptosols arenic aric
Amhara-W/CzQ-Sediment_lacustrine/1003	1136	ET_AM/SG/LKW/AU/P14	4	Libo Kemkem	2020	385578	1336344	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzQ-Sediment_lacustrine/1003	1270	ET_AM/SG/LKW/AU/P148	4	Libo Kemkem	2020	366132	1330495	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1003	1298	ET_AM/SG/LKW/AU/P176	4	Libo Kemkem	2020	366554	1332845	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1003	2014	ET_AM/SG/LKW/SP/P19	1	Libo Kemkem	2020	366899	1330239	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/1004	0		0		0	0	0	
Amhara-W/CzQ-Sediment_lacustrine/2200	1125	ET_AM/SG/LKW/AU/P3	4	Libo Kemkem	2020	383419	1334981	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzQ-Sediment_lacustrine/2200	1128	ET_AM/SG/LKW/AU/P6	4	Libo Kemkem	2020	385799	1335654	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1129	ET_AM/SG/LKW/AU/P7	4	Libo Kemkem	2020	381986	1338155	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1130	ET_AM/SG/LKW/AU/P8	4	Libo Kemkem	2020	382571	1338326	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1135	ET_AM/SG/LKW/AU/P13	4	Libo Kemkem	2020	385319	1336455	colluvic skeletal Regosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	1154	ET_AM/SG/LKW/AU/P32	4	Libo Kemkem	2020	381597	1337814	colluvic skeletal Regosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	1161	ET_AM/SG/LKW/AU/P39	4	Libo Kemkem	2020	382386	1338810	vertic Cambisols clayic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	1162	ET_AM/SG/LKW/AU/P40	4	Libo Kemkem	2020	382432	1338649	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1262	ET_AM/SG/LKW/AU/P140	4	Libo Kemkem	2020	357311	1336396	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1263	ET_AM/SG/LKW/AU/P141	4	Libo Kemkem	2020	356575	1336309	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1297	ET_AM/SG/LKW/AU/P175	4	Libo Kemkem	2020	367636	1332182	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzQ-Sediment_lacustrine/2200	1301	ET_AM/SG/LKW/AU/P179	4	Libo Kemkem	2020	364298	1332658	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1313	ET_AM/SG/LKW/AU/P191	4	Libo Kemkem	2020	364073	1336824	haplic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	1315	ET_AM/SG/LKW/AU/P193	4	Libo Kemkem	2020	362679	1335915	skeletal Regosols arenic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	1316	ET_AM/SG/LKW/AU/P194	4	Libo Kemkem	2020	362727	1336592	skeletal Regosols arenic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	1317	ET_AM/SG/LKW/AU/P195	4	Libo Kemkem	2020	363031	1336997	skeletal Regosols arenic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	1318	ET_AM/SG/LKW/AU/P196	4	Libo Kemkem	2020	363280	1336937	hyperskeletal Leptosols arenic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	1999	ET_AM/SG/LKW/SP/P4	1	Libo Kemkem	2020	383458	1335012	skeletal Fluvisols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/2200	2000	ET_AM/SG/LKW/SP/P5	1	Libo Kemkem	2020	383684	1335266	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2200	2016	ET_AM/SG/LKW/SP/P21	1	Libo Kemkem	2020	364459	1334681	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2210	1123	ET_AM/SG/LKW/AU/P1	4	Libo Kemkem	2020	382278	1335503	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2210	1299	ET_AM/SG/LKW/AU/P177	4	Libo Kemkem	2020	365263	1332573	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2210	1996	ET_AM/SG/LKW/SP/P1	1	Libo Kemkem	2020	383050	1336737	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2230	1284	ET_AM/SG/LKW/AU/P162	4	Libo Kemkem	2020	361023	1333002	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzQ-Sediment_lacustrine/2230	1314	ET_AM/SG/LKW/AU/P192	4	Libo Kemkem	2020	362685	1335114	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzQ-Sediment_lacustrine/3210	0		0		0	0	0	
Amhara-W/CzQ-Sediment_lacustrine/3221	1126	ET_AM/SG/LKW/AU/P4	4	Libo Kemkem	2020	384152	1334982	rhodic Luvisols clayic aric cutanic nitic
Amhara-W/CzQ-Sediment_lacustrine/3221	1127	ET_AM/SG/LKW/AU/P5	4	Libo Kemkem	2020	384872	1335303	chromic Vertisols aric chernic hypereutric mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzQ-Sediment_lacustrine/3222	1142	ET_AM/SG/LKW/AU/P20	4	Libo Kemkem	2020	385089	1336759	colluvic skeletal Regosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/3222	1997	ET_AM/SG/LKW/SP/P2	1	Libo Kemkem	2020	385195	1336846	cambic skeletal Leptosols loamic aric
Amhara-W/CzQ-Sediment_lacustrine/3222	2001	ET_AM/SG/LKW/SP/P6	1	Libo Kemkem	2020	384010	1336588	vertic Cambisols clayic aric ochric
Amhara-W/CzQ-Sediment_lacustrine/3223	0		0		0	0	0	
Amhara-W/CzQ-Sediment_lacustrine/3230	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/1001	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/1002	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/1003	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/1004	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2100	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2110	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2130	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2200	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2210	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2230	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2300	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2310	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/2330	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3110	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3121	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3122	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3123	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3130	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3210	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3221	2065	ET_AM/EG/ESMW/SP/P3	1	Enbise Sar Midir	2020	442517	1181136	vertic Luvisols clayic aric hypereutric humic
Amhara-W/CzT-Basalt_lower_flood/3222	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3223	2034	ET_AM/SG/LGW/SP/P16	1	Lay Gayint	2020	429031	1314776	calcaric cambic mollic Leptosols siltic aric
Amhara-W/CzT-Basalt_lower_flood/3230	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3310	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3321	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3322	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3323	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/3330	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/4200	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/4210	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/4230	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/4300	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/4310	0		0		0	0	0	
Amhara-W/CzT-Basalt_lower_flood/4330	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/1002	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/1003	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/2200	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/2210	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/2230	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/2300	1790	ET_AM/EG/ESMW/AU/P48	4	Enbise Sar Midir	2020	431906	1196030	pellic Vertisols aric chernic gilgaic mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_middle_flood/2310	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/2330	1778	ET_AM/EG/ESMW/AU/P36	4	Enbise Sar Midir	2020	435310	1194667	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_middle_flood/3210	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/3221	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/3222	1889	ET_AM/EG/ESMW/AU/P147	4	Enbise Sar Midir	2020	419855	1195833	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_middle_flood/3223	2077	ET_AM/EG/ESMW/SP/P15	1	Enbise Sar Midir	2020	436542	1199624	nudilithic Leptosols
Amhara-W/CzT-Basalt_middle_flood/3230	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/3310	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/3321	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/3322	1785	ET_AM/EG/ESMW/AU/P43	4	Enbise Sar Midir	2020	441077	1186179	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_middle_flood/3322	2066	ET_AM/EG/ESMW/SP/P4	1	Enbise Sar Midir	2020	440753	1186452	skeletal Leptosols arenic ochric
Amhara-W/CzT-Basalt_middle_flood/3323	1756	ET_AM/EG/ESMW/AU/P14	4	Enbise Sar Midir	2020	440713	1187634	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_middle_flood/3323	1760	ET_AM/EG/ESMW/AU/P18	4	Enbise Sar Midir	2020	440328	1186709	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_middle_flood/3323	1786	ET_AM/EG/ESMW/AU/P44	4	Enbise Sar Midir	2020	441377	1186404	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_middle_flood/3323	1938	ET_AM/EG/ESMW/AU/P196	4	Enbise Sar Midir	2020	435907	1190589	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_middle_flood/3323	2067	ET_AM/EG/ESMW/SP/P5	1	Enbise Sar Midir	2020	441434	1186073	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_middle_flood/3330	1762	ET_AM/EG/ESMW/AU/P20	4	Enbise Sar Midir	2020	439869	1184716	skeletal Leptosols
Amhara-W/CzT-Basalt_middle_flood/4200	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/4210	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/4230	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/4300	1761	ET_AM/EG/ESMW/AU/P19	4	Enbise Sar Midir	2020	440662	1185780	vertic Luvisols clayic aric cutanic humic
Amhara-W/CzT-Basalt_middle_flood/4300	1779	ET_AM/EG/ESMW/AU/P37	4	Enbise Sar Midir	2020	436500	1194190	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_middle_flood/4300	1798	ET_AM/EG/ESMW/AU/P56	4	Enbise Sar Midir	2020	429473	1196675	skeletal Leptosols
Amhara-W/CzT-Basalt_middle_flood/4300	2080	ET_AM/EG/ESMW/SP/P18	1	Enbise Sar Midir	2020	424052	1193764	chromic Vertisols aric chernic gilgaic grumic
Amhara-W/CzT-Basalt_middle_flood/4310	0		0		0	0	0	
Amhara-W/CzT-Basalt_middle_flood/4330	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/1002	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/1003	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/2300	1246	ET_AM/SG/LKW/AU/P124	4	Libo Kemkem	2020	377764	1348886	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/2300	1247	ET_AM/SG/LKW/AU/P125	4	Libo Kemkem	2020	377528	1348314	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/2300	1250	ET_AM/SG/LKW/AU/P128	4	Libo Kemkem	2020	376469	1348312	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/2300	1254	ET_AM/SG/LKW/AU/P132	4	Libo Kemkem	2020	376963	1349373	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1285	ET_AM/SG/LKW/AU/P163	4	Libo Kemkem	2020	369798	1351680	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/2300	1288	ET_AM/SG/LKW/AU/P166	4	Libo Kemkem	2020	370476	1350840	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/2300	1755	ET_AM/EG/ESMW/AU/P13	4	Enbise Sar Midir	2020	439873	1190240	skeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/2300	1767	ET_AM/EG/ESMW/AU/P25	4	Enbise Sar Midir	2020	439232	1190264	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1770	ET_AM/EG/ESMW/AU/P28	4	Enbise Sar Midir	2020	437536	1191130	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1771	ET_AM/EG/ESMW/AU/P29	4	Enbise Sar Midir	2020	436243	1192806	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1773	ET_AM/EG/ESMW/AU/P31	4	Enbise Sar Midir	2020	436652	1192084	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1774	ET_AM/EG/ESMW/AU/P32	4	Enbise Sar Midir	2020	439623	1188364	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1780	ET_AM/EG/ESMW/AU/P38	4	Enbise Sar Midir	2020	437511	1193492	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1781	ET_AM/EG/ESMW/AU/P39	4	Enbise Sar Midir	2020	438267	1193050	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1783	ET_AM/EG/ESMW/AU/P41	4	Enbise Sar Midir	2020	438854	1192300	leptic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1784	ET_AM/EG/ESMW/AU/P42	4	Enbise Sar Midir	2020	439034	1191871	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/2300	1793	ET_AM/EG/ESMW/AU/P51	4	Enbise Sar Midir	2020	430678	1196904	pellic Vertisols aric chernic gilgaic mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood/2300	1794	ET_AM/EG/ESMW/AU/P52	4	Enbise Sar Midir	2020	428996	1198574	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1795	ET_AM/EG/ESMW/AU/P53	4	Enbise Sar Midir	2020	429271	1198288	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1796	ET_AM/EG/ESMW/AU/P54	4	Enbise Sar Midir	2020	429727	1197730	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1801	ET_AM/EG/ESMW/AU/P59	4	Enbise Sar Midir	2020	426975	1198908	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1802	ET_AM/EG/ESMW/AU/P60	4	Enbise Sar Midir	2020	425747	1198026	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1803	ET_AM/EG/ESMW/AU/P61	4	Enbise Sar Midir	2020	428357	1198627	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1804	ET_AM/EG/ESMW/AU/P62	4	Enbise Sar Midir	2020	427623	1198599	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1805	ET_AM/EG/ESMW/AU/P63	4	Enbise Sar Midir	2020	425856	1199055	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1806	ET_AM/EG/ESMW/AU/P64	4	Enbise Sar Midir	2020	425374	1198578	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1807	ET_AM/EG/ESMW/AU/P65	4	Enbise Sar Midir	2020	425326	1197264	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1808	ET_AM/EG/ESMW/AU/P66	4	Enbise Sar Midir	2020	424879	1197811	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1809	ET_AM/EG/ESMW/AU/P67	4	Enbise Sar Midir	2020	424673	1198394	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1810	ET_AM/EG/ESMW/AU/P68	4	Enbise Sar Midir	2020	432419	1198593	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1811	ET_AM/EG/ESMW/AU/P69	4	Enbise Sar Midir	2020	430095	1198132	abruptic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood/2300	1812	ET_AM/EG/ESMW/AU/P70	4	Enbise Sar Midir	2020	432928	1197258	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1814	ET_AM/EG/ESMW/AU/P72	4	Enbise Sar Midir	2020	432419	1198271	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1815	ET_AM/EG/ESMW/AU/P73	4	Enbise Sar Midir	2020	433860	1196330	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1816	ET_AM/EG/ESMW/AU/P74	4	Enbise Sar Midir	2020	433885	1195701	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1817	ET_AM/EG/ESMW/AU/P75	4	Enbise Sar Midir	2020	434128	1195100	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1818	ET_AM/EG/ESMW/AU/P76	4	Enbise Sar Midir	2020	432611	1197639	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1819	ET_AM/EG/ESMW/AU/P77	4	Enbise Sar Midir	2020	431808	1198024	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1820	ET_AM/EG/ESMW/AU/P78	4	Enbise Sar Midir	2020	431056	1198135	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1821	ET_AM/EG/ESMW/AU/P79	4	Enbise Sar Midir	2020	426565	1200398	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1824	ET_AM/EG/ESMW/AU/P82	4	Enbise Sar Midir	2020	427511	1201587	skeletal Leptosols ochric
Amhara-W/CzT-Basalt_upper_flood/2300	1827	ET_AM/EG/ESMW/AU/P85	4	Enbise Sar Midir	2020	429284	1201705	vertic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood/2300	1828	ET_AM/EG/ESMW/AU/P86	4	Enbise Sar Midir	2020	429766	1199736	lithic Leptosols humic ochric
Amhara-W/CzT-Basalt_upper_flood/2300	1829	ET_AM/EG/ESMW/AU/P87	4	Enbise Sar Midir	2020	429386	1200497	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1839	ET_AM/EG/ESMW/AU/P97	4	Enbise Sar Midir	2020	433268	1199986	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1840	ET_AM/EG/ESMW/AU/P98	4	Enbise Sar Midir	2020	423117	1199361	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1841	ET_AM/EG/ESMW/AU/P99	4	Enbise Sar Midir	2020	423054	1198794	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1843	ET_AM/EG/ESMW/AU/P101	4	Enbise Sar Midir	2020	422705	1197602	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1844	ET_AM/EG/ESMW/AU/P102	4	Enbise Sar Midir	2020	423095	1196838	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1845	ET_AM/EG/ESMW/AU/P103	4	Enbise Sar Midir	2020	423942	1198277	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1846	ET_AM/EG/ESMW/AU/P104	4	Enbise Sar Midir	2020	424040	1197483	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1847	ET_AM/EG/ESMW/AU/P105	4	Enbise Sar Midir	2020	424184	1196670	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1848	ET_AM/EG/ESMW/AU/P106	4	Enbise Sar Midir	2020	423795	1196083	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/2300	1857	ET_AM/EG/ESMW/AU/P115	4	Enbise Sar Midir	2020	425622	1201203	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1862	ET_AM/EG/ESMW/AU/P120	4	Enbise Sar Midir	2020	433786	1201677	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1864	ET_AM/EG/ESMW/AU/P122	4	Enbise Sar Midir	2020	434256	1202586	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1865	ET_AM/EG/ESMW/AU/P123	4	Enbise Sar Midir	2020	434519	1201766	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1868	ET_AM/EG/ESMW/AU/P126	4	Enbise Sar Midir	2020	430910	1202726	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1870	ET_AM/EG/ESMW/AU/P128	4	Enbise Sar Midir	2020	429760	1203001	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1871	ET_AM/EG/ESMW/AU/P129	4	Enbise Sar Midir	2020	432036	1202480	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1872	ET_AM/EG/ESMW/AU/P130	4	Enbise Sar Midir	2020	432641	1202783	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1874	ET_AM/EG/ESMW/AU/P132	4	Enbise Sar Midir	2020	432985	1201955	pellic Vertisols aric chernic gilgaic mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood/2300	1875	ET_AM/EG/ESMW/AU/P133	4	Enbise Sar Midir	2020	430245	1202243	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1877	ET_AM/EG/ESMW/AU/P135	4	Enbise Sar Midir	2020	431624	1201178	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1879	ET_AM/EG/ESMW/AU/P137	4	Enbise Sar Midir	2020	433685	1200311	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1880	ET_AM/EG/ESMW/AU/P138	4	Enbise Sar Midir	2020	434992	1200035	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1881	ET_AM/EG/ESMW/AU/P139	4	Enbise Sar Midir	2020	434432	1200055	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1883	ET_AM/EG/ESMW/AU/P141	4	Enbise Sar Midir	2020	432717	1200399	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1885	ET_AM/EG/ESMW/AU/P143	4	Enbise Sar Midir	2020	421462	1198980	vertic Luvisols cutanic
Amhara-W/CzT-Basalt_upper_flood/2300	1891	ET_AM/EG/ESMW/AU/P149	4	Enbise Sar Midir	2020	421811	1197923	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/2300	1892	ET_AM/EG/ESMW/AU/P150	4	Enbise Sar Midir	2020	421893	1198575	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/2300	1915	ET_AM/EG/ESMW/AU/P173	4	Enbise Sar Midir	2020	426809	1203260	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	1935	ET_AM/EG/ESMW/AU/P193	4	Enbise Sar Midir	2020	435447	1190734	nudilithic Leptosols
Amhara-W/CzT-Basalt_upper_flood/2300	2069	ET_AM/EG/ESMW/SP/P7	1	Enbise Sar Midir	2020	437011	1192909	chromic Vertisols aric chernic gilgaic grumic
Amhara-W/CzT-Basalt_upper_flood/2300	2071	ET_AM/EG/ESMW/SP/P9	1	Enbise Sar Midir	2020	432641	1198378	chromic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	2079	ET_AM/EG/ESMW/SP/P17	1	Enbise Sar Midir	2020	433605	1200927	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2300	2081	ET_AM/EG/ESMW/SP/P19	1	Enbise Sar Midir	2020	422616	1198502	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2310	1813	ET_AM/EG/ESMW/AU/P71	4	Enbise Sar Midir	2020	433522	1196804	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2310	1833	ET_AM/EG/ESMW/AU/P91	4	Enbise Sar Midir	2020	429817	1198302	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2310	1859	ET_AM/EG/ESMW/AU/P117	4	Enbise Sar Midir	2020	425984	1200139	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2310	1876	ET_AM/EG/ESMW/AU/P134	4	Enbise Sar Midir	2020	430306	1202727	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2310	1882	ET_AM/EG/ESMW/AU/P140	4	Enbise Sar Midir	2020	435406	1200346	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2310	1890	ET_AM/EG/ESMW/AU/P148	4	Enbise Sar Midir	2020	421327	1198022	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2310	2004	ET_AM/SG/LKW/SP/P9	1	Libo Kemkem	2020	363138	1355262	lamellic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/2330	1243	ET_AM/SG/LKW/AU/P121	4	Libo Kemkem	2020	378507	1349204	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/2330	1758	ET_AM/EG/ESMW/AU/P16	4	Enbise Sar Midir	2020	440312	1187773	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1763	ET_AM/EG/ESMW/AU/P21	4	Enbise Sar Midir	2020	440162	1186159	vertic Luvisols clayic aric cutanic humic
Amhara-W/CzT-Basalt_upper_flood/2330	1769	ET_AM/EG/ESMW/AU/P27	4	Enbise Sar Midir	2020	438156	1191444	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1775	ET_AM/EG/ESMW/AU/P33	4	Enbise Sar Midir	2020	439152	1188355	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/2330	1776	ET_AM/EG/ESMW/AU/P34	4	Enbise Sar Midir	2020	439308	1188913	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1791	ET_AM/EG/ESMW/AU/P49	4	Enbise Sar Midir	2020	431242	1195565	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1792	ET_AM/EG/ESMW/AU/P50	4	Enbise Sar Midir	2020	430582	1195521	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1799	ET_AM/EG/ESMW/AU/P57	4	Enbise Sar Midir	2020	430285	1197228	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1800	ET_AM/EG/ESMW/AU/P58	4	Enbise Sar Midir	2020	429849	1196856	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1849	ET_AM/EG/ESMW/AU/P107	4	Enbise Sar Midir	2020	423917	1195436	abruptic Luvisols loamic aric
Amhara-W/CzT-Basalt_upper_flood/2330	1863	ET_AM/EG/ESMW/AU/P121	4	Enbise Sar Midir	2020	433860	1202130	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1866	ET_AM/EG/ESMW/AU/P124	4	Enbise Sar Midir	2020	435511	1201320	leptic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood/2330	1867	ET_AM/EG/ESMW/AU/P125	4	Enbise Sar Midir	2020	436423	1200828	chromic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	1936	ET_AM/EG/ESMW/AU/P194	4	Enbise Sar Midir	2020	435271	1191271	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/2330	2068	ET_AM/EG/ESMW/SP/P6	1	Enbise Sar Midir	2020	436542	1192919	chromic Vertisols aric chernic gilgaic grumic
Amhara-W/CzT-Basalt_upper_flood/2410	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/3210	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/3223	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/3310	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/3321	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/3322	1212	ET_AM/SG/LKW/AU/P90	4	Libo Kemkem	2020	363129	1354829	abruptic Luvisols loamic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3322	1216	ET_AM/SG/LKW/AU/P94	4	Libo Kemkem	2020	362987	1354711	abruptic Luvisols loamic aric cutanic hypereutric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood/3322	1248	ET_AM/SG/LKW/AU/P126	4	Libo Kemkem	2020	378088	1347530	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3322	1253	ET_AM/SG/LKW/AU/P131	4	Libo Kemkem	2020	375750	1348502	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3322	1361	ET_AM/SG/LGW/AU/P32	4	Lay Gayint	2020	447615	1300465	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3322	1362	ET_AM/SG/LGW/AU/P33	4	Lay Gayint	2020	447870	1300688	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3322	1409	ET_AM/SG/LGW/AU/P80	4	Lay Gayint	2020	431009	1293480	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3322	1410	ET_AM/SG/LGW/AU/P81	4	Lay Gayint	2020	430999	1293483	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3322	1411	ET_AM/SG/LGW/AU/P82	4	Lay Gayint	2020	430989	1293484	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3322	1412	ET_AM/SG/LGW/AU/P83	4	Lay Gayint	2020	430980	1293482	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3322	1842	ET_AM/EG/ESMW/AU/P100	4	Enbise Sar Midir	2020	421677	1197656	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood/3322	2019	ET_AM/SG/LGW/SP/P1	1	Lay Gayint	2020	447341	1298985	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood/3322	2020	ET_AM/SG/LGW/SP/P2	1	Lay Gayint	2020	447353	1298985	skeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/3322	2022	ET_AM/SG/LGW/SP/P4	1	Lay Gayint	2020	448242	1301582	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3322	2024	ET_AM/SG/LGW/SP/P6	1	Lay Gayint	2020	446844	1300009	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/3323	1242	ET_AM/SG/LKW/AU/P120	4	Libo Kemkem	2020	378978	1349069	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3323	1244	ET_AM/SG/LKW/AU/P122	4	Libo Kemkem	2020	375641	1348309	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/3323	1352	ET_AM/SG/LGW/AU/P23	4	Lay Gayint	2020	441916	1298981	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3323	1353	ET_AM/SG/LGW/AU/P24	4	Lay Gayint	2020	441907	1298988	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3323	1368	ET_AM/SG/LGW/AU/P39	4	Lay Gayint	2020	446297	1299349	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/3323	1522	ET_AM/SG/LGW/AU/P193	4	Lay Gayint	2020	431810	1313577	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood/3323	2009	ET_AM/SG/LKW/SP/P14	1	Libo Kemkem	2020	377886	1350237	lithic Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3323	2011	ET_AM/SG/LKW/SP/P16	1	Libo Kemkem	2020	367744	1353405	vertic Cambisols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3323	2075	ET_AM/EG/ESMW/SP/P13	1	Enbise Sar Midir	2020	435804	1187068	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3323	2078	ET_AM/EG/ESMW/SP/P16	1	Enbise Sar Midir	2020	436270	1200214	hyperskeletal Leptosols arenic ochric
Amhara-W/CzT-Basalt_upper_flood/3330	2076	ET_AM/EG/ESMW/SP/P14	1	Enbise Sar Midir	2020	438867	1190061	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/3410	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/3421	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood/3422	1375	ET_AM/SG/LGW/AU/P46	4	Lay Gayint	2020	440077	1291623	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3422	1391	ET_AM/SG/LGW/AU/P62	4	Lay Gayint	2020	438207	1293871	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/3422	1406	ET_AM/SG/LGW/AU/P77	4	Lay Gayint	2020	432801	1293484	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3422	1444	ET_AM/SG/LGW/AU/P115	4	Lay Gayint	2020	433640	1297338	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/3422	1450	ET_AM/SG/LGW/AU/P121	4	Lay Gayint	2020	428531	1299606	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/3422	1494	ET_AM/SG/LGW/AU/P165	4	Lay Gayint	2020	431445	1302749	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3423	1367	ET_AM/SG/LGW/AU/P38	4	Lay Gayint	2020	447263	1299889	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/3423	1373	ET_AM/SG/LGW/AU/P44	4	Lay Gayint	2020	440065	1291604	chromic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3423	1374	ET_AM/SG/LGW/AU/P45	4	Lay Gayint	2020	440066	1291613	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3423	1402	ET_AM/SG/LGW/AU/P73	4	Lay Gayint	2020	432810	1295315	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/3423	1403	ET_AM/SG/LGW/AU/P74	4	Lay Gayint	2020	432802	1295307	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/3423	1521	ET_AM/SG/LGW/AU/P192	4	Lay Gayint	2020	432057	1313499	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood/3430	1446	ET_AM/SG/LGW/AU/P117	4	Lay Gayint	2020	428720	1299561	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1209	ET_AM/SG/LKW/AU/P87	4	Libo Kemkem	2020	363741	1353675	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1213	ET_AM/SG/LKW/AU/P91	4	Libo Kemkem	2020	363901	1354179	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1214	ET_AM/SG/LKW/AU/P92	4	Libo Kemkem	2020	363270	1354884	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1240	ET_AM/SG/LKW/AU/P118	4	Libo Kemkem	2020	379558	1348193	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1241	ET_AM/SG/LKW/AU/P119	4	Libo Kemkem	2020	377920	1349768	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1245	ET_AM/SG/LKW/AU/P123	4	Libo Kemkem	2020	377502	1349988	skeletal Regosols arenic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood/4300	1249	ET_AM/SG/LKW/AU/P127	4	Libo Kemkem	2020	377153	1347589	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1251	ET_AM/SG/LKW/AU/P129	4	Libo Kemkem	2020	376158	1348976	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1252	ET_AM/SG/LKW/AU/P130	4	Libo Kemkem	2020	376158	1348977	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1255	ET_AM/SG/LKW/AU/P133	4	Libo Kemkem	2020	367821	1351214	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1257	ET_AM/SG/LKW/AU/P135	4	Libo Kemkem	2020	368901	1350690	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1258	ET_AM/SG/LKW/AU/P136	4	Libo Kemkem	2020	368968	1351362	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1259	ET_AM/SG/LKW/AU/P137	4	Libo Kemkem	2020	369516	1351036	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1260	ET_AM/SG/LKW/AU/P138	4	Libo Kemkem	2020	367812	1350516	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1286	ET_AM/SG/LKW/AU/P164	4	Libo Kemkem	2020	368823	1350672	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1287	ET_AM/SG/LKW/AU/P165	4	Libo Kemkem	2020	370197	1351339	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1289	ET_AM/SG/LKW/AU/P167	4	Libo Kemkem	2020	369611	1350836	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1346	ET_AM/SG/LGW/AU/P17	4	Lay Gayint	2020	448396	1301491	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1372	ET_AM/SG/LGW/AU/P43	4	Lay Gayint	2020	448050	1300923	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1514	ET_AM/SG/LGW/AU/P185	4	Lay Gayint	2020	430092	1306685	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	1754	ET_AM/EG/ESMW/AU/P12	4	Enbise Sar Midir	2020	440495	1191101	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1759	ET_AM/EG/ESMW/AU/P17	4	Enbise Sar Midir	2020	440484	1187251	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1765	ET_AM/EG/ESMW/AU/P23	4	Enbise Sar Midir	2020	440313	1187487	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1768	ET_AM/EG/ESMW/AU/P26	4	Enbise Sar Midir	2020	438950	1191120	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1772	ET_AM/EG/ESMW/AU/P30	4	Enbise Sar Midir	2020	435684	1191915	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1777	ET_AM/EG/ESMW/AU/P35	4	Enbise Sar Midir	2020	434837	1194556	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1782	ET_AM/EG/ESMW/AU/P40	4	Enbise Sar Midir	2020	438448	1192648	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/4300	1787	ET_AM/EG/ESMW/AU/P45	4	Enbise Sar Midir	2020	434335	1194439	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1788	ET_AM/EG/ESMW/AU/P46	4	Enbise Sar Midir	2020	432895	1195848	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1789	ET_AM/EG/ESMW/AU/P47	4	Enbise Sar Midir	2020	433773	1194915	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1797	ET_AM/EG/ESMW/AU/P55	4	Enbise Sar Midir	2020	429531	1197196	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1822	ET_AM/EG/ESMW/AU/P80	4	Enbise Sar Midir	2020	426572	1200975	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1823	ET_AM/EG/ESMW/AU/P81	4	Enbise Sar Midir	2020	426852	1201429	hyperskeletal Leptosols ochric
Amhara-W/CzT-Basalt_upper_flood/4300	1825	ET_AM/EG/ESMW/AU/P83	4	Enbise Sar Midir	2020	428141	1201615	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1826	ET_AM/EG/ESMW/AU/P84	4	Enbise Sar Midir	2020	428770	1201761	abruptic Luvisols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1850	ET_AM/EG/ESMW/AU/P108	4	Enbise Sar Midir	2020	423509	1195523	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1851	ET_AM/EG/ESMW/AU/P109	4	Enbise Sar Midir	2020	423301	1196211	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/4300	1858	ET_AM/EG/ESMW/AU/P116	4	Enbise Sar Midir	2020	425600	1200694	nudilithic Leptosols
Amhara-W/CzT-Basalt_upper_flood/4300	1869	ET_AM/EG/ESMW/AU/P127	4	Enbise Sar Midir	2020	429688	1202456	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/4300	1873	ET_AM/EG/ESMW/AU/P131	4	Enbise Sar Midir	2020	433225	1202579	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1878	ET_AM/EG/ESMW/AU/P136	4	Enbise Sar Midir	2020	436210	1200407	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/4300	1884	ET_AM/EG/ESMW/AU/P142	4	Enbise Sar Midir	2020	436635	1200423	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1886	ET_AM/EG/ESMW/AU/P144	4	Enbise Sar Midir	2020	420985	1198883	vertic Luvisols cutanic
Amhara-W/CzT-Basalt_upper_flood/4300	1887	ET_AM/EG/ESMW/AU/P145	4	Enbise Sar Midir	2020	420718	1198491	chromic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	1910	ET_AM/EG/ESMW/AU/P168	4	Enbise Sar Midir	2020	419623	1199911	vertic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood/4300	1933	ET_AM/EG/ESMW/AU/P191	4	Enbise Sar Midir	2020	435476	1189757	vertic Luvisols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1934	ET_AM/EG/ESMW/AU/P192	4	Enbise Sar Midir	2020	435466	1190308	vertic Luvisols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4300	1937	ET_AM/EG/ESMW/AU/P195	4	Enbise Sar Midir	2020	435753	1191095	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	2010	ET_AM/SG/LKW/SP/P15	1	Libo Kemkem	2020	377199	1349612	nudiargic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	2012	ET_AM/SG/LKW/SP/P17	1	Libo Kemkem	2020	368720	1351533	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4300	2070	ET_AM/EG/ESMW/SP/P8	1	Enbise Sar Midir	2020	439903	1190263	dystric skeletal Leptosols arenic aric ochric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood/4300	2072	ET_AM/EG/ESMW/SP/P10	1	Enbise Sar Midir	2020	428388	1202169	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4300	2073	ET_AM/EG/ESMW/SP/P11	1	Enbise Sar Midir	2020	425962	1201246	chromic Vertisols aric chernic gilgaic grumic
Amhara-W/CzT-Basalt_upper_flood/4300	2084	ET_AM/EG/ESMW/SP/P22	1	Enbise Sar Midir	2020	435476	1189757	rhodic Luvisols clayic aric nitic
Amhara-W/CzT-Basalt_upper_flood/4310	1523	ET_AM/SGLGW/AU/P194	4	Lay Gayint	2020	432111	1313866	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood/4330	1210	ET_AM/SG/LKW/AU/P88	4	Libo Kemkem	2020	363996	1354409	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4330	1211	ET_AM/SG/LKW/AU/P89	4	Libo Kemkem	2020	364044	1354561	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4330	1215	ET_AM/SG/LKW/AU/P93	4	Libo Kemkem	2020	362789	1354532	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/4330	1256	ET_AM/SG/LKW/AU/P134	4	Libo Kemkem	2020	368485	1351658	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood/4330	1345	ET_AM/SGLGW/AU/P16	4	Lay Gayint	2020	448542	1301615	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4330	1757	ET_AM/EG/ESMW/AU/P15	4	Enbise Sar Midir	2020	439723	1189707	pellic Vertisols aric chernic gilgaic mazic
Amhara-W/CzT-Basalt_upper_flood/4330	1764	ET_AM/EG/ESMW/AU/P22	4	Enbise Sar Midir	2020	440163	1186759	vertic Luvisols clayic aric cutanic humic
Amhara-W/CzT-Basalt_upper_flood/4330	1766	ET_AM/EG/ESMW/AU/P24	4	Enbise Sar Midir	2020	439403	1189663	leptic Regosols loamic aric fluvic
Amhara-W/CzT-Basalt_upper_flood/4330	1888	ET_AM/EG/ESMW/AU/P146	4	Enbise Sar Midir	2020	420591	1198049	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood/4400	1347	ET_AM/SGLGW/AU/P18	4	Lay Gayint	2020	443733	1298973	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1348	ET_AM/SGLGW/AU/P19	4	Lay Gayint	2020	443726	1298979	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1376	ET_AM/SGLGW/AU/P47	4	Lay Gayint	2020	440074	1293441	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1377	ET_AM/SGLGW/AU/P48	4	Lay Gayint	2020	440063	1293443	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1378	ET_AM/SGLGW/AU/P49	4	Lay Gayint	2020	438270	1293459	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1379	ET_AM/SGLGW/AU/P50	4	Lay Gayint	2020	438270	1293468	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1381	ET_AM/SGLGW/AU/P52	4	Lay Gayint	2020	438272	1295297	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1386	ET_AM/SGLGW/AU/P57	4	Lay Gayint	2020	440076	1295296	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1387	ET_AM/SGLGW/AU/P58	4	Lay Gayint	2020	438109	1293584	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1390	ET_AM/SGLGW/AU/P61	4	Lay Gayint	2020	437788	1294500	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1393	ET_AM/SGLGW/AU/P64	4	Lay Gayint	2020	437635	1295388	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1399	ET_AM/SGLGW/AU/P70	4	Lay Gayint	2020	432828	1297168	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1400	ET_AM/SGLGW/AU/P71	4	Lay Gayint	2020	432823	1297156	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1404	ET_AM/SGLGW/AU/P75	4	Lay Gayint	2020	431011	1295309	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1405	ET_AM/SGLGW/AU/P76	4	Lay Gayint	2020	431004	1295314	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1407	ET_AM/SGLGW/AU/P78	4	Lay Gayint	2020	430984	1295310	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1408	ET_AM/SGLGW/AU/P79	4	Lay Gayint	2020	430984	1295303	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1415	ET_AM/SGLGW/AU/P86	4	Lay Gayint	2020	432837	1299005	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1416	ET_AM/SGLGW/AU/P87	4	Lay Gayint	2020	432838	1299014	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1417	ET_AM/SGLGW/AU/P88	4	Lay Gayint	2020	432816	1300834	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1418	ET_AM/SGLGW/AU/P89	4	Lay Gayint	2020	434641	1300830	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1419	ET_AM/SGLGW/AU/P90	4	Lay Gayint	2020	434648	1300834	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1420	ET_AM/SGLGW/AU/P91	4	Lay Gayint	2020	434655	1300834	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1421	ET_AM/SGLGW/AU/P92	4	Lay Gayint	2020	434647	1300825	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1425	ET_AM/SGLGW/AU/P96	4	Lay Gayint	2020	436470	1298981	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1426	ET_AM/SGLGW/AU/P97	4	Lay Gayint	2020	436448	1298984	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1433	ET_AM/SGLGW/AU/P104	4	Lay Gayint	2020	435693	1297298	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1435	ET_AM/SGLGW/AU/P106	4	Lay Gayint	2020	430838	1296503	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1437	ET_AM/SGLGW/AU/P108	4	Lay Gayint	2020	430448	1296245	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1438	ET_AM/SGLGW/AU/P109	4	Lay Gayint	2020	431119	1296627	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1440	ET_AM/SGLGW/AU/P111	4	Lay Gayint	2020	436234	1297145	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1442	ET_AM/SGLGW/AU/P113	4	Lay Gayint	2020	433100	1297151	chromic Cambisols clayic aric

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Amhara-W/CzT-Basalt_upper_flood/4400	1447	ET_AM/SGLGW/AU/P118	4	Lay Gayint	2020	429160	1299868	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1448	ET_AM/SGLGW/AU/P119	4	Lay Gayint	2020	429770	1299053	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1449	ET_AM/SGLGW/AU/P120	4	Lay Gayint	2020	429945	1298633	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1451	ET_AM/SGLGW/AU/P122	4	Lay Gayint	2020	429434	1299352	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1459	ET_AM/SGLGW/AU/P130	4	Lay Gayint	2020	425546	1295334	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1460	ET_AM/SGLGW/AU/P131	4	Lay Gayint	2020	425548	1295339	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1467	ET_AM/SGLGW/AU/P138	4	Lay Gayint	2020	431014	1298992	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1468	ET_AM/SGLGW/AU/P139	4	Lay Gayint	2020	431018	1299013	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1469	ET_AM/SGLGW/AU/P140	4	Lay Gayint	2020	431017	1299014	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1472	ET_AM/SGLGW/AU/P143	4	Lay Gayint	2020	432820	1300831	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1473	ET_AM/SGLGW/AU/P144	4	Lay Gayint	2020	432830	1300834	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1474	ET_AM/SGLGW/AU/P145	4	Lay Gayint	2020	432830	1299009	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1493	ET_AM/SGLGW/AU/P164	4	Lay Gayint	2020	431249	1302210	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1496	ET_AM/SGLGW/AU/P167	4	Lay Gayint	2020	432579	1303369	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1497	ET_AM/SGLGW/AU/P168	4	Lay Gayint	2020	433563	1303053	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1498	ET_AM/SGLGW/AU/P169	4	Lay Gayint	2020	434127	1302669	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1510	ET_AM/SGLGW/AU/P181	4	Lay Gayint	2020	426583	1305901	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1511	ET_AM/SGLGW/AU/P182	4	Lay Gayint	2020	427821	1305439	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1512	ET_AM/SGLGW/AU/P183	4	Lay Gayint	2020	428999	1305237	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4400	1513	ET_AM/SGLGW/AU/P184	4	Lay Gayint	2020	430754	1305633	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	1516	ET_AM/SGLGW/AU/P187	4	Lay Gayint	2020	427366	1306669	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1517	ET_AM/SGLGW/AU/P188	4	Lay Gayint	2020	428508	1307655	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1518	ET_AM/SGLGW/AU/P189	4	Lay Gayint	2020	426476	1306473	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	1519	ET_AM/SGLGW/AU/P190	4	Lay Gayint	2020	431743	1312850	lithic Leptosols arenic
Amhara-W/CzT-Basalt_upper_flood/4400	1534	ET_AM/SGLGW/AU/P205	4	Lay Gayint	2020	431689	1296764	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood/4400	2025	ET_AM/SG/LGW/SP/P7	1	Lay Gayint	2020	440854	1291633	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4400	2026	ET_AM/SG/LGW/SP/P8	1	Lay Gayint	2020	439546	1295724	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4400	2031	ET_AM/SG/LGW/SP/P13	1	Lay Gayint	2020	436100	1301415	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4410	1349	ET_AM/SGLGW/AU/P20	4	Lay Gayint	2020	443720	1298976	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4410	1350	ET_AM/SGLGW/AU/P21	4	Lay Gayint	2020	443713	1298980	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4410	1351	ET_AM/SGLGW/AU/P22	4	Lay Gayint	2020	443707	1298981	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4410	1414	ET_AM/SGLGW/AU/P85	4	Lay Gayint	2020	434632	1299000	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4410	1422	ET_AM/SGLGW/AU/P93	4	Lay Gayint	2020	434644	1298999	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4410	1431	ET_AM/SGLGW/AU/P102	4	Lay Gayint	2020	434007	1297165	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4410	1434	ET_AM/SGLGW/AU/P105	4	Lay Gayint	2020	430415	1295823	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4410	1436	ET_AM/SGLGW/AU/P107	4	Lay Gayint	2020	432030	1296723	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4410	1439	ET_AM/SGLGW/AU/P110	4	Lay Gayint	2020	433044	1296922	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4410	1453	ET_AM/SGLGW/AU/P124	4	Lay Gayint	2020	430247	1296977	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4410	2027	ET_AM/SG/LGW/SP/P9	1	Lay Gayint	2020	434650	1298988	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4430	1380	ET_AM/SGLGW/AU/P51	4	Lay Gayint	2020	438276	1295288	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4430	1382	ET_AM/SGLGW/AU/P53	4	Lay Gayint	2020	440067	1295296	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1383	ET_AM/SGLGW/AU/P54	4	Lay Gayint	2020	440072	1295300	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1384	ET_AM/SGLGW/AU/P55	4	Lay Gayint	2020	440073	1295287	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1385	ET_AM/SGLGW/AU/P56	4	Lay Gayint	2020	440072	1295290	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4430	1389	ET_AM/SGLGW/AU/P60	4	Lay Gayint	2020	439032	1293318	skeletal Regosols loamic aric

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Amhara-W/CzT-Basalt_upper_flood/4430	1392	ET_AM/SGLGW/AU/P63	4	Lay Gayint	2020	439465	1293078	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1394	ET_AM/SGLGW/AU/P65	4	Lay Gayint	2020	438201	1295605	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1413	ET_AM/SGLGW/AU/P84	4	Lay Gayint	2020	436460	1297162	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4430	1423	ET_AM/SGLGW/AU/P94	4	Lay Gayint	2020	436455	1297143	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1424	ET_AM/SGLGW/AU/P95	4	Lay Gayint	2020	436461	1297144	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1427	ET_AM/SGLGW/AU/P98	4	Lay Gayint	2020	436439	1297162	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1428	ET_AM/SGLGW/AU/P99	4	Lay Gayint	2020	436442	1297154	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1429	ET_AM/SGLGW/AU/P100	4	Lay Gayint	2020	436446	1297143	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1430	ET_AM/SGLGW/AU/P101	4	Lay Gayint	2020	429955	1297697	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1432	ET_AM/SGLGW/AU/P103	4	Lay Gayint	2020	432826	1296823	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1441	ET_AM/SGLGW/AU/P112	4	Lay Gayint	2020	434660	1297809	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1443	ET_AM/SGLGW/AU/P114	4	Lay Gayint	2020	436867	1297165	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1445	ET_AM/SGLGW/AU/P116	4	Lay Gayint	2020	430133	1298120	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1452	ET_AM/SGLGW/AU/P123	4	Lay Gayint	2020	430452	1296586	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1466	ET_AM/SGLGW/AU/P137	4	Lay Gayint	2020	431010	1297168	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood/4430	1495	ET_AM/SGLGW/AU/P166	4	Lay Gayint	2020	431717	1303176	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood/4430	1515	ET_AM/SGLGW/AU/P186	4	Lay Gayint	2020	428855	1307993	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	2028	ET_AM/SG/LGW/SP/P10	1	Lay Gayint	2020	431008	1297165	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood/4430	2029	ET_AM/SG/LGW/SP/P11	1	Lay Gayint	2020	436451	1297136	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4430	2030	ET_AM/SG/LGW/SP/P12	1	Lay Gayint	2020	430896	1295654	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood/4430	2035	ET_AM/SG/LGW/SP/P17	1	Lay Gayint	2020	431740	1312937	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1001	1234	ET_AM/SG/LKW/AU/P112	4	Libo Kemkem	2020	351952	1330554	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1001	1294	ET_AM/SG/LKW/AU/P172	4	Libo Kemkem	2020	353388	1336730	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1001	1295	ET_AM/SG/LKW/AU/P173	4	Libo Kemkem	2020	352528	1338215	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1002	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1003	1170	ET_AM/SG/LKW/AU/P48	4	Libo Kemkem	2020	371706	1339317	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1003	1171	ET_AM/SG/LKW/AU/P49	4	Libo Kemkem	2020	372511	1339278	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1003	1172	ET_AM/SG/LKW/AU/P50	4	Libo Kemkem	2020	373052	1339392	gleyic Fluvisols siltic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1003	1178	ET_AM/SG/LKW/AU/P56	4	Libo Kemkem	2020	369974	1338589	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1003	1236	ET_AM/SG/LKW/AU/P114	4	Libo Kemkem	2020	352033	1331527	irragric Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/1004	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1131	ET_AM/SG/LKW/AU/P9	4	Libo Kemkem	2020	383273	1338322	skeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1133	ET_AM/SG/LKW/AU/P11	4	Libo Kemkem	2020	384179	1337562	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1143	ET_AM/SG/LKW/AU/P21	4	Libo Kemkem	2020	379680	1338106	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1144	ET_AM/SG/LKW/AU/P22	4	Libo Kemkem	2020	380040	1337258	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1148	ET_AM/SG/LKW/AU/P26	4	Libo Kemkem	2020	378447	1339559	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1149	ET_AM/SG/LKW/AU/P27	4	Libo Kemkem	2020	381314	1338344	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1151	ET_AM/SG/LKW/AU/P29	4	Libo Kemkem	2020	380658	1336256	vertic Cambisols siltic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1152	ET_AM/SG/LKW/AU/P30	4	Libo Kemkem	2020	381316	1336191	vertic Cambisols siltic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1159	ET_AM/SG/LKW/AU/P37	4	Libo Kemkem	2020	381775	1339036	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1164	ET_AM/SG/LKW/AU/P42	4	Libo Kemkem	2020	382032	1339723	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1167	ET_AM/SG/LKW/AU/P45	4	Libo Kemkem	2020	373999	1339366	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1173	ET_AM/SG/LKW/AU/P51	4	Libo Kemkem	2020	368707	1339614	colluvic skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1174	ET_AM/SG/LKW/AU/P52	4	Libo Kemkem	2020	368522	1338332	colluvic skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1176	ET_AM/SG/LKW/AU/P54	4	Libo Kemkem	2020	369490	1337384	colluvic skeletal Regosols arenic aric

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Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1179	ET_AM/SG/LKW/AU/P57	4	Libo Kemkem	2020	370258	1339183	skeletal Fluvisols siltic aric ochric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1181	ET_AM/SG/LKW/AU/P59	4	Libo Kemkem	2020	371603	1339927	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1182	ET_AM/SG/LKW/AU/P60	4	Libo Kemkem	2020	371368	1340090	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1186	ET_AM/SG/LKW/AU/P64	4	Libo Kemkem	2020	372633	1340116	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1187	ET_AM/SG/LKW/AU/P65	4	Libo Kemkem	2020	374139	1340809	skeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1188	ET_AM/SG/LKW/AU/P66	4	Libo Kemkem	2020	371539	1340656	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1190	ET_AM/SG/LKW/AU/P68	4	Libo Kemkem	2020	373841	1340674	leptic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1191	ET_AM/SG/LKW/AU/P69	4	Libo Kemkem	2020	375241	1339977	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1192	ET_AM/SG/LKW/AU/P70	4	Libo Kemkem	2020	375070	1340399	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1201	ET_AM/SG/LKW/AU/P79	4	Libo Kemkem	2020	367759	1341890	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1205	ET_AM/SG/LKW/AU/P83	4	Libo Kemkem	2020	367849	1342915	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1206	ET_AM/SG/LKW/AU/P84	4	Libo Kemkem	2020	368143	1342516	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1261	ET_AM/SG/LKW/AU/P139	4	Libo Kemkem	2020	357493	1337722	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1264	ET_AM/SG/LKW/AU/P142	4	Libo Kemkem	2020	356592	1337947	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1266	ET_AM/SG/LKW/AU/P144	4	Libo Kemkem	2020	357179	1337302	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1273	ET_AM/SG/LKW/AU/P151	4	Libo Kemkem	2020	369503	1344534	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1277	ET_AM/SG/LKW/AU/P155	4	Libo Kemkem	2020	369242	1344352	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1278	ET_AM/SG/LKW/AU/P156	4	Libo Kemkem	2020	368301	1343086	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	1292	ET_AM/SG/LKW/AU/P170	4	Libo Kemkem	2020	355434	1336907	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	2002	ET_AM/SG/LKW/SP/P7	1	Libo Kemkem	2020	375143	1340487	lamellic Luvisols siltic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2200	2003	ET_AM/SG/LKW/SP/P8	1	Libo Kemkem	2020	372459	1339286	lamellic Luvisols loamic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2210	1147	ET_AM/SG/LKW/AU/P25	4	Libo Kemkem	2020	378212	1338880	colluvic hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2210	1166	ET_AM/SG/LKW/AU/P44	4	Libo Kemkem	2020	382267	1339115	colluvic skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2210	1239	ET_AM/SG/LKW/AU/P117	4	Libo Kemkem	2020	352045	1331920	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2210	1274	ET_AM/SG/LKW/AU/P152	4	Libo Kemkem	2020	368217	1343462	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1134	ET_AM/SG/LKW/AU/P12	4	Libo Kemkem	2020	383820	1337112	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1139	ET_AM/SG/LKW/AU/P17	4	Libo Kemkem	2020	383972	1336916	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1140	ET_AM/SG/LKW/AU/P18	4	Libo Kemkem	2020	384538	1336716	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1145	ET_AM/SG/LKW/AU/P23	4	Libo Kemkem	2020	379139	1337372	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1146	ET_AM/SG/LKW/AU/P24	4	Libo Kemkem	2020	378586	1338010	colluvic hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1153	ET_AM/SG/LKW/AU/P31	4	Libo Kemkem	2020	381617	1337038	vertic Cambisols siltic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1168	ET_AM/SG/LKW/AU/P46	4	Libo Kemkem	2020	370538	1338953	cambic hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1194	ET_AM/SG/LKW/AU/P72	4	Libo Kemkem	2020	365129	1339447	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2230	1276	ET_AM/SG/LKW/AU/P154	4	Libo Kemkem	2020	368839	1344234	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1834	ET_AM/EG/ESMW/AU/P92	4	Enbise Sar Midir	2020	422137	1200759	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1837	ET_AM/EG/ESMW/AU/P95	4	Enbise Sar Midir	2020	423405	1201032	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1854	ET_AM/EG/ESMW/AU/P112	4	Enbise Sar Midir	2020	423816	1201918	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1855	ET_AM/EG/ESMW/AU/P113	4	Enbise Sar Midir	2020	424931	1201793	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1856	ET_AM/EG/ESMW/AU/P114	4	Enbise Sar Midir	2020	425397	1201562	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1860	ET_AM/EG/ESMW/AU/P118	4	Enbise Sar Midir	2020	422294	1202269	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1861	ET_AM/EG/ESMW/AU/P119	4	Enbise Sar Midir	2020	424580	1201850	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1895	ET_AM/EG/ESMW/AU/P153	4	Enbise Sar Midir	2020	417542	1203186	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1896	ET_AM/EG/ESMW/AU/P154	4	Enbise Sar Midir	2020	418245	1202908	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1900	ET_AM/EG/ESMW/AU/P158	4	Enbise Sar Midir	2020	418278	1202156	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1901	ET_AM/EG/ESMW/AU/P159	4	Enbise Sar Midir	2020	417295	1202411	skeletal Regosols loamic aric fluvic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1903	ET_AM/EG/ESMW/AU/P161	4	Enbise Sar Midir	2020	417647	1202469	vertic Cambisols clayic aric humic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1904	ET_AM/EG/ESMW/AU/P162	4	Enbise Sar Midir	2020	418047	1202451	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1909	ET_AM/EG/ESMW/AU/P167	4	Enbise Sar Midir	2020	419524	1200733	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1917	ET_AM/EG/ESMW/AU/P175	4	Enbise Sar Midir	2020	427091	1203753	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1918	ET_AM/EG/ESMW/AU/P176	4	Enbise Sar Midir	2020	426603	1203640	vertic Luvisols cutanic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	1919	ET_AM/EG/ESMW/AU/P177	4	Enbise Sar Midir	2020	426197	1204030	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2300	2082	ET_AM/EG/ESMW/SP/P20	1	Enbise Sar Midir	2020	417823	1202920	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2310	1853	ET_AM/EG/ESMW/AU/P111	4	Enbise Sar Midir	2020	423362	1202096	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2330	1323	ET_AM/SG/LKW/AU/P201	4	Libo Kemkem	2020	359775	1343084	hyperskeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2330	1905	ET_AM/EG/ESMW/AU/P163	4	Enbise Sar Midir	2020	418279	1201719	vertic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2330	1923	ET_AM/EG/ESMW/AU/P181	4	Enbise Sar Midir	2020	424668	1204532	leptic Regosols loamic aric fluvic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2330	1924	ET_AM/EG/ESMW/AU/P182	4	Enbise Sar Midir	2020	424341	1204976	vertic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2330	1930	ET_AM/EG/ESMW/AU/P188	4	Enbise Sar Midir	2020	423732	1204476	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/2330	1931	ET_AM/EG/ESMW/AU/P189	4	Enbise Sar Midir	2020	423660	1203971	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3210	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1132	ET_AM/SG/LKW/AU/P10	4	Libo Kemkem	2020	383951	1338138	skeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1138	ET_AM/SG/LKW/AU/P16	4	Libo Kemkem	2020	383570	1337360	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1163	ET_AM/SG/LKW/AU/P41	4	Libo Kemkem	2020	381923	1339127	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1177	ET_AM/SG/LKW/AU/P55	4	Libo Kemkem	2020	369413	1336078	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1183	ET_AM/SG/LKW/AU/P61	4	Libo Kemkem	2020	372869	1340412	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1184	ET_AM/SG/LKW/AU/P62	4	Libo Kemkem	2020	372058	1339804	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1189	ET_AM/SG/LKW/AU/P67	4	Libo Kemkem	2020	373143	1340536	leptic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	1196	ET_AM/SG/LKW/AU/P74	4	Libo Kemkem	2020	364576	1340703	leptic Cambisols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3221	2013	ET_AM/SG/LKW/SP/P18	1	Libo Kemkem	2020	357416	1337905	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1137	ET_AM/SG/LKW/AU/P15	4	Libo Kemkem	2020	383863	1337248	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1141	ET_AM/SG/LKW/AU/P19	4	Libo Kemkem	2020	386068	1335888	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1155	ET_AM/SG/LKW/AU/P33	4	Libo Kemkem	2020	380460	1339034	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1156	ET_AM/SG/LKW/AU/P34	4	Libo Kemkem	2020	380806	1339107	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1160	ET_AM/SG/LKW/AU/P38	4	Libo Kemkem	2020	381936	1339469	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1165	ET_AM/SG/LKW/AU/P43	4	Libo Kemkem	2020	381394	1339117	chromic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1169	ET_AM/SG/LKW/AU/P47	4	Libo Kemkem	2020	371048	1339063	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1180	ET_AM/SG/LKW/AU/P58	4	Libo Kemkem	2020	370751	1339963	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1185	ET_AM/SG/LKW/AU/P63	4	Libo Kemkem	2020	372171	1339918	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1193	ET_AM/SG/LKW/AU/P71	4	Libo Kemkem	2020	365294	1338936	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1195	ET_AM/SG/LKW/AU/P73	4	Libo Kemkem	2020	364990	1340016	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1197	ET_AM/SG/LKW/AU/P75	4	Libo Kemkem	2020	364521	1341139	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1198	ET_AM/SG/LKW/AU/P76	4	Libo Kemkem	2020	364866	1341832	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1202	ET_AM/SG/LKW/AU/P80	4	Libo Kemkem	2020	368930	1341008	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1203	ET_AM/SG/LKW/AU/P81	4	Libo Kemkem	2020	368560	1340284	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1204	ET_AM/SG/LKW/AU/P82	4	Libo Kemkem	2020	367724	1342570	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1207	ET_AM/SG/LKW/AU/P85	4	Libo Kemkem	2020	368641	1341319	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1238	ET_AM/SG/LKW/AU/P116	4	Libo Kemkem	2020	352356	1331953	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1275	ET_AM/SG/LKW/AU/P153	4	Libo Kemkem	2020	368191	1343770	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1290	ET_AM/SG/LKW/AU/P168	4	Libo Kemkem	2020	355068	1338993	hyperskeletal Leptosols loamic aric ochric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1293	ET_AM/SG/LKW/AU/P171	4	Libo Kemkem	2020	354118	1336955	chromic Vertisols aric chernic hypereutric mazi

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1320	ET_AM/SG/LKW/AU/P198	4	Libo Kemkem	2020	359586	1342139	hyperskeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	1324	ET_AM/SG/LKW/AU/P202	4	Libo Kemkem	2020	359243	1343459	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3222	2017	ET_AM/SG/LKW/SP/P22	1	Libo Kemkem	2020	358841	1342549	cambic Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3223	1200	ET_AM/SG/LKW/AU/P78	4	Libo Kemkem	2020	367037	1341477	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3223	2008	ET_AM/SG/LKW/SP/P13	1	Libo Kemkem	2020	355623	1332295	vertic Cambisols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3230	1150	ET_AM/SG/LKW/AU/P28	4	Libo Kemkem	2020	380838	1337010	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3230	1157	ET_AM/SG/LKW/AU/P35	4	Libo Kemkem	2020	381001	1339018	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3230	1158	ET_AM/SG/LKW/AU/P36	4	Libo Kemkem	2020	381059	1339000	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3230	1291	ET_AM/SG/LKW/AU/P169	4	Libo Kemkem	2020	354773	1337603	hyperskeletal Leptosols arenic aric ochric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3230	1319	ET_AM/SG/LKW/AU/P197	4	Libo Kemkem	2020	359521	1341614	hyperskeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3310	1354	ET_AM/SGLGW/AU/P25	4	Lay Gayint	2020	445532	1298979	vertic Luvisols loamic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3310	1355	ET_AM/SGLGW/AU/P26	4	Lay Gayint	2020	445537	1298981	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3310	1356	ET_AM/SGLGW/AU/P27	4	Lay Gayint	2020	445531	1298971	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3310	1359	ET_AM/SGLGW/AU/P30	4	Lay Gayint	2020	445545	1298984	leptic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3310	1365	ET_AM/SGLGW/AU/P36	4	Lay Gayint	2020	445387	1299014	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3310	1940	ET_AM/EG/ESMW/AU/P198	4	Enbise Sar Midir	2020	418753	1203383	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3321	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1219	ET_AM/SG/LKW/AU/P97	4	Libo Kemkem	2020	363766	1352665	abruptic Luvisols loamic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1328	ET_AM/SG/LKW/AU/P206	4	Libo Kemkem	2020	360689	1342948	hyperskeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1363	ET_AM/SGLGW/AU/P34	4	Lay Gayint	2020	445050	1298557	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1369	ET_AM/SGLGW/AU/P40	4	Lay Gayint	2020	445252	1298619	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1370	ET_AM/SGLGW/AU/P41	4	Lay Gayint	2020	445167	1298867	chromic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1899	ET_AM/EG/ESMW/AU/P157	4	Enbise Sar Midir	2020	420048	1203502	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1911	ET_AM/EG/ESMW/AU/P169	4	Enbise Sar Midir	2020	426157	1202966	cambic Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1913	ET_AM/EG/ESMW/AU/P171	4	Enbise Sar Midir	2020	424709	1203161	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1928	ET_AM/EG/ESMW/AU/P186	4	Enbise Sar Midir	2020	422923	1205141	leptic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1929	ET_AM/EG/ESMW/AU/P187	4	Enbise Sar Midir	2020	423230	1204722	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	1945	ET_AM/EG/ESMW/AU/P203	4	Enbise Sar Midir	2020	420287	1203812	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	2021	ET_AM/SG/LGW/SP/P3	1	Lay Gayint	2020	448894	1301426	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3322	2023	ET_AM/SG/LGW/SP/P5	1	Lay Gayint	2020	447329	1300637	pellic Vertisols aric chernic hypereutric mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1208	ET_AM/SG/LKW/AU/P86	4	Libo Kemkem	2020	363723	1352802	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1217	ET_AM/SG/LKW/AU/P95	4	Libo Kemkem	2020	363386	1351362	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1218	ET_AM/SG/LKW/AU/P96	4	Libo Kemkem	2020	363515	1351997	hyperskeletal Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1221	ET_AM/SG/LKW/AU/P99	4	Libo Kemkem	2020	364929	1351788	leptic Cambisols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1223	ET_AM/SG/LKW/AU/P101	4	Libo Kemkem	2020	364402	1351785	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1329	ET_AM/SG/LKW/AU/P207	4	Libo Kemkem	2020	360516	1343379	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1330	ET_AM/SG/LGW/AU/P1	4	Lay Gayint	2020	449168	1302638	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1332	ET_AM/SGLGW/AU/P3	4	Lay Gayint	2020	449163	1302638	skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1338	ET_AM/SGLGW/AU/P9	4	Lay Gayint	2020	447359	1302642	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1339	ET_AM/SGLGW/AU/P10	4	Lay Gayint	2020	447356	1302646	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1340	ET_AM/SGLGW/AU/P11	4	Lay Gayint	2020	447359	1302648	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1341	ET_AM/SGLGW/AU/P12	4	Lay Gayint	2020	447365	1302643	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1343	ET_AM/SGLGW/AU/P14	4	Lay Gayint	2020	448761	1301893	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1344	ET_AM/SGLGW/AU/P15	4	Lay Gayint	2020	448576	1301923	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1371	ET_AM/SGLGW/AU/P42	4	Lay Gayint	2020	445714	1299223	vertic Cambisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1520	ET_AM/SGLGW/AU/P191	4	Lay Gayint	2020	431491	1313370	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	1946	ET_AM/EG/ESMW/AU/P204	4	Enbise Sar Midir	2020	418328	1203385	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3323	2006	ET_AM/SG/LKW/SP/P11	1	Libo Kemkem	2020	362224	1349006	cambic Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3330	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3410	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3422	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3423	1364	ET_AM/SGLGW/AU/P35	4	Lay Gayint	2020	444859	1298830	leptic Cambisols aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/3430	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4200	1199	ET_AM/SG/LKW/AU/P77	4	Libo Kemkem	2020	365402	1341973	skeletal Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4200	1322	ET_AM/SG/LKW/AU/P200	4	Libo Kemkem	2020	359895	1343400	hyperskeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4200	1325	ET_AM/SG/LKW/AU/P203	4	Libo Kemkem	2020	359142	1343027	leptic Regosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4200	2018	ET_AM/SG/LKW/SP/P23	1	Libo Kemkem	2020	359650	1342820	skeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4210	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4230	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1220	ET_AM/SG/LKW/AU/P98	4	Libo Kemkem	2020	364184	1352527	abruptic Luvisols loamic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1321	ET_AM/SG/LKW/AU/P199	4	Libo Kemkem	2020	359923	1342933	hyperskeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1327	ET_AM/SG/LKW/AU/P205	4	Libo Kemkem	2020	361019	1343124	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1331	ET_AM/SGLGW/AU/P2	4	Lay Gayint	2020	447340	1300801	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1333	ET_AM/SGLGW/AU/P4	4	Lay Gayint	2020	447342	1300800	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1334	ET_AM/SGLGW/AU/P5	4	Lay Gayint	2020	447369	1300817	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1335	ET_AM/SGLGW/AU/P6	4	Lay Gayint	2020	447367	1300815	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1336	ET_AM/SGLGW/AU/P7	4	Lay Gayint	2020	447342	1300811	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1337	ET_AM/SGLGW/AU/P8	4	Lay Gayint	2020	447358	1300815	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1342	ET_AM/SGLGW/AU/P13	4	Lay Gayint	2020	447364	1300800	colluvic skeletal Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1357	ET_AM/SGLGW/AU/P28	4	Lay Gayint	2020	447345	1300804	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1358	ET_AM/SGLGW/AU/P29	4	Lay Gayint	2020	447343	1300801	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1360	ET_AM/SGLGW/AU/P31	4	Lay Gayint	2020	447340	1300798	chromic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1835	ET_AM/EG/ESMW/AU/P93	4	Enbise Sar Midir	2020	421896	1200485	abruptic Luvisols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1836	ET_AM/EG/ESMW/AU/P94	4	Enbise Sar Midir	2020	422491	1201239	abruptic Luvisols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1838	ET_AM/EG/ESMW/AU/P96	4	Enbise Sar Midir	2020	423134	1200474	vertic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1852	ET_AM/EG/ESMW/AU/P110	4	Enbise Sar Midir	2020	422963	1202431	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1893	ET_AM/EG/ESMW/AU/P151	4	Enbise Sar Midir	2020	420662	1203449	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1894	ET_AM/EG/ESMW/AU/P152	4	Enbise Sar Midir	2020	416944	1203366	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1897	ET_AM/EG/ESMW/AU/P155	4	Enbise Sar Midir	2020	418872	1202886	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1898	ET_AM/EG/ESMW/AU/P156	4	Enbise Sar Midir	2020	419399	1203305	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1902	ET_AM/EG/ESMW/AU/P160	4	Enbise Sar Midir	2020	417243	1202811	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1906	ET_AM/EG/ESMW/AU/P164	4	Enbise Sar Midir	2020	418141	1201126	vertic Luvisols clayic aric cutanic
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1907	ET_AM/EG/ESMW/AU/P165	4	Enbise Sar Midir	2020	418761	1201517	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1908	ET_AM/EG/ESMW/AU/P166	4	Enbise Sar Midir	2020	419116	1201191	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1912	ET_AM/EG/ESMW/AU/P170	4	Enbise Sar Midir	2020	424216	1203391	skeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1914	ET_AM/EG/ESMW/AU/P172	4	Enbise Sar Midir	2020	425261	1203180	lithic Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1920	ET_AM/EG/ESMW/AU/P178	4	Enbise Sar Midir	2020	425618	1203850	hyperskeletal Leptosols
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1921	ET_AM/EG/ESMW/AU/P179	4	Enbise Sar Midir	2020	425163	1203978	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1922	ET_AM/EG/ESMW/AU/P180	4	Enbise Sar Midir	2020	425005	1204171	vertic Cambisols clayic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1932	ET_AM/EG/ESMW/AU/P190	4	Enbise Sar Midir	2020	423498	1203395	vertic Luvisols clayic aric cutanic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1939	ET_AM/EG/ESMW/AU/P197	4	Enbise Sar Midir	2020	417850	1203437	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	1943	ET_AM/EG/ESMW/AU/P201	4	Enbise Sar Midir	2020	419127	1203638	colluvic Regosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4300	2005	ET_AM/SG/LKW/SP/P10	1	Libo Kemkem	2020	364581	1353202	cambic Leptosols loamic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4310	1222	ET_AM/SG/LKW/AU/P100	4	Libo Kemkem	2020	363867	1351654	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4310	1326	ET_AM/SG/LKW/AU/P204	4	Libo Kemkem	2020	362042	1343392	hyperskeletal Leptosols arenic aric
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4310	1916	ET_AM/EG/ESMW/AU/P174	4	Enbise Sar Midir	2020	425760	1203244	pellic Vertisols aric chernic gilgaic mazi
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4330	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4400	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4410	0		0		0	0	0	
Amhara-W/CzT-Basalt_upper_flood_&trachyte/4430	0		0		0	0	0	
Amhara-W/CzT-Plug/2300	0		0		0	0	0	
Amhara-W/CzT-Plug/3310	0		0		0	0	0	
Amhara-W/CzT-Plug/3322	0		0		0	0	0	
Amhara-W/CzT-Plug/3323	0		0		0	0	0	
Amhara-W/CzT-Plug/3330	0		0		0	0	0	
Amhara-W/CzT-Plug/3410	0		0		0	0	0	
Amhara-W/CzT-Plug/3422	0		0		0	0	0	
Amhara-W/CzT-Plug/3423	0		0		0	0	0	
Amhara-W/CzT-Plug/3430	0		0		0	0	0	
Amhara-W/CzT-Plug/4300	0		0		0	0	0	
Amhara-W/CzT-Plug/4310	0		0		0	0	0	
Amhara-W/CzT-Plug/4330	0		0		0	0	0	
Amhara-W/CzT-Plug/4400	0		0		0	0	0	
Amhara-W/CzT-Plug/4410	0		0		0	0	0	
Amhara-W/CzT-Plug/4430	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/1002	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/1003	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/2300	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/2310	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/2330	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3210	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3223	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3310	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3321	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3322	1531	ET_AM/SGLGW/AU/P202	4	Lay Gayint	2020	420059	1284299	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3323	1525	ET_AM/SGLGW/AU/P196	4	Lay Gayint	2020	422839	1290945	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3323	2037	ET_AM/SG/LGW/SP/P19	1	Lay Gayint	2020	421888	1286136	calcaric cambic mollic Leptosols arenic ochric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3323	2038	ET_AM/SG/LGW/SP/P20	1	Lay Gayint	2020	422462	1292783	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3330	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3410	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1396	ET_AM/SGLGW/AU/P67	4	Lay Gayint	2020	423876	1297691	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1398	ET_AM/SGLGW/AU/P69	4	Lay Gayint	2020	422593	1295886	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1464	ET_AM/SGLGW/AU/P135	4	Lay Gayint	2020	423748	1297180	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1465	ET_AM/SGLGW/AU/P136	4	Lay Gayint	2020	423737	1297187	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1470	ET_AM/SGLGW/AU/P141	4	Lay Gayint	2020	431020	1300838	vertic Cambisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1471	ET_AM/SGLGW/AU/P142	4	Lay Gayint	2020	431025	1300845	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1491	ET_AM/SGLGW/AU/P162	4	Lay Gayint	2020	431492	1300998	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1492	ET_AM/SGLGW/AU/P163	4	Lay Gayint	2020	431141	1301563	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	1524	ET_AM/SGLGW/AU/P195	4	Lay Gayint	2020	420096	1287978	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3422	2033	ET_AM/SG/LGW/SP/P15	1	Lay Gayint	2020	425580	1298470	cambic Leptosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3423	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/3430	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4300	1526	ET_AM/SGLGW/AU/P197	4	Lay Gayint	2020	421901	1287968	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4300	1527	ET_AM/SGLGW/AU/P198	4	Lay Gayint	2020	421893	1287979	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4310	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4330	0		0		0	0	0	
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1397	ET_AM/SGLGW/AU/P68	4	Lay Gayint	2020	423367	1296666	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1455	ET_AM/SGLGW/AU/P126	4	Lay Gayint	2020	427960	1300236	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1456	ET_AM/SGLGW/AU/P127	4	Lay Gayint	2020	427789	1300599	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1461	ET_AM/SGLGW/AU/P132	4	Lay Gayint	2020	423745	1295341	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1462	ET_AM/SGLGW/AU/P133	4	Lay Gayint	2020	423735	1295335	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1463	ET_AM/SGLGW/AU/P134	4	Lay Gayint	2020	423735	1295348	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1475	ET_AM/SGLGW/AU/P146	4	Lay Gayint	2020	425229	1299694	chromic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1476	ET_AM/SGLGW/AU/P147	4	Lay Gayint	2020	425374	1299414	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1478	ET_AM/SGLGW/AU/P149	4	Lay Gayint	2020	421844	1303328	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1479	ET_AM/SGLGW/AU/P150	4	Lay Gayint	2020	422134	1303552	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1480	ET_AM/SGLGW/AU/P151	4	Lay Gayint	2020	422715	1303263	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1481	ET_AM/SGLGW/AU/P152	4	Lay Gayint	2020	422898	1302794	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1482	ET_AM/SGLGW/AU/P153	4	Lay Gayint	2020	423226	1302434	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1483	ET_AM/SGLGW/AU/P154	4	Lay Gayint	2020	423324	1302229	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1486	ET_AM/SGLGW/AU/P157	4	Lay Gayint	2020	423826	1301002	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1487	ET_AM/SGLGW/AU/P158	4	Lay Gayint	2020	424237	1300710	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1488	ET_AM/SGLGW/AU/P159	4	Lay Gayint	2020	424844	1300281	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1489	ET_AM/SGLGW/AU/P160	4	Lay Gayint	2020	422474	1296927	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1500	ET_AM/SGLGW/AU/P171	4	Lay Gayint	2020	421560	1296943	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1501	ET_AM/SGLGW/AU/P172	4	Lay Gayint	2020	420961	1297447	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1502	ET_AM/SGLGW/AU/P173	4	Lay Gayint	2020	420351	1298594	nudilithic Leptosols
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1504	ET_AM/SGLGW/AU/P175	4	Lay Gayint	2020	420952	1299953	Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1505	ET_AM/SGLGW/AU/P176	4	Lay Gayint	2020	420522	1298038	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1528	ET_AM/SGLGW/AU/P199	4	Lay Gayint	2020	420064	1286138	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1529	ET_AM/SGLGW/AU/P200	4	Lay Gayint	2020	420068	1286129	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1530	ET_AM/SGLGW/AU/P201	4	Lay Gayint	2020	420064	1286120	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	1536	ET_AM/SGLGW/AU/P207	4	Lay Gayint	2020	417797	1285664	vertic Cambisols clayic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4400	2036	ET_AM/SG/LGW/SP/P18	1	Lay Gayint	2020	422107	1297718	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4410	1485	ET_AM/SGLGW/AU/P156	4	Lay Gayint	2020	423650	1301141	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4410	1507	ET_AM/SGLGW/AU/P178	4	Lay Gayint	2020	420240	1299216	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4410	1535	ET_AM/SGLGW/AU/P206	4	Lay Gayint	2020	418378	1286102	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4410	2032	ET_AM/SG/LGW/SP/P14	1	Lay Gayint	2020	425649	1299334	chromic Vertisols aric chernic hypereutric grumic
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1395	ET_AM/SGLGW/AU/P66	4	Lay Gayint	2020	424366	1298234	abruptic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1454	ET_AM/SGLGW/AU/P125	4	Lay Gayint	2020	428161	1300059	skeletal Regosols loamic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1457	ET_AM/SGLGW/AU/P128	4	Lay Gayint	2020	427695	1300024	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1458	ET_AM/SGLGW/AU/P129	4	Lay Gayint	2020	427562	1299721	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1477	ET_AM/SGLGW/AU/P148	4	Lay Gayint	2020	425153	1299861	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1484	ET_AM/SGLGW/AU/P155	4	Lay Gayint	2020	423540	1301522	skeletal Regosols loamic aric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1490	ET_AM/SGLGW/AU/P161	4	Lay Gayint	2020	421841	1297734	vertic Luvisols clayic aric cutanic hypereutric
Amhara-W/CzT-Pyroclast_tuff_ignimbrite/4430	1499	ET_AM/SGLGW/AU/P170	4	Lay Gayint	2020	422031	1296833	skeletal Regosols loamic aric
Amhara-W/CzT-Trachyte_&rhyolite/3410	0		0		0	0	0	
Amhara-W/CzT-Trachyte_&rhyolite/3422	1503	ET_AM/SGLGW/AU/P174	4	Lay Gayint	2020	420206	1299432	skeletal Regosols loamic aric
Amhara-W/CzT-Trachyte_&rhyolite/3422	1537	ET_AM/SGLGW/AU/P208	4	Lay Gayint	2020	417603	1285197	vertic Cambisols clayic aric
Amhara-W/CzT-Trachyte_&rhyolite/3423	1508	ET_AM/SGLGW/AU/P179	4	Lay Gayint	2020	419973	1298775	Regosols loamic aric
Amhara-W/CzT-Trachyte_&rhyolite/3423	1509	ET_AM/SGLGW/AU/P180	4	Lay Gayint	2020	419911	1299079	vertic Cambisols clayic aric
Amhara-W/CzT-Trachyte_&rhyolite/3430	0		0		0	0	0	
Amhara-W/CzT-Trachyte_&rhyolite/4400	1506	ET_AM/SGLGW/AU/P177	4	Lay Gayint	2020	420568	1299686	skeletal Regosols loamic aric
Amhara-W/CzT-Trachyte_&rhyolite/4400	1532	ET_AM/SGLGW/AU/P203	4	Lay Gayint	2020	419806	1287587	skeletal Regosols loamic aric
Amhara-W/CzT-Trachyte_&rhyolite/4410	0		0		0	0	0	
Amhara-W/CzT-Trachyte_&rhyolite/4430	0		0		0	0	0	
Amhara-W/Mz-Limestone/1001	0		0		0	0	0	
Amhara-W/Mz-Limestone/1002	0		0		0	0	0	
Amhara-W/Mz-Limestone/1003	0		0		0	0	0	
Amhara-W/Mz-Limestone/2100	1752	ET_AM/EG/ESMW/AU/P10	4	Enbise Sar Midir	2020	445682	1179244	skeletal Leptosols
Amhara-W/Mz-Limestone/2110	0		0		0	0	0	
Amhara-W/Mz-Limestone/2130	0		0		0	0	0	
Amhara-W/Mz-Limestone/2200	0		0		0	0	0	
Amhara-W/Mz-Limestone/2210	0		0		0	0	0	
Amhara-W/Mz-Limestone/2230	0		0		0	0	0	
Amhara-W/Mz-Limestone/3110	0		0		0	0	0	
Amhara-W/Mz-Limestone/3121	1743	ET_AM/EG/ESMW/AU/P1	4	Enbise Sar Midir	2020	444725	1178127	skeletal Regosols loamic fluvic
Amhara-W/Mz-Limestone/3122	1744	ET_AM/EG/ESMW/AU/P2	4	Enbise Sar Midir	2020	444576	1177729	hyperskeletal Leptosols
Amhara-W/Mz-Limestone/3122	1748	ET_AM/EG/ESMW/AU/P6	4	Enbise Sar Midir	2020	445333	1178843	leptic Fluvisols loamic aric
Amhara-W/Mz-Limestone/3122	1749	ET_AM/EG/ESMW/AU/P7	4	Enbise Sar Midir	2020	445021	1178805	leptic Fluvisols loamic aric
Amhara-W/Mz-Limestone/3122	1750	ET_AM/EG/ESMW/AU/P8	4	Enbise Sar Midir	2020	442009	1177034	hyperskeletal Leptosols
Amhara-W/Mz-Limestone/3122	1753	ET_AM/EG/ESMW/AU/P11	4	Enbise Sar Midir	2020	445768	1179335	hyperskeletal Leptosols
Amhara-W/Mz-Limestone/3122	2063	ET_AM/EG/ESMW/SP/P1	1	Enbise Sar Midir	2020	445170	1178546	eutric Fluvisols arenic
Amhara-W/Mz-Limestone/3123	1745	ET_AM/EG/ESMW/AU/P3	4	Enbise Sar Midir	2020	444198	1177236	hyperskeletal Leptosols
Amhara-W/Mz-Limestone/3123	1751	ET_AM/EG/ESMW/AU/P9	4	Enbise Sar Midir	2020	444149	1177207	abruptic Luvisols loamic aric
Amhara-W/Mz-Limestone/3123	2064	ET_AM/EG/ESMW/SP/P2	1	Enbise Sar Midir	2020	444147	1177201	lithic Leptosols arenic ochric
Amhara-W/Mz-Limestone/3130	0		0		0	0	0	
Amhara-W/Mz-Limestone/3210	0		0		0	0	0	
Amhara-W/Mz-Limestone/3221	0		0		0	0	0	
Amhara-W/Mz-Limestone/3222	1746	ET_AM/EG/ESMW/AU/P4	4	Enbise Sar Midir	2020	442541	1176861	hyperskeletal Leptosols
Amhara-W/Mz-Limestone/3223	0		0		0	0	0	
Amhara-W/Mz-Limestone/3230	0		0		0	0	0	
Amhara-W/Mz-Sandstone/1002	0		0		0	0	0	
Amhara-W/Mz-Sandstone/1003	0		0		0	0	0	
Amhara-W/Mz-Sandstone/2200	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Amhara-W/Mz-Sandstone/2210	0		0		0	0	0	
Amhara-W/Mz-Sandstone/2230	0		0		0	0	0	
Amhara-W/Mz-Sandstone/3210	0		0		0	0	0	
Amhara-W/Mz-Sandstone/3221	0		0		0	0	0	
Amhara-W/Mz-Sandstone/3222	0		0		0	0	0	
Amhara-W/Mz-Sandstone/3223	0		0		0	0	0	
Amhara-W/Mz-Sandstone/3230	0		0		0	0	0	
Oromia/Arsi negele/outsideAol	2966	ET_OR/WA/AN/SP11/AG07	4	Arsi negele	2020	480616	791194	chromic Vertisols skeletal
Oromia/Arsi negele/outsideAol	2967	ET_OR/WA/AN/SP11/AG08	4	Arsi negele	2020	480432	791471	chromic Vertisols skeletal
Oromia/CzQ-Basalt/2100	0		0		0	0	0	
Oromia/CzQ-Basalt/2110	0		0		0	0	0	
Oromia/CzQ-Basalt/2130	0		0		0	0	0	
Oromia/CzQ-Basalt/3121	0		0		0	0	0	
Oromia/CzQ-Basalt/3122	0		0		0	0	0	
Oromia/CzQ-Basalt/3123	0		0		0	0	0	
Oromia/CzQ-Basalt/3130	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/1001	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/1002	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/1003	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/1004	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/2100	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/2110	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/2130	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/2200	2086	ET_PB-13	4	N/A	2010	474503	808605	haplic Luvisols
Oromia/CzQ-Ignimbrite_&tuff/2200	2852	ET_Or/WA/AN/SP07	1	Arsi Negele	2020	464657	819885	calcic Vertisols hypereutric
Oromia/CzQ-Ignimbrite_&tuff/2200	2920	ET_OR/WA/AN/SP07/AG01	4	Arsi Negele	2020	464657	820192	chromic Vertisols ochric
Oromia/CzQ-Ignimbrite_&tuff/2200	2921	ET_OR/WA/AN/SP07/AG02	4	Arsi Negele	2020	464964	820314	haplic Vertisols humic
Oromia/CzQ-Ignimbrite_&tuff/2200	2922	ET_OR/WA/AN/SP07/AG03	4	Arsi Negele	2020	463493	820377	haplic Vertisols humic
Oromia/CzQ-Ignimbrite_&tuff/2200	2923	ET_OR/WA/AN/SP07/AG04	4	Arsi Negele	2020	464750	820345	haplic Vertisols humic
Oromia/CzQ-Ignimbrite_&tuff/2200	2924	ET_OR/WA/AN/SP07/AG05	4	Arsi Negele	2020	465056	819608	haplic Vertisols humic
Oromia/CzQ-Ignimbrite_&tuff/2200	2925	ET_OR/WA/AN/SP07/AG06	4	Arsi Negele	2020	464902	819240	chromic Vertisols ochric
Oromia/CzQ-Ignimbrite_&tuff/2200	2926	ET_OR/WA/AN/SP07/AG07	4	Arsi Negele	2020	464503	819178	chromic Luvisols ochric
Oromia/CzQ-Ignimbrite_&tuff/2200	2927	ET_OR/WA/AN/SP07/AG08	4	Arsi Negele	2020	464166	819455	vertic Luvisols clayic
Oromia/CzQ-Ignimbrite_&tuff/2200	2928	ET_OR/WA/AN/SP07/AG09	4	Arsi Negele	2020	464320	819793	haplic Vertisols aric
Oromia/CzQ-Ignimbrite_&tuff/2200	2929	ET_OR/WA/AN/SP07/AG10	4	Arsi Negele	2020	464228	820192	chromic Vertisols ochric
Oromia/CzQ-Ignimbrite_&tuff/2210	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/2230	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/2330	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3110	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3121	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3122	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3123	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3130	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3210	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3221	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzQ-Ignimbrite_&tuff/3222	2851	ET_Or/WA/AN/SP06	1	Arsi Negele	2020	463001	818596	calcaric Leptosols
Oromia/CzQ-Ignimbrite_&tuff/3222	2910	ET_OR/WA/AN/SP06/AG01	4	Arsi negele	2020	463001	818504	calcaric Leptosols siltic
Oromia/CzQ-Ignimbrite_&tuff/3222	2911	ET_OR/WA/AN/SP06/AG02	4	Arsi negele	2020	462970	818780	calcaric Leptosols siltic
Oromia/CzQ-Ignimbrite_&tuff/3222	2912	ET_OR/WA/AN/SP06/AG03	4	Arsi negele	2020	462940	818995	calcaric Leptosols siltic
Oromia/CzQ-Ignimbrite_&tuff/3222	2913	ET_OR/WA/AN/SP06/AG04	4	Arsi negele	2020	463063	819302	calcaric Leptosols siltic
Oromia/CzQ-Ignimbrite_&tuff/3222	2914	ET_OR/WA/AN/SP06/AG05	4	Arsi negele	2020	463094	819701	skeletal Leptosols siltic
Oromia/CzQ-Ignimbrite_&tuff/3222	2915	ET_OR/WA/AN/SP06/AG06	4	Arsi negele	2020	463125	819886	skeletal Leptosols
Oromia/CzQ-Ignimbrite_&tuff/3222	2916	ET_OR/WA/AN/SP06/AG07	4	Arsi negele	2020	463370	820039	calcaric Leptosols siltic
Oromia/CzQ-Ignimbrite_&tuff/3222	2917	ET_OR/WA/AN/SP06/AG08	4	Arsi negele	2020	463677	820407	calcaric Leptosols siltic
Oromia/CzQ-Ignimbrite_&tuff/3222	2918	ET_OR/WA/AN/SP06/AG09	4	Arsi negele	2020	463861	820438	calcaric Leptosols
Oromia/CzQ-Ignimbrite_&tuff/3222	2919	ET_OR/WA/AN/SP06/AG10	4	Arsi negele	2020	464045	820561	calcaric Leptosols
Oromia/CzQ-Ignimbrite_&tuff/3223	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3230	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3310	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3322	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3323	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/3330	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/4200	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/4210	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/4230	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/4300	0		0		0	0	0	
Oromia/CzQ-Ignimbrite_&tuff/4330	0		0		0	0	0	
Oromia/CzQ-Lake/1001	2951	ET_OR/WA/AN/SP10/AG02	4	Arsi Negele	2020	461215	846266	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1001	2952	ET_OR/WA/AN/SP10/AG03	4	Arsi Negele	2020	461031	845898	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1001	2953	ET_OR/WA/AN/SP10/AG04	4	Arsi Negele	2020	461122	845498	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1001	2954	ET_OR/WA/AN/SP10/AG05	4	Arsi Negele	2020	461459	845621	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1001	2955	ET_OR/WA/AN/SP10/AG06	4	Arsi Negele	2020	461673	845252	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1001	2956	ET_OR/WA/AN/SP10/AG07	4	Arsi Negele	2020	462072	845129	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1001	2959	ET_OR/WA/AN/SP10/AG10	4	Arsi Negele	2020	461949	845713	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1002	2957	ET_OR/WA/AN/SP10/AG08	4	Arsi Negele	2020	462439	845282	cambic Calcisols hypercalcic
Oromia/CzQ-Lake/1003	0		0		0	0	0	
Oromia/CzQ-Lake/2100	0		0		0	0	0	
Oromia/CzQ-Lake/2130	0		0		0	0	0	
Oromia/CzQ-Lake/3110	0		0		0	0	0	
Oromia/CzQ-Lake/3121	0		0		0	0	0	
Oromia/CzQ-Lake/3122	0		0		0	0	0	
Oromia/CzQ-Lake/3123	0		0		0	0	0	
Oromia/CzQ-Lake/3130	0		0		0	0	0	
Oromia/CzQ-Lake/3223	0		0		0	0	0	
Oromia/CzQ-Lake/3230	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/1001	2855	ET_Or/WA/AN/SP10	1	Arsi Negele	2020	461980	846173	skeletal cambic Calcisols hypercalcic sodic
Oromia/CzQ-Sediment_lacustrine/1001	2950	ET_OR/WA/AN/SP10/AG01	4	Arsi Negele	2020	461644	846296	cambic Calcisols hypercalcic
Oromia/CzQ-Sediment_lacustrine/1001	2958	ET_OR/WA/AN/SP10/AG09	4	Arsi Negele	2020	462440	845681	calcaric Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/1002	2865	ET_OR/WA/AN/SP01/AG06	4	Arsi negele	2020	439814	833175	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/1002	2866	ET_OR/WA/AN/SP01/AG07	4	Arsi negele	2020	439446	833299	calcaric Fluvisols alcalic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzQ-Sediment_lacustrine/1002	2867	ET_OR/WA/AN/SP01/AG08	4	Arsi negele	2020	439201	833422	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/1002	2868	ET_OR/WA/AN/SP01/AG09	4	Arsi negele	2020	438956	833637	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/1003	2846	ET_Or/WA/AN/SP01	1	Arsi Negele	2020	439477	833821	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/1003	2848	ET_Or/WA/AN/SP03	1	Arsi Negele	2020	443347	840679	calcic Luvisols fluvic
Oromia/CzQ-Sediment_lacustrine/1003	2864	ET_OR/WA/AN/SP01/AG05	4	Arsi negele	2020	440090	833359	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/1003	2869	ET_OR/WA/AN/SP01/AG10	4	Arsi negele	2020	439018	833852	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/1003	2875	ET_OR/WA/AN/SP02/AG06	4	Arsi Negele	2020	438745	836739	cambic Calcisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2880	ET_OR/WA/AN/SP03/AG01	4	Arsi Negele	2020	442979	840941	calcic Luvisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2881	ET_OR/WA/AN/SP03/AG02	4	Arsi Negele	2020	442734	840603	calcic Luvisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2882	ET_OR/WA/AN/SP03/AG03	4	Arsi Negele	2020	442580	840235	haplic Luvisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2883	ET_OR/WA/AN/SP03/AG04	4	Arsi Negele	2020	442794	839836	cambic Calcisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2884	ET_OR/WA/AN/SP03/AG05	4	Arsi Negele	2020	443162	839651	calcic Luvisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2885	ET_OR/WA/AN/SP03/AG06	4	Arsi Negele	2020	443346	840019	calcic Luvisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2886	ET_OR/WA/AN/SP03/AG07	4	Arsi Negele	2020	443714	840142	calcic Luvisols loamic
Oromia/CzQ-Sediment_lacustrine/1003	2887	ET_OR/WA/AN/SP03/AG08	4	Arsi Negele	2020	443806	840541	calcaric Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/1003	2888	ET_OR/WA/AN/SP03/AG09	4	Arsi Negele	2020	443745	840971	calcaric Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/1003	2889	ET_OR/WA/AN/SP03/AG10	4	Arsi Negele	2020	443255	841156	calcaric Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/1004	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/2100	2849	ET_Or/WA/AN/SP04	1	Arsi Negele	2020	452227	834850	calcaric Fluvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2854	ET_Or/WA/AN/SP09	1	Arsi Negele	2020	464400	845066	calcaric Leptosols
Oromia/CzQ-Sediment_lacustrine/2100	2860	ET_OR/WA/AN/SP01/AG01	4	Arsi negele	2020	439631	833882	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/2100	2861	ET_OR/WA/AN/SP01/AG02	4	Arsi negele	2020	439784	833851	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/2100	2862	ET_OR/WA/AN/SP01/AG03	4	Arsi negele	2020	439906	833851	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/2100	2863	ET_OR/WA/AN/SP01/AG04	4	Arsi negele	2020	440182	833697	calcaric Fluvisols alcalic
Oromia/CzQ-Sediment_lacustrine/2100	2870	ET_OR/WA/AN/SP02/AG01	4	Arsi Negele	2020	438622	835879	skeletal cambic Calcisols loamic
Oromia/CzQ-Sediment_lacustrine/2100	2872	ET_OR/WA/AN/SP02/AG03	4	Arsi Negele	2020	439081	835602	calcaric Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/2100	2873	ET_OR/WA/AN/SP02/AG04	4	Arsi Negele	2020	438898	835971	calcaric Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/2100	2874	ET_OR/WA/AN/SP02/AG05	4	Arsi Negele	2020	438561	836371	dystric Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/2100	2876	ET_OR/WA/AN/SP02/AG07	4	Arsi Negele	2020	439144	836861	cambic Calcisols loamic
Oromia/CzQ-Sediment_lacustrine/2100	2877	ET_OR/WA/AN/SP02/AG08	4	Arsi Negele	2020	439481	836677	calcaric Cambisols loamic
Oromia/CzQ-Sediment_lacustrine/2100	2878	ET_OR/WA/AN/SP02/AG09	4	Arsi Negele	2020	439511	836308	calcaric Cambisols loamic
Oromia/CzQ-Sediment_lacustrine/2100	2879	ET_OR/WA/AN/SP02/AG10	4	Arsi Negele	2020	438960	836401	calcaric Cambisols loamic
Oromia/CzQ-Sediment_lacustrine/2100	2890	ET_OR/WA/AN/SP04/AG01	4	Arsi negele	2020	452319	834820	calcic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/2100	2891	ET_OR/WA/AN/SP04/AG02	4	Arsi negele	2020	452196	834574	calcic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/2100	2892	ET_OR/WA/AN/SP04/AG03	4	Arsi negele	2020	451889	834114	calcic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/2100	2893	ET_OR/WA/AN/SP04/AG04	4	Arsi negele	2020	451674	833776	calcic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/2100	2894	ET_OR/WA/AN/SP04/AG05	4	Arsi negele	2020	451398	833408	calcic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/2100	2895	ET_OR/WA/AN/SP04/AG06	4	Arsi negele	2020	451275	833654	calcic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/2100	2896	ET_OR/WA/AN/SP04/AG07	4	Arsi negele	2020	451337	833930	albic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/2100	2897	ET_OR/WA/AN/SP04/AG08	4	Arsi negele	2020	451276	834268	calcaric Fluvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2905	ET_OR/WA/AN/SP05/AG06	4	Arsi Negele	2020	449349	837279	calcic Luvisols fluvic
Oromia/CzQ-Sediment_lacustrine/2100	2906	ET_OR/WA/AN/SP05/AG07	4	Arsi Negele	2020	449318	836880	calcic Luvisols fluvic
Oromia/CzQ-Sediment_lacustrine/2100	2907	ET_OR/WA/AN/SP05/AG08	4	Arsi Negele	2020	449317	836450	calcic Luvisols fluvic
Oromia/CzQ-Sediment_lacustrine/2100	2908	ET_OR/WA/AN/SP05/AG09	4	Arsi Negele	2020	449685	836358	haplic Luvisols fluvic
Oromia/CzQ-Sediment_lacustrine/2100	2909	ET_OR/WA/AN/SP05/AG10	4	Arsi Negele	2020	449839	836880	skeletal Luvisols

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzQ-Sediment_lacustrine/2100	2930	ET_OR/WA/AN/SP08/AG01	4	Arsi negele	2020	454402	834050	skeletal Leptosols
Oromia/CzQ-Sediment_lacustrine/2100	2931	ET_OR/WA/AN/SP08/AG02	4	Arsi negele	2020	454218	833835	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2932	ET_OR/WA/AN/SP08/AG03	4	Arsi negele	2020	454064	833589	skeletal Leptosols
Oromia/CzQ-Sediment_lacustrine/2100	2938	ET_OR/WA/AN/SP08/AG09	4	Arsi negele	2020	453053	833805	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2939	ET_OR/WA/AN/SP08/AG10	4	Arsi negele	2020	453360	833897	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2940	ET_OR/WA/AN/SP09/AG01	4	Arsi negele	2020	464676	845158	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2941	ET_OR/WA/AN/SP09/AG02	4	Arsi negele	2020	464982	844912	calcaric Fluvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2942	ET_OR/WA/AN/SP09/AG03	4	Arsi negele	2020	464308	844513	calcaric Fluvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2943	ET_OR/WA/AN/SP09/AG04	4	Arsi negele	2020	464767	844236	calcaric Fluvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2944	ET_OR/WA/AN/SP09/AG05	4	Arsi negele	2020	464828	843837	calcaric Fluvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2945	ET_OR/WA/AN/SP09/AG06	4	Arsi negele	2020	464950	843469	leptic Luvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2946	ET_OR/WA/AN/SP09/AG07	4	Arsi negele	2020	465287	843284	calcic Luvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2947	ET_OR/WA/AN/SP09/AG08	4	Arsi negele	2020	465287	842946	calcic Luvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2948	ET_OR/WA/AN/SP09/AG09	4	Arsi negele	2020	464582	843039	calcic Luvisols siltic
Oromia/CzQ-Sediment_lacustrine/2100	2949	ET_OR/WA/AN/SP09/AG10	4	Arsi negele	2020	464307	843438	calcic Luvisols siltic
Oromia/CzQ-Sediment_lacustrine/2110	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/2130	2847	ET_Or/WA/AN/SP02	1	Arsi Negele	2020	438971	836155	sodic Fluvisols arenic
Oromia/CzQ-Sediment_lacustrine/2200	2901	ET_OR/WA/AN/SP05/AG02	4	Arsi Negele	2020	448369	837680	calcic Luvisols clayic
Oromia/CzQ-Sediment_lacustrine/2200	2902	ET_OR/WA/AN/SP05/AG03	4	Arsi Negele	2020	448706	837771	calcic Luvisols clayic
Oromia/CzQ-Sediment_lacustrine/2210	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/2230	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/3110	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/3121	2853	ET_Or/WA/AN/SP08	1	Arsi Negele	2020	453758	833682	calcaric Leptosols loamic
Oromia/CzQ-Sediment_lacustrine/3121	2871	ET_OR/WA/AN/SP02/AG02	4	Arsi Negele	2020	439572	835755	calcaric Cambisols arenic
Oromia/CzQ-Sediment_lacustrine/3121	2933	ET_OR/WA/AN/SP08/AG04	4	Arsi negele	2020	453849	833344	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/3121	2934	ET_OR/WA/AN/SP08/AG05	4	Arsi negele	2020	453696	833498	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/3121	2937	ET_OR/WA/AN/SP08/AG08	4	Arsi negele	2020	452899	833498	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/3122	2935	ET_OR/WA/AN/SP08/AG06	4	Arsi negele	2020	453390	833529	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/3122	2936	ET_OR/WA/AN/SP08/AG07	4	Arsi negele	2020	453175	833375	calcaric Leptosols siltic
Oromia/CzQ-Sediment_lacustrine/3123	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/3130	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/3210	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/3221	2850	ET_Or/WA/AN/SP05	1	Arsi Negele	2020	448827	837065	calcic Luvisols fluvic
Oromia/CzQ-Sediment_lacustrine/3221	2900	ET_OR/WA/AN/SP05/AG01	4	Arsi Negele	2020	448430	838048	calcic Luvisols
Oromia/CzQ-Sediment_lacustrine/3221	2903	ET_OR/WA/AN/SP05/AG04	4	Arsi Negele	2020	448552	837342	calcic Luvisols loamic
Oromia/CzQ-Sediment_lacustrine/3221	2904	ET_OR/WA/AN/SP05/AG05	4	Arsi Negele	2020	448981	837433	eutric Leptosols loamic
Oromia/CzQ-Sediment_lacustrine/3222	2898	ET_OR/WA/AN/SP04/AG09	4	Arsi negele	2020	446067	834580	albic Luvisols aridic
Oromia/CzQ-Sediment_lacustrine/3223	0		0		0	0	0	
Oromia/CzQ-Sediment_lacustrine/3230	2899	ET_OR/WA/AN/SP04/AG10	4	Arsi negele	2020	451340	836786	albic Luvisols aridic
Oromia/CzT-Basalt_lower_flood/1002	3303	ET_Or/WH/Doba/Sp18/Ag04	4	Doba	2020	712038	1020577	lithic Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/1002	3313	ET_Or/WH/Doba/Sp19/Ag04	4	Doba	2020	711217	1019989	skeletal chromic vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/1003	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/1004	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/2200	3302	ET_Or/WH/Doba/Sp18/Ag03	4	Doba	2020	712376	1020179	skeletal Leptosols clayic aric
Oromia/CzT-Basalt_lower_flood/2200	3306	ET_Or/WH/Doba/Sp18/Ag07	4	Doba	2020	712620	1020334	vertic Cambisols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_lower_flood/2200	3309	ET_Or/WH/Doba/Sp18/Ag10	4	Doba	2020	712345	1020302	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/2200	3337	ET_Or/WH/Doba/SP18	1	Doba	2020	712620	1020181	skeletal Fluvisols loamic
Oromia/CzT-Basalt_lower_flood/2200	3340	ET_Or/WH/Doba/SP21	1	Doba	2020	737083	1034243	pellic Vertisols chernic
Oromia/CzT-Basalt_lower_flood/2200	3413	ET_OR/WH/DOBA/SP17/AG03	4	Doba	2020	712494	1020917	calcic Vertisols hypereutric
Oromia/CzT-Basalt_lower_flood/2200	3433	ET_OR/WH/DOBA/SP21/AG03	4	Doba	2020	736715	1034486	eutric Nitisols
Oromia/CzT-Basalt_lower_flood/2200	3434	ET_OR/WH/DOBA/SP21/AG04	4	Doba	2020	736471	1034485	calcic Vertisols skeletal
Oromia/CzT-Basalt_lower_flood/2200	3439	ET_OR/WH/DOBA/SP21/AG09	4	Doba	2020	735809	1032975	leptic Vertisols skeletal
Oromia/CzT-Basalt_lower_flood/2210	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/2230	3422	ET_OR/WH/DOBA/SP20/AG02	4	Doba	2020	739477	1037054	lithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/2230	3436	ET_OR/WH/DOBA/SP21/AG06	4	Doba	2020	736259	1034145	leptic Vertisols skeletal
Oromia/CzT-Basalt_lower_flood/2230	3438	ET_OR/WH/DOBA/SP21/AG08	4	Doba	2020	736019	1033437	leptic Vertisols skeletal
Oromia/CzT-Basalt_lower_flood/2300	3214	ET_Or/WH/Doba/SP02/Ag05	4	Doba	2020	730340	1028670	haplic Vertisols cutanic
Oromia/CzT-Basalt_lower_flood/2300	3232	ET_Or/WH/Doba/SP07/Ag03	4	Doba	2020	729494	1021874	chromic vertic Luvisols clayic
Oromia/CzT-Basalt_lower_flood/2300	3270	ET_Or/WH/Doba/Sp12/Ag01	4	Doba	2020	719291	1017544	skeletal Leptosols clayic
Oromia/CzT-Basalt_lower_flood/2300	3272	ET_Or/WH/Doba/Sp12/Ag03	4	Doba	2020	719720	1017239	vertic Luvisols clayic aric cutanic
Oromia/CzT-Basalt_lower_flood/2300	3273	ET_Or/WH/Doba/Sp12/Ag04	4	Doba	2020	719107	1017727	eutric Fluvisols clayic
Oromia/CzT-Basalt_lower_flood/2300	3274	ET_Or/WH/Doba/Sp12/Ag05	4	Doba	2020	719570	1016808	chromic vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/2300	3276	ET_Or/WH/Doba/Sp12/Ag07	4	Doba	2020	718260	1016248	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/2300	3291	ET_Or/WH/Doba/Sp15/Ag02	4	Doba	2020	715214	1020441	rhodic vertic Luvisols clayic aric cutanic nitic
Oromia/CzT-Basalt_lower_flood/2300	3370	ET_OR/WH/DOBA/SP05/AG10	4	Doba	2020	725293	1030392	eutric Leptosols clayic fluvic
Oromia/CzT-Basalt_lower_flood/2310	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/2330	3298	ET_Or/WH/Doba/Sp15/Ag09	4	Doba	2020	715139	1017398	skeletal Vertisols aric
Oromia/CzT-Basalt_lower_flood/2330	3331	ET_Or/WH/Doba/SP12	1	Doba	2020	719173	1016836	calcic Vertisols aric
Oromia/CzT-Basalt_lower_flood/3210	3312	ET_Or/WH/Doba/Sp19/Ag03	4	Doba	2020	710761	1019710	skeletal Leptosols clayic aric
Oromia/CzT-Basalt_lower_flood/3221	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/3222	3292	ET_Or/WH/Doba/Sp15/Ag03	4	Doba	2020	715211	1020994	vertic Luvisols clayic aric cutanic
Oromia/CzT-Basalt_lower_flood/3222	3293	ET_Or/WH/Doba/Sp15/Ag04	4	Doba	2020	714965	1021330	skeletal Leptosols clayic
Oromia/CzT-Basalt_lower_flood/3222	3294	ET_Or/WH/Doba/Sp15/Ag05	4	Doba	2020	714785	1020807	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/3222	3304	ET_Or/WH/Doba/Sp18/Ag05	4	Doba	2020	711825	1020391	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3222	3308	ET_Or/WH/Doba/Sp18/Ag09	4	Doba	2020	712008	1020454	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/3222	3310	ET_Or/WH/Doba/Sp19/Ag01	4	Doba	2020	711496	1019222	skeletal Leptosols clayic
Oromia/CzT-Basalt_lower_flood/3222	3314	ET_Or/WH/Doba/Sp19/Ag05	4	Doba	2020	711585	1019745	lithic Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/3222	3315	ET_Or/WH/Doba/Sp19/Ag06	4	Doba	2020	711739	1019438	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/3222	3318	ET_Or/WH/Doba/Sp19/Ag09	4	Doba	2020	711858	1019961	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3222	3335	ET_Or/WH/Doba/SP16	1	Doba	2020	714630	1021175	calcic Luvisols
Oromia/CzT-Basalt_lower_flood/3222	3403	ET_OR/WH/DOBA/SP16/AG03	4	Doba	2020	714661	1021114	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3223	3428	ET_OR/WH/DOBA/SP20/AG08	4	Doba	2020	738167	1036616	calcaric Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3230	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/3310	3211	ET_Or/WH/Doba/SP02/Ag02	4	Doba	2020	731134	1028521	leptic Vertisols aric
Oromia/CzT-Basalt_lower_flood/3310	3229	ET_Or/WH/Doba/SP04/Ag10	4	Doba	2020	726058	1035283	lithic Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3310	3256	ET_Or/WH/Doba/SP09/Ag07	4	Doba	2020	722974	1014123	vertic leptic Luvisols clayic
Oromia/CzT-Basalt_lower_flood/3310	3341	ET_OR/WH/DOBA/SP01/AG01	4	Doba	2020	732206	1028005	vertic Luvisols clayic aric fluvic
Oromia/CzT-Basalt_lower_flood/3310	3360	ET_OR/WH/DOBA/SP03/AG10	4	Doba	2020	728613	1031549	skeletal Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3310	3397	ET_OR/WH/DOBA/SP13/AG07	4	Doba	2020	724898	1024859	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3321	3243	ET_Or/WH/Doba/SP08/Ag04	4	Doba	2020	718079	1021317	vertic Luvisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_lower_flood/3322	3216	ET_Or/WH/Doba/SP02/Ag07	4	Doba	2020	730885	1029319	haplic Vertisols cutanic
Oromia/CzT-Basalt_lower_flood/3322	3217	ET_Or/WH/Doba/SP02/Ag08	4	Doba	2020	729631	1029834	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3322	3218	ET_Or/WH/Doba/SP02/Ag09	4	Doba	2020	729995	1030113	leptic Vertisols aric
Oromia/CzT-Basalt_lower_flood/3322	3222	ET_Or/WH/Doba/SP04/Ag03	4	Doba	2020	726648	1033627	haplic Vertisols
Oromia/CzT-Basalt_lower_flood/3322	3224	ET_Or/WH/Doba/SP04/Ag05	4	Doba	2020	726856	1034458	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3322	3228	ET_Or/WH/Doba/SP04/Ag09	4	Doba	2020	726362	1035500	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3322	3240	ET_Or/WH/Doba/SP08/Ag01	4	Doba	2020	719783	1022371	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3322	3241	ET_Or/WH/Doba/SP08/Ag02	4	Doba	2020	720241	1022251	skeletal Leptosols loamic aric
Oromia/CzT-Basalt_lower_flood/3322	3248	ET_Or/WH/Doba/SP08/Ag09	4	Doba	2020	720700	1022161	nudilithic Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3322	3249	ET_Or/WH/Doba/SP08/Ag10	4	Doba	2020	720544	1022652	nudilithic Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3322	3251	ET_Or/WH/Doba/SP09/Ag02	4	Doba	2020	723643	1014588	eutric Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3322	3252	ET_Or/WH/Doba/SP09/Ag03	4	Doba	2020	723369	1014494	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/3322	3253	ET_Or/WH/Doba/SP09/Ag04	4	Doba	2020	723615	1014219	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/3322	3254	ET_Or/WH/Doba/SP09/Ag05	4	Doba	2020	723827	1014435	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/3322	3263	ET_Or/WH/Doba/Sp10/Ag04	4	Doba	2020	721262	1014513	skeletal Leptosols clayic
Oromia/CzT-Basalt_lower_flood/3322	3265	ET_Or/WH/Doba/Sp10/Ag06	4	Doba	2020	722671	1013783	lithic Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3322	3267	ET_Or/WH/Doba/Sp10/Ag08	4	Doba	2020	722578	1013998	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3322	3271	ET_Or/WH/Doba/Sp12/Ag02	4	Doba	2020	719433	1019358	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/3322	3281	ET_Or/WH/Doba/Sp14/Ag02	4	Doba	2020	715532	1018076	chromic vertic Luvisols clayic aric cutanic
Oromia/CzT-Basalt_lower_flood/3322	3285	ET_Or/WH/Doba/Sp14/Ag06	4	Doba	2020	714942	1019855	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3322	3286	ET_Or/WH/Doba/Sp14/Ag07	4	Doba	2020	715006	1019487	rhodic vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3322	3287	ET_Or/WH/Doba/Sp14/Ag08	4	Doba	2020	715309	1019765	rhodic vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3322	3289	ET_Or/WH/Doba/Sp14/Ag10	4	Doba	2020	715221	1019119	lithic Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/3322	3290	ET_Or/WH/Doba/Sp15/Ag01	4	Doba	2020	714910	1020162	calcaric Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3322	3320	ET_Or/WH/Doba/SP01	1	Doba	2020	731900	1028157	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/3322	3334	ET_Or/WH/Doba/SP15	1	Doba	2020	714974	1019671	haplic Luvisols
Oromia/CzT-Basalt_lower_flood/3322	3342	ET_OR/WH/DOBA/SP01/AG02	4	Doba	2020	732113	1028158	dystic Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3345	ET_OR/WH/DOBA/SP01/AG05	4	Doba	2020	731992	1028096	skeletal Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3353	ET_OR/WH/DOBA/SP03/AG03	4	Doba	2020	724995	1029161	skeletal Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3322	3357	ET_OR/WH/DOBA/SP03/AG07	4	Doba	2020	727457	1030958	dystic Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3358	ET_OR/WH/DOBA/SP03/AG08	4	Doba	2020	728002	1031637	dystic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3322	3366	ET_OR/WH/DOBA/SP05/AG06	4	Doba	2020	724222	1030816	leptic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3369	ET_OR/WH/DOBA/SP05/AG09	4	Doba	2020	726176	1030705	leptic Vertisols
Oromia/CzT-Basalt_lower_flood/3322	3378	ET_OR/WH/DOBA/SP06/AG08	4	Doba	2020	726555	1018107	calcic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3379	ET_OR/WH/DOBA/SP06/AG09	4	Doba	2020	726405	1017615	skeletal leptic Luvisols
Oromia/CzT-Basalt_lower_flood/3322	3380	ET_OR/WH/DOBA/SP06/AG10	4	Doba	2020	726041	1017183	skeletal leptic Luvisols
Oromia/CzT-Basalt_lower_flood/3322	3386	ET_OR/WH/DOBA/SP11/AG06	4	Doba	2020	721273	1023332	lithic Leptosols siltic
Oromia/CzT-Basalt_lower_flood/3322	3388	ET_OR/WH/DOBA/SP11/AG08	4	Doba	2020	720894	1014726	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3395	ET_OR/WH/DOBA/SP13/AG05	4	Doba	2020	727434	1024474	lithic Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3399	ET_OR/WH/DOBA/SP13/AG09	4	Doba	2020	723830	1024699	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3404	ET_OR/WH/DOBA/SP16/AG04	4	Doba	2020	714602	1020714	skeletal Leptosols aridic
Oromia/CzT-Basalt_lower_flood/3322	3405	ET_OR/WH/DOBA/SP16/AG05	4	Doba	2020	714544	1020191	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3322	3409	ET_OR/WH/DOBA/SP16/AG09	4	Doba	2020	715289	1017983	skeletal Leptosols siltic
Oromia/CzT-Basalt_lower_flood/3323	3220	ET_Or/WH/Doba/SP04/Ag01	4	Doba	2020	726615	1033965	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/3323	3225	ET_Or/WH/Doba/SP04/Ag06	4	Doba	2020	726792	1034980	lithic Leptosols arenic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_lower_flood/3323	3226	ET_Or/WH/Doba/SP04/Ag07	4	Doba	2020	726762	1034980	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3323	3257	ET_Or/WH/Doba/SP09/Ag08	4	Doba	2020	722822	1013968	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/3323	3261	ET_Or/WH/Doba/Sp10/Ag02	4	Doba	2020	721692	1013993	leptic Regosols arenic
Oromia/CzT-Basalt_lower_flood/3323	3268	ET_Or/WH/Doba/Sp10/Ag09	4	Doba	2020	722243	1013873	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3323	3299	ET_Or/WH/Doba/Sp15/Ag10	4	Doba	2020	715477	1017093	lithic Leptosols
Oromia/CzT-Basalt_lower_flood/3323	3322	ET_Or/WH/Doba/SP03	1	Doba	2020	726061	1029536	nudilithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3323	3325	ET_Or/WH/Doba/SP06	1	Doba	2020	726152	1019027	vertic Luvisols clayic aric fluvic
Oromia/CzT-Basalt_lower_flood/3323	3332	ET_Or/WH/Doba/SP13	1	Doba	2020	725905	1024803	skeletal Leptosols
Oromia/CzT-Basalt_lower_flood/3323	3344	ET_OR/WH/DOBA/SP01/AG04	4	Doba	2020	731836	1028526	skeletal Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3351	ET_OR/WH/DOBA/SP03/AG01	4	Doba	2020	725817	1029596	eutric Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3323	3352	ET_OR/WH/DOBA/SP03/AG02	4	Doba	2020	725420	1029502	skeletal Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3323	3354	ET_OR/WH/DOBA/SP03/AG04	4	Doba	2020	724630	1028975	skeletal Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3323	3356	ET_OR/WH/DOBA/SP03/AG06	4	Doba	2020	727188	1024810	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3372	ET_OR/WH/DOBA/SP06/AG02	4	Doba	2020	727093	1020047	eutric Leptosols clayic fluvic
Oromia/CzT-Basalt_lower_flood/3323	3373	ET_OR/WH/DOBA/SP06/AG03	4	Doba	2020	725568	1019731	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3375	ET_OR/WH/DOBA/SP06/AG05	4	Doba	2020	725749	1020100	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3376	ET_OR/WH/DOBA/SP06/AG06	4	Doba	2020	726490	1018752	leptic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3391	ET_OR/WH/DOBA/SP13/AG01	4	Doba	2020	726240	1024928	nudilithic Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3392	ET_OR/WH/DOBA/SP13/AG02	4	Doba	2020	726394	1024714	nudilithic Leptosols aridic
Oromia/CzT-Basalt_lower_flood/3323	3396	ET_OR/WH/DOBA/SP13/AG06	4	Doba	2020	725294	1025015	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3400	ET_OR/WH/DOBA/SP13/AG10	4	Doba	2020	724137	1024455	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3323	3406	ET_OR/WH/DOBA/SP16/AG06	4	Doba	2020	714547	1019669	leptic Vertisols
Oromia/CzT-Basalt_lower_flood/3323	3407	ET_OR/WH/DOBA/SP16/AG07	4	Doba	2020	714672	1019086	skeletal Leptosols siltic
Oromia/CzT-Basalt_lower_flood/3323	3408	ET_OR/WH/DOBA/SP16/AG08	4	Doba	2020	714919	1018472	skeletal Leptosols siltic
Oromia/CzT-Basalt_lower_flood/3330	3260	ET_Or/WH/Doba/Sp10/Ag01	4	Doba	2020	722089	1013964	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/3330	3266	ET_Or/WH/Doba/Sp10/Ag07	4	Doba	2020	722488	1013628	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/3330	3323	ET_Or/WH/Doba/SP04	1	Doba	2020	727068	1034828	nudilithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3330	3343	ET_OR/WH/DOBA/SP01/AG03	4	Doba	2020	732508	1028499	skeletal Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/3330	3359	ET_OR/WH/DOBA/SP03/AG09	4	Doba	2020	727398	1030651	skeletal Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3330	3371	ET_OR/WH/DOBA/SP06/AG01	4	Doba	2020	726728	1019829	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3330	3377	ET_OR/WH/DOBA/SP06/AG07	4	Doba	2020	726369	1018506	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3330	3381	ET_OR/WH/DOBA/SP11/AG01	4	Doba	2020	721538	1014299	lithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3330	3383	ET_OR/WH/DOBA/SP11/AG03	4	Doba	2020	722212	1013903	lithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3330	3384	ET_OR/WH/DOBA/SP11/AG04	4	Doba	2020	722610	1013660	lithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/3330	3387	ET_OR/WH/DOBA/SP11/AG07	4	Doba	2020	721109	1014543	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3330	3393	ET_OR/WH/DOBA/SP13/AG03	4	Doba	2020	726945	1024563	lithic Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3330	3398	ET_OR/WH/DOBA/SP13/AG08	4	Doba	2020	724746	1024673	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/3330	3410	ET_OR/WH/DOBA/SP16/AG10	4	Doba	2020	715077	1017644	skeletal Leptosols siltic
Oromia/CzT-Basalt_lower_flood/3410	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/3422	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/3423	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/3430	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/4200	3300	ET_Or/WH/Doba/Sp18/Ag01	4	Doba	2020	712379	1019626	skeletal chromic Luvisols clayic
Oromia/CzT-Basalt_lower_flood/4200	3301	ET_Or/WH/Doba/Sp18/Ag02	4	Doba	2020	712592	1019842	lithic Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/4200	3305	ET_Or/WH/Doba/Sp18/Ag06	4	Doba	2020	712864	1020243	lithic Leptosols arenic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_lower_flood/4200	3307	ET_Or/WH/Doba/Sp18/Ag08	4	Doba	2020	712313	1020548	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/4200	3316	ET_Or/WH/Doba/Sp19/Ag07	4	Doba	2020	712075	1019440	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/4200	3317	ET_Or/WH/Doba/Sp19/Ag08	4	Doba	2020	712225	1019841	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/4200	3319	ET_Or/WH/Doba/Sp19/Ag10	4	Doba	2020	711431	1019990	pellic Vertisols calcaric
Oromia/CzT-Basalt_lower_flood/4200	3324	ET_Or/WH/Doba/SP05	1	Doba	2020	723680	1029523	leptic Cambisols geoabruptic
Oromia/CzT-Basalt_lower_flood/4200	3336	ET_Or/WH/Doba/SP17	1	Doba	2020	713442	1020677	calcic Luvisols
Oromia/CzT-Basalt_lower_flood/4200	3338	ET_Or/WH/Doba/SP19	1	Doba	2020	711494	1019529	hyperskeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4200	3361	ET_OR/WH/DOBA/SP05/AG01	4	Doba	2020	723649	1029645	leptic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/4200	3362	ET_OR/WH/DOBA/SP05/AG02	4	Doba	2020	723374	1029613	leptic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/4200	3363	ET_OR/WH/DOBA/SP05/AG03	4	Doba	2020	723130	1029735	leptic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/4200	3364	ET_OR/WH/DOBA/SP05/AG04	4	Doba	2020	722580	1029793	leptic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/4200	3365	ET_OR/WH/DOBA/SP05/AG05	4	Doba	2020	722184	1029668	leptic Luvisols fluvic
Oromia/CzT-Basalt_lower_flood/4200	3401	ET_OR/WH/DOBA/SP16/AG01	4	Doba	2020	713898	1021048	lithic Leptosols
Oromia/CzT-Basalt_lower_flood/4200	3402	ET_OR/WH/DOBA/SP16/AG02	4	Doba	2020	713929	1020987	lithic Leptosols
Oromia/CzT-Basalt_lower_flood/4200	3411	ET_OR/WH/DOBA/SP17/AG01	4	Doba	2020	712835	1020059	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3412	ET_OR/WH/DOBA/SP17/AG02	4	Doba	2020	712835	1020090	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3414	ET_OR/WH/DOBA/SP17/AG04	4	Doba	2020	712829	1021165	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3415	ET_OR/WH/DOBA/SP17/AG05	4	Doba	2020	713194	1021351	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3417	ET_OR/WH/DOBA/SP17/AG07	4	Doba	2020	713105	1020798	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3418	ET_OR/WH/DOBA/SP17/AG08	4	Doba	2020	712955	1020490	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3419	ET_OR/WH/DOBA/SP17/AG09	4	Doba	2020	713291	1020430	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3420	ET_OR/WH/DOBA/SP17/AG10	4	Doba	2020	713869	1020833	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4200	3421	ET_OR/WH/DOBA/SP20/AG01	4	Doba	2020	739231	1037299	lithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4200	3423	ET_OR/WH/DOBA/SP20/AG03	4	Doba	2020	739418	1036746	calcaric Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4200	3429	ET_OR/WH/DOBA/SP20/AG09	4	Doba	2020	737956	1036123	calcaric Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4200	3430	ET_OR/WH/DOBA/SP20/AG10	4	Doba	2020	737501	1035720	endocalcaric Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4200	3431	ET_OR/WH/DOBA/SP21/AG01	4	Doba	2020	736898	1034457	eutric Nitisols
Oromia/CzT-Basalt_lower_flood/4200	3435	ET_OR/WH/DOBA/SP21/AG05	4	Doba	2020	736288	1034422	leptic Vertisols skeletal
Oromia/CzT-Basalt_lower_flood/4200	3437	ET_OR/WH/DOBA/SP21/AG07	4	Doba	2020	736109	1033745	dystic Nitisols
Oromia/CzT-Basalt_lower_flood/4200	3440	ET_OR/WH/DOBA/SP21/AG10	4	Doba	2020	735750	1032606	leptic Vertisols skeletal
Oromia/CzT-Basalt_lower_flood/4210	3427	ET_OR/WH/DOBA/SP20/AG07	4	Doba	2020	738531	1036956	calcaric Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4210	3432	ET_OR/WH/DOBA/SP21/AG02	4	Doba	2020	736744	1034702	calcic Vertisols skeletal
Oromia/CzT-Basalt_lower_flood/4230	3311	ET_Or/WH/Doba/Sp19/Ag02	4	Doba	2020	711098	1019466	nudiargic vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4230	3416	ET_OR/WH/DOBA/SP17/AG06	4	Doba	2020	713531	1021107	calcic Luvisols clayic aric hypereutric
Oromia/CzT-Basalt_lower_flood/4230	3424	ET_OR/WH/DOBA/SP20/AG04	4	Doba	2020	739019	1037021	calcaric Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4230	3425	ET_OR/WH/DOBA/SP20/AG05	4	Doba	2020	738925	1037389	calcaric Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4230	3426	ET_OR/WH/DOBA/SP20/AG06	4	Doba	2020	738406	1037416	lithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4300	3210	ET_Or/WH/Doba/SP02/Ag01	4	Doba	2020	729853	1028391	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/4300	3212	ET_Or/WH/Doba/SP02/Ag03	4	Doba	2020	730007	1028084	leptic Vertisols aric
Oromia/CzT-Basalt_lower_flood/4300	3213	ET_Or/WH/Doba/SP02/Ag04	4	Doba	2020	730434	1028210	vertic abruptic Luvisols clayic cutanic aric
Oromia/CzT-Basalt_lower_flood/4300	3215	ET_Or/WH/Doba/SP02/Ag06	4	Doba	2020	729636	1028943	haplic Vertisols cutanic
Oromia/CzT-Basalt_lower_flood/4300	3221	ET_Or/WH/Doba/SP04/Ag02	4	Doba	2020	727807	1033757	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/4300	3227	ET_Or/WH/Doba/SP04/Ag08	4	Doba	2020	726760	1035379	lithic Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4300	3230	ET_Or/WH/Doba/SP07/Ag01	4	Doba	2020	722688	1021589	calcaric Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4300	3231	ET_Or/WH/Doba/SP07/Ag02	4	Doba	2020	722777	1021958	vertic leptic Luvisols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_lower_flood/4300	3233	ET_Or/WH/Doba/SP07/Ag04	4	Doba	2020	723573	1021594	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/4300	3234	ET_Or/WH/Doba/SP07/Ag05	4	Doba	2020	723298	1021623	skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/4300	3235	ET_Or/WH/Doba/SP07/Ag06	4	Doba	2020	722292	1021402	vertic leptic Luvisols clayic
Oromia/CzT-Basalt_lower_flood/4300	3236	ET_Or/WH/Doba/SP07/Ag07	4	Doba	2020	721776	1020784	skeletal vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4300	3237	ET_Or/WH/Doba/SP07/Ag08	4	Doba	2020	722448	1020819	skeletal vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4300	3238	ET_Or/WH/Doba/SP07/Ag09	4	Doba	2020	722935	1021098	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4300	3239	ET_Or/WH/Doba/SP07/Ag10	4	Doba	2020	723149	1020915	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4300	3242	ET_Or/WH/Doba/SP08/Ag03	4	Doba	2020	719969	1021758	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/4300	3245	ET_Or/WH/Doba/SP08/Ag06	4	Doba	2020	720297	1023204	calcaric Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4300	3255	ET_Or/WH/Doba/SP09/Ag06	4	Doba	2020	723249	1014155	skeletal vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4300	3258	ET_Or/WH/Doba/SP09/Ag09	4	Doba	2020	722885	1013631	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/4300	3264	ET_Or/WH/Doba/Sp10/Ag05	4	Doba	2020	720993	1013466	skeletal Leptosols clayic
Oromia/CzT-Basalt_lower_flood/4300	3269	ET_Or/WH/Doba/Sp10/Ag10	4	Doba	2020	722118	1014272	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4300	3275	ET_Or/WH/Doba/Sp12/Ag06	4	Doba	2020	718654	1016680	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4300	3277	ET_Or/WH/Doba/Sp12/Ag08	4	Doba	2020	718689	1015912	pellic Vertisols
Oromia/CzT-Basalt_lower_flood/4300	3278	ET_Or/WH/Doba/Sp12/Ag09	4	Doba	2020	719207	1016099	pellic Vertisols
Oromia/CzT-Basalt_lower_flood/4300	3279	ET_Or/WH/Doba/Sp12/Ag10	4	Doba	2020	719388	1016469	pellic Vertisols
Oromia/CzT-Basalt_lower_flood/4300	3280	ET_Or/WH/Doba/Sp14/Ag01	4	Doba	2020	715565	1017769	chromic vertic Luvisols clayic aric cutanic
Oromia/CzT-Basalt_lower_flood/4300	3282	ET_Or/WH/Doba/Sp14/Ag03	4	Doba	2020	715960	1018109	chromic vertic Luvisols clayic aric cutanic
Oromia/CzT-Basalt_lower_flood/4300	3283	ET_Or/WH/Doba/Sp14/Ag04	4	Doba	2020	716328	1017773	vertic Cambisols loamic
Oromia/CzT-Basalt_lower_flood/4300	3284	ET_Or/WH/Doba/Sp14/Ag05	4	Doba	2020	716544	1017406	skeletal Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4300	3296	ET_Or/WH/Doba/Sp15/Ag07	4	Doba	2020	715904	1017034	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/4300	3297	ET_Or/WH/Doba/Sp15/Ag08	4	Doba	2020	715780	1017432	haplic Vertisols
Oromia/CzT-Basalt_lower_flood/4300	3321	ET_Or/WH/Doba/SP02	1	Doba	2020	729672	1028052	haplic Vertisols calcaric
Oromia/CzT-Basalt_lower_flood/4300	3326	ET_Or/WH/Doba/SP07	1	Doba	2020	723270	1021162	calcic Vertisols hypereutric
Oromia/CzT-Basalt_lower_flood/4300	3328	ET_Or/WH/Doba/SP09	1	Doba	2020	723189	1013909	vertic Luvisols clayic aric
Oromia/CzT-Basalt_lower_flood/4300	3333	ET_Or/WH/Doba/SP14	1	Doba	2020	715320	1017768	vertic Cambisols clayic
Oromia/CzT-Basalt_lower_flood/4300	3367	ET_OR/WH/DOBA/SP05/AG07	4	Doba	2020	724802	1030789	leptic Vertisols
Oromia/CzT-Basalt_lower_flood/4300	3368	ET_OR/WH/DOBA/SP05/AG08	4	Doba	2020	725443	1030793	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/4300	3374	ET_OR/WH/DOBA/SP06/AG04	4	Doba	2020	725594	1020499	eutric Leptosols clayic fluvic
Oromia/CzT-Basalt_lower_flood/4300	3385	ET_OR/WH/DOBA/SP11/AG05	4	Doba	2020	722886	1013477	lithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4300	3389	ET_OR/WH/DOBA/SP11/AG09	4	Doba	2020	720372	1015214	lithic Leptosols siltic
Oromia/CzT-Basalt_lower_flood/4300	3390	ET_OR/WH/DOBA/SP11/AG10	4	Doba	2020	720497	1014846	skeletal Leptosols fluvic
Oromia/CzT-Basalt_lower_flood/4300	3394	ET_OR/WH/DOBA/SP13/AG04	4	Doba	2020	728072	1024877	lithic Leptosols aridic
Oromia/CzT-Basalt_lower_flood/4310	3247	ET_Or/WH/Doba/SP08/Ag08	4	Doba	2020	720641	1021700	nudilithic Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4310	3295	ET_Or/WH/Doba/Sp15/Ag06	4	Doba	2020	716270	1017189	haplic Vertisols cutanic
Oromia/CzT-Basalt_lower_flood/4330	3244	ET_Or/WH/Doba/SP08/Ag05	4	Doba	2020	720399	1021330	skeletal Leptosols clayic
Oromia/CzT-Basalt_lower_flood/4330	3246	ET_Or/WH/Doba/SP08/Ag07	4	Doba	2020	720634	1022960	nudilithic Leptosols arenic
Oromia/CzT-Basalt_lower_flood/4330	3250	ET_Or/WH/Doba/SP09/Ag01	4	Doba	2020	723768	1014127	cambic skeletal Leptosols arenic aric
Oromia/CzT-Basalt_lower_flood/4330	3259	ET_Or/WH/Doba/SP09/Ag10	4	Doba	2020	723160	1013663	pellic Vertisols
Oromia/CzT-Basalt_lower_flood/4330	3262	ET_Or/WH/Doba/Sp10/Ag03	4	Doba	2020	721477	1014268	skeletal Leptosols clayic
Oromia/CzT-Basalt_lower_flood/4330	3327	ET_Or/WH/Doba/SP08	1	Doba	2020	720456	1022129	hyperskeletal Cambisols loamic
Oromia/CzT-Basalt_lower_flood/4330	3329	ET_Or/WH/Doba/SP10	1	Doba	2020	721875	1014117	hyperskeletal Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4330	3330	ET_Or/WH/Doba/SP11	1	Doba	2020	721385	1014268	nudilithic Leptosols loamic
Oromia/CzT-Basalt_lower_flood/4330	3382	ET_OR/WH/DOBA/SP11/AG02	4	Doba	2020	721844	1014116	nudilithic Leptosols loamic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_lower_flood/4400	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/4410	0		0		0	0	0	
Oromia/CzT-Basalt_lower_flood/4430	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/1001	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/1002	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/1003	3013	ET_Or/Ar/Sire/SP14	1	Sire	2020	552461	915990	calcic Vertisols hypereutric
Oromia/CzT-Basalt_upper_flood/1004	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/2100	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/2110	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/2130	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/2200	3017	ET_Or/Ar/Sire/SP18	1	Sire	2020	547659	915401	calcic Luvisols clayic hypereutric
Oromia/CzT-Basalt_upper_flood/2200	3150	ET_Or/Ar/Sire/SP14/Ag_01	4	Sire	2020	552736	915960	calcaric Cambisols arenic
Oromia/CzT-Basalt_upper_flood/2200	3152	ET_Or/Ar/Sire/SP14/Ag_03	4	Sire	2020	552247	915775	vertic Cambisols clayic
Oromia/CzT-Basalt_upper_flood/2200	3153	ET_Or/Ar/Sire/SP14/Ag_04	4	Sire	2020	551941	915867	vertic Cambisols clayic
Oromia/CzT-Basalt_upper_flood/2200	3154	ET_Or/Ar/Sire/SP14/Ag_05	4	Sire	2020	551971	916266	vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/2200	3155	ET_Or/Ar/Sire/SP14/Ag_06	4	Sire	2020	552001	916696	haplic Vertisols cutanic
Oromia/CzT-Basalt_upper_flood/2200	3156	ET_Or/Ar/Sire/SP14/Ag_07	4	Sire	2020	552338	916789	haplic Vertisols
Oromia/CzT-Basalt_upper_flood/2200	3157	ET_Or/Ar/Sire/SP14/Ag_08	4	Sire	2020	552766	916574	skeletal vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/2200	3158	ET_Or/Ar/Sire/SP14/Ag_09	4	Sire	2020	553011	916237	skeletal vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/2200	3159	ET_Or/Ar/Sire/SP14/Ag_10	4	Sire	2020	552614	916298	vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/2200	3177	ET_Or/Ar/Sire/SP16/Ag_08	4	Sire	2020	546805	913312	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/2200	3178	ET_Or/Ar/Sire/SP16/Ag_09	4	Sire	2020	547080	913712	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/2200	3179	ET_Or/Ar/Sire/SP16/Ag_10	4	Sire	2020	547600	913528	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/2210	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/2230	3180	ET_Or/Ar/Sire/SP17/Ag_01	4	Sire	2020	548485	915034	vertic Cambisols clayic
Oromia/CzT-Basalt_upper_flood/2300	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/2330	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3110	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3121	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3122	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3123	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3130	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3210	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3221	3151	ET_Or/Ar/Sire/SP14/Ag_02	4	Sire	2020	552645	915714	rhodic vertic Cambisols clayic
Oromia/CzT-Basalt_upper_flood/3221	3183	ET_Or/Ar/Sire/SP17/Ag_04	4	Sire	2020	549157	916416	lithic Leptosols aric
Oromia/CzT-Basalt_upper_flood/3222	3016	ET_Or/Ar/Sire/SP17	1	Sire	2020	548668	915464	skeletal Leptosols loamic
Oromia/CzT-Basalt_upper_flood/3222	3081	ET_Or/Ar/Sire/SP07/Ag_02	4	Sire	2020	556044	913169	leptic Vertisols skeletal
Oromia/CzT-Basalt_upper_flood/3222	3181	ET_Or/Ar/Sire/SP17/Ag_02	4	Sire	2020	548730	915556	lithic Leptosols aric
Oromia/CzT-Basalt_upper_flood/3222	3182	ET_Or/Ar/Sire/SP17/Ag_03	4	Sire	2020	548821	915925	lithic Leptosols aric
Oromia/CzT-Basalt_upper_flood/3222	3184	ET_Or/Ar/Sire/SP17/Ag_05	4	Sire	2020	549646	916785	lithic Leptosols aric
Oromia/CzT-Basalt_upper_flood/3223	3082	ET_Or/Ar/Sire/SP07/Ag_03	4	Sire	2020	555677	913169	skeletal Leptosols loamic
Oromia/CzT-Basalt_upper_flood/3223	3084	ET_Or/Ar/Sire/SP07/Ag_05	4	Sire	2020	555799	912893	skeletal leptic Regosols loamic
Oromia/CzT-Basalt_upper_flood/3230	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3310	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/3322	3056	ET_Or/Ar/Sire/SP04/Ag_07	4	Sire	2020	556839	912894	pellic Vertisols skeletal

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_upper_flood/3322	3083	ET_Or/Ar/Sire/SP07/Ag_04	4	Sire	2020	555585	912923	chromic vertic Luvisols clayic aric cutanic
Oromia/CzT-Basalt_upper_flood/3322	3085	ET_Or/Ar/Sire/SP07/Ag_06	4	Sire	2020	556594	913569	skeletal vertic Luvisols clayic aric
Oromia/CzT-Basalt_upper_flood/3323	3052	ET_Or/Ar/Sire/SP04/Ag_03	4	Sire	2020	558398	913879	rhodic Nitisols aric
Oromia/CzT-Basalt_upper_flood/3330	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/4200	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/4210	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/4230	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/4300	3004	ET_Or/Ar/Sire/SP05	1	Sire	2020	557390	912956	eutric mollic vitric Andosols clayic
Oromia/CzT-Basalt_upper_flood/4300	3051	ET_Or/Ar/Sire/SP04/Ag_02	4	Sire	2020	557971	913448	chromic vertic Luvisols clayic cutanic
Oromia/CzT-Basalt_upper_flood/4300	3053	ET_Or/Ar/Sire/SP04/Ag_04	4	Sire	2020	558857	914125	pellic Vertisols aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Basalt_upper_flood/4300	3057	ET_Or/Ar/Sire/SP04/Ag_08	4	Sire	2020	556779	912464	vertic Cambisols clayic
Oromia/CzT-Basalt_upper_flood/4310	0		0		0	0	0	
Oromia/CzT-Basalt_upper_flood/4330	3054	ET_Or/Ar/Sire/SP04/Ag_05	4	Sire	2020	559285	914371	pellic Vertisols aric
Oromia/CzT-Basalt_upper_flood/4330	3088	ET_Or/Ar/Sire/SP07/Ag_09	4	Sire	2020	556441	913354	lithic Leptosols aric
Oromia/CzT-Ignimbrite_welded/1002	2961	ET_OR/WA/AN/SP11/AG02	4	Arsi negele	2020	479481	790458	dystric Nitisols aric
Oromia/CzT-Ignimbrite_welded/1002	2962	ET_OR/WA/AN/SP11/AG03	4	Arsi negele	2020	479727	790519	chromic Vertisols skeletal
Oromia/CzT-Ignimbrite_welded/1003	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/1004	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/2200	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/2210	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/2230	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/2300	2857	ET_Or/WA/AN/SP12	1	Arsi Negele	2020	479482	791502	vertic abruptic Luvisols clayic
Oromia/CzT-Ignimbrite_welded/2300	2970	ET_OR/WA/AN/SP12/AG01	4	Arsi Negele	2020	479420	791410	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/2300	2979	ET_OR/WA/AN/SP12/AG10	4	Arsi Negele	2020	479880	791318	luvic Nitisols
Oromia/CzT-Ignimbrite_welded/2300	2980	ET_OR/WA/AN/SP13/AG01	4	Arsi Negele	2020	480218	793252	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/2300	2987	ET_OR/WA/AN/SP13/AG08	4	Arsi Negele	2020	479789	793283	haplic Luvisols aric
Oromia/CzT-Ignimbrite_welded/2300	2989	ET_OR/WA/AN/SP13/AG10	4	Arsi Negele	2020	479482	792577	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/2310	2859	ET_Or/WA/AN/SP14	1	Arsi Negele	2020	478050	792525	hyperskeletal Leptosols fluvic
Oromia/CzT-Ignimbrite_welded/2310	2971	ET_OR/WA/AN/SP12/AG02	4	Arsi Negele	2020	479022	791379	luvic Nitisols
Oromia/CzT-Ignimbrite_welded/2310	2988	ET_OR/WA/AN/SP13/AG09	4	Arsi Negele	2020	479574	792976	haplic Luvisols aric
Oromia/CzT-Ignimbrite_welded/2310	2990	ET_OR/WA/AN/SP14/AG01	4	Arsi negele	2020	478041	792608	calcaric Leptosols loamic
Oromia/CzT-Ignimbrite_welded/2310	2991	ET_OR/WA/AN/SP14/AG02	4	Arsi negele	2020	478255	792762	calcaric Leptosols loamic
Oromia/CzT-Ignimbrite_welded/2310	2992	ET_OR/WA/AN/SP14/AG03	4	Arsi negele	2020	478470	792516	calcaric Leptosols loamic
Oromia/CzT-Ignimbrite_welded/2330	2858	ET_Or/WA/AN/SP13	1	Arsi Negele	2020	480004	792945	skeletal Luvisols fluvic
Oromia/CzT-Ignimbrite_welded/2330	2981	ET_OR/WA/AN/SP13/AG02	4	Arsi Negele	2020	480403	793620	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/3210	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/3221	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/3222	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/3223	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/3230	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Ignimbrite_welded/3310	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/3322	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/3323	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/3330	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/4200	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/4210	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/4230	0		0		0	0	0	
Oromia/CzT-Ignimbrite_welded/4300	2856	ET_Or/WA/AN/SP11	1	Arsi Negele	2020	479481	790817	dystic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4300	2960	ET_OR/WA/AN/SP11/AG01	4	Arsi negele	2020	479267	790458	dystic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4300	2963	ET_OR/WA/AN/SP11/AG04	4	Arsi negele	2020	480033	790581	chromic Vertisols skeletal
Oromia/CzT-Ignimbrite_welded/4300	2964	ET_OR/WA/AN/SP11/AG05	4	Arsi negele	2020	480279	790703	dystic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4300	2969	ET_OR/WA/AN/SP11/AG10	4	Arsi negele	2020	479758	791256	chromic Vertisols skeletal
Oromia/CzT-Ignimbrite_welded/4300	2973	ET_OR/WA/AN/SP12/AG04	4	Arsi Negele	2020	478255	791687	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4300	2974	ET_OR/WA/AN/SP12/AG05	4	Arsi Negele	2020	478439	792055	luvic Nitisols
Oromia/CzT-Ignimbrite_welded/4300	2975	ET_OR/WA/AN/SP12/AG06	4	Arsi Negele	2020	478868	792147	luvic Nitisols
Oromia/CzT-Ignimbrite_welded/4300	2977	ET_OR/WA/AN/SP12/AG08	4	Arsi Negele	2020	479697	792239	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4300	2978	ET_OR/WA/AN/SP12/AG09	4	Arsi Negele	2020	479850	791747	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4300	2993	ET_OR/WA/AN/SP14/AG04	4	Arsi negele	2020	478685	792792	calcaric Leptosols loamic
Oromia/CzT-Ignimbrite_welded/4300	2994	ET_OR/WA/AN/SP14/AG05	4	Arsi negele	2020	478899	792945	skeletal Leptosols siltic
Oromia/CzT-Ignimbrite_welded/4310	2968	ET_OR/WA/AN/SP11/AG09	4	Arsi negele	2020	480095	791317	dystic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4310	2972	ET_OR/WA/AN/SP12/AG03	4	Arsi Negele	2020	478592	791533	luvic Nitisols aric
Oromia/CzT-Ignimbrite_welded/4310	2976	ET_OR/WA/AN/SP12/AG07	4	Arsi Negele	2020	479298	792147	luvic Nitisols
Oromia/CzT-Ignimbrite_welded/4310	2999	ET_OR/WA/AN/SP14/AG10	4	Arsi negele	2020	479359	792116	skeletal vertic Luvisols loamic
Oromia/CzT-Ignimbrite_welded/4330	2965	ET_OR/WA/AN/SP11/AG06	4	Arsi negele	2020	480494	790887	chromic Vertisols skeletal
Oromia/CzT-Pyroclast_tuff_ignimbrite/1001	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/1002	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/1003	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/1004	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3007	ET_Or/Ar/Sire/SP08	1	Sire	2020	552818	924405	eutric Leptosols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3012	ET_Or/Ar/Sire/SP13	1	Sire	2020	553158	921611	calcic vertic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3018	ET_Or/Ar/Sire/SP19	1	Sire	2020	544814	915490	hyperskeletal Leptosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3090	ET_Or/Ar/Sire/SP08/Ag_01	4	Sire	2020	552696	924129	vertic Luvisols cutanic nitic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3091	ET_Or/Ar/Sire/SP08/Ag_02	4	Sire	2020	553185	924160	vertic Luvisols cutanic nitic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3095	ET_Or/Ar/Sire/SP08/Ag_06	4	Sire	2020	552543	924405	leptic Andosols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3131	ET_Or/Ar/Sire/SP12/Ag_02	4	Sire	2020	554316	924469	endocalcaric nudiargic vertic Luvisols clayic cutanic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3132	ET_Or/Ar/Sire/SP12/Ag_03	4	Sire	2020	554133	924069	endocalcaric chromic vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3133	ET_Or/Ar/Sire/SP12/Ag_04	4	Sire	2020	553736	923946	endocalcaric chromic vertic Luvisols siltic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3134	ET_Or/Ar/Sire/SP12/Ag_05	4	Sire	2020	553247	924007	endocalcaric chromic vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3140	ET_Or/Ar/Sire/SP13/Ag_01	4	Sire	2020	552636	923330	endocalcaric chromic vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3141	ET_Or/Ar/Sire/SP13/Ag_02	4	Sire	2020	552422	922931	endocalcaric chromic vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3142	ET_Or/Ar/Sire/SP13/Ag_03	4	Sire	2020	552698	922470	endocalcaric chromic vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3143	ET_Or/Ar/Sire/SP13/Ag_04	4	Sire	2020	553126	922410	endocalcaric chromic vertic Luvisols siltic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3144	ET_Or/Ar/Sire/SP13/Ag_05	4	Sire	2020	553493	922287	endocalcaric chromic leptic Luvisols siltic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3145	ET_Or/Ar/Sire/SP13/Ag_06	4	Sire	2020	552941	923515	haplic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3146	ET_Or/Ar/Sire/SP13/Ag_07	4	Sire	2020	553247	923577	endocalcaric rhodic vertic Luvisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3147	ET_Or/Ar/Sire/SP13/Ag_08	4	Sire	2020	553523	923270	endocalcaric rhodic vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3148	ET_Or/Ar/Sire/SP13/Ag_09	4	Sire	2020	553829	922963	leptic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3149	ET_Or/Ar/Sire/SP13/Ag_10	4	Sire	2020	553462	922625	endocalcaric leptic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3195	ET_Or/Ar/Sire/SP19/Ag_01	4	Sire	2020	544722	915613	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3196	ET_Or/Ar/Sire/SP19/Ag_02	4	Sire	2020	544844	916013	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3198	ET_Or/Ar/Sire/SP19/Ag_04	4	Sire	2020	545333	916842	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3203	ET_Or/Ar/Sire/SP19/Ag_09	4	Sire	2020	544539	914968	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2100	3204	ET_Or/Ar/Sire/SP19/Ag_10	4	Sire	2020	544386	915244	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2110	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/2130	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3009	ET_Or/Ar/Sire/SP10	1	Sire	2020	557752	916734	calcaric Leptosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3011	ET_Or/Ar/Sire/SP12	1	Sire	2020	553949	925082	calcic Luvisols clayic hypereutric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3015	ET_Or/Ar/Sire/SP16	1	Sire	2020	547937	913068	calcic Luvisols clayic hypereutric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3030	ET_Or/Ar/Sire/SP02/Ag_01	4	Sire	2020	557874	916980	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3031	ET_Or/Ar/Sire/SP02/Ag_02	4	Sire	2020	557629	917287	chromic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3032	ET_Or/Ar/Sire/SP02/Ag_03	4	Sire	2020	557170	917440	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3034	ET_Or/Ar/Sire/SP02/Ag_05	4	Sire	2020	557140	916764	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3092	ET_Or/Ar/Sire/SP08/Ag_03	4	Sire	2020	553521	924468	vertic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3093	ET_Or/Ar/Sire/SP08/Ag_04	4	Sire	2020	553368	924836	endocalcaric vertic Luvisols clayic hypereutric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3094	ET_Or/Ar/Sire/SP08/Ag_05	4	Sire	2020	553673	925113	pellic Vertisols
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3098	ET_Or/Ar/Sire/SP08/Ag_09	4	Sire	2020	553000	925388	endocalcaric vertic Luvisols clayic hypereutric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3099	ET_Or/Ar/Sire/SP08/Ag_10	4	Sire	2020	553123	924836	leptic Andosols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3117	ET_Or/Ar/Sire/SP10/Ag_08	4	Sire	2020	557539	916242	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3118	ET_Or/Ar/Sire/SP10/Ag_09	4	Sire	2020	557262	917378	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3120	ET_Or/Ar/Sire/SP11/Ag_01	4	Sire	2020	556697	928403	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3125	ET_Or/Ar/Sire/SP11/Ag_06	4	Sire	2020	557368	929724	calcaric lithic Leptosols arenic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3126	ET_Or/Ar/Sire/SP11/Ag_07	4	Sire	2020	557736	929264	calcaric lithic Leptosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3129	ET_Or/Ar/Sire/SP11/Ag_10	4	Sire	2020	556819	928280	vertic Cambisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3130	ET_Or/Ar/Sire/SP12/Ag_01	4	Sire	2020	554102	924837	leptic abruptic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3135	ET_Or/Ar/Sire/SP12/Ag_06	4	Sire	2020	553764	925696	endocalcaric chromic vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3136	ET_Or/Ar/Sire/SP12/Ag_07	4	Sire	2020	553979	925328	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3137	ET_Or/Ar/Sire/SP12/Ag_08	4	Sire	2020	553306	925481	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3138	ET_Or/Ar/Sire/SP12/Ag_09	4	Sire	2020	553184	924928	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3139	ET_Or/Ar/Sire/SP12/Ag_10	4	Sire	2020	553368	924713	endocalcaric skeletal vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3160	ET_Or/Ar/Sire/SP15/Ag_01	4	Sire	2020	546501	911500	pellic Vertisols
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3161	ET_Or/Ar/Sire/SP15/Ag_02	4	Sire	2020	546256	911899	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3162	ET_Or/Ar/Sire/SP15/Ag_03	4	Sire	2020	545949	912175	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3163	ET_Or/Ar/Sire/SP15/Ag_04	4	Sire	2020	546163	912636	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3164	ET_Or/Ar/Sire/SP15/Ag_05	4	Sire	2020	546591	912452	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3165	ET_Or/Ar/Sire/SP15/Ag_06	4	Sire	2020	546959	912237	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3166	ET_Or/Ar/Sire/SP15/Ag_07	4	Sire	2020	547265	911992	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3167	ET_Or/Ar/Sire/SP15/Ag_08	4	Sire	2020	547021	911593	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3168	ET_Or/Ar/Sire/SP15/Ag_09	4	Sire	2020	546990	911255	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3169	ET_Or/Ar/Sire/SP15/Ag_10	4	Sire	2020	546562	911193	endocalcaric vertic abruptic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3170	ET_Or/Ar/Sire/SP16/Ag_01	4	Sire	2020	548090	913252	endocalcaric vertic abruptic Luvisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3171	ET_Or/Ar/Sire/SP16/Ag_02	4	Sire	2020	548243	912976	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3172	ET_Or/Ar/Sire/SP16/Ag_03	4	Sire	2020	548519	912516	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3173	ET_Or/Ar/Sire/SP16/Ag_04	4	Sire	2020	548121	912269	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3175	ET_Or/Ar/Sire/SP16/Ag_06	4	Sire	2020	547234	912576	skeletal vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3176	ET_Or/Ar/Sire/SP16/Ag_07	4	Sire	2020	546775	912882	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3185	ET_Or/Ar/Sire/SP18/Ag_01	4	Sire	2020	545487	915215	leptic Andosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3186	ET_Or/Ar/Sire/SP18/Ag_02	4	Sire	2020	545579	915583	leptic Andosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3187	ET_Or/Ar/Sire/SP18/Ag_03	4	Sire	2020	545823	915706	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3188	ET_Or/Ar/Sire/SP18/Ag_04	4	Sire	2020	546099	915615	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3189	ET_Or/Ar/Sire/SP18/Ag_05	4	Sire	2020	546282	915400	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3190	ET_Or/Ar/Sire/SP18/Ag_06	4	Sire	2020	546436	915093	endocalcaric vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3191	ET_Or/Ar/Sire/SP18/Ag_07	4	Sire	2020	546130	914785	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3192	ET_Or/Ar/Sire/SP18/Ag_08	4	Sire	2020	545916	914570	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3193	ET_Or/Ar/Sire/SP18/Ag_09	4	Sire	2020	545641	914785	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3194	ET_Or/Ar/Sire/SP18/Ag_10	4	Sire	2020	545855	915031	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2200	3199	ET_Or/Ar/Sire/SP19/Ag_05	4	Sire	2020	545608	916689	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2210	3014	ET_Or/Ar/Sire/SP15	1	Sire	2020	546653	911776	calcic Vertisols hypereutric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2230	3127	ET_Or/Ar/Sire/SP11/Ag_08	4	Sire	2020	557553	928864	calcaric lithic Leptosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2230	3174	ET_Or/Ar/Sire/SP16/Ag_05	4	Sire	2020	547632	912269	skeletal vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3005	ET_Or/Ar/Sire/SP06	1	Sire	2020	559104	912037	vertic Luvisols clayic nitic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3055	ET_Or/Ar/Sire/SP04/Ag_06	4	Sire	2020	557482	912741	vertic Cambisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3059	ET_Or/Ar/Sire/SP04/Ag_10	4	Sire	2020	557208	912157	skeletal Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3070	ET_Or/Ar/Sire/SP06/Ag_01	4	Sire	2020	559380	911945	pellic Vertisols stagnic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3071	ET_Or/Ar/Sire/SP06/Ag_02	4	Sire	2020	559624	912376	pellic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3072	ET_Or/Ar/Sire/SP06/Ag_03	4	Sire	2020	559348	912774	pellic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3074	ET_Or/Ar/Sire/SP06/Ag_05	4	Sire	2020	558186	912742	pellic Vertisols stagnic
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3075	ET_Or/Ar/Sire/SP06/Ag_06	4	Sire	2020	558983	911699	haplic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3076	ET_Or/Ar/Sire/SP06/Ag_07	4	Sire	2020	558585	911760	haplic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3077	ET_Or/Ar/Sire/SP06/Ag_08	4	Sire	2020	558065	911667	haplic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3078	ET_Or/Ar/Sire/SP06/Ag_09	4	Sire	2020	557636	911974	pellic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2300	3079	ET_Or/Ar/Sire/SP06/Ag_10	4	Sire	2020	557972	912373	pellic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/2310	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/2330	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/3110	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/3121	3019	ET_Or/Ar/Sire/SP20	1	Sire	2020	544233	915428	calcaric Leptosols arenic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3121	3197	ET_Or/Ar/Sire/SP19/Ag_03	4	Sire	2020	545119	916443	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3121	3202	ET_Or/Ar/Sire/SP19/Ag_08	4	Sire	2020	544937	915276	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3121	3205	ET_Or/Ar/Sire/SP20/Ag_01	4	Sire	2020	544172	915091	hyperskeletal Leptosols loamic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3121	3206	ET_Or/Ar/Sire/SP20/Ag_02	4	Sire	2020	544172	915336	hyperskeletal Leptosols loamic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3121	3209	ET_Or/Ar/Sire/SP20/Ag_05	4	Sire	2020	544508	915552	hyperskeletal Leptosols loamic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3122	3208	ET_Or/Ar/Sire/SP20/Ag_04	4	Sire	2020	544202	915674	hyperskeletal Leptosols loamic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3123	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/3130	3207	ET_Or/Ar/Sire/SP20/Ag_03	4	Sire	2020	543866	915582	hyperskeletal Leptosols loamic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3210	3008	ET_Or/Ar/Sire/SP09	1	Sire	2020	560015	917597	calcic vertic Luvisols clayic hypereutric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3210	3105	ET_Or/Ar/Sire/SP09/Ag_06	4	Sire	2020	559709	917719	lithic Leptosols aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3010	ET_Or/Ar/Sire/SP11	1	Sire	2020	556910	929447	calcaric Leptosols loamic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3021	ET_Or/Ar/Sire/SP01/Ag_02	4	Sire	2020	554636	913290	irragric Vertisols aric calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3039	ET_Or/Ar/Sire/SP02/Ag_10	4	Sire	2020	554911	913690	vertic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3121	ET_Or/Ar/Sire/SP11/Ag_02	4	Sire	2020	556787	929508	skeletal Leptosols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3122	ET_Or/Ar/Sire/SP11/Ag_03	4	Sire	2020	556604	929109	leptic Regosols
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3123	ET_Or/Ar/Sire/SP11/Ag_04	4	Sire	2020	556482	928709	calcaric lithic Leptosols
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3124	ET_Or/Ar/Sire/SP11/Ag_05	4	Sire	2020	557093	929785	calcaric skeletal Regosols
Oromia/CzT-Pyroclast_tuff_ignimbrite/3221	3200	ET_Or/Ar/Sire/SP19/Ag_06	4	Sire	2020	545578	916228	vertic Luvisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3001	ET_Or/Ar/Sire/SP02	1	Sire	2020	556746	914337	eutric mollic Leptosols
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3023	ET_Or/Ar/Sire/SP01/Ag_04	4	Sire	2020	554207	913966	rhodic vertic Luvisols clayic cutanic nitic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3024	ET_Or/Ar/Sire/SP01/Ag_05	4	Sire	2020	554390	914273	lithic Leptosols
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3035	ET_Or/Ar/Sire/SP02/Ag_06	4	Sire	2020	555369	914428	eutric vertic leptic Cambisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3036	ET_Or/Ar/Sire/SP02/Ag_07	4	Sire	2020	555094	914581	skeletal Leptosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3037	ET_Or/Ar/Sire/SP02/Ag_08	4	Sire	2020	555125	914182	skeletal Leptosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3038	ET_Or/Ar/Sire/SP02/Ag_09	4	Sire	2020	554819	913782	vertic leptic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3100	ET_Or/Ar/Sire/SP09/Ag_01	4	Sire	2020	560260	917474	pellic Vertisols skeletal
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3101	ET_Or/Ar/Sire/SP09/Ag_02	4	Sire	2020	559954	917136	leptic Vertisols skeletal
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3102	ET_Or/Ar/Sire/SP09/Ag_03	4	Sire	2020	559587	916890	chromic vertic leptic Luvisols clayic cutanic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3103	ET_Or/Ar/Sire/SP09/Ag_04	4	Sire	2020	559189	917074	endocalcaric rhodic vertic Luvisols clayic cutanic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3106	ET_Or/Ar/Sire/SP09/Ag_07	4	Sire	2020	559342	917381	vertic Cambisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3107	ET_Or/Ar/Sire/SP09/Ag_08	4	Sire	2020	559127	917934	vertic Cambisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3108	ET_Or/Ar/Sire/SP09/Ag_09	4	Sire	2020	559585	918303	vertic Cambisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3109	ET_Or/Ar/Sire/SP09/Ag_10	4	Sire	2020	559892	917996	calcaric lithic Leptosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3115	ET_Or/Ar/Sire/SP10/Ag_06	4	Sire	2020	558058	916704	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3116	ET_Or/Ar/Sire/SP10/Ag_07	4	Sire	2020	557967	916396	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3119	ET_Or/Ar/Sire/SP10/Ag_10	4	Sire	2020	556683	915811	endocalcaric vertic Luvisols clayic hypereutric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3128	ET_Or/Ar/Sire/SP11/Ag_09	4	Sire	2020	557309	928250	calcaric lithic Leptosols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3222	3201	ET_Or/Ar/Sire/SP19/Ag_07	4	Sire	2020	545303	915890	Andosols siltic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3223	3000	ET_Or/Ar/Sire/SP01	1	Sire	2020	555554	913077	hyperskeletal Leptosols loamic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3223	3025	ET_Or/Ar/Sire/SP01/Ag_06	4	Sire	2020	555279	912892	skeletal Leptosols arenic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3223	3026	ET_Or/Ar/Sire/SP01/Ag_07	4	Sire	2020	555127	912677	skeletal Cambisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3223	3027	ET_Or/Ar/Sire/SP01/Ag_08	4	Sire	2020	554882	912492	skeletal Leptosols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3223	3028	ET_Or/Ar/Sire/SP01/Ag_09	4	Sire	2020	554699	912185	skeletal Leptosols aric aridic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3223	3029	ET_Or/Ar/Sire/SP01/Ag_10	4	Sire	2020	554454	911878	skeletal Leptosols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3223	3033	ET_Or/Ar/Sire/SP02/Ag_04	4	Sire	2020	555794	917192	irragric Vertisols aric calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3230	3022	ET_Or/Ar/Sire/SP01/Ag_03	4	Sire	2020	554422	913782	rhodic vertic Luvisols clayic cutanic nitic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3230	3104	ET_Or/Ar/Sire/SP09/Ag_05	4	Sire	2020	558944	917411	chromic leptic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3310	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/3321	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/3322	3006	ET_Or/Ar/Sire/SP07	1	Sire	2020	556136	912525	vertic Luvisols clayic nitic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3322	3086	ET_Or/Ar/Sire/SP07/Ag_07	4	Sire	2020	557175	913324	vertic Cambisols clayic aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3322	3113	ET_Or/Ar/Sire/SP10/Ag_04	4	Sire	2020	555036	911510	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/3323	3080	ET_Or/Ar/Sire/SP07/Ag_01	4	Sire	2020	556105	912770	leptic Regosols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3323	3089	ET_Or/Ar/Sire/SP07/Ag_10	4	Sire	2020	556228	912893	vertic Luvisols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/3330	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Pyroclast_tuff_ignimbrite/4200	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/4210	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/4230	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3050	ET_Or/Ar/Sire/SP04/Ag_01	4	Sire	2020	557726	913079	pellic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3058	ET_Or/Ar/Sire/SP04/Ag_09	4	Sire	2020	556382	912003	lithic Leptosols clayic
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3073	ET_Or/Ar/Sire/SP06/Ag_04	4	Sire	2020	558736	913111	chromic vertic Luvisols clayic aric cutanic
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3087	ET_Or/Ar/Sire/SP07/Ag_08	4	Sire	2020	556809	913078	haplic Vertisols aric
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3110	ET_Or/Ar/Sire/SP10/Ag_01	4	Sire	2020	556472	912863	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3111	ET_Or/Ar/Sire/SP10/Ag_02	4	Sire	2020	555892	912371	haplic Vertisols
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3112	ET_Or/Ar/Sire/SP10/Ag_03	4	Sire	2020	555311	911971	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/4300	3114	ET_Or/Ar/Sire/SP10/Ag_05	4	Sire	2020	554302	911110	pellic Vertisols calcaric
Oromia/CzT-Pyroclast_tuff_ignimbrite/4310	0		0		0	0	0	
Oromia/CzT-Pyroclast_tuff_ignimbrite/4330	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/1002	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/1003	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/2200	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/2210	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/2230	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/2300	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/2310	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/2330	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3210	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3221	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3222	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3223	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3230	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3310	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3321	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/3322	3223	ET_Or/WH/Doba/SP04/Ag04	4	Doba	2020	725028	1034017	calcaric Leptosols arenic aric
Oromia/CzT-Rhyolite_&ignimbrite/3322	3288	ET_Or/WH/Doba/Sp14/Ag09	4	Doba	2020	715434	1019336	lithic Leptosols arenic aric
Oromia/CzT-Rhyolite_&ignimbrite/3323	3355	ET_OR/WH/DOBA/SP03/AG05	4	Doba	2020	724141	1028972	skeletal Leptosols loamic
Oromia/CzT-Rhyolite_&ignimbrite/3330	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/4200	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/4210	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/4230	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/4300	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/4310	0		0		0	0	0	
Oromia/CzT-Rhyolite_&ignimbrite/4330	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/1001	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/1002	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/1003	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/2100	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/2110	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/2130	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/2200	3096	ET_Or/Ar/Sire/SP08/Ag_07	4	Sire	2020	552175	924742	leptic Andosols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Rhyolite_dome/2210	3097	ET_Or/Ar/Sire/SP08/Ag_08	4	Sire	2020	552542	925142	leptic Andosols clayic
Oromia/CzT-Rhyolite_dome/2230	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3110	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3121	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3122	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3123	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3130	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3210	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3221	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3222	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3223	0		0		0	0	0	
Oromia/CzT-Rhyolite_dome/3230	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/1002	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/1003	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/1004	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/2200	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/2210	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/2230	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/2300	2983	ET_OR/WA/AN/SP13/AG04	4	Arsi Negele	2020	480372	794388	haplic Luvisols
Oromia/CzT-Trachyte_&rhyolite/2300	2985	ET_OR/WA/AN/SP13/AG06	4	Arsi Negele	2020	479728	794112	haplic Luvisols aric
Oromia/CzT-Trachyte_&rhyolite/2300	3003	ET_Or/Ar/Sire/SP04	1	Sire	2020	557304	908810	haplic Vertisols gilgaic
Oromia/CzT-Trachyte_&rhyolite/2300	3041	ET_Or/Ar/Sire/SP03/Ag_02	4	Sire	2020	559363	902057	pellic Vertisols aric
Oromia/CzT-Trachyte_&rhyolite/2300	3042	ET_Or/Ar/Sire/SP03/Ag_03	4	Sire	2020	559516	901535	haplic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3046	ET_Or/Ar/Sire/SP03/Ag_07	4	Sire	2020	558841	902885	skeletal Vertisols
Oromia/CzT-Trachyte_&rhyolite/2300	3048	ET_Or/Ar/Sire/SP03/Ag_09	4	Sire	2020	558902	903223	skeletal Vertisols
Oromia/CzT-Trachyte_&rhyolite/2300	3060	ET_Or/Ar/Sire/SP05/Ag_01	4	Sire	2020	557120	909056	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3061	ET_Or/Ar/Sire/SP05/Ag_02	4	Sire	2020	556783	909362	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3062	ET_Or/Ar/Sire/SP05/Ag_03	4	Sire	2020	557058	909793	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3063	ET_Or/Ar/Sire/SP05/Ag_04	4	Sire	2020	557179	910560	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3065	ET_Or/Ar/Sire/SP05/Ag_06	4	Sire	2020	557059	908564	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3066	ET_Or/Ar/Sire/SP05/Ag_07	4	Sire	2020	557335	908196	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3067	ET_Or/Ar/Sire/SP05/Ag_08	4	Sire	2020	556999	908134	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3068	ET_Or/Ar/Sire/SP05/Ag_09	4	Sire	2020	557152	907827	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2300	3069	ET_Or/Ar/Sire/SP05/Ag_10	4	Sire	2020	557336	907183	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2310	3002	ET_Or/Ar/Sire/SP03	1	Sire	2020	559117	902578	vertic stagnic Luvisols clayic
Oromia/CzT-Trachyte_&rhyolite/2310	3043	ET_Or/Ar/Sire/SP03/Ag_04	4	Sire	2020	559303	900920	pellic Vertisols aric
Oromia/CzT-Trachyte_&rhyolite/2310	3044	ET_Or/Ar/Sire/SP03/Ag_05	4	Sire	2020	559027	901442	pellic Vertisols aric
Oromia/CzT-Trachyte_&rhyolite/2310	3045	ET_Or/Ar/Sire/SP03/Ag_06	4	Sire	2020	559117	902732	pellic Vertisols aric
Oromia/CzT-Trachyte_&rhyolite/2310	3064	ET_Or/Ar/Sire/SP05/Ag_05	4	Sire	2020	556690	910498	pellic Vertisols stagnic
Oromia/CzT-Trachyte_&rhyolite/2330	2986	ET_OR/WA/AN/SP13/AG07	4	Arsi Negele	2020	479667	793713	haplic Luvisols aric
Oromia/CzT-Trachyte_&rhyolite/2330	3049	ET_Or/Ar/Sire/SP03/Ag_10	4	Sire	2020	559024	903776	skeletal Vertisols
Oromia/CzT-Trachyte_&rhyolite/3210	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3221	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3222	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3223	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/CzT-Trachyte_&rhyolite/3230	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3310	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3321	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3322	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3323	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/3330	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/4200	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/4210	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/4230	0		0		0	0	0	
Oromia/CzT-Trachyte_&rhyolite/4300	2982	ET_OR/WA/AN/SP13/AG03	4	Arsi Negele	2020	480525	794020	haplic Luvisols aric
Oromia/CzT-Trachyte_&rhyolite/4300	2995	ET_OR/WA/AN/SP14/AG06	4	Arsi negele	2020	479084	793222	skeletal Leptosols loamic
Oromia/CzT-Trachyte_&rhyolite/4300	2997	ET_OR/WA/AN/SP14/AG08	4	Arsi negele	2020	479329	793652	skeletal Leptosols loamic
Oromia/CzT-Trachyte_&rhyolite/4300	2998	ET_OR/WA/AN/SP14/AG09	4	Arsi negele	2020	479421	793314	hyperskeletal Leptosols loamic
Oromia/CzT-Trachyte_&rhyolite/4300	3040	ET_Or/Ar/Sire/SP03/Ag_01	4	Sire	2020	559179	902302	leptic Cambisols clayic aric
Oromia/CzT-Trachyte_&rhyolite/4300	3047	ET_Or/Ar/Sire/SP03/Ag_08	4	Sire	2020	558535	903161	skeletal Vertisols
Oromia/CzT-Trachyte_&rhyolite/4310	2996	ET_OR/WA/AN/SP14/AG07	4	Arsi negele	2020	479206	793437	hyperskeletal Leptosols loamic
Oromia/CzT-Trachyte_&rhyolite/4330	2984	ET_OR/WA/AN/SP13/AG05	4	Arsi Negele	2020	480004	794511	haplic Luvisols
Oromia/Doba/outsideAol	3346	ET_OR/WH/DOBA/SP01/AG06	4	Doba	2020	732100	1020107	leptic Vertisols skeletal
Oromia/Doba/outsideAol	3347	ET_OR/WH/DOBA/SP01/AG07	4	Doba	2020	731306	1020102	leptic Vertisols skeletal
Oromia/Doba/outsideAol	3348	ET_OR/WH/DOBA/SP01/AG08	4	Doba	2020	0	0	skeletal Leptosols fluvic
Oromia/Doba/outsideAol	3339	ET_Or/WH/Doba/SP20	1	Doba	2020	0	0	calcaric Leptosols
Oromia/Doba/outsideAol	3349	ET_OR/WH/DOBA/SP01/AG09	4	Doba	2020	0	0	skeletal Luvisols fluvic
Oromia/Doba/outsideAol	3350	ET_OR/WH/DOBA/SP01/AG10	4	Doba	2020	0	0	skeletal Luvisols fluvic
Oromia/Mz-Limestone/1002	0		0		0	0	0	
Oromia/Mz-Limestone/1003	0		0		0	0	0	
Oromia/Mz-Limestone/2200	0		0		0	0	0	
Oromia/Mz-Limestone/2210	0		0		0	0	0	
Oromia/Mz-Limestone/2230	0		0		0	0	0	
Oromia/Mz-Limestone/2300	0		0		0	0	0	
Oromia/Mz-Limestone/2310	0		0		0	0	0	
Oromia/Mz-Limestone/2330	0		0		0	0	0	
Oromia/Mz-Limestone/3210	0		0		0	0	0	
Oromia/Mz-Limestone/3221	0		0		0	0	0	
Oromia/Mz-Limestone/3222	0		0		0	0	0	
Oromia/Mz-Limestone/3223	0		0		0	0	0	
Oromia/Mz-Limestone/3230	0		0		0	0	0	
Oromia/Mz-Limestone/3310	0		0		0	0	0	
Oromia/Mz-Limestone/3321	0		0		0	0	0	
Oromia/Mz-Limestone/3322	3219	ET_Or/WH/Doba/SP02/Ag10	4	Doba	2020	729623	1015544	vertic Luvisols clayic aric
Oromia/Mz-Limestone/3323	0		0		0	0	0	
Oromia/Mz-Limestone/3330	0		0		0	0	0	
Oromia/Mz-Limestone/4200	0		0		0	0	0	
Oromia/Mz-Limestone/4210	0		0		0	0	0	
Oromia/Mz-Limestone/4230	0		0		0	0	0	
Oromia/Mz-Limestone/4300	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/Mz-Limestone/4310	0		0		0	0	0	
Oromia/Mz-Limestone/4330	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/1003	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/2200	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/2210	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/2230	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/2300	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/2310	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/2330	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3210	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3221	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3222	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3223	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3230	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3310	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3321	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3322	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3323	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/3330	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/4200	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/4210	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/4230	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/4300	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/4310	0		0		0	0	0	
Oromia/Mz-Sandstone_&limestone/4330	0		0		0	0	0	
Oromia/RiftValleyLakesBasin/outsideAol	2085	ET_PB-12	4	N/A	2010	480614	789280	haplic Luvisols
Oromia/RiftValleyLakesBasin/outsideAol	2087	ET_AP-01	4	N/A	2010	434341	839864	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2088	ET_AP-04	4	N/A	2010	435154	838445	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2089	ET_AP-05	4	N/A	2010	435351	838982	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2090	ET_AP-06	4	N/A	2010	434396	839452	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2091	ET_AP-08	4	N/A	2010	435874	839737	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2092	ET_AP-09	4	N/A	2010	433900	839500	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2093	ET_AP-10	4	N/A	2010	435370	838011	sodic Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2094	ET_AP-11	4	N/A	2010	436687	841352	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2095	ET_AP-12	4	N/A	2010	437500	842525	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2096	ET_AP-13	4	N/A	2010	435261	840494	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2097	ET_AP-15	4	N/A	2010	436386	840750	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2098	ET_AP-17	4	N/A	2010	438812	840870	calcaric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2099	ET_AP-18	4	N/A	2010	437843	840911	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2100	ET_AP-22	4	N/A	2010	434426	838383	eutric Regosols
Oromia/RiftValleyLakesBasin/outsideAol	2101	ET_AP-23	4	N/A	2010	437200	841500	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2102	ET_AP-26	4	N/A	2010	435987	838335	sodic Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2103	ET_AP-28	4	N/A	2010	437800	841625	eutric Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2104	ET_AP-29	4	N/A	2010	438402	842287	sodic Fluvisols
Oromia/RiftValleyLakesBasin/outsideAol	2105	ET_AP-32	4	N/A	2010	434095	838399	eutric Fluvisols

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Oromia/RiftValleyLakesBasin/outsideAol	2106	ET_AP-33	4	N/A	2010	435711	837265	sodic Fluvisols
Oromia/Sire/outsideAol	3020	ET_Or/Ar/Sire/SP01/Ag_01	4	Sire	2020	529276	913021	haplic Vertisols aric
SNNP/CzQ-Basalt_&scoria_cones/1002	66	ET_SNNPAWST_20200309.P004	1	Silte	2020	437115	888694	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/1002	528	ET_SNNPAWSA_20200226.008	4	Silte	2020	437227	888784	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/1002	560	ET_SNNPAWSA_20200227.020	4	Silte	2020	436335	889923	eutric mollic Andosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/1002	584	ET_SNNPAWSA_20200228.014	4	Silte	2020	431819	886624	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/1002	587	ET_SNNPAWSA_20200228.017	4	Silte	2020	433262	885454	salic mollic Solonetz clayic aric
SNNP/CzQ-Basalt_&scoria_cones/1003	512	ET_SNNPAWSA_20200225.002	4	Silte	2020	440794	891807	eutric mollic Andosols siltic aric
SNNP/CzQ-Basalt_&scoria_cones/1003	583	ET_SNNPAWSA_20200228.013	4	Silte	2020	432831	887215	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/1003	585	ET_SNNPAWSA_20200228.015	4	Silte	2020	432187	885812	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/1003	586	ET_SNNPAWSA_20200228.016	4	Silte	2020	432851	885655	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/1003	614	ET_SNNPAMSA_20200229.014	4	Silte	2020	424800	888020	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/1003	619	ET_SNNPAMSA_20200229.019	4	Silte	2020	425453	889126	orthofluvic Fluvisols arenic aric
SNNP/CzQ-Basalt_&scoria_cones/1003	649	ET_SNNPAMSA_20200302.023	4	Silte	2020	422486	879485	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/1004	0		0		0	0	0	
SNNP/CzQ-Basalt_&scoria_cones/2200	59	ET_SNNPAWST_20200308.P001	1	Silte	2020	428428	885191	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	61	ET_SNNPAWST_20200308.P003	1	Silte	2020	423006	879624	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	70	ET_SNNPAWST_20200310.P004	1	Silte	2020	433577	889611	pellic leptic Vertisols aric mollic hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	511	ET_SNNPAWSA_20200225.001	4	Silte	2020	440423	891708	eutric mollic Andosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	513	ET_SNNPAWSA_20200225.003	4	Silte	2020	440281	891537	eutric mollic Andosols siltic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	523	ET_SNNPAWSA_20200226.003	4	Silte	2020	439146	889366	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	536	ET_SNNPAWSA_20200226.016	4	Silte	2020	434081	888028	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	538	ET_SNNPAWSA_20200226.018	4	Silte	2020	433044	888459	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	557	ET_SNNPAWSA_20200227.017	4	Silte	2020	436707	891425	hyperskeletal lithic Leptosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	561	ET_SNNPAWSA_20200227.021	4	Silte	2020	435452	889971	eutric leptic Regosols loamic
SNNP/CzQ-Basalt_&scoria_cones/2200	563	ET_SNNPAWSA_20200227.023	4	Silte	2020	433836	891507	eutric mollic Leptosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	568	ET_SNNPAWSA_20200227.028	4	Silte	2020	431317	889763	eutric mollic Leptosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	571	ET_SNNPAWSA_20200228.001	4	Silte	2020	430462	891855	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	576	ET_SNNPAWSA_20200228.006	4	Silte	2020	429801	888995	eutric Regosols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	578	ET_SNNPAWSA_20200228.008	4	Silte	2020	430123	888248	eutric mollic vitric Andosols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	581	ET_SNNPAWSA_20200228.011	4	Silte	2020	433265	889665	pellic leptic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	591	ET_SNNPAWSA_20200228.023	4	Silte	2020	429386	886615	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	596	ET_SNNPAWSA_20200228.028	4	Silte	2020	427486	885411	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	600	ET_SNNPAWSA_20200228.032	4	Silte	2020	431416	888160	pellic leptic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2200	601	ET_SNNPAMSA_20200229.001	4	Silte	2020	426770	883691	vertic albic mollic Planosols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	613	ET_SNNPAMSA_20200229.013	4	Silte	2020	424710	887046	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	618	ET_SNNPAMSA_20200229.018	4	Silte	2020	425676	889448	orthofluvic Fluvisols arenic aric
SNNP/CzQ-Basalt_&scoria_cones/2200	648	ET_SNNPAMSA_20200302.022	4	Silte	2020	422347	879960	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2210	537	ET_SNNPAWSA_20200226.017	4	Silte	2020	433815	887958	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2210	562	ET_SNNPAWSA_20200227.022	4	Silte	2020	434513	890356	eutric leptic Regosols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/2210	570	ET_SNNPAWSA_20200227.030	4	Silte	2020	432003	889897	vertic Luvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2210	575	ET_SNNPAWSA_20200228.005	4	Silte	2020	427910	889395	eutric vertic fluvic Cambisols loamic
SNNP/CzQ-Basalt_&scoria_cones/2210	595	ET_SNNPAWSA_20200228.027	4	Silte	2020	427925	886411	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/2230	558	ET_SNNPAWSA_20200227.018	4	Silte	2020	436486	891385	hyperskeletal lithic Leptosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/2230	569	ET_SNNPAWSA_20200227.029	4	Silte	2020	432142	890016	eutric mollic Leptosols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzQ-Basalt_&scoria_cones/2230	597	ET_SNNPAWSA_20200228.029	4	Silte	2020	427913	884869	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/3210	540	ET_SNNPAWSA_20200226.020	4	Silte	2020	432651	888205	eutric mollic Leptosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/3221	539	ET_SNNPAWSA_20200226.019	4	Silte	2020	432699	888333	eutric mollic Leptosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/3221	579	ET_SNNPAWSA_20200228.009	4	Silte	2020	430551	888231	pellic leptic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/3222	57	ET_SNNPAWST_20200306.P005	1	Silte	2020	429221	889966	eutric Regosols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/3222	564	ET_SNNPAWSA_20200227.024	4	Silte	2020	433340	891360	eutric leptic Regosols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/3222	567	ET_SNNPAWSA_20200227.027	4	Silte	2020	430595	890148	eutric leptic Regosols clayic
SNNP/CzQ-Basalt_&scoria_cones/3222	577	ET_SNNPAWSA_20200228.007	4	Silte	2020	430252	889273	eutric lithic Leptosols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/3222	582	ET_SNNPAWSA_20200228.012	4	Silte	2020	432215	888473	eutric Regosols loamic
SNNP/CzQ-Basalt_&scoria_cones/3222	592	ET_SNNPAWSA_20200228.024	4	Silte	2020	429229	887551	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt_&scoria_cones/3222	599	ET_SNNPAWSA_20200228.031	4	Silte	2020	431628	887445	eutric hyperskeletal nudilithic Leptosols loamic
SNNP/CzQ-Basalt_&scoria_cones/3223	56	ET_SNNPAWST_20200306.P004	1	Silte	2020	428034	889859	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Basalt_&scoria_cones/3223	565	ET_SNNPAWSA_20200227.025	4	Silte	2020	432726	891419	eutric Leptosols clayic
SNNP/CzQ-Basalt_&scoria_cones/3230	580	ET_SNNPAWSA_20200228.010	4	Silte	2020	430922	888052	eutric lithic Leptosols loamic aric
SNNP/CzQ-Basalt_&scoria_cones/3230	594	ET_SNNPAWSA_20200228.026	4	Silte	2020	428126	886411	eutric leptic Regosols clayic
SNNP/CzQ-Basalt/1001	0		0		0	0	0	
SNNP/CzQ-Basalt/1002	187	ET_SNNPAMMA_20191228.007	4	Mirab Abaya	2019	368589	722294	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt/1002	198	ET_SNNPAMMA_20191229.003	4	Mirab Abaya	2019	369879	726440	eutric nudilithic Leptosols loamic
SNNP/CzQ-Basalt/1003	192	ET_SNNPAMMA_20191228.012	4	Mirab Abaya	2019	369038	723510	eutric Regosols loamic aric
SNNP/CzQ-Basalt/1003	197	ET_SNNPAMMA_20191229.002	4	Mirab Abaya	2019	369788	726258	calcaric skeletal lithic Leptosols loamic
SNNP/CzQ-Basalt/2100	184	ET_SNNPAMMA_20191228.004	4	Mirab Abaya	2019	369109	722663	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Basalt/2100	185	ET_SNNPAMMA_20191228.005	4	Mirab Abaya	2019	369301	722267	eutric Regosols clayic aric
SNNP/CzQ-Basalt/2100	194	ET_SNNPAMMA_20191228.014	4	Mirab Abaya	2019	369006	724796	eutric skeletal Leptosols loamic
SNNP/CzQ-Basalt/2100	196	ET_SNNPAMMA_20191229.001	4	Mirab Abaya	2019	369385	724641	eutric skeletal Leptosols loamic
SNNP/CzQ-Basalt/2110	191	ET_SNNPAMMA_20191228.011	4	Mirab Abaya	2019	369205	723596	eutric Regosols loamic aric
SNNP/CzQ-Basalt/2110	195	ET_SNNPAMMA_20191228.015	4	Mirab Abaya	2019	369323	724843	eutric skeletal Leptosols loamic
SNNP/CzQ-Basalt/2110	199	ET_SNNPAMMA_20191229.004	4	Mirab Abaya	2019	369823	725889	eutric lithic Leptosols loamic aric
SNNP/CzQ-Basalt/2130	0		0		0	0	0	
SNNP/CzQ-Basalt/2200	0		0		0	0	0	
SNNP/CzQ-Basalt/2210	0		0		0	0	0	
SNNP/CzQ-Basalt/2230	0		0		0	0	0	
SNNP/CzQ-Basalt/3110	0		0		0	0	0	
SNNP/CzQ-Basalt/3121	0		0		0	0	0	
SNNP/CzQ-Basalt/3122	0		0		0	0	0	
SNNP/CzQ-Basalt/3123	193	ET_SNNPAMMA_20191228.013	4	Mirab Abaya	2019	369890	724097	eutric Regosols loamic
SNNP/CzQ-Basalt/3123	200	ET_SNNPAMMA_20191229.005	4	Mirab Abaya	2019	369898	724121	eutric vertic Cambisols clayic aric
SNNP/CzQ-Basalt/3130	0		0		0	0	0	
SNNP/CzQ-Basalt/3210	0		0		0	0	0	
SNNP/CzQ-Basalt/3221	566	ET_SNNPAWSA_20200227.026	4	Silte	2020	431036	891193	vertic Luvisols clayic aric
SNNP/CzQ-Basalt/3221	574	ET_SNNPAWSA_20200228.004	4	Silte	2020	429202	889514	eutric Regosols loamic
SNNP/CzQ-Basalt/3221	593	ET_SNNPAWSA_20200228.025	4	Silte	2020	428962	887002	pellic Vertisols aric hypereutric
SNNP/CzQ-Basalt/3222	572	ET_SNNPAWSA_20200228.002	4	Silte	2020	429750	890929	eutric lithic Leptosols loamic aric
SNNP/CzQ-Basalt/3223	573	ET_SNNPAWSA_20200228.003	4	Silte	2020	429422	890331	eutric lithic Leptosols loamic aric
SNNP/CzQ-Basalt/3230	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/1001	23	ET_SNNPAMMA_20201701.P001	1	Mirab Abaya	2020	368125	722324	eutric calcaric vertic Cambisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzQ-Ignimbrite_&tuff/1001	174	ET_SNNPAMMA_20191227.009	4	Mirab Abaya	2019	365098	720136	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/1002	24	ET_SNNPAMMA_20201701.P002	1	Mirab Abaya	2020	367317	721342	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/1002	175	ET_SNNPAMMA_20191227.010	4	Mirab Abaya	2019	364900	720031	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/1002	180	ET_SNNPAMMA_20191227.015	4	Mirab Abaya	2019	368252	720333	eutric orthofluvic Fluvisols clayic
SNNP/CzQ-Ignimbrite_&tuff/1002	181	ET_SNNPAMMA_20191228.001	4	Mirab Abaya	2019	368204	720807	salic mollic Solonetz clayic aric
SNNP/CzQ-Ignimbrite_&tuff/1002	186	ET_SNNPAMMA_20191228.006	4	Mirab Abaya	2019	368359	722177	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/1003	176	ET_SNNPAMMA_20191227.011	4	Mirab Abaya	2019	364570	719758	vertic Luvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/1003	188	ET_SNNPAMMA_20191228.008	4	Mirab Abaya	2019	367605	723035	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/1003	189	ET_SNNPAMMA_20191228.009	4	Mirab Abaya	2019	367752	723235	eutric Regosols loamic
SNNP/CzQ-Ignimbrite_&tuff/1003	381	ET_SNNPAWKB_20200201.029	4	Kacha Bira	2020	372961	796495	dystric gleyic umbric Planosols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/1004	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/2100	102	ET_SNNPAMMA_20191223.002	4	Mirab Abaya	2019	364576	692914	calcaric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/2100	220	ET_SNNPAMMA_20191230.011	4	Mirab Abaya	2019	364313	690519	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/2110	99	ET_SNNPAMMA_20191222.014	4	Mirab Abaya	2019	367000	687500	eutric mollic Leptosols clayic
SNNP/CzQ-Ignimbrite_&tuff/2130	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/2200	62	ET_SNNPAWST_20200308.P004	1	Silte	2020	425520	872850	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	383	ET_SNNPAWKB_20200201.031	4	Kacha Bira	2020	372993	796840	dystric gleyic umbric Planosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/2200	654	ET_SNNPAMSA_20200302.028	4	Silte	2020	423955	876789	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	657	ET_SNNPAWSA_20200303.001	4	Silte	2020	428628	873342	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	660	ET_SNNPAWSA_20200303.004	4	Silte	2020	428574	872693	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/2200	663	ET_SNNPAWSA_20200303.007	4	Silte	2020	426946	873415	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	665	ET_SNNPAWSA_20200303.009	4	Silte	2020	424584	872885	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	667	ET_SNNPAWSA_20200303.011	4	Silte	2020	425295	872623	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	673	ET_SNNPAWSA_20200303.017	4	Silte	2020	422658	874830	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	677	ET_SNNPAWSA_20200303.021	4	Silte	2020	421119	876656	eutric leptic Regosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/2200	690	ET_SNNPAWSA_20200304.010	4	Silte	2020	418096	876742	eutric hyperskeletal nudilithic Leptosols loamic
SNNP/CzQ-Ignimbrite_&tuff/2200	700	ET_SNNPAMSA_20200307.004	4	Silte	2020	417707	874753	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/2200	701	ET_SNNPAMSA_20200307.005	4	Silte	2020	422931	877937	eutric hyperskeletal nudilithic Leptosols loamic
SNNP/CzQ-Ignimbrite_&tuff/2210	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/2230	34	ET_SNNPAWKB_20200208.P001	1	Kacha Bira	2020	373057	796695	vertic gleyic mollic Planosols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/2230	382	ET_SNNPAWKB_20200201.030	4	Kacha Bira	2020	373111	796747	dystric gleyic umbric Planosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/2300	693	ET_SNNPAWSA_20200304.013	4	Silte	2020	415429	879360	vertic Luvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/2300	698	ET_SNNPAMSA_20200307.002	4	Silte	2020	414420	877773	vertic Luvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/2310	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/2330	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/3110	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/3121	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/3122	4	ET_SNNPAMMA_20191225.P002	1	Mirab Abaya	2019	365204	688261	skeletal nudilithic Leptosols loamic
SNNP/CzQ-Ignimbrite_&tuff/3122	100	ET_SNNPAMMA_20191222.015	4	Mirab Abaya	2019	365204	688261	mollic skeletal Leptosols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/3122	190	ET_SNNPAMMA_20191228.010	4	Mirab Abaya	2019	365701	721629	eutric mollic Leptosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3122	223	ET_SNNPAMMA_20191230.014	4	Mirab Abaya	2019	365530	684470	eutric lithic Leptosols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/3123	86	ET_SNNPAMMA_20191222.001	4	Mirab Abaya	2019	361413	687518	dystric hyperskeletal lithic Leptosols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/3130	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/3210	653	ET_SNNPAMSA_20200302.027	4	Silte	2020	424197	876987	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3221	652	ET_SNNPAMSA_20200302.026	4	Silte	2020	424065	877271	pellic Vertisols aric hypereutric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzQ-Ignimbrite_&tuff/3221	664	ET_SNNPAWSA_20200303.008	4	Silte	2020	426259	873374	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3221	666	ET_SNNPAWSA_20200303.010	4	Silte	2020	424826	873563	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3221	668	ET_SNNPAWSA_20200303.012	4	Silte	2020	425152	872750	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3221	672	ET_SNNPAWSA_20200303.016	4	Silte	2020	422730	875780	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3221	675	ET_SNNPAWSA_20200303.019	4	Silte	2020	419982	873118	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3222	651	ET_SNNPAMSA_20200302.025	4	Silte	2020	423292	877012	eutric nudilithic Leptosols loamic
SNNP/CzQ-Ignimbrite_&tuff/3222	658	ET_SNNPAWSA_20200303.002	4	Silte	2020	427590	873695	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3222	659	ET_SNNPAWSA_20200303.003	4	Silte	2020	427636	874317	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3222	661	ET_SNNPAWSA_20200303.005	4	Silte	2020	428094	872694	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/3222	669	ET_SNNPAWSA_20200303.013	4	Silte	2020	424673	875034	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3222	670	ET_SNNPAWSA_20200303.014	4	Silte	2020	424661	875208	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3222	674	ET_SNNPAWSA_20200303.018	4	Silte	2020	420975	873461	pellic Vertisols aric hypereutric
SNNP/CzQ-Ignimbrite_&tuff/3222	676	ET_SNNPAWSA_20200303.020	4	Silte	2020	419309	873369	eutric leptic Regosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3222	678	ET_SNNPAWSA_20200303.022	4	Silte	2020	420380	876235	eutric leptic Regosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3222	702	ET_SNNPAMSA_20200307.006	4	Silte	2020	411158	876160	haplic Alisols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/3223	650	ET_SNNPAMSA_20200302.024	4	Silte	2020	422151	877950	eutric nudilithic Leptosols loamic
SNNP/CzQ-Ignimbrite_&tuff/3223	662	ET_SNNPAWSA_20200303.006	4	Silte	2020	427742	872652	eutric nudilithic Leptosols clayic
SNNP/CzQ-Ignimbrite_&tuff/3223	699	ET_SNNPAMSA_20200307.003	4	Silte	2020	427887	873052	eutric lithic Leptosols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/3230	671	ET_SNNPAWSA_20200303.015	4	Silte	2020	423568	875554	eutric leptic Regosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3230	679	ET_SNNPAWSA_20200303.023	4	Silte	2020	420546	875595	mollic lithic Leptosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3310	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/3321	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/3322	695	ET_SNNPAWSA_20200304.015	4	Silte	2020	414332	880502	eutric leptic Regosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3322	697	ET_SNNPAMSA_20200307.001	4	Silte	2020	414649	877871	eutric leptic Regosols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3322	703	ET_SNNPAMSA_20200307.007	4	Silte	2020	410950	876505	haplic Alisols loamic aric
SNNP/CzQ-Ignimbrite_&tuff/3323	696	ET_SNNPAWSA_20200304.016	4	Silte	2020	414310	880758	vertic Alisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/3330	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/4200	680	ET_SNNPAWSA_20200303.024	4	Silte	2020	418329	875331	mollic nudilithic Leptosols clayic
SNNP/CzQ-Ignimbrite_&tuff/4200	689	ET_SNNPAWSA_20200304.009	4	Silte	2020	418362	876293	eutric hyperskeletal nudilithic Leptosols loamic
SNNP/CzQ-Ignimbrite_&tuff/4200	691	ET_SNNPAWSA_20200304.011	4	Silte	2020	416894	876957	eutric leptic Regosols clayic
SNNP/CzQ-Ignimbrite_&tuff/4210	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/4230	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/4300	58	ET_SNNPAWST_20200307.P001	1	Silte	2020	415356	879587	alic umbric rhodic Nitisols aric humic
SNNP/CzQ-Ignimbrite_&tuff/4300	692	ET_SNNPAWSA_20200304.012	4	Silte	2020	416080	878941	vertic Luvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/4300	694	ET_SNNPAWSA_20200304.014	4	Silte	2020	415332	879612	vertic Luvisols clayic aric
SNNP/CzQ-Ignimbrite_&tuff/4310	0		0		0	0	0	
SNNP/CzQ-Ignimbrite_&tuff/4330	0		0		0	0	0	
SNNP/CzQ-Lake/1001	159	ET_SNNPAMMA_20191226.009	4	Mirab Abaya	2019	364080	713729	salic mollic Solonetz clayic aric
SNNP/CzQ-Lake/1001	163	ET_SNNPAMMA_20191226.013	4	Mirab Abaya	2019	363718	715261	salic mollic Solonetz loamic
SNNP/CzQ-Lake/1001	166	ET_SNNPAMMA_20191227.001	4	Mirab Abaya	2019	363476	716314	salic mollic Solonetz loamic aric
SNNP/CzQ-Lake/1001	170	ET_SNNPAMMA_20191227.005	4	Mirab Abaya	2019	364362	718137	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Lake/1001	201	ET_SNNPAMMA_20191229.006	4	Mirab Abaya	2019	363826	708769	salic mollic Solonetz loamic aric
SNNP/CzQ-Lake/1001	202	ET_SNNPAMMA_20191229.007	4	Mirab Abaya	2019	363358	708998	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Lake/1002	141	ET_SNNPAMMA_20191225.008	4	Mirab Abaya	2019	363608	711000	nudinatric mollic Solonetz aric fluvic
SNNP/CzQ-Lake/1002	148	ET_SNNPAMMA_20191225.015	4	Mirab Abaya	2019	363528	711668	nudinatric mollic Solonetz aric fluvic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzQ-Lake/1002	171	ET_SNNPAMMA_20191227.006	4	Mirab Abaya	2019	364279	718753	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Lake/1002	211	ET_SNNPAMMA_20191230.002	4	Mirab Abaya	2019	367100	697800	eutric Regosols clayic aric
SNNP/CzQ-Lake/1003	0		0		0	0	0	
SNNP/CzQ-Lake/2100	0		0		0	0	0	
SNNP/CzQ-Lake/2110	0		0		0	0	0	
SNNP/CzQ-Lake/2130	0		0		0	0	0	
SNNP/CzQ-Lake/2200	0		0		0	0	0	
SNNP/CzQ-Lake/3110	0		0		0	0	0	
SNNP/CzQ-Lake/3121	0		0		0	0	0	
SNNP/CzQ-Lake/3122	0		0		0	0	0	
SNNP/CzQ-Lake/3123	0		0		0	0	0	
SNNP/CzQ-Lake/3130	0		0		0	0	0	
SNNP/CzQ-Lake/3221	0		0		0	0	0	
SNNP/CzQ-Lake/3222	0		0		0	0	0	
SNNP/CzQ-Lake/3223	0		0		0	0	0	
SNNP/CzQ-Lake/3230	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/1001	3	ET_SNNPAMMA_20191225.P001	1	Mirab Abaya	2019	353382	681783	fluvic mollic Solonetz clayic
SNNP/CzQ-Sediment_lacustrine/1001	10	ET_SNNPAMMA_20191227.P002	1	Mirab Abaya	2019	363386	715184	eutric mollic Solonchaks clayic
SNNP/CzQ-Sediment_lacustrine/1001	22	ET_SNNPAMMA_20201601.P003	1	Mirab Abaya	2020	365489	719575	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1001	75	ET_SNNPAMMA_20191221.005	4	Mirab Abaya	2019	354144	682017	eutric mollic Solonchaks clayic aric
SNNP/CzQ-Sediment_lacustrine/1001	173	ET_SNNPAMMA_20191227.008	4	Mirab Abaya	2019	365312	719517	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1001	177	ET_SNNPAMMA_20191227.012	4	Mirab Abaya	2019	365312	719518	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1001	179	ET_SNNPAMMA_20191227.014	4	Mirab Abaya	2019	367265	720441	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1001	221	ET_SNNPAMMA_20191230.012	4	Mirab Abaya	2019	363470	686700	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1001	229	ET_SNNPAMMA_20191231.004	4	Mirab Abaya	2019	352359	681470	nudinatric mollic Solonetz loamic
SNNP/CzQ-Sediment_lacustrine/1002	5	ET_SNNPAMMA_20191225.P003	1	Mirab Abaya	2019	352003	680978	calcaric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	25	ET_SNNPAMMA_20201701.P003	1	Mirab Abaya	2020	363810	689008	eutric Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	67	ET_SNNPAWST_20200310.P001	1	Silte	2020	435458	887201	vertic salic mollic Solonetz clayic
SNNP/CzQ-Sediment_lacustrine/1002	71	ET_SNNPAMMA_20191221.001	4	Mirab Abaya	2019	352002	680377	calcaric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	89	ET_SNNPAMMA_20191222.004	4	Mirab Abaya	2019	363500	688700	salic mollic Solonetz clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	142	ET_SNNPAMMA_20191225.009	4	Mirab Abaya	2019	363124	707696	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1002	145	ET_SNNPAMMA_20191225.012	4	Mirab Abaya	2019	362730	712729	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	147	ET_SNNPAMMA_20191225.014	4	Mirab Abaya	2019	363183	711676	nudinatric mollic Solonetz aric fluvic
SNNP/CzQ-Sediment_lacustrine/1002	157	ET_SNNPAMMA_20191226.007	4	Mirab Abaya	2019	362037	713823	eutric orthofluvic Fluvisols clayic
SNNP/CzQ-Sediment_lacustrine/1002	158	ET_SNNPAMMA_20191226.008	4	Mirab Abaya	2019	363259	713782	nudinatric mollic Solonetz aric fluvic
SNNP/CzQ-Sediment_lacustrine/1002	161	ET_SNNPAMMA_20191226.011	4	Mirab Abaya	2019	362151	715375	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	162	ET_SNNPAMMA_20191226.012	4	Mirab Abaya	2019	362858	714972	eutric orthofluvic Fluvisols loamic
SNNP/CzQ-Sediment_lacustrine/1002	165	ET_SNNPAMMA_20191226.015	4	Mirab Abaya	2019	362641	716491	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	167	ET_SNNPAMMA_20191227.002	4	Mirab Abaya	2019	362996	717713	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	168	ET_SNNPAMMA_20191227.003	4	Mirab Abaya	2019	362858	714972	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	169	ET_SNNPAMMA_20191227.004	4	Mirab Abaya	2019	362858	714972	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	172	ET_SNNPAMMA_20191227.007	4	Mirab Abaya	2019	364279	718935	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1002	178	ET_SNNPAMMA_20191227.013	4	Mirab Abaya	2019	365812	720238	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	203	ET_SNNPAMMA_20191229.008	4	Mirab Abaya	2019	362110	709447	calcaric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	222	ET_SNNPAMMA_20191230.013	4	Mirab Abaya	2019	363546	685337	eutric orthofluvic Fluvisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzQ-Sediment_lacustrine/1002	226	ET_SNNPAMMA_20191231.001	4	Mirab Abaya	2019	355721	683015	calcaric orthofluvi Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	228	ET_SNNPAMMA_20191231.003	4	Mirab Abaya	2019	352211	682029	calcaric orthofluvi Fluvisols loamic
SNNP/CzQ-Sediment_lacustrine/1002	230	ET_SNNPAMMA_20191231.005	4	Mirab Abaya	2019	352393	681172	nudinatric mollic Solonetz loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	297	ET_SNNPAMMA_20200104.002	4	Mirab Abaya	2020	350636	680848	dystric nudilithic Leptosols loamic
SNNP/CzQ-Sediment_lacustrine/1002	516	ET_SNNPAWSA_20200225.006	4	Silte	2020	439211	893056	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1002	519	ET_SNNPAWSA_20200225.009	4	Silte	2020	438637	891333	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1002	520	ET_SNNPAWSA_20200225.010	4	Silte	2020	437747	891245	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1002	525	ET_SNNPAWSA_20200226.005	4	Silte	2020	438268	889578	eutric orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	530	ET_SNNPAWSA_20200226.010	4	Silte	2020	436418	887927	calcic vertic albic Planosols clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	532	ET_SNNPAWSA_20200226.012	4	Silte	2020	435396	887548	eutric mollic Solonchaks clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	588	ET_SNNPAWSA_20200228.019	4	Silte	2020	433697	884025	eutric sodic mollic Solonchaks loamic
SNNP/CzQ-Sediment_lacustrine/1002	589	ET_SNNPAWSA_20200228.021	4	Silte	2020	433136	884286	eutric sodic mollic Solonchaks loamic
SNNP/CzQ-Sediment_lacustrine/1002	590	ET_SNNPAWSA_20200228.022	4	Silte	2020	431441	884219	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1002	656	ET_SNNPAMMA_20200302.030	4	Silte	2020	428951	874031	eutric orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1002	709	ET_SNNPAMSA_20200309.006	4	Silte	2020	436269	884085	vertic salic mollic Solonetz clayic
SNNP/CzQ-Sediment_lacustrine/1002	710	ET_SNNPAMSA_20200309.007	4	Silte	2020	435092	884277	vertic salic mollic Solonetz clayic
SNNP/CzQ-Sediment_lacustrine/1003	65	ET_SNNPAWST_20200309.P003	1	Silte	2020	438131	890707	vertic calcic mollic Solonetz clayic
SNNP/CzQ-Sediment_lacustrine/1003	68	ET_SNNPAWST_20200310.P002	1	Silte	2020	438245	883520	eutric orthofluvi Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1003	69	ET_SNNPAWST_20200310.P003	1	Silte	2020	437897	889294	eutric stagnic orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1003	98	ET_SNNPAMMA_20191222.013	4	Mirab Abaya	2019	365444	693578	calcaric orthofluvi Fluvisols clayic
SNNP/CzQ-Sediment_lacustrine/1003	101	ET_SNNPAMMA_20191223.001	4	Mirab Abaya	2019	360002	689308	calcaric orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1003	104	ET_SNNPAMMA_20191223.004	4	Mirab Abaya	2019	365457	695016	calcaric orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1003	144	ET_SNNPAMMA_20191225.011	4	Mirab Abaya	2019	361369	712883	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1003	150	ET_SNNPAMMA_20191225.017	4	Mirab Abaya	2019	360772	713524	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	152	ET_SNNPAMMA_20191226.002	4	Mirab Abaya	2019	365855	701378	calcaric orthofluvi Fluvisols clayic
SNNP/CzQ-Sediment_lacustrine/1003	215	ET_SNNPAMMA_20191230.006	4	Mirab Abaya	2019	360801	694695	calcaric orthofluvi Fluvisols siltic aric
SNNP/CzQ-Sediment_lacustrine/1003	219	ET_SNNPAMMA_20191230.010	4	Mirab Abaya	2019	363498	689886	eutric orthofluvi Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1003	286	ET_SNNPAMMA_20200103.006	4	Mirab Abaya	2020	360772	713524	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	515	ET_SNNPAWSA_20200225.005	4	Silte	2020	439570	892518	pellic calcic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	517	ET_SNNPAWSA_20200225.007	4	Silte	2020	438251	893036	orthofluvi Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1003	518	ET_SNNPAWSA_20200225.008	4	Silte	2020	439142	891675	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	521	ET_SNNPAWSA_20200226.001	4	Silte	2020	437724	890062	eutric mollic vitric Andosols loamic aric
SNNP/CzQ-Sediment_lacustrine/1003	522	ET_SNNPAWSA_20200226.002	4	Silte	2020	438521	888988	eutric orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1003	526	ET_SNNPAWSA_20200226.006	4	Silte	2020	438683	888352	eutric orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1003	527	ET_SNNPAWSA_20200226.007	4	Silte	2020	437906	888311	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	529	ET_SNNPAWSA_20200226.009	4	Silte	2020	437077	887089	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	531	ET_SNNPAWSA_20200226.011	4	Silte	2020	435943	887831	eutric vertic albic Planosols clayic aric
SNNP/CzQ-Sediment_lacustrine/1003	549	ET_SNNPAWSA_20200227.009	4	Silte	2020	436934	892312	pellic calcic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	655	ET_SNNPAMSA_20200302.029	4	Silte	2020	429259	874334	eutric orthofluvi Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/1003	707	ET_SNNPAMSA_20200309.004	4	Silte	2020	436026	883000	eutric sodic mollic Solonchaks clayic
SNNP/CzQ-Sediment_lacustrine/1003	708	ET_SNNPAMSA_20200309.005	4	Silte	2020	436707	882468	eutric sodic mollic Solonchaks clayic
SNNP/CzQ-Sediment_lacustrine/1003	711	ET_SNNPAMSA_20200309.008	4	Silte	2020	435954	884930	pellic calcic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/1003	712	ET_SNNPAMSA_20200309.009	4	Silte	2020	438345	883576	orthofluvi Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/1004	125	ET_SNNPAMMA_20191224.010	4	Mirab Abaya	2019	361774	702953	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/2100	14	ET_SNNPAMMA_20200401.P001	1	Mirab Abaya	2020	362753	703822	eutric leptic Regosols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzQ-Sediment_lacustrine/2100	16	ET_SNNPAMMA_20201501.P001	1	Mirab Abaya	2020	359268	689853	eutric calcaric orthofluvis Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/2100	17	ET_SNNPAMMA_20201501.P002	1	Mirab Abaya	2020	363020	692109	eutric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	18	ET_SNNPAMMA_20201501.P003	1	Mirab Abaya	2020	365978	698256	pellic calcic Vertisols aric hypereutric mazi
SNNP/CzQ-Sediment_lacustrine/2100	20	ET_SNNPAMMA_20201601.P001	1	Mirab Abaya	2020	361524	711128	eutric orthofluvis Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/2100	21	ET_SNNPAMMA_20201601.P002	1	Mirab Abaya	2020	362124	713043	eutric calcaric orthofluvis Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/2100	91	ET_SNNPAMMA_20191222.006	4	Mirab Abaya	2019	361500	692500	eutric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	103	ET_SNNPAMMA_20191223.003	4	Mirab Abaya	2019	364735	696193	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	105	ET_SNNPAMMA_20191223.005	4	Mirab Abaya	2019	365866	697867	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/2100	111	ET_SNNPAMMA_20191223.011	4	Mirab Abaya	2019	362753	703822	eutric leptic Regosols clayic
SNNP/CzQ-Sediment_lacustrine/2100	124	ET_SNNPAMMA_20191224.009	4	Mirab Abaya	2019	365760	699118	calcaric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	126	ET_SNNPAMMA_20191224.011	4	Mirab Abaya	2019	360921	704208	calcaric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	129	ET_SNNPAMMA_20191224.014	4	Mirab Abaya	2019	362415	707706	calcaric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	130	ET_SNNPAMMA_20191224.015	4	Mirab Abaya	2019	360948	707449	calcaric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	131	ET_SNNPAMMA_20191224.016	4	Mirab Abaya	2019	361001	706245	eutric Regosols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	132	ET_SNNPAMMA_20191224.017	4	Mirab Abaya	2019	361964	703611	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/2100	133	ET_SNNPAMMA_20191224.018	4	Mirab Abaya	2019	361656	707166	eutric Regosols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	134	ET_SNNPAMMA_20191225.001	4	Mirab Abaya	2019	361041	707406	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	138	ET_SNNPAMMA_20191225.005	4	Mirab Abaya	2019	362328	711253	nudinatric mollic Solonetz aric fluvic
SNNP/CzQ-Sediment_lacustrine/2100	139	ET_SNNPAMMA_20191225.006	4	Mirab Abaya	2019	361134	711082	eutric orthofluvis Fluvisols loamic
SNNP/CzQ-Sediment_lacustrine/2100	140	ET_SNNPAMMA_20191225.007	4	Mirab Abaya	2019	361980	711946	nudinatric mollic Solonetz aric fluvic
SNNP/CzQ-Sediment_lacustrine/2100	143	ET_SNNPAMMA_20191225.010	4	Mirab Abaya	2019	361110	712550	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	156	ET_SNNPAMMA_20191226.006	4	Mirab Abaya	2019	360647	713664	eutric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	204	ET_SNNPAMMA_20191229.009	4	Mirab Abaya	2019	361220	709520	chromic Luvisols clayic aric cutanic
SNNP/CzQ-Sediment_lacustrine/2100	210	ET_SNNPAMMA_20191230.001	4	Mirab Abaya	2019	366300	697500	eutric mollic Leptosols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	212	ET_SNNPAMMA_20191230.003	4	Mirab Abaya	2019	363234	693406	eutric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	213	ET_SNNPAMMA_20191230.004	4	Mirab Abaya	2019	361434	694395	calcaric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	214	ET_SNNPAMMA_20191230.005	4	Mirab Abaya	2019	361629	693797	calcaric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	216	ET_SNNPAMMA_20191230.007	4	Mirab Abaya	2019	365923	692112	leptic Regosols loamic aric
SNNP/CzQ-Sediment_lacustrine/2100	217	ET_SNNPAMMA_20191230.008	4	Mirab Abaya	2019	365487	691714	leptic Regosols loamic aric
SNNP/CzQ-Sediment_lacustrine/2100	218	ET_SNNPAMMA_20191230.009	4	Mirab Abaya	2019	363100	690938	eutric orthofluvis Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2100	227	ET_SNNPAMMA_20191231.002	4	Mirab Abaya	2019	354241	682874	calcaric orthofluvis Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/2100	285	ET_SNNPAMMA_20200103.005	4	Mirab Abaya	2020	366112	698281	eutric Regosols loamic aric
SNNP/CzQ-Sediment_lacustrine/2110	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/2130	26	ET_SNNPAMMA_20201801.P001	1	Mirab Abaya	2020	365885	693852	eutric orthofluvis Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/2130	137	ET_SNNPAMMA_20191225.004	4	Mirab Abaya	2019	361506	711499	vertic Luvisols clayic
SNNP/CzQ-Sediment_lacustrine/2200	8	ET_SNNPAMMA_20191226.P003	1	Mirab Abaya	2019	360700	700800	eutric leptic Regosols loamic aric
SNNP/CzQ-Sediment_lacustrine/2200	87	ET_SNNPAMMA_20191222.002	4	Mirab Abaya	2019	358821	688814	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2200	88	ET_SNNPAMMA_20191222.003	4	Mirab Abaya	2019	358363	689094	vertic Luvisols clayic
SNNP/CzQ-Sediment_lacustrine/2200	106	ET_SNNPAMMA_20191223.006	4	Mirab Abaya	2019	362307	698220	calcaric orthofluvis Fluvisols clayic
SNNP/CzQ-Sediment_lacustrine/2200	110	ET_SNNPAMMA_20191223.010	4	Mirab Abaya	2019	362841	700413	pellic calcic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/2200	123	ET_SNNPAMMA_20191224.008	4	Mirab Abaya	2019	360700	700800	eutric leptic Regosols loamic aric
SNNP/CzQ-Sediment_lacustrine/2200	127	ET_SNNPAMMA_20191224.012	4	Mirab Abaya	2019	359887	704390	calcaric orthofluvis Fluvisols loamic
SNNP/CzQ-Sediment_lacustrine/2200	135	ET_SNNPAMMA_20191225.002	4	Mirab Abaya	2019	360214	707132	skeletal vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/2200	205	ET_SNNPAMMA_20191229.010	4	Mirab Abaya	2019	360143	709624	leptic Regosols arenic aric
SNNP/CzQ-Sediment_lacustrine/2200	206	ET_SNNPAMMA_20191229.011	4	Mirab Abaya	2019	359930	701344	pellic Vertisols aric hypereutric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzQ-Sediment_lacustrine/2200	224	ET_SNNPAMMA_20191230.015	4	Mirab Abaya	2019	358734	688456	leptic Regosols loamic
SNNP/CzQ-Sediment_lacustrine/2200	704	ET_SNNPAMSA_20200309.001	4	Silte	2020	434808	881740	eutric sodic mollic Solonchaks clayic
SNNP/CzQ-Sediment_lacustrine/2200	706	ET_SNNPAMSA_20200309.003	4	Silte	2020	435273	882078	eutric sodic mollic Solonchaks clayic
SNNP/CzQ-Sediment_lacustrine/2210	207	ET_SNNPAMMA_20191229.012	4	Mirab Abaya	2019	360052	701120	leptic Regosols clayic aric
SNNP/CzQ-Sediment_lacustrine/2210	514	ET_SNNPAWSA_20200225.004	4	Silte	2020	440475	892142	eutric mollic Andosols clayic aric
SNNP/CzQ-Sediment_lacustrine/2230	151	ET_SNNPAMMA_20191226.001	4	Mirab Abaya	2019	362000	703000	pellic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/2230	524	ET_SNNPAWSA_20200226.004	4	Silte	2020	438720	889452	eutric orthofluvic Fluvisols loamic aric
SNNP/CzQ-Sediment_lacustrine/2230	705	ET_SNNPAMSA_20200309.002	4	Silte	2020	435470	881942	eutric sodic mollic Solonchaks clayic
SNNP/CzQ-Sediment_lacustrine/2300	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/2310	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/2330	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/3110	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/3121	9	ET_SNNPAMMA_20191227.P001	1	Mirab Abaya	2019	364500	700000	eutric leptic Regosols clayic aric
SNNP/CzQ-Sediment_lacustrine/3121	146	ET_SNNPAMMA_20191225.013	4	Mirab Abaya	2019	362183	712759	eutric orthofluvic Fluvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/3121	209	ET_SNNPAMMA_20191229.014	4	Mirab Abaya	2019	363725	697698	eutric lithic Leptosols loamic aric
SNNP/CzQ-Sediment_lacustrine/3121	313	ET_SNNPAMMA_20200105.003	4	Mirab Abaya	2020	364500	700000	leptic Regosols arenic aric
SNNP/CzQ-Sediment_lacustrine/3122	160	ET_SNNPAMMA_20191226.010	4	Mirab Abaya	2019	361210	715250	vertic Luvisols clayic aric
SNNP/CzQ-Sediment_lacustrine/3122	164	ET_SNNPAMMA_20191226.014	4	Mirab Abaya	2019	361795	716369	eutric lithic Leptosols loamic aric
SNNP/CzQ-Sediment_lacustrine/3122	252	ET_SNNPAMMA_20200101.007	4	Mirab Abaya	2020	363500	697300	pellic calcic Vertisols aric hypereutric
SNNP/CzQ-Sediment_lacustrine/3123	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/3130	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/3210	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/3221	149	ET_SNNPAMMA_20191225.016	4	Mirab Abaya	2019	364400	700400	leptic Regosols arenic aric
SNNP/CzQ-Sediment_lacustrine/3222	109	ET_SNNPAMMA_20191223.009	4	Mirab Abaya	2019	360424	698428	hyperskeletal lithic Leptosols arenic aric
SNNP/CzQ-Sediment_lacustrine/3222	136	ET_SNNPAMMA_20191225.003	4	Mirab Abaya	2019	359093	707419	calcaric cambic mollic Leptosols clayic aric
SNNP/CzQ-Sediment_lacustrine/3223	107	ET_SNNPAMMA_20191223.007	4	Mirab Abaya	2019	361527	696523	eutric mollic Leptosols clayic
SNNP/CzQ-Sediment_lacustrine/3223	113	ET_SNNPAMMA_20191223.013	4	Mirab Abaya	2019	358216	701229	eutric lithic Leptosols loamic aric
SNNP/CzQ-Sediment_lacustrine/3223	128	ET_SNNPAMMA_20191224.013	4	Mirab Abaya	2019	358662	704371	skeletal lithic Leptosols arenic aric
SNNP/CzQ-Sediment_lacustrine/3223	598	ET_SNNPAWSA_20200228.030	4	Silte	2020	428491	884211	hyperskeletal nudilithic Leptosols loamic
SNNP/CzQ-Sediment_lacustrine/3230	112	ET_SNNPAMMA_20191223.012	4	Mirab Abaya	2019	364253	703322	eutric leptic Regosols arenic
SNNP/CzQ-Sediment_lacustrine/3321	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/3322	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/3323	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/4300	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/4310	0		0		0	0	0	
SNNP/CzQ-Sediment_lacustrine/4330	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/1001	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/1002	15	ET_SNNPAMMA_20201401.P002	1	Mirab Abaya	2020	349713	681464	eutric orthofluvic Fluvisols clayic aric
SNNP/CzT-Basalt_lower_flood/1003	72	ET_SNNPAMMA_20191221.002	4	Mirab Abaya	2019	349368	681547	vertic Luvisols clayic
SNNP/CzT-Basalt_lower_flood/2100	76	ET_SNNPAMMA_20191221.006	4	Mirab Abaya	2019	352999	683374	orthofluvic Fluvisols loamic aric
SNNP/CzT-Basalt_lower_flood/2100	81	ET_SNNPAMMA_20191221.011	4	Mirab Abaya	2019	356770	683991	vertic Luvisols clayic
SNNP/CzT-Basalt_lower_flood/2100	298	ET_SNNPAMMA_20200104.003	4	Mirab Abaya	2020	352962	683309	dystic nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/2100	299	ET_SNNPAMMA_20200104.004	4	Mirab Abaya	2020	352441	683213	dystic nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/2110	312	ET_SNNPAMMA_20200105.002	4	Mirab Abaya	2020	357274	684736	orthofluvic Fluvisols loamic aric
SNNP/CzT-Basalt_lower_flood/2130	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Basalt_lower_flood/2200	19	ET_SNNPAMMA_20201501.P004	1	Mirab Abaya	2020	361702	700444	pellic calcic Vertisols aric hypereutric
SNNP/CzT-Basalt_lower_flood/2200	77	ET_SNNPAMMA_20191221.007	4	Mirab Abaya	2019	353569	684311	vertic Luvisols clayic
SNNP/CzT-Basalt_lower_flood/2200	92	ET_SNNPAMMA_20191222.007	4	Mirab Abaya	2019	351760	691518	vertic Luvisols clayic
SNNP/CzT-Basalt_lower_flood/2200	208	ET_SNNPAMMA_20191229.013	4	Mirab Abaya	2019	361642	700533	pellic Vertisols aric hypereutric
SNNP/CzT-Basalt_lower_flood/2200	255	ET_SNNPAMMA_20200101.010	4	Mirab Abaya	2020	352707	696006	pellic calcic Vertisols aric hypereutric
SNNP/CzT-Basalt_lower_flood/2200	257	ET_SNNPAMMA_20200101.012	4	Mirab Abaya	2020	355233	697880	pellic calcic Vertisols aric hypereutric
SNNP/CzT-Basalt_lower_flood/2200	296	ET_SNNPAMMA_20200104.001	4	Mirab Abaya	2020	349054	681675	dystic Regosols loamic
SNNP/CzT-Basalt_lower_flood/2210	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/2230	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/2300	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/2310	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/2330	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/3110	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/3121	82	ET_SNNPAMMA_20191221.012	4	Mirab Abaya	2019	357446	684120	eutric leptic Regosols clayic aric
SNNP/CzT-Basalt_lower_flood/3121	83	ET_SNNPAMMA_20191221.013	4	Mirab Abaya	2019	357500	684120	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/3122	225	ET_SNNPAMMA_20191230.016	4	Mirab Abaya	2019	356273	683819	hyperskeletal lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3123	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/3130	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/3210	260	ET_SNNPAMMA_20200101.015	4	Mirab Abaya	2020	356900	709500	dystic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3210	262	ET_SNNPAMMA_20200102.001	4	Mirab Abaya	2020	355300	709500	dystic Leptosols clayic
SNNP/CzT-Basalt_lower_flood/3210	308	ET_SNNPAMMA_20200104.013	4	Mirab Abaya	2020	354535	694332	dystic nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3221	108	ET_SNNPAMMA_20191223.008	4	Mirab Abaya	2019	360478	696793	eutric nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3221	301	ET_SNNPAMMA_20200104.006	4	Mirab Abaya	2020	353330	684129	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3222	73	ET_SNNPAMMA_20191221.003	4	Mirab Abaya	2019	349833	682414	eutric nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3222	85	ET_SNNPAMMA_20191221.015	4	Mirab Abaya	2019	357927	685719	eutric mollic Leptosols clayic
SNNP/CzT-Basalt_lower_flood/3222	114	ET_SNNPAMMA_20191223.014	4	Mirab Abaya	2019	356339	702769	eutric Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3222	121	ET_SNNPAMMA_20191224.006	4	Mirab Abaya	2019	354628	701540	lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3222	243	ET_SNNPAMMA_20191231.018	4	Mirab Abaya	2019	357050	700050	dystic nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3222	253	ET_SNNPAMMA_20200101.008	4	Mirab Abaya	2020	352887	696741	dystic Regosols clayic
SNNP/CzT-Basalt_lower_flood/3222	256	ET_SNNPAMMA_20200101.011	4	Mirab Abaya	2020	354111	696350	dystic Regosols clayic aric
SNNP/CzT-Basalt_lower_flood/3222	261	ET_SNNPAMMA_20200101.016	4	Mirab Abaya	2020	356050	708950	dystic Regosols loamic
SNNP/CzT-Basalt_lower_flood/3222	265	ET_SNNPAMMA_20200102.004	4	Mirab Abaya	2020	353800	708750	dystic Leptosols clayic
SNNP/CzT-Basalt_lower_flood/3222	288	ET_SNNPAMMA_20200103.008	4	Mirab Abaya	2020	352589	685418	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3222	290	ET_SNNPAMMA_20200103.010	4	Mirab Abaya	2020	348613	687615	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3222	291	ET_SNNPAMMA_20200103.011	4	Mirab Abaya	2020	349979	685545	eutric Regosols loamic
SNNP/CzT-Basalt_lower_flood/3222	300	ET_SNNPAMMA_20200104.005	4	Mirab Abaya	2020	352194	684020	dystic nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3223	84	ET_SNNPAMMA_20191221.014	4	Mirab Abaya	2019	357900	684410	eutric mollic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3223	94	ET_SNNPAMMA_20191222.009	4	Mirab Abaya	2019	357206	690856	eutric Regosols clayic aric
SNNP/CzT-Basalt_lower_flood/3223	97	ET_SNNPAMMA_20191222.012	4	Mirab Abaya	2019	357289	691320	eutric mollic Leptosols clayic aric
SNNP/CzT-Basalt_lower_flood/3223	264	ET_SNNPAMMA_20200102.003	4	Mirab Abaya	2020	354800	708900	dystic Leptosols clayic
SNNP/CzT-Basalt_lower_flood/3223	289	ET_SNNPAMMA_20200103.009	4	Mirab Abaya	2020	348377	684675	eutric Regosols loamic
SNNP/CzT-Basalt_lower_flood/3223	295	ET_SNNPAMMA_20200103.015	4	Mirab Abaya	2020	347971	683518	calcaric orthofluvic Fluvisols clayic aric
SNNP/CzT-Basalt_lower_flood/3223	302	ET_SNNPAMMA_20200104.007	4	Mirab Abaya	2020	353734	686642	eutric Regosols loamic
SNNP/CzT-Basalt_lower_flood/3223	303	ET_SNNPAMMA_20200104.008	4	Mirab Abaya	2020	352067	688498	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3230	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Basalt_lower_flood/3310	309	ET_SNNPAMMA_20200104.014	4	Mirab Abaya	2020	351808	696857	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3321	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/3322	269	ET_SNNPAMMA_20200102.008	4	Mirab Abaya	2020	353250	707000	leptic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3322	273	ET_SNNPAMMA_20200102.012	4	Mirab Abaya	2020	351816	707339	leptic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3322	274	ET_SNNPAMMA_20200102.013	4	Mirab Abaya	2020	352000	707800	dystic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3322	283	ET_SNNPAMMA_20200103.003	4	Mirab Abaya	2020	349212	707106	haplic Alisols loamic aric
SNNP/CzT-Basalt_lower_flood/3322	284	ET_SNNPAMMA_20200103.004	4	Mirab Abaya	2020	351567	710935	dystic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3322	293	ET_SNNPAMMA_20200103.013	4	Mirab Abaya	2020	346800	686849	calcaric orthofluvic Fluvisols clayic aric
SNNP/CzT-Basalt_lower_flood/3323	2	ET_SNNPAMMA_20191222.P002	1	Mirab Abaya	2019	353352	689699	dystic leptic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3323	93	ET_SNNPAMMA_20191222.008	4	Mirab Abaya	2019	352350	690300	eutric mollic Leptosols clayic aric
SNNP/CzT-Basalt_lower_flood/3323	115	ET_SNNPAMMA_20191223.015	4	Mirab Abaya	2019	351800	699200	eutric Regosols loamic
SNNP/CzT-Basalt_lower_flood/3323	116	ET_SNNPAMMA_20191224.001	4	Mirab Abaya	2019	351050	699500	eutric lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3323	237	ET_SNNPAMMA_20191231.012	4	Mirab Abaya	2019	349950	699950	dystic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3323	239	ET_SNNPAMMA_20191231.014	4	Mirab Abaya	2019	351300	700390	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/3323	254	ET_SNNPAMMA_20200101.009	4	Mirab Abaya	2020	352400	696650	dystic Leptosols clayic aric
SNNP/CzT-Basalt_lower_flood/3323	266	ET_SNNPAMMA_20200102.005	4	Mirab Abaya	2020	354955	706800	dystic Leptosols clayic aric
SNNP/CzT-Basalt_lower_flood/3323	267	ET_SNNPAMMA_20200102.006	4	Mirab Abaya	2020	354250	706850	dystic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3323	270	ET_SNNPAMMA_20200102.009	4	Mirab Abaya	2020	353000	706250	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/3323	280	ET_SNNPAMMA_20200102.019	4	Mirab Abaya	2020	348100	707002	haplic Luvisols loamic
SNNP/CzT-Basalt_lower_flood/3323	294	ET_SNNPAMMA_20200103.014	4	Mirab Abaya	2020	346591	686571	calcaric orthofluvic Fluvisols clayic aric
SNNP/CzT-Basalt_lower_flood/3323	304	ET_SNNPAMMA_20200104.009	4	Mirab Abaya	2020	351938	689716	dystic Regosols loamic
SNNP/CzT-Basalt_lower_flood/3323	305	ET_SNNPAMMA_20200104.010	4	Mirab Abaya	2020	353716	690824	dystic nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3323	306	ET_SNNPAMMA_20200104.011	4	Mirab Abaya	2020	355153	692087	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/3323	307	ET_SNNPAMMA_20200104.012	4	Mirab Abaya	2020	354072	690992	eutric Regosols loamic
SNNP/CzT-Basalt_lower_flood/3323	310	ET_SNNPAMMA_20200104.015	4	Mirab Abaya	2020	351864	696036	eutric Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3330	268	ET_SNNPAMMA_20200102.007	4	Mirab Abaya	2020	353800	706800	dystic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/3410	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/3422	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/3423	234	ET_SNNPAMMA_20191231.009	4	Mirab Abaya	2019	348300	700950	eutric Regosols clayic aric
SNNP/CzT-Basalt_lower_flood/3423	238	ET_SNNPAMMA_20191231.013	4	Mirab Abaya	2019	349879	698945	eutric mollic Leptosols clayic aric
SNNP/CzT-Basalt_lower_flood/3423	281	ET_SNNPAMMA_20200103.001	4	Mirab Abaya	2020	348250	706100	dystic nudilithic Leptosols loamic
SNNP/CzT-Basalt_lower_flood/3430	282	ET_SNNPAMMA_20200103.002	4	Mirab Abaya	2020	349018	706220	dystic Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/4200	90	ET_SNNPAMMA_20191222.005	4	Mirab Abaya	2019	352025	692778	eutric Regosols clayic aric
SNNP/CzT-Basalt_lower_flood/4200	95	ET_SNNPAMMA_20191222.010	4	Mirab Abaya	2019	353500	692500	eutric Regosols clayic aric
SNNP/CzT-Basalt_lower_flood/4200	96	ET_SNNPAMMA_20191222.011	4	Mirab Abaya	2019	354990	692980	eutric Regosols clayic
SNNP/CzT-Basalt_lower_flood/4200	244	ET_SNNPAMMA_20191231.019	4	Mirab Abaya	2019	357500	701800	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/4210	245	ET_SNNPAMMA_20191231.020	4	Mirab Abaya	2019	355640	703640	dystic Regosols loamic
SNNP/CzT-Basalt_lower_flood/4230	242	ET_SNNPAMMA_20191231.017	4	Mirab Abaya	2019	356200	701050	dystic Regosols loamic
SNNP/CzT-Basalt_lower_flood/4300	12	ET_SNNPAMMA_20200301.P001	1	Mirab Abaya	2020	348212	706556	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/4300	27	ET_SNNPAMMA_20201503.P001	1	Mirab Abaya	2020	351351	707456	lamellic stagnic Alisols clayic aric
SNNP/CzT-Basalt_lower_flood/4300	240	ET_SNNPAMMA_20191231.015	4	Mirab Abaya	2019	352193	700105	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/4300	246	ET_SNNPAMMA_20200101.001	4	Mirab Abaya	2020	354900	703750	lithic Leptosols loamic aric
SNNP/CzT-Basalt_lower_flood/4300	276	ET_SNNPAMMA_20200102.015	4	Mirab Abaya	2020	351511	707777	haplic Luvisols loamic
SNNP/CzT-Basalt_lower_flood/4300	278	ET_SNNPAMMA_20200102.017	4	Mirab Abaya	2020	350283	708297	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/4310	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Basalt_lower_flood/4330	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/4400	11	ET_SNNPAMMA_20200101.P001	1	Mirab Abaya	2020	347108	700837	haplic Alisols clayic aric
SNNP/CzT-Basalt_lower_flood/4400	13	ET_SNNPAMMA_20200301.P002	1	Mirab Abaya	2020	351042	707087	chromic vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/4400	231	ET_SNNPAMMA_20191231.006	4	Mirab Abaya	2019	346706	700773	eutric Regosols loamic aric
SNNP/CzT-Basalt_lower_flood/4400	232	ET_SNNPAMMA_20191231.007	4	Mirab Abaya	2019	347112	700840	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/4400	233	ET_SNNPAMMA_20191231.008	4	Mirab Abaya	2019	347257	700705	vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/4400	275	ET_SNNPAMMA_20200102.014	4	Mirab Abaya	2020	351000	707000	chromic vertic Luvisols clayic aric
SNNP/CzT-Basalt_lower_flood/4400	287	ET_SNNPAMMA_20200103.007	4	Mirab Abaya	2020	347257	700705	vertic Alisols clayic aric
SNNP/CzT-Basalt_lower_flood/4400	311	ET_SNNPAMMA_20200105.001	4	Mirab Abaya	2020	347150	701400	vertic Alisols clayic aric
SNNP/CzT-Basalt_lower_flood/4410	0		0		0	0	0	
SNNP/CzT-Basalt_lower_flood/4430	248	ET_SNNPAMMA_20200101.003	4	Mirab Abaya	2020	347900	700500	dystic Regosols loamic aric
SNNP/CzT-Basalt_upper_flood/1001	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/1002	183	ET_SNNPAMMA_20191228.003	4	Mirab Abaya	2019	369248	721185	eutric orthofluvic Fluvisols clayic aric
SNNP/CzT-Basalt_upper_flood/1003	182	ET_SNNPAMMA_20191228.002	4	Mirab Abaya	2019	368969	720839	eutric Regosols clayic aric
SNNP/CzT-Basalt_upper_flood/1004	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/2100	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/2110	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/2130	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/2200	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/2210	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/2230	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/3110	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/3121	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/3122	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/3123	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/3130	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/3210	154	ET_SNNPAMMA_20191226.004	4	Mirab Abaya	2019	358584	711500	eutric nudilithic Leptosols loamic
SNNP/CzT-Basalt_upper_flood/3221	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/3222	153	ET_SNNPAMMA_20191226.003	4	Mirab Abaya	2019	357155	713394	eutric nudilithic Leptosols loamic
SNNP/CzT-Basalt_upper_flood/3222	259	ET_SNNPAMMA_20200101.014	4	Mirab Abaya	2020	357600	710750	dystic Leptosols clayic aric
SNNP/CzT-Basalt_upper_flood/3222	277	ET_SNNPAMMA_20200102.016	4	Mirab Abaya	2020	356750	709150	dystic lithic Leptosols loamic aric
SNNP/CzT-Basalt_upper_flood/3223	258	ET_SNNPAMMA_20200101.013	4	Mirab Abaya	2020	358200	710650	dystic Leptosols clayic
SNNP/CzT-Basalt_upper_flood/3223	263	ET_SNNPAMMA_20200102.002	4	Mirab Abaya	2020	355850	707850	dystic Leptosols clayic
SNNP/CzT-Basalt_upper_flood/3230	155	ET_SNNPAMMA_20191226.005	4	Mirab Abaya	2019	358413	712990	eutric lithic Leptosols loamic aric
SNNP/CzT-Basalt_upper_flood/4200	0		0		0	0	0	
SNNP/CzT-Basalt_upper_flood/4230	0		0		0	0	0	
SNNP/CzT-Ignimbrite_welded/1002	446	ET_SNNPAWKB_20200203.027	4	Kacha Bira	2020	357431	791832	orthofluvic Fluvisols clayic aric
SNNP/CzT-Ignimbrite_welded/1002	449	ET_SNNPAWKB_20200203.030	4	Kacha Bira	2020	358325	793859	eutric orthofluvic Fluvisols clayic aric
SNNP/CzT-Ignimbrite_welded/1002	454	ET_SNNPAWKB_20200203.035	4	Kacha Bira	2020	358422	794106	eutric orthofluvic Fluvisols loamic aric
SNNP/CzT-Ignimbrite_welded/1002	548	ET_SNNPAWSA_20200227.008	4	Silte	2020	436546	892632	pellic Vertisols aric hypereutric
SNNP/CzT-Ignimbrite_welded/1003	32	ET_SNNPAWKB_20200207.P001	1	Kacha Bira	2020	358290	793393	dystic fluvic umbric Planosols loamic aric
SNNP/CzT-Ignimbrite_welded/1003	314	ET_SNNPAWKB_20200129.001	4	Kacha Bira	2020	365045	797931	dystic umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/1003	336	ET_SNNPAWKB_20200130.003	4	Kacha Bira	2020	368481	796413	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/1003	344	ET_SNNPAWKB_20200130.012	4	Kacha Bira	2020	363607	798183	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/1003	347	ET_SNNPAWKB_20200130.015	4	Kacha Bira	2020	366742	795522	eutric leptic Regosols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Ignimbrite_welded/1003	366	ET_SNNPAWK_B_20200201.014	4	Kacha Bira	2020	364555	793124	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/1003	445	ET_SNNPAWK_B_20200203.026	4	Kacha Bira	2020	357303	791705	orthofluvic Fluvisols clayic aric
SNNP/CzT-Ignimbrite_welded/1003	450	ET_SNNPAWK_B_20200203.031	4	Kacha Bira	2020	358700	793800	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Ignimbrite_welded/1003	456	ET_SNNPAWK_B_20200204.002	4	Kacha Bira	2020	359114	794882	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/1004	0		0		0	0	0	
SNNP/CzT-Ignimbrite_welded/2200	38	ET_SNNPAWK_B_20200209.P001	1	Kacha Bira	2020	360790	793932	alic umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2200	41	ET_SNNPAWK_B_20200210.P003	1	Kacha Bira	2020	365885	791893	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2200	334	ET_SNNPAWK_B_20200130.001	4	Kacha Bira	2020	367517	797445	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2200	338	ET_SNNPAWK_B_20200130.005	4	Kacha Bira	2020	362419	796528	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Ignimbrite_welded/2200	345	ET_SNNPAWK_B_20200130.013	4	Kacha Bira	2020	361400	795700	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Ignimbrite_welded/2200	348	ET_SNNPAWK_B_20200130.016	4	Kacha Bira	2020	366449	795597	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2200	349	ET_SNNPAWK_B_20200130.017	4	Kacha Bira	2020	367700	795796	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2200	350	ET_SNNPAWK_B_20200130.018	4	Kacha Bira	2020	365701	795219	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2200	358	ET_SNNPAWK_B_20200201.006	4	Kacha Bira	2020	364340	794340	acric umbric rhodic Nitisols
SNNP/CzT-Ignimbrite_welded/2200	365	ET_SNNPAWK_B_20200201.013	4	Kacha Bira	2020	362208	791697	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2200	367	ET_SNNPAWK_B_20200201.015	4	Kacha Bira	2020	365368	792725	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2200	451	ET_SNNPAWK_B_20200203.032	4	Kacha Bira	2020	359084	793688	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Ignimbrite_welded/2200	458	ET_SNNPAWK_B_20200204.004	4	Kacha Bira	2020	359065	795486	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2200	474	ET_SNNPAWK_B_20200204.020	4	Kacha Bira	2020	359427	797260	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2200	478	ET_SNNPAWK_B_20200205.001	4	Kacha Bira	2020	359834	798540	rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2200	550	ET_SNNPAW_S_20200227.010	4	Silte	2020	435880	892527	pellic calcic Vertisols aric hypereutric
SNNP/CzT-Ignimbrite_welded/2200	555	ET_SNNPAW_S_20200227.015	4	Silte	2020	434609	893210	eutric leptic Regosols clayic
SNNP/CzT-Ignimbrite_welded/2200	602	ET_SNNPAM_S_20200229.002	4	Silte	2020	426543	883962	haplic Luvisols loamic aric
SNNP/CzT-Ignimbrite_welded/2200	612	ET_SNNPAM_S_20200229.012	4	Silte	2020	424580	886664	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2200	645	ET_SNNPAM_S_20200302.019	4	Silte	2020	421217	880655	haplic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2200	683	ET_SNNPAW_S_20200304.003	4	Silte	2020	419214	879596	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/2210	340	ET_SNNPAWK_B_20200130.007	4	Kacha Bira	2020	363072	796994	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2210	374	ET_SNNPAWK_B_20200201.022	4	Kacha Bira	2020	368049	793435	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2210	452	ET_SNNPAWK_B_20200203.033	4	Kacha Bira	2020	359277	793192	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Ignimbrite_welded/2210	605	ET_SNNPAM_S_20200229.005	4	Silte	2020	425635	883579	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2230	40	ET_SNNPAWK_B_20200210.P002	1	Kacha Bira	2020	367102	793223	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2230	341	ET_SNNPAWK_B_20200130.008	4	Kacha Bira	2020	362910	797613	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2230	360	ET_SNNPAWK_B_20200201.008	4	Kacha Bira	2020	364277	793353	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2230	370	ET_SNNPAWK_B_20200201.018	4	Kacha Bira	2020	366123	793123	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2230	448	ET_SNNPAWK_B_20200203.029	4	Kacha Bira	2020	358109	791543	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2230	453	ET_SNNPAWK_B_20200203.034	4	Kacha Bira	2020	358233	792660	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2300	52	ET_SNNPAW_S_20200229.P003	1	Silte	2020	421818	886311	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2300	54	ET_SNNPAW_S_20200306.P002	1	Silte	2020	418776	880853	haplic Alisols loamic aric
SNNP/CzT-Ignimbrite_welded/2300	353	ET_SNNPAWK_B_20200201.001	4	Kacha Bira	2020	367549	798429	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2300	376	ET_SNNPAWK_B_20200201.024	4	Kacha Bira	2020	369231	796542	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2300	377	ET_SNNPAWK_B_20200201.025	4	Kacha Bira	2020	369250	796308	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/2300	395	ET_SNNPAWK_B_20200202.006	4	Kacha Bira	2020	370856	797191	rhodic nudiargic Luvisols loamic aric nitic
SNNP/CzT-Ignimbrite_welded/2300	631	ET_SNNPAM_S_20200302.005	4	Silte	2020	416505	887811	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/2300	634	ET_SNNPAM_S_20200302.008	4	Silte	2020	417522	886112	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/2300	638	ET_SNNPAM_S_20200302.012	4	Silte	2020	420117	884233	haplic Alisols siltic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Ignimbrite_welded/2300	640	ET_SNNPAMSA_20200302.014	4	Silte	2020	419619	883493	haplic Alisols siltic aric
SNNP/CzT-Ignimbrite_welded/2300	681	ET_SNNPAWSA_20200304.001	4	Silte	2020	417620	883073	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/2300	684	ET_SNNPAWSA_20200304.004	4	Silte	2020	418982	880046	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/2310	380	ET_SNNPAWKB_20200201.028	4	Kacha Bira	2020	369814	796396	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/2310	397	ET_SNNPAWKB_20200202.008	4	Kacha Bira	2020	370909	798419	nudiargic vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/2310	639	ET_SNNPAMSA_20200302.013	4	Silte	2020	419878	884021	haplic Alisols siltic aric
SNNP/CzT-Ignimbrite_welded/2330	35	ET_SNNPAWKB_20200208.P002	1	Kacha Bira	2020	370633	798540	vertic Luvisols loamic aric
SNNP/CzT-Ignimbrite_welded/2330	386	ET_SNNPAWKB_20200201.034	4	Kacha Bira	2020	371902	796651	acric umbric rhodic Nitisols
SNNP/CzT-Ignimbrite_welded/2330	630	ET_SNNPAMSA_20200302.004	4	Silte	2020	417778	887029	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/2330	642	ET_SNNPAMSA_20200302.016	4	Silte	2020	419869	882069	haplic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/2330	686	ET_SNNPAWSA_20200304.006	4	Silte	2020	418828	881238	eutric mollic Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/3110	0		0		0	0	0	
SNNP/CzT-Ignimbrite_welded/3123	0		0		0	0	0	
SNNP/CzT-Ignimbrite_welded/3210	316	ET_SNNPAWKB_20200129.003	4	Kacha Bira	2020	364910	798352	leptic Regosols clayic aric
SNNP/CzT-Ignimbrite_welded/3210	339	ET_SNNPAWKB_20200130.006	4	Kacha Bira	2020	361925	796119	dystric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3210	369	ET_SNNPAWKB_20200201.017	4	Kacha Bira	2020	366019	792905	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3210	459	ET_SNNPAWKB_20200204.005	4	Kacha Bira	2020	359997	795637	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3210	475	ET_SNNPAWKB_20200204.021	4	Kacha Bira	2020	359656	797505	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3210	608	ET_SNNPAMSA_20200229.008	4	Silte	2020	423500	883671	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3210	623	ET_SNNPAMSA_20200229.023	4	Silte	2020	422188	889127	hyperskeletal nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3221	29	ET_SNNPAWKB_20200204.P001	1	Kacha Bira	2020	359708	799187	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	33	ET_SNNPAWKB_20200207.P002	1	Kacha Bira	2020	362205	797051	eutric mollic rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3221	55	ET_SNNPAWST_20200306.P003	1	Silte	2020	424330	885420	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	60	ET_SNNPAWST_20200308.P002	1	Silte	2020	423194	882752	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	315	ET_SNNPAWKB_20200129.002	4	Kacha Bira	2020	365042	798087	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3221	337	ET_SNNPAWKB_20200130.004	4	Kacha Bira	2020	362887	796528	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3221	343	ET_SNNPAWKB_20200130.011	4	Kacha Bira	2020	363296	798333	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3221	352	ET_SNNPAWKB_20200130.020	4	Kacha Bira	2020	365765	794643	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3221	359	ET_SNNPAWKB_20200201.007	4	Kacha Bira	2020	364192	794412	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3221	361	ET_SNNPAWKB_20200201.009	4	Kacha Bira	2020	362997	794337	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3221	362	ET_SNNPAWKB_20200201.010	4	Kacha Bira	2020	363625	794882	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3221	363	ET_SNNPAWKB_20200201.011	4	Kacha Bira	2020	363625	794882	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3221	384	ET_SNNPAWKB_20200201.032	4	Kacha Bira	2020	372447	795626	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	447	ET_SNNPAWKB_20200203.028	4	Kacha Bira	2020	357837	791746	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3221	457	ET_SNNPAWKB_20200204.003	4	Kacha Bira	2020	358917	794837	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3221	476	ET_SNNPAWKB_20200204.022	4	Kacha Bira	2020	359474	797454	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3221	482	ET_SNNPAWKB_20200205.005	4	Kacha Bira	2020	359102	798938	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	551	ET_SNNPAWSA_20200227.011	4	Silte	2020	435502	892841	skeletal lithic Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	559	ET_SNNPAWSA_20200227.019	4	Silte	2020	435040	891590	hyperskeletal nudilithic Leptosols clayic
SNNP/CzT-Ignimbrite_welded/3221	609	ET_SNNPAMSA_20200229.009	4	Silte	2020	424321	885424	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	611	ET_SNNPAMSA_20200229.011	4	Silte	2020	424321	885424	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3221	620	ET_SNNPAMSA_20200229.020	4	Silte	2020	423855	889310	haplic Luvisols siltic aric
SNNP/CzT-Ignimbrite_welded/3221	646	ET_SNNPAMSA_20200302.020	4	Silte	2020	423223	882704	haplic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	49	ET_SNNPAWKB_20200214.P002	1	Kacha Bira	2020	362354	794846	rhodic Lixisols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	50	ET_SNNPAWST_20200229.P001	1	Silte	2020	422723	889385	eutric nudilithic Leptosols loamic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Ignimbrite_welded/3222	317	ET_SNNPAWK_B_20200129.004	4	Kacha Bira	2020	364868	798248	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3222	351	ET_SNNPAWK_B_20200130.019	4	Kacha Bira	2020	365493	795219	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3222	364	ET_SNNPAWK_B_20200201.012	4	Kacha Bira	2020	361473	791168	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3222	368	ET_SNNPAWK_B_20200201.016	4	Kacha Bira	2020	365723	792363	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3222	372	ET_SNNPAWK_B_20200201.020	4	Kacha Bira	2020	366609	793777	eutric Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	385	ET_SNNPAWK_B_20200201.033	4	Kacha Bira	2020	372411	795626	eutric mollic Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	455	ET_SNNPAWK_B_20200204.001	4	Kacha Bira	2020	358658	794821	rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3222	460	ET_SNNPAWK_B_20200204.006	4	Kacha Bira	2020	360465	796321	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3222	473	ET_SNNPAWK_B_20200204.019	4	Kacha Bira	2020	359471	797066	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3222	477	ET_SNNPAWK_B_20200204.023	4	Kacha Bira	2020	359690	797714	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/3222	483	ET_SNNPAWK_B_20200205.006	4	Kacha Bira	2020	358647	799170	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	552	ET_SNNPAW_S_20200227.012	4	Silte	2020	435012	892671	skeletal lithic Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	554	ET_SNNPAW_S_20200227.014	4	Silte	2020	434920	893210	eutric mollic Leptosols clayic
SNNP/CzT-Ignimbrite_welded/3222	556	ET_SNNPAW_S_20200227.016	4	Silte	2020	434920	893328	eutric leptic Regosols clayic
SNNP/CzT-Ignimbrite_welded/3222	603	ET_SNNPAM_S_20200229.003	4	Silte	2020	426181	884262	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	606	ET_SNNPAM_S_20200229.006	4	Silte	2020	423571	883968	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	607	ET_SNNPAM_S_20200229.007	4	Silte	2020	423373	883968	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	615	ET_SNNPAM_S_20200229.015	4	Silte	2020	423690	888037	eutric vertic Cambisols clayic aric
SNNP/CzT-Ignimbrite_welded/3222	621	ET_SNNPAM_S_20200229.021	4	Silte	2020	423602	889413	haplic Luvisols siltic aric
SNNP/CzT-Ignimbrite_welded/3222	644	ET_SNNPAM_S_20200302.018	4	Silte	2020	422042	880992	hyperskeletal nudilithic Leptosols clayic
SNNP/CzT-Ignimbrite_welded/3222	647	ET_SNNPAM_S_20200302.021	4	Silte	2020	422355	880352	eutric nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3223	319	ET_SNNPAWK_B_20200129.006	4	Kacha Bira	2020	365500	798578	eutric Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/3223	480	ET_SNNPAWK_B_20200205.003	4	Kacha Bira	2020	360749	798592	dystric leptic Regosols loamic aric
SNNP/CzT-Ignimbrite_welded/3223	553	ET_SNNPAW_S_20200227.013	4	Silte	2020	434898	893008	skeletal nudilithic Leptosols clayic
SNNP/CzT-Ignimbrite_welded/3223	604	ET_SNNPAM_S_20200229.004	4	Silte	2020	426134	883530	eutric leptic Regosols clayic aric
SNNP/CzT-Ignimbrite_welded/3223	610	ET_SNNPAM_S_20200229.010	4	Silte	2020	423680	885566	eutric nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3223	616	ET_SNNPAM_S_20200229.016	4	Silte	2020	423130	887998	eutric nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3223	622	ET_SNNPAM_S_20200229.022	4	Silte	2020	422480	889328	hyperskeletal nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3223	626	ET_SNNPAM_S_20200229.026	4	Silte	2020	423871	886178	eutric nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3230	342	ET_SNNPAWK_B_20200130.009	4	Kacha Bira	2020	362196	797387	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/3230	481	ET_SNNPAWK_B_20200205.004	4	Kacha Bira	2020	360571	798977	dystric umbric rhodic Nitisols
SNNP/CzT-Ignimbrite_welded/3310	624	ET_SNNPAM_S_20200229.024	4	Silte	2020	421690	889114	hyperskeletal nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3322	388	ET_SNNPAWK_B_20200201.036	4	Kacha Bira	2020	372295	797341	dystric umbric lithic Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/3322	633	ET_SNNPAM_S_20200302.007	4	Silte	2020	416411	887043	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/3322	637	ET_SNNPAM_S_20200302.011	4	Silte	2020	419867	884802	eutric leptic Regosols clayic aric
SNNP/CzT-Ignimbrite_welded/3322	687	ET_SNNPAW_S_20200304.007	4	Silte	2020	418297	882769	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/3323	44	ET_SNNPAWK_B_20200212.P002	1	Kacha Bira	2020	372617	797844	eutric lithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3323	389	ET_SNNPAWK_B_20200201.037	4	Kacha Bira	2020	372536	797706	dystric umbric hyperskeletal Leptosols clayic
SNNP/CzT-Ignimbrite_welded/3323	617	ET_SNNPAM_S_20200229.017	4	Silte	2020	422880	887929	eutric nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3323	625	ET_SNNPAM_S_20200229.025	4	Silte	2020	421862	889404	hyperskeletal nudilithic Leptosols loamic
SNNP/CzT-Ignimbrite_welded/3323	629	ET_SNNPAM_S_20200302.003	4	Silte	2020	420273	886603	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/3323	635	ET_SNNPAM_S_20200302.009	4	Silte	2020	418887	885451	eutric leptic Regosols clayic aric
SNNP/CzT-Ignimbrite_welded/3330	0		0		0	0	0	
SNNP/CzT-Ignimbrite_welded/4200	42	ET_SNNPAWK_B_20200210.P004	1	Kacha Bira	2020	367617	795851	alic umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/4200	43	ET_SNNPAWK_B_20200212.P001	1	Kacha Bira	2020	369018	796721	rhodic vertic Luvisols loamic aric nitic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Ignimbrite_welded/4200	318	ET_SNNPAWK_B_20200129.005	4	Kacha Bira	2020	365665	798322	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/4200	335	ET_SNNPAWK_B_20200130.002	4	Kacha Bira	2020	367368	796683	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/4200	346	ET_SNNPAWK_B_20200130.014	4	Kacha Bira	2020	366967	795345	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/4200	354	ET_SNNPAWK_B_20200201.002	4	Kacha Bira	2020	366749	798040	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/4200	371	ET_SNNPAWK_B_20200201.019	4	Kacha Bira	2020	366673	793575	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/4200	375	ET_SNNPAWK_B_20200201.023	4	Kacha Bira	2020	368738	796429	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/4200	479	ET_SNNPAWK_B_20200205.002	4	Kacha Bira	2020	360005	798815	vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/4200	643	ET_SNNPAMSA_20200302.017	4	Silte	2020	420354	881654	hyperskeletal lithic Leptosols clayic aric
SNNP/CzT-Ignimbrite_welded/4200	682	ET_SNNPAWSA_20200304.002	4	Silte	2020	419269	879108	pellic Vertisols aric hypereutric
SNNP/CzT-Ignimbrite_welded/4210	373	ET_SNNPAWK_B_20200201.021	4	Kacha Bira	2020	367780	793350	acric umbric rhodic Nitisols
SNNP/CzT-Ignimbrite_welded/4230	0		0		0	0	0	
SNNP/CzT-Ignimbrite_welded/4300	53	ET_SNNPAWST_20200306.P001	1	Silte	2020	417655	883236	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/4300	387	ET_SNNPAWK_B_20200201.035	4	Kacha Bira	2020	372190	797100	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/4300	398	ET_SNNPAWK_B_20200202.009	4	Kacha Bira	2020	370535	798716	nudiargic vertic Luvisols clayic aric
SNNP/CzT-Ignimbrite_welded/4300	627	ET_SNNPAMSA_20200302.001	4	Silte	2020	421080	886325	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/4300	632	ET_SNNPAMSA_20200302.006	4	Silte	2020	416238	887850	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/4300	636	ET_SNNPAMSA_20200302.010	4	Silte	2020	419072	885179	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/4300	641	ET_SNNPAMSA_20200302.015	4	Silte	2020	419654	883221	haplic Alisols siltic aric
SNNP/CzT-Ignimbrite_welded/4300	685	ET_SNNPAWSA_20200304.005	4	Silte	2020	418875	880527	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/4300	688	ET_SNNPAWSA_20200304.008	4	Silte	2020	417695	883287	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/4310	378	ET_SNNPAWK_B_20200201.026	4	Kacha Bira	2020	369874	796588	acric umbric rhodic Nitisols aric
SNNP/CzT-Ignimbrite_welded/4310	396	ET_SNNPAWK_B_20200202.007	4	Kacha Bira	2020	370943	797994	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Ignimbrite_welded/4310	628	ET_SNNPAMSA_20200302.002	4	Silte	2020	420630	886540	vertic Alisols clayic aric
SNNP/CzT-Ignimbrite_welded/4330	379	ET_SNNPAWK_B_20200201.027	4	Kacha Bira	2020	369984	796768	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/1002	442	ET_SNNPAWK_B_20200203.023	4	Kacha Bira	2020	358690	805523	nudiargic vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/1002	533	ET_SNNPAWSA_20200226.013	4	Silte	2020	434981	887632	eutric mollic Solonchaks clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/1003	401	ET_SNNPAWK_B_20200202.012	4	Kacha Bira	2020	367698	802144	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2200	329	ET_SNNPAWK_B_20200129.017	4	Kacha Bira	2020	365002	800031	haplic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2200	484	ET_SNNPAWK_B_20200205.007	4	Kacha Bira	2020	359268	799433	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/2210	487	ET_SNNPAWK_B_20200205.010	4	Kacha Bira	2020	360312	799933	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2230	320	ET_SNNPAWK_B_20200129.007	4	Kacha Bira	2020	365500	798814	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2230	461	ET_SNNPAWK_B_20200204.007	4	Kacha Bira	2020	363710	799594	dystic umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/2230	465	ET_SNNPAWK_B_20200204.011	4	Kacha Bira	2020	363720	799633	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/2300	36	ET_SNNPAWK_B_20200208.P003	1	Kacha Bira	2020	367586	799280	alic umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2300	391	ET_SNNPAWK_B_20200202.002	4	Kacha Bira	2020	372375	799434	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2300	399	ET_SNNPAWK_B_20200202.010	4	Kacha Bira	2020	369757	799479	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/2300	407	ET_SNNPAWK_B_20200202.018	4	Kacha Bira	2020	368780	802627	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2300	494	ET_SNNPAWK_B_20200205.017	4	Kacha Bira	2020	360622	803994	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2300	505	ET_SNNPAWK_B_20200206.003	4	Kacha Bira	2020	363247	805428	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2310	422	ET_SNNPAWK_B_20200203.003	4	Kacha Bira	2020	368722	805181	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2310	441	ET_SNNPAWK_B_20200203.022	4	Kacha Bira	2020	361014	805512	nudiargic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2310	498	ET_SNNPAWK_B_20200205.021	4	Kacha Bira	2020	361666	803708	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2310	501	ET_SNNPAWK_B_20200205.024	4	Kacha Bira	2020	362158	805352	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2330	324	ET_SNNPAWK_B_20200129.011	4	Kacha Bira	2020	365904	799496	dystic umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/2330	332	ET_SNNPAWK_B_20200129.020	4	Kacha Bira	2020	366195	800718	dystic umbric rhodic Nitisols aric humic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Pyroclast_tuff_ignimbrite/2330	393	ET_SNNPAWKB_20200202.004	4	Kacha Bira	2020	371705	799913	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2330	419	ET_SNNPAWKB_20200202.030	4	Kacha Bira	2020	369544	804736	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2330	424	ET_SNNPAWKB_20200203.005	4	Kacha Bira	2020	367772	804854	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/2330	504	ET_SNNPAWKB_20200206.002	4	Kacha Bira	2020	363220	805573	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3210	464	ET_SNNPAWKB_20200204.010	4	Kacha Bira	2020	363095	799922	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3210	486	ET_SNNPAWKB_20200205.009	4	Kacha Bira	2020	359833	799990	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3221	322	ET_SNNPAWKB_20200129.009	4	Kacha Bira	2020	364593	799458	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3221	467	ET_SNNPAWKB_20200204.013	4	Kacha Bira	2020	363819	800134	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3221	535	ET_SNNPAWSA_20200226.015	4	Silte	2020	434785	888194	eutric leptic Regosols clayic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3222	46	ET_SNNPAWKB_20200213.P001	1	Kacha Bira	2020	363876	800148	rhodic Lixisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3222	462	ET_SNNPAWKB_20200204.008	4	Kacha Bira	2020	363886	799369	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3222	534	ET_SNNPAWSA_20200226.014	4	Silte	2020	434763	887977	eutric mollic Leptosols clayic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3223	0		0		0	0	0	
SNNP/CzT-Pyroclast_tuff_ignimbrite/3230	463	ET_SNNPAWKB_20200204.009	4	Kacha Bira	2020	363690	799454	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3230	466	ET_SNNPAWKB_20200204.012	4	Kacha Bira	2020	363689	799454	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3310	333	ET_SNNPAWKB_20200129.021	4	Kacha Bira	2020	366506	801621	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3310	402	ET_SNNPAWKB_20200202.013	4	Kacha Bira	2020	367576	802099	lithic Leptosols loamic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3310	414	ET_SNNPAWKB_20200202.025	4	Kacha Bira	2020	369455	803045	dystric Regosols loamic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3310	430	ET_SNNPAWKB_20200203.011	4	Kacha Bira	2020	363275	807374	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3310	437	ET_SNNPAWKB_20200203.018	4	Kacha Bira	2020	361341	807867	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3310	472	ET_SNNPAWKB_20200204.018	4	Kacha Bira	2020	364018	802073	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3310	509	ET_SNNPAWKB_20200206.008	4	Kacha Bira	2020	365090	805271	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3321	0		0		0	0	0	
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	327	ET_SNNPAWKB_20200129.015	4	Kacha Bira	2020	365690	800197	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	330	ET_SNNPAWKB_20200129.018	4	Kacha Bira	2020	366208	801538	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	331	ET_SNNPAWKB_20200129.019	4	Kacha Bira	2020	366098	801528	dystric umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	400	ET_SNNPAWKB_20200202.011	4	Kacha Bira	2020	369283	800100	dystric umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	408	ET_SNNPAWKB_20200202.019	4	Kacha Bira	2020	369043	802939	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	411	ET_SNNPAWKB_20200202.022	4	Kacha Bira	2020	368125	802769	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	412	ET_SNNPAWKB_20200202.023	4	Kacha Bira	2020	369097	802757	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	418	ET_SNNPAWKB_20200202.029	4	Kacha Bira	2020	369735	804479	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	420	ET_SNNPAWKB_20200203.001	4	Kacha Bira	2020	369500	805388	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	432	ET_SNNPAWKB_20200203.013	4	Kacha Bira	2020	362878	806454	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	493	ET_SNNPAWKB_20200205.016	4	Kacha Bira	2020	360709	802646	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	502	ET_SNNPAWKB_20200205.025	4	Kacha Bira	2020	361612	805838	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	507	ET_SNNPAWKB_20200206.006	4	Kacha Bira	2020	365549	805383	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3322	510	ET_SNNPAWKB_20200206.009	4	Kacha Bira	2020	364772	805162	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	28	ET_SNNPAWKB_20200201.P001	1	Kacha Bira	2020	367458	802040	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	30	ET_SNNPAWKB_20200205.P001	1	Kacha Bira	2020	359203	805298	eutric Regosols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	356	ET_SNNPAWKB_20200201.004	4	Kacha Bira	2020	368137	801813	dystric Regosols loamic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	357	ET_SNNPAWKB_20200201.005	4	Kacha Bira	2020	368900	801163	eutric Leptosols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	403	ET_SNNPAWKB_20200202.014	4	Kacha Bira	2020	367479	802065	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	427	ET_SNNPAWKB_20200203.008	4	Kacha Bira	2020	365749	804281	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	429	ET_SNNPAWKB_20200203.010	4	Kacha Bira	2020	364423	807123	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	435	ET_SNNPAWKB_20200203.016	4	Kacha Bira	2020	362926	807792	dystric Regosols loamic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	436	ET_SNNPAWK_20200203.017	4	Kacha Bira	2020	361500	807948	dystic leptic Regosols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	443	ET_SNNPAWK_20200203.024	4	Kacha Bira	2020	359176	805280	leptic Regosols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	469	ET_SNNPAWK_20200204.015	4	Kacha Bira	2020	363897	801052	eutric mollic Leptosols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	490	ET_SNNPAWK_20200205.013	4	Kacha Bira	2020	360257	801713	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	497	ET_SNNPAWK_20200205.020	4	Kacha Bira	2020	362357	804115	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3323	508	ET_SNNPAWK_20200206.007	4	Kacha Bira	2020	365318	805186	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3330	37	ET_SNNPAWK_20200208.P004	1	Kacha Bira	2020	368183	802014	vertic Luvisols loamic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3330	404	ET_SNNPAWK_20200202.015	4	Kacha Bira	2020	367384	801998	umbric Leptosols loamic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3330	428	ET_SNNPAWK_20200203.009	4	Kacha Bira	2020	364595	804151	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3330	468	ET_SNNPAWK_20200204.014	4	Kacha Bira	2020	363655	800880	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/3330	489	ET_SNNPAWK_20200205.012	4	Kacha Bira	2020	360314	802022	eutric leptic Regosols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4200	45	ET_SNNPAWK_20200212.P003	1	Kacha Bira	2020	365096	799246	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4200	321	ET_SNNPAWK_20200129.008	4	Kacha Bira	2020	365129	798967	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4200	485	ET_SNNPAWK_20200205.008	4	Kacha Bira	2020	359440	799985	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4210	0		0		0	0	0	
SNNP/CzT-Pyroclast_tuff_ignimbrite/4230	0		0		0	0	0	
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	31	ET_SNNPAWK_20200205.P002	1	Kacha Bira	2020	368970	804972	haplic Alisols loamic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	47	ET_SNNPAWK_20200213.P002	1	Kacha Bira	2020	363633	806974	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	48	ET_SNNPAWK_20200214.P001	1	Kacha Bira	2020	360808	806233	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	323	ET_SNNPAWK_20200129.010	4	Kacha Bira	2020	365622	799058	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	328	ET_SNNPAWK_20200129.016	4	Kacha Bira	2020	365691	799881	haplic Luvisols loamic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	355	ET_SNNPAWK_20200201.003	4	Kacha Bira	2020	368143	800077	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	390	ET_SNNPAWK_20200202.001	4	Kacha Bira	2020	372585	799434	acric umbric rhodic Nitisols
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	392	ET_SNNPAWK_20200202.003	4	Kacha Bira	2020	371904	799424	acric umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	405	ET_SNNPAWK_20200202.016	4	Kacha Bira	2020	368401	802354	vertic Luvisols clayic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	406	ET_SNNPAWK_20200202.017	4	Kacha Bira	2020	368401	802354	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	409	ET_SNNPAWK_20200202.020	4	Kacha Bira	2020	368815	803937	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	413	ET_SNNPAWK_20200202.024	4	Kacha Bira	2020	362039	803325	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	415	ET_SNNPAWK_20200202.026	4	Kacha Bira	2020	369136	804522	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	417	ET_SNNPAWK_20200202.028	4	Kacha Bira	2020	369735	804240	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	421	ET_SNNPAWK_20200203.002	4	Kacha Bira	2020	369306	805200	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	426	ET_SNNPAWK_20200203.007	4	Kacha Bira	2020	366279	804423	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	433	ET_SNNPAWK_20200203.014	4	Kacha Bira	2020	362603	805979	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	440	ET_SNNPAWK_20200203.021	4	Kacha Bira	2020	361102	806850	nudiargic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	470	ET_SNNPAWK_20200204.016	4	Kacha Bira	2020	363698	801658	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	471	ET_SNNPAWK_20200204.017	4	Kacha Bira	2020	363785	801405	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	488	ET_SNNPAWK_20200205.011	4	Kacha Bira	2020	360284	800737	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	491	ET_SNNPAWK_20200205.014	4	Kacha Bira	2020	360114	802407	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	495	ET_SNNPAWK_20200205.018	4	Kacha Bira	2020	361235	803589	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	499	ET_SNNPAWK_20200205.022	4	Kacha Bira	2020	361690	805253	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4300	503	ET_SNNPAWK_20200206.001	4	Kacha Bira	2020	363054	805295	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	326	ET_SNNPAWK_20200129.013	4	Kacha Bira	2020	365539	800140	dystic umbric ferralic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	416	ET_SNNPAWK_20200202.027	4	Kacha Bira	2020	369223	804350	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	431	ET_SNNPAWK_20200203.012	4	Kacha Bira	2020	363294	807086	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	439	ET_SNNPAWK_20200203.020	4	Kacha Bira	2020	360866	807115	rhodic vertic Luvisols clayic aric nitic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	492	ET_SNNPAWK_B_20200205.015	4	Kacha Bira	2020	361170	803096	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	496	ET_SNNPAWK_B_20200205.019	4	Kacha Bira	2020	361667	804192	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	500	ET_SNNPAWK_B_20200205.023	4	Kacha Bira	2020	362109	805174	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4310	506	ET_SNNPAWK_B_20200206.004	4	Kacha Bira	2020	362862	805185	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	39	ET_SNNPAWK_B_20200210.P001	1	Kacha Bira	2020	361698	804487	rhodic vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	325	ET_SNNPAWK_B_20200129.012	4	Kacha Bira	2020	365996	799776	dystic umbric rhodic Nitisols aric humic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	394	ET_SNNPAWK_B_20200202.005	4	Kacha Bira	2020	371774	800082	acic umbric rhodic Nitisols aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	410	ET_SNNPAWK_B_20200202.021	4	Kacha Bira	2020	368702	803962	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	423	ET_SNNPAWK_B_20200203.004	4	Kacha Bira	2020	367910	804464	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	425	ET_SNNPAWK_B_20200203.006	4	Kacha Bira	2020	367772	804228	vertic Luvisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	434	ET_SNNPAWK_B_20200203.015	4	Kacha Bira	2020	362235	807698	vertic Alisols clayic aric
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	438	ET_SNNPAWK_B_20200203.019	4	Kacha Bira	2020	361032	807809	rhodic vertic Luvisols clayic aric nitic
SNNP/CzT-Pyroclast_tuff_ignimbrite/4330	444	ET_SNNPAWK_B_20200203.025	4	Kacha Bira	2020	359742	805225	nudiargic vertic Alisols clayic aric
SNNP/CzT-Trachyte_&rhyolite/1002	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/1003	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/1004	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/2200	241	ET_SNNPAMMA_20191231.016	4	Mirab Abaya	2019	353951	702973	pellic Vertisols aric hypereutric
SNNP/CzT-Trachyte_&rhyolite/2210	249	ET_SNNPAMMA_20200101.004	4	Mirab Abaya	2020	354000	703000	pellic Vertisols aric hypereutric
SNNP/CzT-Trachyte_&rhyolite/2230	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/2300	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/2310	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/2330	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3210	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3221	78	ET_SNNPAMMA_20191221.008	4	Mirab Abaya	2019	353292	684834	eutric mollic Leptosols clayic aric
SNNP/CzT-Trachyte_&rhyolite/3222	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3223	74	ET_SNNPAMMA_20191221.004	4	Mirab Abaya	2019	356644	692031	eutric mollic Leptosols clayic
SNNP/CzT-Trachyte_&rhyolite/3223	79	ET_SNNPAMMA_20191221.009	4	Mirab Abaya	2019	356732	692156	eutric leptic Regosols clayic
SNNP/CzT-Trachyte_&rhyolite/3230	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3310	272	ET_SNNPAMMA_20200102.011	4	Mirab Abaya	2020	353050	705900	dystic Regosols loamic aric
SNNP/CzT-Trachyte_&rhyolite/3321	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3322	250	ET_SNNPAMMA_20200101.005	4	Mirab Abaya	2020	353250	703000	pellic Vertisols aric hypereutric
SNNP/CzT-Trachyte_&rhyolite/3322	251	ET_SNNPAMMA_20200101.006	4	Mirab Abaya	2020	353600	703080	dystic Regosols loamic aric
SNNP/CzT-Trachyte_&rhyolite/3323	292	ET_SNNPAMMA_20200103.012	4	Mirab Abaya	2020	347199	686725	dystic lithic Leptosols loamic aric
SNNP/CzT-Trachyte_&rhyolite/3330	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3410	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3422	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3423	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/3430	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/4200	7	ET_SNNPAMMA_20191226.P002	1	Mirab Abaya	2019	353650	701105	pellic Vertisols aric hypereutric
SNNP/CzT-Trachyte_&rhyolite/4200	117	ET_SNNPAMMA_20191224.002	4	Mirab Abaya	2019	353800	702207	pellic Vertisols aric hypereutric
SNNP/CzT-Trachyte_&rhyolite/4200	120	ET_SNNPAMMA_20191224.005	4	Mirab Abaya	2019	353603	701315	pellic Vertisols aric hypereutric
SNNP/CzT-Trachyte_&rhyolite/4200	122	ET_SNNPAMMA_20191224.007	4	Mirab Abaya	2019	354109	702778	pellic Vertisols aric hypereutric
SNNP/CzT-Trachyte_&rhyolite/4210	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/4230	1	ET_SNNPAMMA_20191222.P001	1	Mirab Abaya	2019	353932	687745	dystic umbric Leptosols loamic
SNNP/CzT-Trachyte_&rhyolite/4230	80	ET_SNNPAMMA_20191221.010	4	Mirab Abaya	2019	353978	687829	eutric mollic skeletic Leptosols loamic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
SNNP/CzT-Trachyte_&rhyolite/4300	6	ET_SNNPAMMA_20191226.P001	1	Mirab Abaya	2019	352950	701527	vertic Luvisols clayic aric
SNNP/CzT-Trachyte_&rhyolite/4300	118	ET_SNNPAMMA_20191224.003	4	Mirab Abaya	2019	353189	701690	vertic Luvisols clayic aric
SNNP/CzT-Trachyte_&rhyolite/4300	119	ET_SNNPAMMA_20191224.004	4	Mirab Abaya	2019	352850	701560	vertic Luvisols clayic aric
SNNP/CzT-Trachyte_&rhyolite/4300	271	ET_SNNPAMMA_20200102.010	4	Mirab Abaya	2020	352100	706650	chromic vertic Luvisols clayic aric
SNNP/CzT-Trachyte_&rhyolite/4310	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/4330	247	ET_SNNPAMMA_20200101.002	4	Mirab Abaya	2020	354200	703600	dystic Regosols loamic aric
SNNP/CzT-Trachyte_&rhyolite/4400	235	ET_SNNPAMMA_20191231.010	4	Mirab Abaya	2019	348500	699950	eutric Regosols loamic aric
SNNP/CzT-Trachyte_&rhyolite/4410	0		0		0	0	0	
SNNP/CzT-Trachyte_&rhyolite/4430	236	ET_SNNPAMMA_20191231.011	4	Mirab Abaya	2019	348700	699700	dystic Regosols loamic aric
SNNP/Mirab Abaya/outsideAol	279	ET_SNNPAMMA_20200102.018	4	Mirab Abaya	2020	348728	707689	vertic Luvisols clayic aric
SNNP/Silte/outsideAol	51	ET_SNNPAWST_20200229.P002	1	Silte	2020	416930	888014	haplic Alisols loamic aric
SNNP/Silte/outsideAol	63	ET_SNNPAWST_20200309.P001	1	Silte	2020	440323	894550	pellic Vertisols aric hypereutric
SNNP/Silte/outsideAol	64	ET_SNNPAWST_20200309.P002	1	Silte	2020	440990	891992	calcic mollic vitric Andosols clayic aric
SNNP/Silte/outsideAol	541	ET_SNNPAWSA_20200227.001	4	Silte	2020	440608	895363	pellic Vertisols aric hypereutric
SNNP/Silte/outsideAol	542	ET_SNNPAWSA_20200227.002	4	Silte	2020	439954	894563	pellic Vertisols aric hypereutric
SNNP/Silte/outsideAol	543	ET_SNNPAWSA_20200227.003	4	Silte	2020	438881	895073	pellic Vertisols aric hypereutric
SNNP/Silte/outsideAol	544	ET_SNNPAWSA_20200227.004	4	Silte	2020	438910	895833	eutric lithic Leptosols clayic aric
SNNP/Silte/outsideAol	545	ET_SNNPAWSA_20200227.005	4	Silte	2020	439068	896027	pellic Vertisols aric hypereutric
SNNP/Silte/outsideAol	546	ET_SNNPAWSA_20200227.006	4	Silte	2020	439948	895415	pellic Vertisols aric hypereutric
SNNP/Silte/outsideAol	547	ET_SNNPAWSA_20200227.007	4	Silte	2020	440560	897369	eutric lithic Leptosols clayic aric
Tigray/Ahferom/outsideAol	2156	ET_Tigray_Ahferom_P10	1	Ahferom	2020	523020	1570825	lithic Leptosols clayic
Tigray/Ahferom/outsideAol	2660	ET_Tigray_Ahferom_A050	4	Ahferom	2020	520924	1561265	lithic Leptosols
Tigray/Ahferom/outsideAol	2839	ET_Tigray_Ahferom_A229	4	Ahferom	2020	510856	1567375	calcaric Cambisols clayic aric
Tigray/CzQ-Sediment_alluvium/1001	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/1002	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/1003	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/2200	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/2210	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/2230	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/3210	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/3221	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/3222	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/3223	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/3230	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/4200	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/4210	0		0		0	0	0	
Tigray/CzQ-Sediment_alluvium/4230	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/1001	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/1002	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/1003	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/2200	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/2210	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/2230	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/2300	2651	ET_Tigray_Ahferom_A041	4	Ahferom	2020	518147	1564678	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/2300	2711	ET_Tigray_Ahferom_A101	4	Ahferom	2020	518583	1574165	lithic Leptosols arenic fluvic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/CzT-Basalt_lower_flood/2300	2751	ET_Tigray_Ahferom_A171	4	Ahferom	2020	507604	1578021	haplic Vertisols aric
Tigray/CzT-Basalt_lower_flood/2300	2822	ET_Tigray_Ahferom_A212	4	Ahferom	2020	515305	1583894	chromic Vertisols aric calcaric
Tigray/CzT-Basalt_lower_flood/2300	2835	ET_Tigray_Ahferom_A225	4	Ahferom	2020	509588	1576822	leptic Regosols fluvic
Tigray/CzT-Basalt_lower_flood/2300	2836	ET_Tigray_Ahferom_A226	4	Ahferom	2020	509440	1576974	vertic Cambisols clayic
Tigray/CzT-Basalt_lower_flood/2310	2150	ET_Tigray_Ahferom_P04	1	Ahferom	2020	508481	1574410	gleyic Fluvisols aric loamic
Tigray/CzT-Basalt_lower_flood/2330	2151	ET_Tigray_Ahferom_P05	1	Ahferom	2020	518064	1564621	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/2330	2701	ET_Tigray_Ahferom_A091	4	Ahferom	2020	524701	1571356	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/3210	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3221	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3222	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3223	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3230	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3310	2652	ET_Tigray_Ahferom_A042	4	Ahferom	2020	518331	1564060	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/3321	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3322	2661	ET_Tigray_Ahferom_A051	4	Ahferom	2020	519164	1565864	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3322	2702	ET_Tigray_Ahferom_A092	4	Ahferom	2020	523518	1571088	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/3322	2712	ET_Tigray_Ahferom_A102	4	Ahferom	2020	518191	1574760	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_lower_flood/3322	2843	ET_Tigray_Ahferom_A233	4	Ahferom	2020	519674	1578422	lithic Leptosols siltic
Tigray/CzT-Basalt_lower_flood/3323	2653	ET_Tigray_Ahferom_A043	4	Ahferom	2020	517956	1564355	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2654	ET_Tigray_Ahferom_A044	4	Ahferom	2020	518102	1565278	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2662	ET_Tigray_Ahferom_A052	4	Ahferom	2020	519068	1565650	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2663	ET_Tigray_Ahferom_A053	4	Ahferom	2020	518667	1567040	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2664	ET_Tigray_Ahferom_A054	4	Ahferom	2020	519112	1566999	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2671	ET_Tigray_Ahferom_A061	4	Ahferom	2020	521973	1565106	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2672	ET_Tigray_Ahferom_A062	4	Ahferom	2020	521625	1565077	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2673	ET_Tigray_Ahferom_A063	4	Ahferom	2020	521128	1569377	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3323	2703	ET_Tigray_Ahferom_A093	4	Ahferom	2020	523399	1570973	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/3323	2704	ET_Tigray_Ahferom_A094	4	Ahferom	2020	523852	1571261	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/3323	2705	ET_Tigray_Ahferom_A095	4	Ahferom	2020	523943	1571202	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/3330	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3410	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3421	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/3422	2674	ET_Tigray_Ahferom_A064	4	Ahferom	2020	520874	1569122	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3422	2675	ET_Tigray_Ahferom_A065	4	Ahferom	2020	520733	1569348	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3422	2713	ET_Tigray_Ahferom_A103	4	Ahferom	2020	519778	1572394	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_lower_flood/3423	2655	ET_Tigray_Ahferom_A045	4	Ahferom	2020	517649	1564634	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/3423	2665	ET_Tigray_Ahferom_A055	4	Ahferom	2020	519265	1566662	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/3430	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/4230	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/4300	2152	ET_Tigray_Ahferom_P06	1	Ahferom	2020	518716	1566309	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4300	2157	ET_Tigray_Ahferom_P11	1	Ahferom	2020	518551	1574323	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_lower_flood/4300	2656	ET_Tigray_Ahferom_A046	4	Ahferom	2020	518326	1564854	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/4300	2666	ET_Tigray_Ahferom_A056	4	Ahferom	2020	519353	1565126	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4300	2667	ET_Tigray_Ahferom_A057	4	Ahferom	2020	518858	1566336	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4300	2706	ET_Tigray_Ahferom_A096	4	Ahferom	2020	522867	1571023	lithic Leptosols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/CzT-Basalt_lower_flood/4300	2707	ET_Tigray_Ahferom_A097	4	Ahferom	2020	523916	1570952	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/4300	2708	ET_Tigray_Ahferom_A098	4	Ahferom	2020	523954	1571042	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/4300	2709	ET_Tigray_Ahferom_A099	4	Ahferom	2020	524987	1571388	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/4300	2752	ET_Tigray_Ahferom_A172	4	Ahferom	2020	507408	1578195	haplic Vertisols aric
Tigray/CzT-Basalt_lower_flood/4300	2834	ET_Tigray_Ahferom_A224	4	Ahferom	2020	507478	1577873	Regosols fluvic
Tigray/CzT-Basalt_lower_flood/4310	2668	ET_Tigray_Ahferom_A058	4	Ahferom	2020	518791	1566165	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4310	2710	ET_Tigray_Ahferom_A100	4	Ahferom	2020	523116	1570991	lithic Leptosols clayic
Tigray/CzT-Basalt_lower_flood/4310	2771	ET_Tigray_Ahferom_A181	4	Ahferom	2020	525276	1584332	haplic Luvisols arenic loamic
Tigray/CzT-Basalt_lower_flood/4330	2657	ET_Tigray_Ahferom_A047	4	Ahferom	2020	518058	1564891	lithic Leptosols
Tigray/CzT-Basalt_lower_flood/4330	2669	ET_Tigray_Ahferom_A059	4	Ahferom	2020	518614	1566369	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4330	2714	ET_Tigray_Ahferom_A104	4	Ahferom	2020	518543	1574550	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_lower_flood/4400	2153	ET_Tigray_Ahferom_P07	1	Ahferom	2020	520697	1569853	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4400	2670	ET_Tigray_Ahferom_A060	4	Ahferom	2020	519359	1566964	skeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4400	2676	ET_Tigray_Ahferom_A066	4	Ahferom	2020	521357	1568847	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4400	2715	ET_Tigray_Ahferom_A105	4	Ahferom	2020	519767	1572615	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_lower_flood/4400	2716	ET_Tigray_Ahferom_A106	4	Ahferom	2020	519491	1572758	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_lower_flood/4400	2717	ET_Tigray_Ahferom_A107	4	Ahferom	2020	519214	1573156	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_lower_flood/4410	0		0		0	0	0	
Tigray/CzT-Basalt_lower_flood/4430	2677	ET_Tigray_Ahferom_A067	4	Ahferom	2020	521654	1566160	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4430	2678	ET_Tigray_Ahferom_A068	4	Ahferom	2020	520869	1569732	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4430	2679	ET_Tigray_Ahferom_A069	4	Ahferom	2020	520676	1569790	hyperskeletal Leptosols
Tigray/CzT-Basalt_lower_flood/4430	2718	ET_Tigray_Ahferom_A108	4	Ahferom	2020	519366	1573017	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_upper_flood/3310	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/3322	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/3323	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/3330	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/3410	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/3421	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/3422	2680	ET_Tigray_Ahferom_A070	4	Ahferom	2020	520493	1569810	hyperskeletal Leptosols
Tigray/CzT-Basalt_upper_flood/3423	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/3430	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/4300	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/4400	2719	ET_Tigray_Ahferom_A109	4	Ahferom	2020	519810	1573140	lithic Leptosols arenic fluvic
Tigray/CzT-Basalt_upper_flood/4410	0		0		0	0	0	
Tigray/CzT-Basalt_upper_flood/4430	2720	ET_Tigray_Ahferom_A110	4	Ahferom	2020	519686	1572993	lithic Leptosols arenic fluvic
Tigray/CzT-Plug/2300	0		0		0	0	0	
Tigray/CzT-Plug/2310	0		0		0	0	0	
Tigray/CzT-Plug/2330	0		0		0	0	0	
Tigray/CzT-Plug/3310	0		0		0	0	0	
Tigray/CzT-Plug/3322	0		0		0	0	0	
Tigray/CzT-Plug/3323	0		0		0	0	0	
Tigray/CzT-Plug/3330	0		0		0	0	0	
Tigray/CzT-Plug/3423	0		0		0	0	0	
Tigray/CzT-Plug/3430	0		0		0	0	0	
Tigray/CzT-Plug/4300	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/CzT-Plug/4310	0		0		0	0	0	
Tigray/CzT-Plug/4330	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/2300	2815	ET_Tigray_Ahferom_A205	4	Ahferom	2020	505671	1582565	haplic Vertisols aric
Tigray/CzT-Pyroclast_tuff_ignimbrite/2310	2816	ET_Tigray_Ahferom_A206	4	Ahferom	2020	506841	1581695	vertic Cambisols clayic
Tigray/CzT-Pyroclast_tuff_ignimbrite/2330	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/3310	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/3321	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/3322	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/3323	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/3330	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/4300	2741	ET_Tigray_Ahferom_A141	4	Ahferom	2020	508700	1580813	haplic Cambisols clayic
Tigray/CzT-Pyroclast_tuff_ignimbrite/4310	0		0		0	0	0	
Tigray/CzT-Pyroclast_tuff_ignimbrite/4330	0		0		0	0	0	
Tigray/Hawzen/outsideAol	2271	ET_Tigray_Hawzen_A105	4	Hawzen	2020	550125	1550023	vertic Cambisols clayic
Tigray/Hawzen/outsideAol	2326	ET_Tigray_Hawzen_A160	4	Hawzen	2020	535575	1537383	haplic Luvisols clayic
Tigray/Mz-Limestone/1002	0		0		0	0	0	
Tigray/Mz-Limestone/1003	0		0		0	0	0	
Tigray/Mz-Limestone/2300	2177	ET_Tigray_Hawzen_A011	4	Hawzen	2020	537675	1531831	fluvic Arenosols geoabruptic
Tigray/Mz-Limestone/2300	2178	ET_Tigray_Hawzen_A012	4	Hawzen	2020	538832	1533592	fluvic Arenosols geoabruptic
Tigray/Mz-Limestone/2310	2328	ET_Tigray_Hawzen_A162	4	Hawzen	2020	546075	1533242	vertic Cambisols clayic
Tigray/Mz-Limestone/2330	0		0		0	0	0	
Tigray/Mz-Limestone/3310	0		0		0	0	0	
Tigray/Mz-Limestone/3321	0		0		0	0	0	
Tigray/Mz-Limestone/3322	0		0		0	0	0	
Tigray/Mz-Limestone/3323	0		0		0	0	0	
Tigray/Mz-Limestone/3330	0		0		0	0	0	
Tigray/Mz-Limestone/4300	2179	ET_Tigray_Hawzen_A013	4	Hawzen	2020	534214	1528323	albic Arenosols geoabruptic
Tigray/Mz-Limestone/4310	0		0		0	0	0	
Tigray/Mz-Limestone/4330	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/1002	2229	ET_Tigray_Hawzen_A063	4	Hawzen	2020	551092	1561482	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/1002	2597	ET_Tigray_SasieTsaedEmba_A217	4	Saesie Tsadeemba	2020	557051	1559598	leptic Cambisols loamic
Tigray/Mz-Sandstone_&limestone/1003	2119	ET_Tigray_Hawzen_P13	1	Hawzen	2020	543961	1542003	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/1003	2349	ET_Tigray_Hawzen_A183	4	Hawzen	2020	558529	1547166	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/1003	2359	ET_Tigray_Hawzen_A193	4	Hawzen	2020	558003	1548325	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/1003	2391	ET_Tigray_SasieTsaedEmba_A011	4	Saesie Tsadeemba	2020	559753	1556081	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/1003	2451	ET_Tigray_SasieTsaedEmba_A071	4	Saesie Tsadeemba	2020	551822	1558798	vertic Cambisols geoabruptic clayic
Tigray/Mz-Sandstone_&limestone/1004	2370	ET_Tigray_Hawzen_A204	4	Hawzen	2020	529687	1534143	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2200	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/2210	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/2230	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/2300	2112	ET_Tigray_Hawzen_P06	1	Hawzen	2020	547975	1563231	gleyic Regosols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2300	2113	ET_Tigray_Hawzen_P07	1	Hawzen	2020	549154	1560056	gleyic Luvisols
Tigray/Mz-Sandstone_&limestone/2300	2114	ET_Tigray_Hawzen_P08	1	Hawzen	2020	548855	1552520	vertic Cambisols clayic aric
Tigray/Mz-Sandstone_&limestone/2300	2115	ET_Tigray_Hawzen_P09	1	Hawzen	2020	551697	1550352	haplic Luvisols arenic aric
Tigray/Mz-Sandstone_&limestone/2300	2116	ET_Tigray_Hawzen_P10	1	Hawzen	2020	549811	1550824	vertic Cambisols clayic aric

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Mz-Sandstone_&limestone/2300	2118	ET_Tigray_Hawzen_P12	1	Hawzen	2020	544012	1542037	haplic Luvisols clayic aric
Tigray/Mz-Sandstone_&limestone/2300	2121	ET_Tigray_Hawzen_P15	1	Hawzen	2020	534953	1540813	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2126	ET_Tigray_Hawzen_P20	1	Hawzen	2020	528556	1533538	fluvic Arenosols geoabruptic aric
Tigray/Mz-Sandstone_&limestone/2300	2127	ET_Tigray_SasieTsaedEmba_P01	1	Hawzen	2020	566664	1564160	albic Arenosols aric
Tigray/Mz-Sandstone_&limestone/2300	2131	ET_Tigray_SasieTsaedEmba_P05	1	Saesie Tsadeemba	2020	558347	1564403	gleyic Fluvisols siltic aric
Tigray/Mz-Sandstone_&limestone/2300	2141	ET_Tigray_SasieTsaedEmba_P15	1	Saesie Tsadeemba	2020	568296	1561705	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2142	ET_Tigray_SasieTsaedEmba_P16	1	Saesie Tsadeemba	2020	562777	1560957	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2144	ET_Tigray_SasieTsaedEmba_P18	1	Saesie Tsadeemba	2020	564633	1570752	vertic Cambisols clayic aric
Tigray/Mz-Sandstone_&limestone/2300	2145	ET_Tigray_SasieTsaedEmba_P19	1	Saesie Tsadeemba	2020	558904	1569747	leptic Cambisols arenic aric
Tigray/Mz-Sandstone_&limestone/2300	2160	ET_Tigray_Ahferom_P14	1	Ahferom	2020	508991	1581272	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2161	ET_Tigray_Ahferom_P15	1	Ahferom	2020	507471	1579158	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/2300	2166	ET_Tigray_Ahferom_P20	1	Ahferom	2020	521796	1584075	vertic Cambisols clayic aric ochric
Tigray/Mz-Sandstone_&limestone/2300	2197	ET_Tigray_Hawzen_A031	4	Hawzen	2020	547042	1548781	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2207	ET_Tigray_Hawzen_A041	4	Hawzen	2020	541568	1542605	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2208	ET_Tigray_Hawzen_A042	4	Hawzen	2020	543123	1542908	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2218	ET_Tigray_Hawzen_A052	4	Hawzen	2020	547509	1563913	gleyic Regosols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2300	2219	ET_Tigray_Hawzen_A053	4	Hawzen	2020	547252	1563830	gleyic Regosols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2300	2220	ET_Tigray_Hawzen_A054	4	Hawzen	2020	547675	1562975	gleyic Regosols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2300	2221	ET_Tigray_Hawzen_A055	4	Hawzen	2020	547644	1563345	gleyic Fluvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2222	ET_Tigray_Hawzen_A056	4	Hawzen	2020	548363	1562871	gleyic Fluvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2223	ET_Tigray_Hawzen_A057	4	Hawzen	2020	548743	1562581	gleyic Fluvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2230	ET_Tigray_Hawzen_A064	4	Hawzen	2020	548812	1560346	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2231	ET_Tigray_Hawzen_A065	4	Hawzen	2020	549672	1557146	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2232	ET_Tigray_Hawzen_A066	4	Hawzen	2020	550718	1559644	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2233	ET_Tigray_Hawzen_A067	4	Hawzen	2020	550654	1560064	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2234	ET_Tigray_Hawzen_A068	4	Hawzen	2020	549394	1561130	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2235	ET_Tigray_Hawzen_A069	4	Hawzen	2020	549355	1559515	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2236	ET_Tigray_Hawzen_A070	4	Hawzen	2020	548194	1559142	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2237	ET_Tigray_Hawzen_A071	4	Hawzen	2020	549048	1559196	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2239	ET_Tigray_Hawzen_A073	4	Hawzen	2020	549882	1559621	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2240	ET_Tigray_Hawzen_A074	4	Hawzen	2020	549739	1552535	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2241	ET_Tigray_Hawzen_A075	4	Hawzen	2020	547822	1551684	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2242	ET_Tigray_Hawzen_A076	4	Hawzen	2020	548515	1552799	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2243	ET_Tigray_Hawzen_A077	4	Hawzen	2020	546977	1552705	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2244	ET_Tigray_Hawzen_A078	4	Hawzen	2020	548963	1553160	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2245	ET_Tigray_Hawzen_A079	4	Hawzen	2020	549162	1552416	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2246	ET_Tigray_Hawzen_A080	4	Hawzen	2020	549347	1551972	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2247	ET_Tigray_Hawzen_A081	4	Hawzen	2020	549731	1553932	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2248	ET_Tigray_Hawzen_A082	4	Hawzen	2020	548325	1553504	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2250	ET_Tigray_Hawzen_A084	4	Hawzen	2020	548761	1552521	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2251	ET_Tigray_Hawzen_A085	4	Hawzen	2020	551212	1550370	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2252	ET_Tigray_Hawzen_A086	4	Hawzen	2020	552446	1550091	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2253	ET_Tigray_Hawzen_A087	4	Hawzen	2020	552455	1550805	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2254	ET_Tigray_Hawzen_A088	4	Hawzen	2020	552077	1552479	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2255	ET_Tigray_Hawzen_A089	4	Hawzen	2020	552810	1552005	haplic Luvisols arenic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Mz-Sandstone_&limestone/2300	2256	ET_Tigray_Hawzen_A090	4	Hawzen	2020	552188	1550995	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2257	ET_Tigray_Hawzen_A091	4	Hawzen	2020	552017	1549423	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2258	ET_Tigray_Hawzen_A092	4	Hawzen	2020	551605	1550688	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2261	ET_Tigray_Hawzen_A095	4	Hawzen	2020	552545	1550418	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2262	ET_Tigray_Hawzen_A096	4	Hawzen	2020	547665	1550906	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2263	ET_Tigray_Hawzen_A097	4	Hawzen	2020	551075	1552124	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2264	ET_Tigray_Hawzen_A098	4	Hawzen	2020	550668	1551206	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2265	ET_Tigray_Hawzen_A099	4	Hawzen	2020	548573	1548832	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2266	ET_Tigray_Hawzen_A100	4	Hawzen	2020	549750	1551162	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2267	ET_Tigray_Hawzen_A101	4	Hawzen	2020	550906	1549186	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2272	ET_Tigray_Hawzen_A106	4	Hawzen	2020	548807	1548503	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2273	ET_Tigray_Hawzen_A107	4	Hawzen	2020	536394	1540758	gleyic Regosols fluvic
Tigray/Mz-Sandstone_&limestone/2300	2274	ET_Tigray_Hawzen_A108	4	Hawzen	2020	537856	1540610	gleyic Regosols fluvic
Tigray/Mz-Sandstone_&limestone/2300	2275	ET_Tigray_Hawzen_A109	4	Hawzen	2020	537969	1540155	gleyic Regosols fluvic
Tigray/Mz-Sandstone_&limestone/2300	2284	ET_Tigray_Hawzen_A118	4	Hawzen	2020	543427	1542496	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/2300	2285	ET_Tigray_Hawzen_A119	4	Hawzen	2020	543926	1542216	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/2300	2295	ET_Tigray_Hawzen_A129	4	Hawzen	2020	544863	1542195	haplic Luvisols loamic
Tigray/Mz-Sandstone_&limestone/2300	2317	ET_Tigray_Hawzen_A151	4	Hawzen	2020	535572	1538336	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2318	ET_Tigray_Hawzen_A152	4	Hawzen	2020	535691	1539484	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2327	ET_Tigray_Hawzen_A161	4	Hawzen	2020	535167	1538179	haplic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2338	ET_Tigray_Hawzen_A172	4	Hawzen	2020	546053	1535883	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2339	ET_Tigray_Hawzen_A173	4	Hawzen	2020	545494	1535778	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2340	ET_Tigray_Hawzen_A174	4	Hawzen	2020	546952	1535996	fluvic Arenosols placic
Tigray/Mz-Sandstone_&limestone/2300	2341	ET_Tigray_Hawzen_A175	4	Hawzen	2020	549438	1541258	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2342	ET_Tigray_Hawzen_A176	4	Hawzen	2020	548149	1536985	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2348	ET_Tigray_Hawzen_A182	4	Hawzen	2020	546314	1536446	fluvic Arenosols placic
Tigray/Mz-Sandstone_&limestone/2300	2360	ET_Tigray_Hawzen_A194	4	Hawzen	2020	556143	1547286	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2300	2361	ET_Tigray_Hawzen_A195	4	Hawzen	2020	557073	1547995	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2300	2362	ET_Tigray_Hawzen_A196	4	Hawzen	2020	555395	1548080	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2300	2363	ET_Tigray_Hawzen_A197	4	Hawzen	2020	554760	1550465	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2300	2364	ET_Tigray_Hawzen_A198	4	Hawzen	2020	556254	1548090	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2300	2369	ET_Tigray_Hawzen_A203	4	Hawzen	2020	555796	1547754	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2300	2371	ET_Tigray_Hawzen_A205	4	Hawzen	2020	528265	1531985	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2372	ET_Tigray_Hawzen_A206	4	Hawzen	2020	528901	1532614	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2373	ET_Tigray_Hawzen_A207	4	Hawzen	2020	525965	1530008	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2380	ET_Tigray_Hawzen_A214	4	Hawzen	2020	528284	1533941	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2300	2381	ET_Tigray_SasieTsaedEmba_A001	4	Hawzen	2020	566591	1564691	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2382	ET_Tigray_SasieTsaedEmba_A002	4	Saesie Tsadeemba	2020	567174	1564618	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2383	ET_Tigray_SasieTsaedEmba_A003	4	Saesie Tsadeemba	2020	567525	1565019	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2384	ET_Tigray_SasieTsaedEmba_A004	4	Saesie Tsadeemba	2020	567972	1564980	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2385	ET_Tigray_SasieTsaedEmba_A005	4	Saesie Tsadeemba	2020	566820	1564824	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2386	ET_Tigray_SasieTsaedEmba_A006	4	Saesie Tsadeemba	2020	566593	1564877	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2387	ET_Tigray_SasieTsaedEmba_A007	4	Saesie Tsadeemba	2020	566392	1564689	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2388	ET_Tigray_SasieTsaedEmba_A008	4	Saesie Tsadeemba	2020	567384	1563809	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2392	ET_Tigray_SasieTsaedEmba_A012	4	Saesie Tsadeemba	2020	559393	1556507	fluvic Cambisols siltic

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Tigray/Mz-Sandstone_&limestone/2300	2393	ET_Tigray_SasieTsaedEmba_A013	4	Saesie Tsadeemba	2020	559349	1556682	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2394	ET_Tigray_SasieTsaedEmba_A014	4	Saesie Tsadeemba	2020	559591	1556653	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2395	ET_Tigray_SasieTsaedEmba_A015	4	Saesie Tsadeemba	2020	559590	1556346	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2396	ET_Tigray_SasieTsaedEmba_A016	4	Saesie Tsadeemba	2020	559476	1555823	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2397	ET_Tigray_SasieTsaedEmba_A017	4	Saesie Tsadeemba	2020	558965	1558782	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2398	ET_Tigray_SasieTsaedEmba_A018	4	Saesie Tsadeemba	2020	559103	1559175	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2401	ET_Tigray_SasieTsaedEmba_A021	4	Saesie Tsadeemba	2020	562709	1585447	leptic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2402	ET_Tigray_SasieTsaedEmba_A022	4	Saesie Tsadeemba	2020	562809	1586257	leptic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2403	ET_Tigray_SasieTsaedEmba_A023	4	Saesie Tsadeemba	2020	562653	1586453	leptic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2404	ET_Tigray_SasieTsaedEmba_A024	4	Saesie Tsadeemba	2020	563258	1585920	leptic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2411	ET_Tigray_SasieTsaedEmba_A031	4	Saesie Tsadeemba	2020	563686	1549342	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2300	2412	ET_Tigray_SasieTsaedEmba_A032	4	Saesie Tsadeemba	2020	562889	1549627	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2300	2413	ET_Tigray_SasieTsaedEmba_A033	4	Saesie Tsadeemba	2020	563051	1551671	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2300	2414	ET_Tigray_SasieTsaedEmba_A034	4	Saesie Tsadeemba	2020	559130	1551185	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2300	2415	ET_Tigray_SasieTsaedEmba_A035	4	Saesie Tsadeemba	2020	560298	1552573	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2300	2421	ET_Tigray_SasieTsaedEmba_A041	4	Saesie Tsadeemba	2020	558262	1563917	gleyic Fluvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2422	ET_Tigray_SasieTsaedEmba_A042	4	Saesie Tsadeemba	2020	559382	1565590	gleyic Fluvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2423	ET_Tigray_SasieTsaedEmba_A043	4	Saesie Tsadeemba	2020	557385	1564179	gleyic Fluvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2424	ET_Tigray_SasieTsaedEmba_A044	4	Saesie Tsadeemba	2020	558068	1564352	gleyic Fluvisols siltic
Tigray/Mz-Sandstone_&limestone/2300	2431	ET_Tigray_SasieTsaedEmba_A051	4	Saesie Tsadeemba	2020	564473	1547218	gleyic Fluvisols clayic ochric
Tigray/Mz-Sandstone_&limestone/2300	2432	ET_Tigray_SasieTsaedEmba_A052	4	Saesie Tsadeemba	2020	564823	1547282	gleyic Fluvisols clayic ochric
Tigray/Mz-Sandstone_&limestone/2300	2433	ET_Tigray_SasieTsaedEmba_A053	4	Saesie Tsadeemba	2020	564601	1547648	gleyic Fluvisols clayic ochric
Tigray/Mz-Sandstone_&limestone/2300	2441	ET_Tigray_SasieTsaedEmba_A061	4	Saesie Tsadeemba	2020	552436	1561924	haplic Luvisols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2300	2442	ET_Tigray_SasieTsaedEmba_A062	4	Saesie Tsadeemba	2020	552291	1560668	haplic Luvisols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2300	2452	ET_Tigray_SasieTsaedEmba_A072	4	Saesie Tsadeemba	2020	553054	1560347	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/2300	2453	ET_Tigray_SasieTsaedEmba_A073	4	Saesie Tsadeemba	2020	552511	1559184	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/2300	2454	ET_Tigray_SasieTsaedEmba_A074	4	Saesie Tsadeemba	2020	552653	1558463	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/2300	2455	ET_Tigray_SasieTsaedEmba_A075	4	Saesie Tsadeemba	2020	555189	1559114	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/2300	2456	ET_Tigray_SasieTsaedEmba_A076	4	Saesie Tsadeemba	2020	554203	1561009	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/2300	2461	ET_Tigray_SasieTsaedEmba_A081	4	Saesie Tsadeemba	2020	556502	1561459	gleyic Fluvisols loamic
Tigray/Mz-Sandstone_&limestone/2300	2462	ET_Tigray_SasieTsaedEmba_A082	4	Saesie Tsadeemba	2020	556100	1561342	gleyic Fluvisols loamic
Tigray/Mz-Sandstone_&limestone/2300	2463	ET_Tigray_SasieTsaedEmba_A083	4	Saesie Tsadeemba	2020	555829	1560671	gleyic Fluvisols loamic
Tigray/Mz-Sandstone_&limestone/2300	2464	ET_Tigray_SasieTsaedEmba_A084	4	Saesie Tsadeemba	2020	556380	1560457	gleyic Fluvisols loamic
Tigray/Mz-Sandstone_&limestone/2300	2465	ET_Tigray_SasieTsaedEmba_A085	4	Saesie Tsadeemba	2020	556677	1561008	gleyic Fluvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2466	ET_Tigray_SasieTsaedEmba_A086	4	Saesie Tsadeemba	2020	557297	1561393	gleyic Fluvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2467	ET_Tigray_SasieTsaedEmba_A087	4	Saesie Tsadeemba	2020	558114	1561702	gleyic Fluvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2468	ET_Tigray_SasieTsaedEmba_A088	4	Saesie Tsadeemba	2020	557752	1561749	gleyic Fluvisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2521	ET_Tigray_SasieTsaedEmba_A141	4	Saesie Tsadeemba	2020	568090	1558030	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2522	ET_Tigray_SasieTsaedEmba_A142	4	Saesie Tsadeemba	2020	568181	1558981	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2523	ET_Tigray_SasieTsaedEmba_A143	4	Saesie Tsadeemba	2020	568420	1560019	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2524	ET_Tigray_SasieTsaedEmba_A144	4	Saesie Tsadeemba	2020	571178	1559491	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2525	ET_Tigray_SasieTsaedEmba_A145	4	Saesie Tsadeemba	2020	570083	1560160	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2526	ET_Tigray_SasieTsaedEmba_A146	4	Saesie Tsadeemba	2020	568019	1560787	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2527	ET_Tigray_SasieTsaedEmba_A147	4	Saesie Tsadeemba	2020	568866	1562270	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2528	ET_Tigray_SasieTsaedEmba_A148	4	Saesie Tsadeemba	2020	567889	1562567	leptic Cambisols arenic

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Tigray/Mz-Sandstone_&limestone/2300	2531	ET_Tigray_SasieTsaedEmba_A151	4	Saesie Tsadeemba	2020	562612	1560206	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2532	ET_Tigray_SasieTsaedEmba_A152	4	Saesie Tsadeemba	2020	562922	1560376	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2533	ET_Tigray_SasieTsaedEmba_A153	4	Saesie Tsadeemba	2020	562971	1559819	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2534	ET_Tigray_SasieTsaedEmba_A154	4	Saesie Tsadeemba	2020	562855	1561075	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2535	ET_Tigray_SasieTsaedEmba_A155	4	Saesie Tsadeemba	2020	563124	1561192	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2536	ET_Tigray_SasieTsaedEmba_A156	4	Saesie Tsadeemba	2020	562602	1561503	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2537	ET_Tigray_SasieTsaedEmba_A157	4	Saesie Tsadeemba	2020	562343	1561532	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2538	ET_Tigray_SasieTsaedEmba_A158	4	Saesie Tsadeemba	2020	562350	1561697	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2300	2541	ET_Tigray_SasieTsaedEmba_A161	4	Saesie Tsadeemba	2020	560547	1566310	chromic Vertisols mollic gleyic
Tigray/Mz-Sandstone_&limestone/2300	2542	ET_Tigray_SasieTsaedEmba_A162	4	Saesie Tsadeemba	2020	560695	1565905	chromic Vertisols mollic gleyic
Tigray/Mz-Sandstone_&limestone/2300	2543	ET_Tigray_SasieTsaedEmba_A163	4	Saesie Tsadeemba	2020	560995	1566373	chromic Vertisols mollic gleyic
Tigray/Mz-Sandstone_&limestone/2300	2544	ET_Tigray_SasieTsaedEmba_A164	4	Saesie Tsadeemba	2020	561094	1566097	chromic Vertisols mollic gleyic
Tigray/Mz-Sandstone_&limestone/2300	2545	ET_Tigray_SasieTsaedEmba_A165	4	Saesie Tsadeemba	2020	561212	1565243	chromic Vertisols mollic gleyic
Tigray/Mz-Sandstone_&limestone/2300	2546	ET_Tigray_SasieTsaedEmba_A166	4	Saesie Tsadeemba	2020	561398	1564380	chromic Vertisols mollic gleyic
Tigray/Mz-Sandstone_&limestone/2300	2547	ET_Tigray_SasieTsaedEmba_A167	4	Saesie Tsadeemba	2020	562942	1563931	chromic Vertisols mollic gleyic
Tigray/Mz-Sandstone_&limestone/2300	2551	ET_Tigray_SasieTsaedEmba_A171	4	Saesie Tsadeemba	2020	567935	1571600	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2552	ET_Tigray_SasieTsaedEmba_A172	4	Saesie Tsadeemba	2020	569329	1569841	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2553	ET_Tigray_SasieTsaedEmba_A173	4	Saesie Tsadeemba	2020	566821	1570205	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2561	ET_Tigray_SasieTsaedEmba_A181	4	Saesie Tsadeemba	2020	560615	1583067	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2562	ET_Tigray_SasieTsaedEmba_A182	4	Saesie Tsadeemba	2020	557898	1583171	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2563	ET_Tigray_SasieTsaedEmba_A183	4	Saesie Tsadeemba	2020	561601	1575727	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2564	ET_Tigray_SasieTsaedEmba_A184	4	Saesie Tsadeemba	2020	560858	1575162	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2565	ET_Tigray_SasieTsaedEmba_A185	4	Saesie Tsadeemba	2020	558963	1569591	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2582	ET_Tigray_SasieTsaedEmba_A202	4	Saesie Tsadeemba	2020	565414	1562741	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2583	ET_Tigray_SasieTsaedEmba_A203	4	Saesie Tsadeemba	2020	562974	1561613	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2584	ET_Tigray_SasieTsaedEmba_A204	4	Saesie Tsadeemba	2020	563145	1560794	haplic Vertisols gleyic
Tigray/Mz-Sandstone_&limestone/2300	2593	ET_Tigray_SasieTsaedEmba_A213	4	Saesie Tsadeemba	2020	554814	1560154	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2594	ET_Tigray_SasieTsaedEmba_A214	4	Saesie Tsadeemba	2020	556246	1561017	albic Arenosols
Tigray/Mz-Sandstone_&limestone/2300	2595	ET_Tigray_SasieTsaedEmba_A215	4	Saesie Tsadeemba	2020	555718	1559974	vertic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2598	ET_Tigray_SasieTsaedEmba_A218	4	Saesie Tsadeemba	2020	557223	1557730	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2300	2600	ET_Tigray_SasieTsaedEmba_A220	4	Saesie Tsadeemba	2020	558873	1570882	albic Arenosols aric
Tigray/Mz-Sandstone_&limestone/2300	2602	ET_Tigray_SasieTsaedEmba_A222	4	Saesie Tsadeemba	2020	559897	1582147	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2300	2605	ET_Tigray_SasieTsaedEmba_A225	4	Saesie Tsadeemba	2020	560401	1572655	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2606	ET_Tigray_SasieTsaedEmba_A226	4	Saesie Tsadeemba	2020	556251	1538888	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2609	ET_Tigray_SasieTsaedEmba_A229	4	Saesie Tsadeemba	2020	557162	1538667	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2300	2681	ET_Tigray_Ahferom_A071	4	Ahferom	2020	528983	1567972	lithic Leptosols
Tigray/Mz-Sandstone_&limestone/2300	2682	ET_Tigray_Ahferom_A072	4	Ahferom	2020	528762	1568065	lithic Leptosols
Tigray/Mz-Sandstone_&limestone/2300	2683	ET_Tigray_Ahferom_A073	4	Ahferom	2020	529101	1568459	lithic Leptosols
Tigray/Mz-Sandstone_&limestone/2300	2684	ET_Tigray_Ahferom_A074	4	Ahferom	2020	528424	1569276	lithic Leptosols
Tigray/Mz-Sandstone_&limestone/2300	2742	ET_Tigray_Ahferom_A142	4	Ahferom	2020	508675	1580993	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2743	ET_Tigray_Ahferom_A143	4	Ahferom	2020	508374	1580994	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2744	ET_Tigray_Ahferom_A144	4	Ahferom	2020	508412	1581254	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2745	ET_Tigray_Ahferom_A145	4	Ahferom	2020	509048	1581228	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2746	ET_Tigray_Ahferom_A146	4	Ahferom	2020	509380	1582039	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2747	ET_Tigray_Ahferom_A147	4	Ahferom	2020	509759	1581917	haplic Luvisols arenic loamic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Mz-Sandstone_&limestone/2300	2753	ET_Tigray_Ahferom_A173	4	Ahferom	2020	507402	1578708	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/2300	2754	ET_Tigray_Ahferom_A174	4	Ahferom	2020	507566	1578926	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/2300	2755	ET_Tigray_Ahferom_A175	4	Ahferom	2020	507559	1579551	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/2300	2756	ET_Tigray_Ahferom_A176	4	Ahferom	2020	507425	1579653	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/2300	2757	ET_Tigray_Ahferom_A177	4	Ahferom	2020	507584	1579733	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/2300	2758	ET_Tigray_Ahferom_A178	4	Ahferom	2020	507442	1579891	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/2300	2761	ET_Tigray_Ahferom_A161	4	Ahferom	2020	510573	1576506	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2762	ET_Tigray_Ahferom_A162	4	Ahferom	2020	510902	1576953	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2763	ET_Tigray_Ahferom_A163	4	Ahferom	2020	510227	1577696	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2772	ET_Tigray_Ahferom_A182	4	Ahferom	2020	523873	1583396	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2773	ET_Tigray_Ahferom_A183	4	Ahferom	2020	524215	1583803	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2774	ET_Tigray_Ahferom_A184	4	Ahferom	2020	523926	1584165	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2775	ET_Tigray_Ahferom_A185	4	Ahferom	2020	524739	1584559	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2776	ET_Tigray_Ahferom_A186	4	Ahferom	2020	524682	1585662	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2300	2801	ET_Tigray_Ahferom_A111	4	Ahferom	2020	522818	1584793	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/2300	2802	ET_Tigray_Ahferom_A112	4	Ahferom	2020	522852	1584544	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/2300	2817	ET_Tigray_Ahferom_A207	4	Ahferom	2020	507786	1581326	leptic Luvisols aric
Tigray/Mz-Sandstone_&limestone/2300	2833	ET_Tigray_Ahferom_A223	4	Ahferom	2020	510934	1577644	vertic Luvisols aric
Tigray/Mz-Sandstone_&limestone/2300	2842	ET_Tigray_Ahferom_A232	4	Ahferom	2020	508167	1581257	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2310	2124	ET_Tigray_Hawzen_P18	1	Hawzen	2020	555384	1547588	haplic Vertisols aric gilgaic ochric
Tigray/Mz-Sandstone_&limestone/2310	2134	ET_Tigray_SasieTsaedEmba_P08	1	Saesie Tsadeemba	2020	553422	1560689	gleyic Arenosols aric hydrophobic
Tigray/Mz-Sandstone_&limestone/2310	2143	ET_Tigray_SasieTsaedEmba_P17	1	Saesie Tsadeemba	2020	560647	1566160	chromic Vertisols aric mollic gleyic
Tigray/Mz-Sandstone_&limestone/2310	2163	ET_Tigray_Ahferom_P17	1	Ahferom	2020	524424	1584540	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2310	2209	ET_Tigray_Hawzen_A043	4	Hawzen	2020	543531	1543541	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2310	2238	ET_Tigray_Hawzen_A072	4	Hawzen	2020	550357	1558231	gleyic Luvisols clayic
Tigray/Mz-Sandstone_&limestone/2310	2286	ET_Tigray_Hawzen_A120	4	Hawzen	2020	543305	1541752	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/2310	2287	ET_Tigray_Hawzen_A121	4	Hawzen	2020	543935	1543413	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/2310	2294	ET_Tigray_Hawzen_A128	4	Hawzen	2020	543658	1542182	haplic Luvisols loamic
Tigray/Mz-Sandstone_&limestone/2310	2296	ET_Tigray_Hawzen_A130	4	Hawzen	2020	545561	1540182	haplic Luvisols loamic
Tigray/Mz-Sandstone_&limestone/2310	2343	ET_Tigray_Hawzen_A177	4	Hawzen	2020	548853	1538908	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2310	2365	ET_Tigray_Hawzen_A199	4	Hawzen	2020	556572	1549149	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2310	2399	ET_Tigray_SasieTsaedEmba_A019	4	Saesie Tsadeemba	2020	558231	1559235	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2310	2443	ET_Tigray_SasieTsaedEmba_A063	4	Saesie Tsadeemba	2020	552309	1561399	haplic Luvisols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2310	2444	ET_Tigray_SasieTsaedEmba_A064	4	Saesie Tsadeemba	2020	552781	1562072	haplic Luvisols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2310	2529	ET_Tigray_SasieTsaedEmba_A149	4	Saesie Tsadeemba	2020	568160	1563028	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2310	2539	ET_Tigray_SasieTsaedEmba_A159	4	Saesie Tsadeemba	2020	562601	1560819	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2310	2540	ET_Tigray_SasieTsaedEmba_A160	4	Saesie Tsadeemba	2020	563046	1558572	haplic Vertisols aric gleyic
Tigray/Mz-Sandstone_&limestone/2310	2555	ET_Tigray_SasieTsaedEmba_A175	4	Saesie Tsadeemba	2020	564571	1571776	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2310	2596	ET_Tigray_SasieTsaedEmba_A216	4	Saesie Tsadeemba	2020	555831	1559705	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2310	2685	ET_Tigray_Ahferom_A075	4	Ahferom	2020	528670	1568480	lithic Leptosols
Tigray/Mz-Sandstone_&limestone/2310	2748	ET_Tigray_Ahferom_A148	4	Ahferom	2020	508801	1581240	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2310	2749	ET_Tigray_Ahferom_A149	4	Ahferom	2020	509139	1580977	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2310	2781	ET_Tigray_Ahferom_A191	4	Ahferom	2020	521962	1586609	haplic Vertisols aric
Tigray/Mz-Sandstone_&limestone/2330	2128	ET_Tigray_SasieTsaedEmba_P02	1	Saesie Tsadeemba	2020	559407	1556548	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2330	2154	ET_Tigray_Ahferom_P08	1	Ahferom	2020	528840	1568309	lithic Leptosols

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Mz-Sandstone_&limestone/2330	2198	ET_Tigray_Hawzen_A032	4	Hawzen	2020	546490	1549568	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2330	2276	ET_Tigray_Hawzen_A110	4	Hawzen	2020	538694	1542731	gleyic Regosols fluvic
Tigray/Mz-Sandstone_&limestone/2330	2277	ET_Tigray_Hawzen_A111	4	Hawzen	2020	537143	1541768	gleyic Regosols fluvic
Tigray/Mz-Sandstone_&limestone/2330	2288	ET_Tigray_Hawzen_A122	4	Hawzen	2020	542647	1542288	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/2330	2297	ET_Tigray_Hawzen_A131	4	Hawzen	2020	544437	1540437	haplic Luvisols loamic
Tigray/Mz-Sandstone_&limestone/2330	2306	ET_Tigray_Hawzen_A140	4	Hawzen	2020	533445	1539669	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2330	2319	ET_Tigray_Hawzen_A153	4	Hawzen	2020	533556	1537374	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2330	2320	ET_Tigray_Hawzen_A154	4	Hawzen	2020	535683	1541795	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2330	2350	ET_Tigray_Hawzen_A184	4	Hawzen	2020	554440	1546137	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2330	2366	ET_Tigray_Hawzen_A200	4	Hawzen	2020	556987	1550590	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/2330	2374	ET_Tigray_Hawzen_A208	4	Hawzen	2020	527269	1531568	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/2330	2400	ET_Tigray_SasieTsaedEmba_A020	4	Saesie Tsadeemba	2020	559557	1558308	fluvic Cambisols siltic
Tigray/Mz-Sandstone_&limestone/2330	2405	ET_Tigray_SasieTsaedEmba_A025	4	Saesie Tsadeemba	2020	562737	1585017	leptic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/2330	2416	ET_Tigray_SasieTsaedEmba_A036	4	Saesie Tsadeemba	2020	562255	1551897	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2330	2417	ET_Tigray_SasieTsaedEmba_A037	4	Saesie Tsadeemba	2020	559688	1551344	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/2330	2434	ET_Tigray_SasieTsaedEmba_A054	4	Saesie Tsadeemba	2020	564603	1546927	gleyic Fluvisols clayic ochric
Tigray/Mz-Sandstone_&limestone/2330	2445	ET_Tigray_SasieTsaedEmba_A065	4	Saesie Tsadeemba	2020	552805	1561727	haplic Luvisols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2330	2446	ET_Tigray_SasieTsaedEmba_A066	4	Saesie Tsadeemba	2020	551887	1560955	haplic Luvisols siltic fluvic
Tigray/Mz-Sandstone_&limestone/2330	2457	ET_Tigray_SasieTsaedEmba_A077	4	Saesie Tsadeemba	2020	552744	1560058	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/2330	2458	ET_Tigray_SasieTsaedEmba_A078	4	Saesie Tsadeemba	2020	551991	1558384	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/2330	2556	ET_Tigray_SasieTsaedEmba_A176	4	Saesie Tsadeemba	2020	565140	1572495	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/2330	2566	ET_Tigray_SasieTsaedEmba_A186	4	Saesie Tsadeemba	2020	558540	1571406	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2330	2603	ET_Tigray_SasieTsaedEmba_A223	4	Saesie Tsadeemba	2020	559628	1579722	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/2330	2764	ET_Tigray_Ahferom_A164	4	Ahferom	2020	510553	1577176	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/2330	2765	ET_Tigray_Ahferom_A165	4	Ahferom	2020	510357	1578391	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/3210	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3222	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3223	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3230	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3310	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3321	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3322	2601	ET_Tigray_SasieTsaedEmba_A221	4	Saesie Tsadeemba	2020	558791	1569333	colluvic leptic Regosols
Tigray/Mz-Sandstone_&limestone/3322	2691	ET_Tigray_Ahferom_A081	4	Ahferom	2020	529551	1566954	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/3322	2692	ET_Tigray_Ahferom_A082	4	Ahferom	2020	530127	1566101	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/3322	2759	ET_Tigray_Ahferom_A179	4	Ahferom	2020	507785	1579525	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/3322	2803	ET_Tigray_Ahferom_A113	4	Ahferom	2020	521588	1583735	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/3323	2782	ET_Tigray_Ahferom_A192	4	Ahferom	2020	521612	1585460	haplic Vertisols aric
Tigray/Mz-Sandstone_&limestone/3330	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3410	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3422	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3423	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/3430	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/4200	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/4210	0		0		0	0	0	
Tigray/Mz-Sandstone_&limestone/4230	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Mz-Sandstone_&limestone/4300	2129	ET_Tigray_SasieTsaedEmba_P03	1	Saesie Tsadeemba	2020	562689	1585277	leptic Luvisols clayic aric
Tigray/Mz-Sandstone_&limestone/4300	2132	ET_Tigray_SasieTsaedEmba_P06	1	Saesie Tsadeemba	2020	564594	1547277	gleyic Fluvisols clayic ochric
Tigray/Mz-Sandstone_&limestone/4300	2135	ET_Tigray_SasieTsaedEmba_P09	1	Saesie Tsadeemba	2020	556742	1561737	gleyic Fluvisols clayic aric
Tigray/Mz-Sandstone_&limestone/4300	2155	ET_Tigray_Ahferom_P09	1	Ahferom	2020	529707	1567228	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2249	ET_Tigray_Hawzen_A083	4	Hawzen	2020	549163	1551622	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2259	ET_Tigray_Hawzen_A093	4	Hawzen	2020	551441	1551421	haplic Luvisols arenic
Tigray/Mz-Sandstone_&limestone/4300	2268	ET_Tigray_Hawzen_A102	4	Hawzen	2020	548829	1549750	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2269	ET_Tigray_Hawzen_A103	4	Hawzen	2020	548918	1550564	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2270	ET_Tigray_Hawzen_A104	4	Hawzen	2020	551423	1552873	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2278	ET_Tigray_Hawzen_A112	4	Hawzen	2020	539823	1540684	gleyic Regosols fluvic
Tigray/Mz-Sandstone_&limestone/4300	2289	ET_Tigray_Hawzen_A123	4	Hawzen	2020	544521	1542594	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/4300	2290	ET_Tigray_Hawzen_A124	4	Hawzen	2020	543787	1541162	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/4300	2291	ET_Tigray_Hawzen_A125	4	Hawzen	2020	543929	1542889	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/4300	2292	ET_Tigray_Hawzen_A126	4	Hawzen	2020	543632	1542606	haplic Luvisols
Tigray/Mz-Sandstone_&limestone/4300	2307	ET_Tigray_Hawzen_A141	4	Hawzen	2020	533908	1540585	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/4300	2344	ET_Tigray_Hawzen_A178	4	Hawzen	2020	548998	1540110	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/4300	2345	ET_Tigray_Hawzen_A179	4	Hawzen	2020	548071	1535855	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/4300	2346	ET_Tigray_Hawzen_A180	4	Hawzen	2020	548523	1538320	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone_&limestone/4300	2367	ET_Tigray_Hawzen_A201	4	Hawzen	2020	556103	1550124	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/4300	2389	ET_Tigray_SasieTsaedEmba_A009	4	Saesie Tsadeemba	2020	566934	1564325	albic Arenosols
Tigray/Mz-Sandstone_&limestone/4300	2406	ET_Tigray_SasieTsaedEmba_A026	4	Saesie Tsadeemba	2020	562386	1585439	leptic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/4300	2407	ET_Tigray_SasieTsaedEmba_A027	4	Saesie Tsadeemba	2020	561976	1585212	leptic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/4300	2408	ET_Tigray_SasieTsaedEmba_A028	4	Saesie Tsadeemba	2020	561977	1584430	leptic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/4300	2409	ET_Tigray_SasieTsaedEmba_A029	4	Saesie Tsadeemba	2020	562362	1584934	leptic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/4300	2410	ET_Tigray_SasieTsaedEmba_A030	4	Saesie Tsadeemba	2020	562704	1585689	leptic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/4300	2418	ET_Tigray_SasieTsaedEmba_A038	4	Saesie Tsadeemba	2020	562605	1550454	lithic Leptosols arenic
Tigray/Mz-Sandstone_&limestone/4300	2425	ET_Tigray_SasieTsaedEmba_A045	4	Saesie Tsadeemba	2020	560005	1563790	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4300	2426	ET_Tigray_SasieTsaedEmba_A046	4	Saesie Tsadeemba	2020	559028	1564027	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4300	2427	ET_Tigray_SasieTsaedEmba_A047	4	Saesie Tsadeemba	2020	558637	1563594	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4300	2428	ET_Tigray_SasieTsaedEmba_A048	4	Saesie Tsadeemba	2020	558459	1564869	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4300	2435	ET_Tigray_SasieTsaedEmba_A055	4	Saesie Tsadeemba	2020	565040	1547226	gleyic Fluvisols clayic ochric
Tigray/Mz-Sandstone_&limestone/4300	2447	ET_Tigray_SasieTsaedEmba_A067	4	Saesie Tsadeemba	2020	552708	1561357	haplic Luvisols clayic fluvic
Tigray/Mz-Sandstone_&limestone/4300	2459	ET_Tigray_SasieTsaedEmba_A079	4	Saesie Tsadeemba	2020	554707	1559522	gleyic Arenosols hydrophobic
Tigray/Mz-Sandstone_&limestone/4300	2469	ET_Tigray_SasieTsaedEmba_A089	4	Saesie Tsadeemba	2020	556950	1560859	gleyic Fluvisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2530	ET_Tigray_SasieTsaedEmba_A150	4	Saesie Tsadeemba	2020	569129	1559312	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/4300	2548	ET_Tigray_SasieTsaedEmba_A168	4	Saesie Tsadeemba	2020	561852	1564712	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2549	ET_Tigray_SasieTsaedEmba_A169	4	Saesie Tsadeemba	2020	561004	1562802	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2557	ET_Tigray_SasieTsaedEmba_A177	4	Saesie Tsadeemba	2020	564257	1572831	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2567	ET_Tigray_SasieTsaedEmba_A187	4	Saesie Tsadeemba	2020	560908	1581059	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/4300	2568	ET_Tigray_SasieTsaedEmba_A188	4	Saesie Tsadeemba	2020	561773	1582705	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/4300	2569	ET_Tigray_SasieTsaedEmba_A189	4	Saesie Tsadeemba	2020	560696	1582172	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/4300	2570	ET_Tigray_SasieTsaedEmba_A190	4	Saesie Tsadeemba	2020	558866	1569917	leptic Cambisols arenic
Tigray/Mz-Sandstone_&limestone/4300	2581	ET_Tigray_SasieTsaedEmba_A201	4	Saesie Tsadeemba	2020	566335	1563436	nudilithic Leptosols
Tigray/Mz-Sandstone_&limestone/4300	2599	ET_Tigray_SasieTsaedEmba_A219	4	Saesie Tsadeemba	2020	558864	1571150	albic Arenosols aric
Tigray/Mz-Sandstone_&limestone/4300	2686	ET_Tigray_Ahferom_A076	4	Ahferom	2020	528148	1568538	lithic Leptosols

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Mz-Sandstone_&limestone/4300	2687	ET_Tigray_Ahferom_A077	4	Ahferom	2020	529304	1568061	lithic Leptosols
Tigray/Mz-Sandstone_&limestone/4300	2693	ET_Tigray_Ahferom_A083	4	Ahferom	2020	529317	1567278	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4300	2760	ET_Tigray_Ahferom_A180	4	Ahferom	2020	507743	1579809	haplic Vertisols aric mollic
Tigray/Mz-Sandstone_&limestone/4300	2766	ET_Tigray_Ahferom_A166	4	Ahferom	2020	510575	1577585	haplic Luvisols arenic siltic
Tigray/Mz-Sandstone_&limestone/4300	2783	ET_Tigray_Ahferom_A193	4	Ahferom	2020	522004	1585489	haplic Vertisols aric
Tigray/Mz-Sandstone_&limestone/4300	2784	ET_Tigray_Ahferom_A194	4	Ahferom	2020	521243	1588314	haplic Vertisols aric
Tigray/Mz-Sandstone_&limestone/4300	2785	ET_Tigray_Ahferom_A195	4	Ahferom	2020	521067	1588260	haplic Vertisols aric
Tigray/Mz-Sandstone_&limestone/4300	2804	ET_Tigray_Ahferom_A114	4	Ahferom	2020	521700	1584070	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/4300	2805	ET_Tigray_Ahferom_A115	4	Ahferom	2020	521761	1584012	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/4300	2806	ET_Tigray_Ahferom_A116	4	Ahferom	2020	522701	1583609	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/4300	2840	ET_Tigray_Ahferom_A230	4	Ahferom	2020	511285	1586664	skeletal Leptosols arenic
Tigray/Mz-Sandstone_&limestone/4300	2844	ET_Tigray_Ahferom_A234	4	Ahferom	2020	519685	1579188	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4300	2845	ET_Tigray_Ahferom_A235	4	Ahferom	2020	520279	1579351	fluvic Arenosols aric
Tigray/Mz-Sandstone_&limestone/4310	2470	ET_Tigray_SasieTsaedEmba_A090	4	Saesie Tsadeemba	2020	556798	1562872	gleyic Fluvisols clayic
Tigray/Mz-Sandstone_&limestone/4310	2550	ET_Tigray_SasieTsaedEmba_A170	4	Saesie Tsadeemba	2020	563181	1565612	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4310	2807	ET_Tigray_Ahferom_A117	4	Ahferom	2020	521593	1584223	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/4330	2199	ET_Tigray_Hawzen_A033	4	Hawzen	2020	547397	1547575	haplic Luvisols siltic
Tigray/Mz-Sandstone_&limestone/4330	2298	ET_Tigray_Hawzen_A132	4	Hawzen	2020	544378	1542192	haplic Luvisols loamic
Tigray/Mz-Sandstone_&limestone/4330	2368	ET_Tigray_Hawzen_A202	4	Hawzen	2020	557556	1549257	haplic Vertisols aric ochric
Tigray/Mz-Sandstone_&limestone/4330	2448	ET_Tigray_SasieTsaedEmba_A068	4	Saesie Tsadeemba	2020	552467	1562191	haplic Luvisols clayic fluvic
Tigray/Mz-Sandstone_&limestone/4330	2604	ET_Tigray_SasieTsaedEmba_A224	4	Saesie Tsadeemba	2020	559177	1578494	albic Arenosols aric
Tigray/Mz-Sandstone_&limestone/4330	2694	ET_Tigray_Ahferom_A084	4	Ahferom	2020	529167	1566989	vertic Cambisols clayic
Tigray/Mz-Sandstone_&limestone/4330	2767	ET_Tigray_Ahferom_A167	4	Ahferom	2020	510520	1578448	haplic Luvisols arenic siltic
Tigray/Mz-Sandstone_&limestone/4330	2777	ET_Tigray_Ahferom_A187	4	Ahferom	2020	524155	1584830	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone_&limestone/4330	2808	ET_Tigray_Ahferom_A118	4	Ahferom	2020	521460	1583852	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone_&limestone/4400	2146	ET_Tigray_SasieTsaedEmba_P20	1	Saesie Tsadeemba	2020	575137	1557306	lithic Leptosols siltic aric
Tigray/Mz-Sandstone_&limestone/4400	2390	ET_Tigray_SasieTsaedEmba_A010	4	Saesie Tsadeemba	2020	565851	1563963	albic Arenosols
Tigray/Mz-Sandstone_&limestone/4400	2571	ET_Tigray_SasieTsaedEmba_A191	4	Saesie Tsadeemba	2020	574734	1557853	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4400	2572	ET_Tigray_SasieTsaedEmba_A192	4	Saesie Tsadeemba	2020	574780	1557319	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4400	2573	ET_Tigray_SasieTsaedEmba_A193	4	Saesie Tsadeemba	2020	575275	1556712	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4400	2574	ET_Tigray_SasieTsaedEmba_A194	4	Saesie Tsadeemba	2020	575288	1557430	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4400	2575	ET_Tigray_SasieTsaedEmba_A195	4	Saesie Tsadeemba	2020	575457	1557743	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4400	2576	ET_Tigray_SasieTsaedEmba_A196	4	Saesie Tsadeemba	2020	575355	1558059	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4400	2577	ET_Tigray_SasieTsaedEmba_A197	4	Saesie Tsadeemba	2020	575412	1558389	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4410	2578	ET_Tigray_SasieTsaedEmba_A198	4	Saesie Tsadeemba	2020	575035	1557206	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4410	2579	ET_Tigray_SasieTsaedEmba_A199	4	Saesie Tsadeemba	2020	575092	1557054	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4410	2580	ET_Tigray_SasieTsaedEmba_A200	4	Saesie Tsadeemba	2020	575417	1557150	lithic Leptosols siltic
Tigray/Mz-Sandstone_&limestone/4430	2558	ET_Tigray_SasieTsaedEmba_A178	4	Saesie Tsadeemba	2020	571305	1571119	vertic Cambisols clayic
Tigray/Mz-Sandstone/1002	0		0		0	0	0	
Tigray/Mz-Sandstone/1003	0		0		0	0	0	
Tigray/Mz-Sandstone/2300	2108	ET_Tigray_Hawzen_P02	1	Hawzen	2020	541053	1536731	fluvic Arenosols geoabruptic aric
Tigray/Mz-Sandstone/2300	2162	ET_Tigray_Ahferom_P16	1	Ahferom	2020	510249	1577146	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone/2300	2180	ET_Tigray_Hawzen_A014	4	Hawzen	2020	540114	1535618	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone/2300	2181	ET_Tigray_Hawzen_A015	4	Hawzen	2020	541151	1538339	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone/2300	2182	ET_Tigray_Hawzen_A016	4	Hawzen	2020	540821	1537655	fluvic Arenosols geoabruptic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Mz-Sandstone/2300	2187	ET_Tigray_Hawzen_A021	4	Hawzen	2020	543173	1537890	leptic Cambisols
Tigray/Mz-Sandstone/2300	2188	ET_Tigray_Hawzen_A022	4	Hawzen	2020	542084	1539203	leptic Cambisols
Tigray/Mz-Sandstone/2300	2189	ET_Tigray_Hawzen_A023	4	Hawzen	2020	542824	1538413	leptic Cambisols
Tigray/Mz-Sandstone/2300	2190	ET_Tigray_Hawzen_A024	4	Hawzen	2020	542435	1537353	leptic Cambisols
Tigray/Mz-Sandstone/2300	2210	ET_Tigray_Hawzen_A044	4	Hawzen	2020	541676	1540594	haplic Luvisols siltic
Tigray/Mz-Sandstone/2300	2329	ET_Tigray_Hawzen_A163	4	Hawzen	2020	548611	1533176	vertic Cambisols clayic
Tigray/Mz-Sandstone/2300	2330	ET_Tigray_Hawzen_A164	4	Hawzen	2020	545728	1533854	vertic Cambisols clayic
Tigray/Mz-Sandstone/2300	2778	ET_Tigray_Ahferom_A188	4	Ahferom	2020	525917	1585244	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone/2300	2823	ET_Tigray_Ahferom_A213	4	Ahferom	2020	515354	1581710	skeletal Leptosols arenic
Tigray/Mz-Sandstone/2310	2331	ET_Tigray_Hawzen_A165	4	Hawzen	2020	545288	1533980	vertic Cambisols clayic
Tigray/Mz-Sandstone/2330	2123	ET_Tigray_Hawzen_P17	1	Hawzen	2020	545474	1535127	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone/2330	2183	ET_Tigray_Hawzen_A017	4	Hawzen	2020	543941	1536324	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone/2330	2332	ET_Tigray_Hawzen_A166	4	Hawzen	2020	546593	1533922	vertic Cambisols clayic
Tigray/Mz-Sandstone/2330	2333	ET_Tigray_Hawzen_A167	4	Hawzen	2020	548141	1533106	vertic Cambisols clayic
Tigray/Mz-Sandstone/2330	2334	ET_Tigray_Hawzen_A168	4	Hawzen	2020	545146	1534708	vertic Cambisols clayic
Tigray/Mz-Sandstone/2330	2779	ET_Tigray_Ahferom_A189	4	Ahferom	2020	525564	1584872	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone/2330	2786	ET_Tigray_Ahferom_A196	4	Ahferom	2020	521438	1584552	haplic Vertisols aric
Tigray/Mz-Sandstone/3223	0		0		0	0	0	
Tigray/Mz-Sandstone/3310	0		0		0	0	0	
Tigray/Mz-Sandstone/3321	0		0		0	0	0	
Tigray/Mz-Sandstone/3322	2164	ET_Tigray_Ahferom_P18	1	Ahferom	2020	521374	1586497	haplic Vertisols aric
Tigray/Mz-Sandstone/3322	2787	ET_Tigray_Ahferom_A197	4	Ahferom	2020	522006	1587196	haplic Vertisols aric
Tigray/Mz-Sandstone/3322	2788	ET_Tigray_Ahferom_A198	4	Ahferom	2020	521579	1588185	haplic Vertisols aric
Tigray/Mz-Sandstone/3323	2789	ET_Tigray_Ahferom_A199	4	Ahferom	2020	520410	1585827	haplic Vertisols aric
Tigray/Mz-Sandstone/3330	0		0		0	0	0	
Tigray/Mz-Sandstone/3410	0		0		0	0	0	
Tigray/Mz-Sandstone/3422	0		0		0	0	0	
Tigray/Mz-Sandstone/3423	0		0		0	0	0	
Tigray/Mz-Sandstone/3430	0		0		0	0	0	
Tigray/Mz-Sandstone/4300	2122	ET_Tigray_Hawzen_P16	1	Hawzen	2020	545423	1534242	vertic Cambisols clayic aric
Tigray/Mz-Sandstone/4300	2335	ET_Tigray_Hawzen_A169	4	Hawzen	2020	545592	1533396	vertic Cambisols clayic
Tigray/Mz-Sandstone/4300	2336	ET_Tigray_Hawzen_A170	4	Hawzen	2020	544915	1534391	vertic Cambisols clayic
Tigray/Mz-Sandstone/4300	2337	ET_Tigray_Hawzen_A171	4	Hawzen	2020	546998	1533297	vertic Cambisols clayic
Tigray/Mz-Sandstone/4300	2780	ET_Tigray_Ahferom_A190	4	Ahferom	2020	525227	1585152	haplic Luvisols arenic loamic
Tigray/Mz-Sandstone/4300	2790	ET_Tigray_Ahferom_A200	4	Ahferom	2020	520769	1586055	haplic Vertisols aric
Tigray/Mz-Sandstone/4300	2809	ET_Tigray_Ahferom_A119	4	Ahferom	2020	521846	1583340	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone/4300	2810	ET_Tigray_Ahferom_A120	4	Ahferom	2020	521644	1583612	vertic Cambisols clayic ochric
Tigray/Mz-Sandstone/4300	2824	ET_Tigray_Ahferom_A214	4	Ahferom	2020	515190	1579589	vertic Cambisols geoabruptic clayic
Tigray/Mz-Sandstone/4310	0		0		0	0	0	
Tigray/Mz-Sandstone/4330	2184	ET_Tigray_Hawzen_A018	4	Hawzen	2020	535426	1531573	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone/4330	2185	ET_Tigray_Hawzen_A019	4	Hawzen	2020	542267	1537874	fluvic Arenosols geoabruptic
Tigray/Mz-Sandstone/4400	0		0		0	0	0	
Tigray/Mz-Sandstone/4410	0		0		0	0	0	
Tigray/Mz-Sandstone/4430	0		0		0	0	0	
Tigray/Pa-Tillite & shale_marl/1002	0		0		0	0	0	

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pa-Tillite &shale_marl/1003	2611	ET_Tigray_Ahferom_A001	4	Saesie Tsadeemba	2020	513617	1563647	chromic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/1003	2612	ET_Tigray_Ahferom_A002	4	Ahferom	2020	512321	1565939	chromic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2109	ET_Tigray_Hawzen_P03	1	Hawzen	2020	543576	1537385	vertic Cambisols clayic aric
Tigray/Pa-Tillite &shale_marl/2300	2133	ET_Tigray_SasieTsadedEmba_P07	1	Saesie Tsadeemba	2020	553107	1561737	haplic Luvisols siltic aric fluvic
Tigray/Pa-Tillite &shale_marl/2300	2191	ET_Tigray_Hawzen_A025	4	Hawzen	2020	543328	1537361	vertic Cambisols clayic
Tigray/Pa-Tillite &shale_marl/2300	2192	ET_Tigray_Hawzen_A026	4	Hawzen	2020	543365	1539196	vertic Cambisols clayic
Tigray/Pa-Tillite &shale_marl/2300	2193	ET_Tigray_Hawzen_A027	4	Hawzen	2020	544951	1536156	vertic Cambisols clayic
Tigray/Pa-Tillite &shale_marl/2300	2224	ET_Tigray_Hawzen_A058	4	Hawzen	2020	547375	1564434	leptic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2225	ET_Tigray_Hawzen_A059	4	Hawzen	2020	546681	1564565	leptic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2226	ET_Tigray_Hawzen_A060	4	Hawzen	2020	548155	1563487	leptic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2279	ET_Tigray_Hawzen_A113	4	Hawzen	2020	537196	1540556	colluvic Regosols clayic
Tigray/Pa-Tillite &shale_marl/2300	2280	ET_Tigray_Hawzen_A114	4	Hawzen	2020	536840	1539934	colluvic Regosols clayic
Tigray/Pa-Tillite &shale_marl/2300	2293	ET_Tigray_Hawzen_A127	4	Hawzen	2020	542767	1541414	haplic Luvisols
Tigray/Pa-Tillite &shale_marl/2300	2321	ET_Tigray_Hawzen_A155	4	Hawzen	2020	536611	1539256	haplic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/2300	2375	ET_Tigray_Hawzen_A209	4	Hawzen	2020	530431	1533332	fluvic Arenosols geoabruptic
Tigray/Pa-Tillite &shale_marl/2300	2429	ET_Tigray_SasieTsadedEmba_A049	4	Saesie Tsadeemba	2020	559050	1567067	gleytic Fluvisols siltic
Tigray/Pa-Tillite &shale_marl/2300	2449	ET_Tigray_SasieTsadedEmba_A069	4	Saesie Tsadeemba	2020	553322	1561685	vertic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2450	ET_Tigray_SasieTsadedEmba_A070	4	Saesie Tsadeemba	2020	553308	1561931	vertic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2460	ET_Tigray_SasieTsadedEmba_A080	4	Saesie Tsadeemba	2020	554011	1562288	vertic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2613	ET_Tigray_Ahferom_A003	4	Ahferom	2020	512470	1565177	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2614	ET_Tigray_Ahferom_A004	4	Ahferom	2020	513132	1566057	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2615	ET_Tigray_Ahferom_A005	4	Ahferom	2020	511938	1564460	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2621	ET_Tigray_Ahferom_A011	4	Ahferom	2020	510547	1565034	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2622	ET_Tigray_Ahferom_A012	4	Ahferom	2020	509704	1567585	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2623	ET_Tigray_Ahferom_A013	4	Ahferom	2020	509182	1568046	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2624	ET_Tigray_Ahferom_A014	4	Ahferom	2020	508837	1568838	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2625	ET_Tigray_Ahferom_A015	4	Ahferom	2020	508138	1568120	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2626	ET_Tigray_Ahferom_A016	4	Ahferom	2020	509155	1569322	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2300	2631	ET_Tigray_Ahferom_A021	4	Ahferom	2020	508873	1570407	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/2300	2632	ET_Tigray_Ahferom_A022	4	Ahferom	2020	508997	1570974	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/2300	2633	ET_Tigray_Ahferom_A023	4	Ahferom	2020	508836	1571034	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/2300	2641	ET_Tigray_Ahferom_A031	4	Ahferom	2020	509072	1572586	gleytic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/2300	2642	ET_Tigray_Ahferom_A032	4	Ahferom	2020	507833	1571188	gleytic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/2300	2825	ET_Tigray_Ahferom_A215	4	Ahferom	2020	508534	1568224	vertic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2826	ET_Tigray_Ahferom_A216	4	Ahferom	2020	508613	1568017	chromic Vertisols aric
Tigray/Pa-Tillite &shale_marl/2300	2827	ET_Tigray_Ahferom_A217	4	Ahferom	2020	512993	1564157	vertic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2300	2831	ET_Tigray_Ahferom_A221	4	Ahferom	2020	513210	1569307	vertic abruptic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/2300	2832	ET_Tigray_Ahferom_A222	4	Ahferom	2020	513182	1568468	vertic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/2310	2148	ET_Tigray_Ahferom_P02	1	Ahferom	2020	508662	1568517	haplic Vertisols aric mollic
Tigray/Pa-Tillite &shale_marl/2310	2627	ET_Tigray_Ahferom_A017	4	Ahferom	2020	509999	1569039	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2310	2634	ET_Tigray_Ahferom_A024	4	Ahferom	2020	508911	1570034	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/2310	2635	ET_Tigray_Ahferom_A025	4	Ahferom	2020	508969	1571983	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/2310	2643	ET_Tigray_Ahferom_A033	4	Ahferom	2020	508962	1572865	gleytic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/2330	2147	ET_Tigray_Ahferom_P01	1	Saesie Tsadeemba	2020	513447	1563821	chromic Vertisols aric mollic
Tigray/Pa-Tillite &shale_marl/2330	2186	ET_Tigray_Hawzen_A020	4	Hawzen	2020	542689	1536568	vertic Cambisols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pa-Tillite &shale_marl/2330	2211	ET_Tigray_Hawzen_A045	4	Hawzen	2020	541743	1541669	haplic Luvisols loamic
Tigray/Pa-Tillite &shale_marl/2330	2299	ET_Tigray_Hawzen_A133	4	Hawzen	2020	542684	1540964	haplic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/2330	2322	ET_Tigray_Hawzen_A156	4	Hawzen	2020	536518	1538374	haplic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/2330	2616	ET_Tigray_Ahferom_A006	4	Ahferom	2020	512739	1565202	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/2330	2636	ET_Tigray_Ahferom_A026	4	Ahferom	2020	509071	1569974	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/3310	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/3321	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/3322	2617	ET_Tigray_Ahferom_A007	4	Ahferom	2020	513728	1564154	eutric calcaric Cambisols clayic
Tigray/Pa-Tillite &shale_marl/3322	2628	ET_Tigray_Ahferom_A018	4	Ahferom	2020	507654	1566272	calcaric colluvic Regosols
Tigray/Pa-Tillite &shale_marl/3322	2637	ET_Tigray_Ahferom_A027	4	Ahferom	2020	509054	1571770	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/3322	2644	ET_Tigray_Ahferom_A034	4	Ahferom	2020	508118	1573012	gleyic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/3322	2658	ET_Tigray_Ahferom_A048	4	Ahferom	2020	520923	1562570	lithic Leptosols
Tigray/Pa-Tillite &shale_marl/3322	2688	ET_Tigray_Ahferom_A078	4	Ahferom	2020	528409	1567749	lithic Leptosols
Tigray/Pa-Tillite &shale_marl/3323	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/3330	2430	ET_Tigray_SasieTsaedEmba_A050	4	Saesie Tsadeemba	2020	557168	1564905	gleyic Fluvisols siltic
Tigray/Pa-Tillite &shale_marl/3330	2645	ET_Tigray_Ahferom_A035	4	Ahferom	2020	508733	1573389	gleyic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/3410	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/3422	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/3423	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/3430	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/4300	2149	ET_Tigray_Ahferom_P03	1	Ahferom	2020	508935	1571732	vertic Cambisols clayic aric
Tigray/Pa-Tillite &shale_marl/4300	2194	ET_Tigray_Hawzen_A028	4	Hawzen	2020	544945	1537482	vertic Cambisols clayic
Tigray/Pa-Tillite &shale_marl/4300	2195	ET_Tigray_Hawzen_A029	4	Hawzen	2020	543557	1537099	vertic Cambisols clayic
Tigray/Pa-Tillite &shale_marl/4300	2323	ET_Tigray_Hawzen_A157	4	Hawzen	2020	535185	1537537	haplic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/4300	2324	ET_Tigray_Hawzen_A158	4	Hawzen	2020	535280	1535317	haplic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/4300	2618	ET_Tigray_Ahferom_A008	4	Ahferom	2020	514774	1561168	chromic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/4300	2619	ET_Tigray_Ahferom_A009	4	Ahferom	2020	514322	1561657	chromic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/4300	2620	ET_Tigray_Ahferom_A010	4	Ahferom	2020	514092	1562042	chromic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/4300	2629	ET_Tigray_Ahferom_A019	4	Ahferom	2020	507775	1566460	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/4300	2630	ET_Tigray_Ahferom_A020	4	Ahferom	2020	508314	1569217	haplic Vertisols mollic
Tigray/Pa-Tillite &shale_marl/4300	2638	ET_Tigray_Ahferom_A028	4	Ahferom	2020	509320	1570040	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/4300	2639	ET_Tigray_Ahferom_A029	4	Ahferom	2020	509161	1571274	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/4300	2640	ET_Tigray_Ahferom_A030	4	Ahferom	2020	508777	1571891	vertic Cambisols clayic ochric
Tigray/Pa-Tillite &shale_marl/4300	2646	ET_Tigray_Ahferom_A036	4	Ahferom	2020	508937	1572464	gleyic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/4300	2647	ET_Tigray_Ahferom_A037	4	Ahferom	2020	508780	1572862	gleyic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/4300	2648	ET_Tigray_Ahferom_A038	4	Ahferom	2020	508682	1571772	gleyic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/4300	2649	ET_Tigray_Ahferom_A039	4	Ahferom	2020	508970	1572203	gleyic Fluvisols loamic
Tigray/Pa-Tillite &shale_marl/4300	2659	ET_Tigray_Ahferom_A049	4	Ahferom	2020	520098	1561670	lithic Leptosols
Tigray/Pa-Tillite &shale_marl/4300	2689	ET_Tigray_Ahferom_A079	4	Ahferom	2020	528317	1568127	lithic Leptosols
Tigray/Pa-Tillite &shale_marl/4300	2690	ET_Tigray_Ahferom_A080	4	Ahferom	2020	527691	1568203	lithic Leptosols
Tigray/Pa-Tillite &shale_marl/4300	2814	ET_Tigray_Ahferom_A204	4	Ahferom	2020	504532	1582880	haplic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/4300	2828	ET_Tigray_Ahferom_A218	4	Ahferom	2020	514528	1561201	vertic abruptic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/4300	2829	ET_Tigray_Ahferom_A219	4	Ahferom	2020	514099	1562561	vertic abruptic Luvisols clayic
Tigray/Pa-Tillite &shale_marl/4300	2830	ET_Tigray_Ahferom_A220	4	Ahferom	2020	513485	1570351	vertic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/4310	2650	ET_Tigray_Ahferom_A040	4	Ahferom	2020	508226	1573206	gleyic Fluvisols loamic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pa-Tillite &shale_marl/4330	2196	ET_Tigray_Hawzen_A030	4	Hawzen	2020	544027	1538090	vertic Cambisols clayic
Tigray/Pa-Tillite &shale_marl/4400	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/4410	0		0		0	0	0	
Tigray/Pa-Tillite &shale_marl/4430	2227	ET_Tigray_Hawzen_A061	4	Hawzen	2020	546664	1563602	leptic Cambisols geoabruptic clayic
Tigray/Pa-Tillite &shale_marl/4430	2228	ET_Tigray_Hawzen_A062	4	Hawzen	2020	546846	1563358	leptic Cambisols geoabruptic clayic
Tigray/Pc-Dolomite_&slate_limestone/1002	2471	ET_Tigray_SasieTsaedEmba_A091	4	Saesie Tsadeemba	2020	569934	1551436	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/1002	2481	ET_Tigray_SasieTsaedEmba_A101	4	Saesie Tsadeemba	2020	569519	1550134	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/1002	2482	ET_Tigray_SasieTsaedEmba_A102	4	Saesie Tsadeemba	2020	569788	1549427	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/1003	2136	ET_Tigray_SasieTsaedEmba_P10	1	Saesie Tsadeemba	2020	569888	1551630	haplic Luvisols clayic aric
Tigray/Pc-Dolomite_&slate_limestone/1003	2137	ET_Tigray_SasieTsaedEmba_P11	1	Saesie Tsadeemba	2020	569607	1550422	haplic Luvisols loamic aric
Tigray/Pc-Dolomite_&slate_limestone/1003	2472	ET_Tigray_SasieTsaedEmba_A092	4	Saesie Tsadeemba	2020	569767	1551611	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/1003	2473	ET_Tigray_SasieTsaedEmba_A093	4	Saesie Tsadeemba	2020	569680	1551563	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/1003	2474	ET_Tigray_SasieTsaedEmba_A094	4	Saesie Tsadeemba	2020	570063	1551564	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/1003	2475	ET_Tigray_SasieTsaedEmba_A095	4	Saesie Tsadeemba	2020	569904	1551973	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/1003	2476	ET_Tigray_SasieTsaedEmba_A096	4	Saesie Tsadeemba	2020	569577	1552411	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/1003	2483	ET_Tigray_SasieTsaedEmba_A103	4	Saesie Tsadeemba	2020	569919	1549741	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/1003	2484	ET_Tigray_SasieTsaedEmba_A104	4	Saesie Tsadeemba	2020	569661	1550858	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/1004	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/2200	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/2210	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/2230	2376	ET_Tigray_Hawzen_A210	4	Hawzen	2020	525997	1538891	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2300	2117	ET_Tigray_Hawzen_P11	1	Hawzen	2020	536931	1541549	gleytic Regosols clayic fluvic
Tigray/Pc-Dolomite_&slate_limestone/2300	2200	ET_Tigray_Hawzen_A034	4	Hawzen	2020	545324	1546099	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2300	2201	ET_Tigray_Hawzen_A035	4	Hawzen	2020	545866	1547088	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2300	2212	ET_Tigray_Hawzen_A046	4	Hawzen	2020	542555	1543278	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2300	2217	ET_Tigray_Hawzen_A051	4	Hawzen	2020	542455	1543084	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2300	2308	ET_Tigray_Hawzen_A142	4	Hawzen	2020	531886	1541289	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2300	2309	ET_Tigray_Hawzen_A143	4	Hawzen	2020	532192	1538231	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2300	2310	ET_Tigray_Hawzen_A144	4	Hawzen	2020	530440	1536207	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2300	2377	ET_Tigray_Hawzen_A211	4	Hawzen	2020	524563	1529414	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2300	2477	ET_Tigray_SasieTsaedEmba_A097	4	Saesie Tsadeemba	2020	569832	1551823	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/2300	2485	ET_Tigray_SasieTsaedEmba_A105	4	Saesie Tsadeemba	2020	569981	1550917	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2300	2486	ET_Tigray_SasieTsaedEmba_A106	4	Saesie Tsadeemba	2020	569403	1550824	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2300	2559	ET_Tigray_SasieTsaedEmba_A179	4	Saesie Tsadeemba	2020	570746	1573527	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/2300	2695	ET_Tigray_Ahferom_A085	4	Ahferom	2020	530474	1566319	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/2310	2213	ET_Tigray_Hawzen_A047	4	Hawzen	2020	542544	1542733	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2310	2281	ET_Tigray_Hawzen_A115	4	Hawzen	2020	540614	1542936	colluvic Regosols clayic
Tigray/Pc-Dolomite_&slate_limestone/2310	2316	ET_Tigray_Hawzen_A150	4	Hawzen	2020	532363	1541075	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2310	2347	ET_Tigray_Hawzen_A181	4	Hawzen	2020	548044	1537336	fluvic Arenosols placic
Tigray/Pc-Dolomite_&slate_limestone/2310	2487	ET_Tigray_SasieTsaedEmba_A107	4	Saesie Tsadeemba	2020	568955	1550889	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2330	2111	ET_Tigray_Hawzen_P05	1	Hawzen	2020	542533	1543074	haplic Luvisols loamic aric
Tigray/Pc-Dolomite_&slate_limestone/2330	2202	ET_Tigray_Hawzen_A036	4	Hawzen	2020	546845	1546738	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2330	2214	ET_Tigray_Hawzen_A048	4	Hawzen	2020	541675	1543424	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2330	2215	ET_Tigray_Hawzen_A049	4	Hawzen	2020	542982	1543170	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/2330	2282	ET_Tigray_Hawzen_A116	4	Hawzen	2020	535971	1542634	colluvic Regosols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pc-Dolomite_&slate_limestone/2330	2283	ET_Tigray_Hawzen_A117	4	Hawzen	2020	536896	1541496	colluvic Regosols clayic
Tigray/Pc-Dolomite_&slate_limestone/2330	2311	ET_Tigray_Hawzen_A145	4	Hawzen	2020	532461	1540604	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2330	2312	ET_Tigray_Hawzen_A146	4	Hawzen	2020	532898	1541158	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/2330	2325	ET_Tigray_Hawzen_A159	4	Hawzen	2020	534456	1541336	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/3110	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3121	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3122	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3123	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3130	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3210	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3221	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3222	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3223	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3230	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3310	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3321	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3322	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3323	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3330	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3410	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3422	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3423	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/3430	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/4200	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/4210	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/4230	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/4300	2107	ET_Tigray_Hawzen_P01	4	District	2020	537437	1551054	lithic Leptosols siltic
Tigray/Pc-Dolomite_&slate_limestone/4300	2120	ET_Tigray_Hawzen_P14	1	Hawzen	2020	533077	1540740	fluvic Arenosols geoabruptic aric
Tigray/Pc-Dolomite_&slate_limestone/4300	2167	ET_Tigray_Hawzen_A001	1	Ahferom	2020	537189	1550808	lithic Leptosols siltic
Tigray/Pc-Dolomite_&slate_limestone/4300	2168	ET_Tigray_Hawzen_A002	4	Hawzen	2020	537257	1550443	lithic Leptosols siltic
Tigray/Pc-Dolomite_&slate_limestone/4300	2216	ET_Tigray_Hawzen_A050	4	Hawzen	2020	543101	1543852	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/4300	2378	ET_Tigray_Hawzen_A212	4	Hawzen	2020	526393	1533658	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/4300	2379	ET_Tigray_Hawzen_A213	4	Hawzen	2020	529034	1537725	fluvic Arenosols geoabruptic
Tigray/Pc-Dolomite_&slate_limestone/4300	2478	ET_Tigray_SasieTsaedEmba_A098	4	Saesie Tsadeemba	2020	569634	1551843	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4300	2479	ET_Tigray_SasieTsaedEmba_A099	4	Saesie Tsadeemba	2020	569330	1551860	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4300	2480	ET_Tigray_SasieTsaedEmba_A100	4	Saesie Tsadeemba	2020	569193	1551926	haplic Luvisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4300	2488	ET_Tigray_SasieTsaedEmba_A108	4	Saesie Tsadeemba	2020	569140	1550054	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/4300	2489	ET_Tigray_SasieTsaedEmba_A109	4	Saesie Tsadeemba	2020	569556	1550748	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/4300	2560	ET_Tigray_SasieTsaedEmba_A180	4	Saesie Tsadeemba	2020	571437	1574128	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4300	2696	ET_Tigray_Ahferom_A086	4	Ahferom	2020	529415	1567750	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4310	2490	ET_Tigray_SasieTsaedEmba_A110	4	Saesie Tsadeemba	2020	568593	1549610	haplic Luvisols loamic
Tigray/Pc-Dolomite_&slate_limestone/4310	2697	ET_Tigray_Ahferom_A087	4	Ahferom	2020	530006	1567463	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4310	2698	ET_Tigray_Ahferom_A088	4	Ahferom	2020	530216	1566990	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4330	2169	ET_Tigray_Hawzen_A003	4	Hawzen	2020	537203	1551188	lithic Leptosols siltic
Tigray/Pc-Dolomite_&slate_limestone/4330	2313	ET_Tigray_Hawzen_A147	4	Hawzen	2020	533426	1540730	fluvic Arenosols geoabruptic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pc-Dolomite_&slate_limestone/4330	2699	ET_Tigray_Ahferom_A089	4	Ahferom	2020	530055	1566662	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4330	2700	ET_Tigray_Ahferom_A090	4	Ahferom	2020	529870	1567659	vertic Cambisols clayic
Tigray/Pc-Dolomite_&slate_limestone/4400	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/4410	0		0		0	0	0	
Tigray/Pc-Dolomite_&slate_limestone/4430	0		0		0	0	0	
Tigray/Pc-Gabbro/1001	0		0		0	0	0	
Tigray/Pc-Gabbro/1002	0		0		0	0	0	
Tigray/Pc-Gabbro/1003	0		0		0	0	0	
Tigray/Pc-Gabbro/2200	0		0		0	0	0	
Tigray/Pc-Gabbro/2210	0		0		0	0	0	
Tigray/Pc-Gabbro/2230	0		0		0	0	0	
Tigray/Pc-Gabbro/3210	0		0		0	0	0	
Tigray/Pc-Gabbro/3221	0		0		0	0	0	
Tigray/Pc-Gabbro/3222	0		0		0	0	0	
Tigray/Pc-Gabbro/3223	0		0		0	0	0	
Tigray/Pc-Gabbro/3230	0		0		0	0	0	
Tigray/Pc-Gabbro/3322	0		0		0	0	0	
Tigray/Pc-Gabbro/3323	0		0		0	0	0	
Tigray/Pc-Gabbro/3330	0		0		0	0	0	
Tigray/Pc-Gabbro/4200	0		0		0	0	0	
Tigray/Pc-Gabbro/4210	0		0		0	0	0	
Tigray/Pc-Gabbro/4230	0		0		0	0	0	
Tigray/Pc-Gabbro/4300	0		0		0	0	0	
Tigray/Pc-Gabbro/4330	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/1001	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/1002	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/1003	2511	ET_Tigray_SasieTsaedEmba_A131	4	Saesie Tsadeemba	2020	558325	1541552	albic Arenosols
Tigray/Pc-Gneiss_&granite/1003	2585	ET_Tigray_SasieTsaedEmba_A205	4	Saesie Tsadeemba	2020	558410	1541515	fluvic Cambisols clayic
Tigray/Pc-Gneiss_&granite/1003	2586	ET_Tigray_SasieTsaedEmba_A206	4	Saesie Tsadeemba	2020	559451	1542132	fluvic Cambisols siltic
Tigray/Pc-Gneiss_&granite/2200	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/2210	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/2230	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/2300	2300	ET_Tigray_Hawzen_A134	4	Hawzen	2020	544784	1541491	haplic Luvisols clayic
Tigray/Pc-Gneiss_&granite/2300	2301	ET_Tigray_Hawzen_A135	4	Hawzen	2020	545157	1542807	haplic Luvisols clayic
Tigray/Pc-Gneiss_&granite/2300	2302	ET_Tigray_Hawzen_A136	4	Hawzen	2020	545616	1542386	haplic Luvisols clayic
Tigray/Pc-Gneiss_&granite/2300	2303	ET_Tigray_Hawzen_A137	4	Hawzen	2020	546216	1541935	haplic Luvisols clayic
Tigray/Pc-Gneiss_&granite/2300	2501	ET_Tigray_SasieTsaedEmba_A121	4	Saesie Tsadeemba	2020	561090	1543481	haplic Vertisols gleyic
Tigray/Pc-Gneiss_&granite/2300	2502	ET_Tigray_SasieTsaedEmba_A122	4	Saesie Tsadeemba	2020	560039	1542712	haplic Vertisols gleyic
Tigray/Pc-Gneiss_&granite/2300	2512	ET_Tigray_SasieTsaedEmba_A132	4	Saesie Tsadeemba	2020	559116	1543165	albic Arenosols
Tigray/Pc-Gneiss_&granite/2300	2513	ET_Tigray_SasieTsaedEmba_A133	4	Saesie Tsadeemba	2020	560070	1543767	albic Arenosols
Tigray/Pc-Gneiss_&granite/2310	2170	ET_Tigray_Hawzen_A004	4	Hawzen	2020	536039	1551394	leptic Cambisols clayic
Tigray/Pc-Gneiss_&granite/2310	2503	ET_Tigray_SasieTsaedEmba_A123	4	Saesie Tsadeemba	2020	561182	1542994	haplic Vertisols gleyic
Tigray/Pc-Gneiss_&granite/2310	2504	ET_Tigray_SasieTsaedEmba_A124	4	Saesie Tsadeemba	2020	562509	1542754	haplic Vertisols gleyic
Tigray/Pc-Gneiss_&granite/2310	2514	ET_Tigray_SasieTsaedEmba_A134	4	Saesie Tsadeemba	2020	558390	1541013	albic Arenosols
Tigray/Pc-Gneiss_&granite/2330	2305	ET_Tigray_Hawzen_A139	4	Hawzen	2020	544486	1541563	haplic Luvisols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pc-Gneiss_&granite/2330	2588	ET_Tigray_SasieTsaedEmba_A208	4	Saesie Tsadeemba	2020	563580	1541910	lithic Leptosols siltic
Tigray/Pc-Gneiss_&granite/3210	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3222	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3223	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3230	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3310	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3321	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3322	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3323	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/3330	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/4200	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/4210	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/4230	0		0		0	0	0	
Tigray/Pc-Gneiss_&granite/4300	2139	ET_Tigray_SasieTsaedEmba_P13	1	Saesie Tsadeemba	2020	561014	1542951	haplic Vertisols aric gleyic
Tigray/Pc-Gneiss_&granite/4300	2304	ET_Tigray_Hawzen_A138	4	Hawzen	2020	544057	1541639	haplic Luvisols clayic
Tigray/Pc-Gneiss_&granite/4300	2505	ET_Tigray_SasieTsaedEmba_A125	4	Saesie Tsadeemba	2020	561095	1542552	haplic Vertisols aric gilgaic
Tigray/Pc-Gneiss_&granite/4300	2506	ET_Tigray_SasieTsaedEmba_A126	4	Saesie Tsadeemba	2020	561481	1541317	haplic Vertisols aric gilgaic
Tigray/Pc-Gneiss_&granite/4300	2507	ET_Tigray_SasieTsaedEmba_A127	4	Saesie Tsadeemba	2020	562881	1541916	haplic Vertisols aric gilgaic
Tigray/Pc-Gneiss_&granite/4300	2508	ET_Tigray_SasieTsaedEmba_A128	4	Saesie Tsadeemba	2020	562780	1540827	haplic Vertisols aric gilgaic
Tigray/Pc-Gneiss_&granite/4300	2515	ET_Tigray_SasieTsaedEmba_A135	4	Saesie Tsadeemba	2020	558242	1542766	albic Arenosols geoabruptic
Tigray/Pc-Gneiss_&granite/4300	2516	ET_Tigray_SasieTsaedEmba_A136	4	Saesie Tsadeemba	2020	561232	1544432	albic Arenosols geoabruptic
Tigray/Pc-Gneiss_&granite/4310	2171	ET_Tigray_Hawzen_A005	4	Hawzen	2020	536589	1550602	leptic Cambisols clayic
Tigray/Pc-Gneiss_&granite/4310	2509	ET_Tigray_SasieTsaedEmba_A129	4	Saesie Tsadeemba	2020	560917	1543012	haplic Vertisols aric gilgaic
Tigray/Pc-Gneiss_&granite/4330	2510	ET_Tigray_SasieTsaedEmba_A130	4	Saesie Tsadeemba	2020	561078	1542806	haplic Vertisols aric gilgaic
Tigray/Pc-Graphite_quartz_&phyllite/1001	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/1002	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/1003	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/2200	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/2210	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/2230	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/3210	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/3221	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/3222	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/3223	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/3230	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/4200	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/4210	0		0		0	0	0	
Tigray/Pc-Graphite_quartz_&phyllite/4230	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/1001	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/1002	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/1003	2768	ET_Tigray_Ahferom_A168	4	Ahferom	2020	510183	1579334	gleyic Luvisols arenic loamic
Tigray/Pc-Metavolcanic_&schist/1003	2769	ET_Tigray_Ahferom_A169	4	Ahferom	2020	510071	1579238	gleyic Luvisols arenic loamic
Tigray/Pc-Metavolcanic_&schist/1004	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/2200	2721	ET_Tigray_Ahferom_A121	4	Ahferom	2020	507226	1594694	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/2210	2722	ET_Tigray_Ahferom_A122	4	Ahferom	2020	507518	1595102	leptic Luvisols

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pc-Metavolcanic_&schist/2230	2791	ET_Tigray_Ahferom_A131	4	Ahferom	2020	516835	1597370	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2125	ET_Tigray_Hawzen_P19	1	Hawzen	2020	554953	1546712	haplic Vertisols aric gilgaic ochric
Tigray/Pc-Metavolcanic_&schist/2300	2130	ET_Tigray_SasieTsaedEmba_P04	1	Saesie Tsadeemba	2020	563880	1549415	lithic Leptosols arenic aric
Tigray/Pc-Metavolcanic_&schist/2300	2138	ET_Tigray_SasieTsaedEmba_P12	1	Saesie Tsadeemba	2020	563680	1545303	leptic Luvisols clayic aric
Tigray/Pc-Metavolcanic_&schist/2300	2140	ET_Tigray_SasieTsaedEmba_P14	1	Saesie Tsadeemba	2020	558229	1545383	albic Arenosols aric
Tigray/Pc-Metavolcanic_&schist/2300	2159	ET_Tigray_Ahferom_P13	1	Ahferom	2020	511828	1590490	gleyic Luvisols arenic loamic
Tigray/Pc-Metavolcanic_&schist/2300	2203	ET_Tigray_Hawzen_A037	4	Hawzen	2020	543987	1549491	haplic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2204	ET_Tigray_Hawzen_A038	4	Hawzen	2020	545380	1548290	haplic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2205	ET_Tigray_Hawzen_A039	4	Hawzen	2020	544443	1549657	haplic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2260	ET_Tigray_Hawzen_A094	4	Hawzen	2020	552780	1551411	haplic Luvisols arenic
Tigray/Pc-Metavolcanic_&schist/2300	2314	ET_Tigray_Hawzen_A148	4	Hawzen	2020	532111	1542215	fluvic Arenosols geoabruptic
Tigray/Pc-Metavolcanic_&schist/2300	2351	ET_Tigray_Hawzen_A185	4	Hawzen	2020	556165	1546188	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/2300	2352	ET_Tigray_Hawzen_A186	4	Hawzen	2020	557492	1546587	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/2300	2353	ET_Tigray_Hawzen_A187	4	Hawzen	2020	554796	1546294	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/2300	2354	ET_Tigray_Hawzen_A188	4	Hawzen	2020	554805	1547004	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/2300	2355	ET_Tigray_Hawzen_A189	4	Hawzen	2020	554855	1547404	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/2300	2356	ET_Tigray_Hawzen_A190	4	Hawzen	2020	554319	1547654	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/2300	2419	ET_Tigray_SasieTsaedEmba_A039	4	Saesie Tsadeemba	2020	563750	1549542	lithic Leptosols arenic
Tigray/Pc-Metavolcanic_&schist/2300	2491	ET_Tigray_SasieTsaedEmba_A111	4	Saesie Tsadeemba	2020	563267	1545373	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2492	ET_Tigray_SasieTsaedEmba_A112	4	Saesie Tsadeemba	2020	563071	1544910	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2493	ET_Tigray_SasieTsaedEmba_A113	4	Saesie Tsadeemba	2020	564046	1544777	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2494	ET_Tigray_SasieTsaedEmba_A114	4	Saesie Tsadeemba	2020	564221	1545546	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2517	ET_Tigray_SasieTsaedEmba_A137	4	Saesie Tsadeemba	2020	558249	1543377	albic Arenosols geoabruptic
Tigray/Pc-Metavolcanic_&schist/2300	2518	ET_Tigray_SasieTsaedEmba_A138	4	Saesie Tsadeemba	2020	557807	1544337	albic Arenosols geoabruptic
Tigray/Pc-Metavolcanic_&schist/2300	2519	ET_Tigray_SasieTsaedEmba_A139	4	Saesie Tsadeemba	2020	558776	1543894	albic Arenosols geoabruptic
Tigray/Pc-Metavolcanic_&schist/2300	2589	ET_Tigray_SasieTsaedEmba_A209	4	Saesie Tsadeemba	2020	560570	1544586	vertic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2590	ET_Tigray_SasieTsaedEmba_A210	4	Saesie Tsadeemba	2020	561616	1545340	vertic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2591	ET_Tigray_SasieTsaedEmba_A211	4	Saesie Tsadeemba	2020	562160	1545464	leptic Cambisols arenic
Tigray/Pc-Metavolcanic_&schist/2300	2731	ET_Tigray_Ahferom_A151	4	Ahferom	2020	511719	1589791	gleyic Luvisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2732	ET_Tigray_Ahferom_A152	4	Ahferom	2020	511818	1590070	gleyic Luvisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2733	ET_Tigray_Ahferom_A153	4	Ahferom	2020	511437	1590470	gleyic Luvisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2734	ET_Tigray_Ahferom_A154	4	Ahferom	2020	511801	1590575	gleyic Luvisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2735	ET_Tigray_Ahferom_A155	4	Ahferom	2020	511583	1590812	gleyic Luvisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2736	ET_Tigray_Ahferom_A156	4	Ahferom	2020	511584	1591025	gleyic Luvisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2750	ET_Tigray_Ahferom_A150	4	Ahferom	2020	509508	1582252	haplic Luvisols arenic loamic
Tigray/Pc-Metavolcanic_&schist/2300	2770	ET_Tigray_Ahferom_A170	4	Ahferom	2020	510771	1579355	haplic Luvisols arenic loamic
Tigray/Pc-Metavolcanic_&schist/2300	2792	ET_Tigray_Ahferom_A132	4	Ahferom	2020	517331	1597395	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2793	ET_Tigray_Ahferom_A133	4	Ahferom	2020	518796	1599196	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2794	ET_Tigray_Ahferom_A134	4	Ahferom	2020	518379	1599132	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2795	ET_Tigray_Ahferom_A135	4	Ahferom	2020	519715	1598332	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2796	ET_Tigray_Ahferom_A136	4	Ahferom	2020	518132	1600182	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/2300	2811	ET_Tigray_Ahferom_A201	4	Ahferom	2020	504403	1586408	vertic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/2300	2821	ET_Tigray_Ahferom_A211	4	Ahferom	2020	515142	1585726	lithic Leptosols siltic
Tigray/Pc-Metavolcanic_&schist/2310	2110	ET_Tigray_Hawzen_P04	1	Hawzen	2020	544507	1549047	haplic Luvisols siltic aric
Tigray/Pc-Metavolcanic_&schist/2310	2206	ET_Tigray_Hawzen_A040	4	Hawzen	2020	544264	1549069	haplic Luvisols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pc-Metavolcanic_&schist/2310	2436	ET_Tigray_SasieTsaedEmba_A056	4	Saesie Tsadeemba	2020	568313	1544967	gleyic Fluvisols clayic ochric
Tigray/Pc-Metavolcanic_&schist/2310	2495	ET_Tigray_SasieTsaedEmba_A115	4	Saesie Tsadeemba	2020	563774	1545051	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2310	2520	ET_Tigray_SasieTsaedEmba_A140	4	Saesie Tsadeemba	2020	558616	1543787	albic Arenosols geoabruptic
Tigray/Pc-Metavolcanic_&schist/2310	2737	ET_Tigray_Ahferom_A157	4	Ahferom	2020	511341	1590557	gleyic Luvisols siltic
Tigray/Pc-Metavolcanic_&schist/2310	2812	ET_Tigray_Ahferom_A202	4	Ahferom	2020	504792	1586403	vertic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/2330	2496	ET_Tigray_SasieTsaedEmba_A116	4	Saesie Tsadeemba	2020	564174	1545014	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2330	2497	ET_Tigray_SasieTsaedEmba_A117	4	Saesie Tsadeemba	2020	562914	1545050	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/2330	2592	ET_Tigray_SasieTsaedEmba_A212	4	Saesie Tsadeemba	2020	562937	1545291	leptic Cambisols arenic
Tigray/Pc-Metavolcanic_&schist/2330	2738	ET_Tigray_Ahferom_A158	4	Ahferom	2020	511656	1590647	gleyic Luvisols siltic
Tigray/Pc-Metavolcanic_&schist/2330	2739	ET_Tigray_Ahferom_A159	4	Ahferom	2020	511743	1591034	gleyic Luvisols siltic
Tigray/Pc-Metavolcanic_&schist/2330	2813	ET_Tigray_Ahferom_A203	4	Ahferom	2020	503996	1584002	vertic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/2410	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3210	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3221	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3222	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3223	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3230	2723	ET_Tigray_Ahferom_A123	4	Ahferom	2020	506576	1595333	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/3310	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3321	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3322	2797	ET_Tigray_Ahferom_A137	4	Ahferom	2020	518713	1600459	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/3323	2172	ET_Tigray_Hawzen_A006	4	Hawzen	2020	538714	1550851	leptic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/3323	2724	ET_Tigray_Ahferom_A124	4	Ahferom	2020	507661	1594214	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/3323	2818	ET_Tigray_Ahferom_A208	4	Ahferom	2020	514846	1586356	skeletal Leptosols aric
Tigray/Pc-Metavolcanic_&schist/3330	2158	ET_Tigray_Ahferom_P12	1	Ahferom	2020	507403	1595259	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/3410	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3422	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3423	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/3430	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/4200	2725	ET_Tigray_Ahferom_A125	4	Ahferom	2020	507060	1595958	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/4200	2726	ET_Tigray_Ahferom_A126	4	Ahferom	2020	506435	1594758	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/4210	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/4230	2798	ET_Tigray_Ahferom_A138	4	Ahferom	2020	516312	1598503	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/4300	2165	ET_Tigray_Ahferom_P19	1	Ahferom	2020	518500	1600299	leptic Cambisols loamic aric
Tigray/Pc-Metavolcanic_&schist/4300	2173	ET_Tigray_Hawzen_A007	4	Hawzen	2020	539690	1550566	leptic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/4300	2174	ET_Tigray_Hawzen_A008	4	Hawzen	2020	539749	1550203	leptic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/4300	2315	ET_Tigray_Hawzen_A149	4	Hawzen	2020	532941	1541618	fluvic Arenosols geoabruptic
Tigray/Pc-Metavolcanic_&schist/4300	2357	ET_Tigray_Hawzen_A191	4	Hawzen	2020	555262	1545375	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/4300	2358	ET_Tigray_Hawzen_A192	4	Hawzen	2020	554135	1547024	haplic Vertisols aric ochric
Tigray/Pc-Metavolcanic_&schist/4300	2437	ET_Tigray_SasieTsaedEmba_A057	4	Saesie Tsadeemba	2020	566121	1546660	gleyic Fluvisols clayic ochric
Tigray/Pc-Metavolcanic_&schist/4300	2438	ET_Tigray_SasieTsaedEmba_A058	4	Saesie Tsadeemba	2020	566441	1546459	gleyic Fluvisols clayic ochric
Tigray/Pc-Metavolcanic_&schist/4300	2498	ET_Tigray_SasieTsaedEmba_A118	4	Saesie Tsadeemba	2020	563049	1545729	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/4300	2499	ET_Tigray_SasieTsaedEmba_A119	4	Saesie Tsadeemba	2020	563679	1545571	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/4300	2587	ET_Tigray_SasieTsaedEmba_A207	4	Saesie Tsadeemba	2020	561425	1545561	skeletal Leptosols siltic
Tigray/Pc-Metavolcanic_&schist/4300	2607	ET_Tigray_SasieTsaedEmba_A227	4	Saesie Tsadeemba	2020	558080	1539523	vertic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/4300	2608	ET_Tigray_SasieTsaedEmba_A228	4	Saesie Tsadeemba	2020	558025	1538992	vertic Cambisols clayic

BaseMap	Obj_ID	ProfileID	Reliab	District	Year	X_UTM37	Y_UTM37	WRBclass
Tigray/Pc-Metavolcanic_&schist/4300	2610	ET_Tigray_SasieTsaedEmba_A230	4	Saesie Tsadeemba	2020	558215	1539982	vertic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/4300	2727	ET_Tigray_Ahferom_A127	4	Ahferom	2020	508694	1595423	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/4300	2728	ET_Tigray_Ahferom_A128	4	Ahferom	2020	507308	1594382	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/4300	2740	ET_Tigray_Ahferom_A160	4	Ahferom	2020	511711	1589448	leptic Luvisols siltic
Tigray/Pc-Metavolcanic_&schist/4300	2799	ET_Tigray_Ahferom_A139	4	Ahferom	2020	518140	1600728	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/4300	2800	ET_Tigray_Ahferom_A140	4	Ahferom	2020	517308	1598210	leptic Cambisols loamic
Tigray/Pc-Metavolcanic_&schist/4300	2837	ET_Tigray_Ahferom_A227	4	Ahferom	2020	511333	1589051	albic gleyic Arenosols hydrophobic
Tigray/Pc-Metavolcanic_&schist/4300	2838	ET_Tigray_Ahferom_A228	4	Ahferom	2020	510214	1589184	calcaric Cambisols clayic aric
Tigray/Pc-Metavolcanic_&schist/4310	2439	ET_Tigray_SasieTsaedEmba_A059	4	Saesie Tsadeemba	2020	567124	1545301	gleyic Fluvisols clayic ochric
Tigray/Pc-Metavolcanic_&schist/4310	2500	ET_Tigray_SasieTsaedEmba_A120	4	Saesie Tsadeemba	2020	563674	1545222	leptic Luvisols clayic
Tigray/Pc-Metavolcanic_&schist/4310	2819	ET_Tigray_Ahferom_A209	4	Ahferom	2020	514756	1586236	skeletal Leptosols clayic
Tigray/Pc-Metavolcanic_&schist/4310	2820	ET_Tigray_Ahferom_A210	4	Ahferom	2020	514756	1586235	leptic Regosols clayic
Tigray/Pc-Metavolcanic_&schist/4330	2175	ET_Tigray_Hawzen_A009	4	Hawzen	2020	537591	1551002	leptic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/4330	2176	ET_Tigray_Hawzen_A010	4	Hawzen	2020	537797	1550693	leptic Cambisols clayic
Tigray/Pc-Metavolcanic_&schist/4330	2420	ET_Tigray_SasieTsaedEmba_A040	4	Saesie Tsadeemba	2020	563863	1550645	lithic Leptosols arenic
Tigray/Pc-Metavolcanic_&schist/4330	2440	ET_Tigray_SasieTsaedEmba_A060	4	Saesie Tsadeemba	2020	565569	1546744	gleyic Fluvisols clayic ochric
Tigray/Pc-Metavolcanic_&schist/4330	2729	ET_Tigray_Ahferom_A129	4	Ahferom	2020	508163	1595786	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/4330	2730	ET_Tigray_Ahferom_A130	4	Ahferom	2020	507451	1595639	leptic Luvisols
Tigray/Pc-Metavolcanic_&schist/4330	2841	ET_Tigray_Ahferom_A231	4	Ahferom	2020	510508	1583765	leptic Cambisols arenic
Tigray/Pc-Metavolcanic_&schist/4400	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/4410	0		0		0	0	0	
Tigray/Pc-Metavolcanic_&schist/4430	0		0		0	0	0	
Tigray/Saesie Tsadeemba/outsideAol	2554	ET_Tigray_SasieTsaedEmba_A174	4	Saesie Tsadeemba	2020	564977	1573025	vertic Cambisols clayic

Annex 13. Covariates at 50 m resolution

- Newly prepared covariates, with landscape characteristics related to relief, derived from ALOS satellite imagery :
 - Elevation
 - Relative elevation
 - Slope
 - Slope classes
 - Curvature
 - Topographic wetness index
 - Geomorphic base map
- Newly prepared covariates, with landscape characteristics related to land cover, derived from SENTINEL 2 satellite imagery (obtained from Google Earth Engine) :

(Indices from the median of 2015-2019) :

 - NDVI: Normalised Difference Vegetation Index $(b8-b4)/(b8+b4)$
 - NDWI1: Normalised Difference Water Index $(b8-b11)/(b8+b11)$
 - NDWI2: Above (Gao et al., 1996) adapted
 - SM : Soil Moisture
 - NBR : Normalised Burn Ratio
 - NDSI: Normalised Difference Snow Index
 - SCI : Soil Colour Index
 - CMI : Clay Mineral index
 - Indices : defined interpretations such as brightness, greenness and wetness obtained by Tasseled-Cap transformation of the original bands of an image
- Previously prepared covariates, with landscape characteristics derived from a multitude of sources used for SOILGRIDS and downsampled to 50 m resolution (see next page) :

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
CLM_CHE_BIO02	Global Temperature	Mean diurnal range [°C] at 1 km	1000	Celsius	2015
CLM_CHE_BIO04	Global Temperature	Temperature seasonality at 1 km	1000	Celsius	2015
CLM_CHE_BIO07	Global Temperature	Temperature Annual Range [°C] at 1 km	1000	Celsius	2015
CLM_CHE_BIO08	Global Temperature	Mean Temperature of wettest quarter [°C] at 1 km	1000	Celsius	2015
CLM_CHE_BIO09	Global Temperature	Mean Temperature of driest quarter [°C] at 1 km	1000	Celsius	2015
CLM_CHE_BIO13	Global precipitation	Precipitation of wettest month [mm]	1000	mm	2015
CLM_CHE_BIO14	Global precipitation	Precipitation of driest month [mm] at 1 km	1000	mm	2015
CLM_CHE_P01AVG	Global precipitation	Mean monthly precipitation at 1 km Jan	1000	mm	2015
CLM_CHE_P02AVG	Global precipitation	Mean monthly precipitation at 1 km Feb	1000	mm	2015
CLM_CHE_P03AVG	Global precipitation	Mean monthly precipitation at 1 km Mar	1000	mm	2015
CLM_CHE_P04AVG	Global precipitation	Mean monthly precipitation at 1 km Apr	1000	mm	2015
CLM_CHE_P05AVG	Global precipitation	Mean monthly precipitation at 1 km May	1000	mm	2015
CLM_CHE_P06AVG	Global precipitation	Mean monthly precipitation at 1 km Jun	1000	mm	2015
CLM_CHE_P07AVG	Global precipitation	Mean monthly precipitation at 1 km Jul	1000	mm	2015
CLM_CHE_P08AVG	Global precipitation	Mean monthly precipitation at 1 km Aug	1000	mm	2015
CLM_CHE_P09AVG	Global precipitation	Mean monthly precipitation at 1 km Sep	1000	mm	2015
CLM_CHE_P10AVG	Global precipitation	Mean monthly precipitation at 1 km Oct	1000	mm	2015
CLM_CHE_P11AVG	Global precipitation	Mean monthly precipitation at 1 km Nov	1000	mm	2015
CLM_CHE_P12AVG	Global precipitation	Mean monthly precipitation at 1 km Dec	1000	mm	2015
CLM_CHE_PYRSUM	Global precipitation	Total annual precipitation at 1 km	1000	mm	2015
CLM_CHE_T01MIN	CHELSA Climate	Minimum monthly temperature at 1 km Jan	1000	Celsius	2016
CLM_CHE_T02MIN	CHELSA Climate	Minimum monthly temperature at 1 km Feb	1000	Celsius	2016
CLM_CHE_T03MIN	CHELSA Climate	Minimum monthly temperature at 1 km Mar	1000	Celsius	2016
CLM_CHE_T04MIN	CHELSA Climate	Minimum monthly temperature at 1 km Apr	1000	Celsius	2016
CLM_CHE_T05MIN	CHELSA Climate	Minimum monthly temperature at 1 km May	1000	Celsius	2016
CLM_CHE_T06MIN	CHELSA Climate	Minimum monthly temperature at 1 km Jun	1000	Celsius	2016
CLM_CHE_T07MIN	CHELSA Climate	Minimum monthly temperature at 1 km Jul	1000	Celsius	2016
CLM_CHE_T08MIN	CHELSA Climate	Minimum monthly temperature at 1 km Aug	1000	Celsius	2016
CLM_CHE_T09MIN	CHELSA Climate	Minimum monthly temperature at 1 km Sep	1000	Celsius	2016
CLM_CHE_T10MIN	CHELSA Climate	Minimum monthly temperature at 1 km Oct	1000	Celsius	2016
CLM_CHE_T11MIN	CHELSA Climate	Minimum monthly temperature at 1 km Nov	1000	Celsius	2016
CLM_CHE_T12MIN	CHELSA Climate	Minimum monthly temperature at 1 km Dec	1000	Celsius	2016
CLM_CHE_TYRMIN	CHELSA Climate	Yearly averages of minimum monthly temperatures at 1km			
CLM_ESA_S01AVG	ESACCI	Mean monthly snowfall prob. at 500 m Jan	500	probability	2000-2012
CLM_ESA_S02AVG	ESACCI	Mean monthly snowfall prob. at 500 m Feb	500	probability	2000-2012
CLM_ESA_S03AVG	ESACCI	Mean monthly snowfall prob. at 500 m Mar	500	probability	2000-2012
CLM_ESA_S04AVG	ESACCI	Mean monthly snowfall prob. at 500 m Apr	500	probability	2000-2012
CLM_ESA_S05AVG	ESACCI	Mean monthly snowfall prob. at 500 m May	500	probability	2000-2012
CLM_ESA_S06AVG	ESACCI	Mean monthly snowfall prob. at 500 m Jun	500	probability	2000-2012
CLM_ESA_S07AVG	ESACCI	Mean monthly snowfall prob. at 500 m Jul	500	probability	2000-2012

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
CLM_ESA_S08AVG	ESACCI	Mean monthly snowfall prob. at 500 m Aug	500	probability	2000-2012
CLM_ESA_S09AVG	ESACCI	Mean monthly snowfall prob. at 500 m Sep	500	probability	2000-2012
CLM_ESA_S10AVG	ESACCI	Mean monthly snowfall prob. at 500 m Oct	500	probability	2000-2012
CLM_ESA_S11AVG	ESACCI	Mean monthly snowfall prob. at 500 m Nov	500	probability	2000-2012
CLM_ESA_S12AVG	ESACCI	Mean monthly snowfall prob. at 500 m Dec	500	probability	2000-2012
CLM_ESA_SYRAVG	ESACCI	Mean yearly snowfall prob. at 500 m			
CLM_ESA_SYRSTD	ESACCI	SD yearly snowfall prob. at 500 m			
CLM_MOD_CC01AVG	EarthEnv MODCF	Mean monthly cloud cover Jan	1000	index	2000-2015
CLM_MOD_CC02AVG	EarthEnv MODCF	Mean monthly cloud cover Feb	1000	index	2000-2015
CLM_MOD_CC03AVG	EarthEnv MODCF	Mean monthly cloud cover Mar	1000	index	2000-2015
CLM_MOD_CC04AVG	EarthEnv MODCF	Mean monthly cloud cover Apr	1000	index	2000-2015
CLM_MOD_CC05AVG	EarthEnv MODCF	Mean monthly cloud cover May	1000	index	2000-2015
CLM_MOD_CC06AVG	EarthEnv MODCF	Mean monthly cloud cover Jun	1000	index	2000-2015
CLM_MOD_CC07AVG	EarthEnv MODCF	Mean monthly cloud cover Jul	1000	index	2000-2015
CLM_MOD_CC08AVG	EarthEnv MODCF	Mean monthly cloud cover Aug	1000	index	2000-2015
CLM_MOD_CC09AVG	EarthEnv MODCF	Mean monthly cloud cover Sep	1000	index	2000-2015
CLM_MOD_CC10AVG	EarthEnv MODCF	Mean monthly cloud cover Oct	1000	index	2000-2015
CLM_MOD_CC11AVG	EarthEnv MODCF	Mean monthly cloud cover Nov	1000	index	2000-2015
CLM_MOD_CC12AVG	EarthEnv MODCF	Mean monthly cloud cover Dec	1000	index	2000-2015
CLM_MOD_CCSC	EarthEnv MODCF	Cloud cover seasonality concentration	1000	index	2000-2015
CLM_MOD_CCYRAVG	EarthEnv MODCF	Mean annual cloud cover	1000	index	2000-2015
CLM_MOD_LSTD01AVG	MOD11A2	Mean monthly MODIS LST (daytime) Jan	1000	Kelvin	2003
CLM_MOD_LSTD01STD	MOD11A2	SD monthly MODIS LST (daytime) Jan	1000	Kelvin	2003
CLM_MOD_LSTD02AVG	MOD11A2	Mean monthly MODIS LST (daytime) Feb	1000	Kelvin	2003
CLM_MOD_LSTD02STD	MOD11A2	SD monthly MODIS LST (daytime) Feb	1000	Kelvin	2003
CLM_MOD_LSTD03AVG	MOD11A2	Mean monthly MODIS LST (daytime) Mar	1000	Kelvin	2003
CLM_MOD_LSTD03STD	MOD11A2	SD monthly MODIS LST (daytime) Mar	1000	Kelvin	2003
CLM_MOD_LSTD04AVG	MOD11A2	Mean monthly MODIS LST (daytime) Apr	1000	Kelvin	2003
CLM_MOD_LSTD04STD	MOD11A2	SD monthly MODIS LST (daytime) Apr	1000	Kelvin	2003
CLM_MOD_LSTD05AVG	MOD11A2	Mean monthly MODIS LST (daytime) May	1000	Kelvin	2003
CLM_MOD_LSTD05STD	MOD11A2	SD monthly MODIS LST (daytime) May	1000	Kelvin	2003
CLM_MOD_LSTD06AVG	MOD11A2	Mean monthly MODIS LST (daytime) Jun	1000	Kelvin	2003
CLM_MOD_LSTD06STD	MOD11A2	SD monthly MODIS LST (daytime) Jun	1000	Kelvin	2003
CLM_MOD_LSTD07AVG	MOD11A2	Mean monthly MODIS LST (daytime) Jul	1000	Kelvin	2003
CLM_MOD_LSTD07STD	MOD11A2	SD monthly MODIS LST (daytime) Jul	1000	Kelvin	2003
CLM_MOD_LSTD08AVG	MOD11A2	Mean monthly MODIS LST (daytime) Aug	1000	Kelvin	2003
CLM_MOD_LSTD08STD	MOD11A2	SD monthly MODIS LST (daytime) Aug	1000	Kelvin	2003
CLM_MOD_LSTD09AVG	MOD11A2	Mean monthly MODIS LST (daytime) Sep	1000	Kelvin	2003
CLM_MOD_LSTD09STD	MOD11A2	SD monthly MODIS LST (daytime) Sep	1000	Kelvin	2003
CLM_MOD_LSTD10AVG	MOD11A2	Mean monthly MODIS LST (daytime) Oct	1000	Kelvin	2003
CLM_MOD_LSTD10STD	MOD11A2	SD monthly MODIS LST (daytime) Oct	1000	Kelvin	2003

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
CLM_MOD_LSTD11AVG	MOD11A2	Mean monthly MODIS LST (daytime) Nov	1000	Kelvin	2003
CLM_MOD_LSTD11STD	MOD11A2	SD monthly MODIS LST (daytime) Nov	1000	Kelvin	2003
CLM_MOD_LSTD12AVG	MOD11A2	Mean monthly MODIS LST (daytime) Dec	1000	Kelvin	2003
CLM_MOD_LSTD12STD	MOD11A2	SD monthly MODIS LST (daytime) Dec	1000	Kelvin	2003
CLM_MOD_LSTDYRAVG	MOD11A2	Mean annual LST (daytime) MODIS	1000	Kelvin	2003
CLM_MOD_LSTDYRSTD	MOD11A2	SD yearly MODIS LST (daytime)			
CLM_MOD_LSTN01AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Jan	1000	Kelvin	2003
CLM_MOD_LSTN01STD	MOD11A2	SD monthly MODIS LST (nighttime) Jan	1000	Kelvin	2003
CLM_MOD_LSTN02AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Feb	1000	Kelvin	2003
CLM_MOD_LSTN02STD	MOD11A2	SD monthly MODIS LST (nighttime) Feb	1000	Kelvin	2003
CLM_MOD_LSTN03AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Mar	1000	Kelvin	2003
CLM_MOD_LSTN03STD	MOD11A2	SD monthly MODIS LST (nighttime) Mar	1000	Kelvin	2003
CLM_MOD_LSTN04AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Apr	1000	Kelvin	2003
CLM_MOD_LSTN04STD	MOD11A2	SD monthly MODIS LST (nighttime) Apr	1000	Kelvin	2003
CLM_MOD_LSTN05AVG	MOD11A2	Mean monthly MODIS LST (nighttime) May	1000	Kelvin	2003
CLM_MOD_LSTN05STD	MOD11A2	SD monthly MODIS LST (nighttime) May	1000	Kelvin	2003
CLM_MOD_LSTN06AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Jun	1000	Kelvin	2003
CLM_MOD_LSTN06STD	MOD11A2	SD monthly MODIS LST (nighttime) Jun	1000	Kelvin	2003
CLM_MOD_LSTN07AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Jul	1000	Kelvin	2003
CLM_MOD_LSTN07STD	MOD11A2	SD monthly MODIS LST (nighttime) Jul	1000	Kelvin	2003
CLM_MOD_LSTN08AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Aug	1000	Kelvin	2003
CLM_MOD_LSTN08STD	MOD11A2	SD monthly MODIS LST (nighttime) Aug	1000	Kelvin	2003
CLM_MOD_LSTN09AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Sep	1000	Kelvin	2003
CLM_MOD_LSTN09STD	MOD11A2	SD monthly MODIS LST (nighttime) Sep	1000	Kelvin	2003
CLM_MOD_LSTN10AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Oct	1000	Kelvin	2003
CLM_MOD_LSTN10STD	MOD11A2	SD monthly MODIS LST (nighttime) Oct	1000	Kelvin	2003
CLM_MOD_LSTN11AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Nov	1000	Kelvin	2003
CLM_MOD_LSTN11STD	MOD11A2	SD monthly MODIS LST (nighttime) Nov	1000	Kelvin	2003
CLM_MOD_LSTN12AVG	MOD11A2	Mean monthly MODIS LST (nighttime) Dec	1000	Kelvin	2003
CLM_MOD_LSTN12STD	MOD11A2	SD monthly MODIS LST (nighttime) Dec	1000	Kelvin	2003
CLM_MOD_LSTNYRAVG	MOD11A2	Mean annual LST (nighttime) MODIS	1000	Kelvin	2003
CLM_MOD_LSTNYRSTD	MOD11A2	SD yearly MODIS LST (nighttime)			
CLM_WCL_BIO01	WorldClimv2				
CLM_WCL_BIO02	WorldClimv2				
CLM_WCL_BIO03	WorldClimv2				
CLM_WCL_BIO04	WorldClimv2				
CLM_WCL_BIO05	WorldClimv2				
CLM_WCL_BIO06	WorldClimv2				
CLM_WCL_BIO07	WorldClimv2				
CLM_WCL_BIO08	WorldClimv2				
CLM_WCL_BIO09	WorldClimv2				

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
CLM_WCL_BIO10	WorldClimv2				
CLM_WCL_BIO11	WorldClimv2				
CLM_WCL_BIO12	WorldClimv2				
CLM_WCL_BIO13	WorldClimv2				
CLM_WCL_BIO14	WorldClimv2				
CLM_WCL_BIO15	WorldClimv2				
CLM_WCL_BIO16	WorldClimv2				
CLM_WCL_BIO17	WorldClimv2				
CLM_WCL_BIO18	WorldClimv2				
CLM_WCL_BIO19	WorldClimv2				
CLM_WCL_P01TOT	WorldClimv2	Total monthly precipitation at 1 km Jan	1000	mm	
CLM_WCL_P02TOT	WorldClimv2	Total monthly precipitation at 1 km Feb	1000	mm	
CLM_WCL_P03TOT	WorldClimv2	Total monthly precipitation at 1 km Mar	1000	mm	
CLM_WCL_P04TOT	WorldClimv2	Total monthly precipitation at 1 km Apr	1000	mm	
CLM_WCL_P05TOT	WorldClimv2	Total monthly precipitation at 1 km May	1000	mm	
CLM_WCL_P06TOT	WorldClimv2	Total monthly precipitation at 1 km Jun	1000	mm	
CLM_WCL_P07TOT	WorldClimv2	Total monthly precipitation at 1 km Jul	1000	mm	
CLM_WCL_P08TOT	WorldClimv2	Total monthly precipitation at 1 km Aug	1000	mm	
CLM_WCL_P09TOT	WorldClimv2	Total monthly precipitation at 1 km Sep	1000	mm	
CLM_WCL_P10TOT	WorldClimv2	Total monthly precipitation at 1 km Oct	1000	mm	
CLM_WCL_P11TOT	WorldClimv2	Total monthly precipitation at 1 km Nov	1000	mm	
CLM_WCL_P12TOT	WorldClimv2	Total monthly precipitation at 1 km Dec	1000	mm	
CLM_WCL_S01RAD	WorldClimv2	Solar radiation at 1 km Jan	1000	kJ m-2 day-1	
CLM_WCL_S02RAD	WorldClimv2	Solar radiation at 1 km Feb	1000	kJ m-2 day-1	
CLM_WCL_S03RAD	WorldClimv2	Solar radiation at 1 km Mar	1000	kJ m-2 day-1	
CLM_WCL_S04RAD	WorldClimv2	Solar radiation at 1 km Apr	1000	kJ m-2 day-1	
CLM_WCL_S05RAD	WorldClimv2	Solar radiation at 1 km May	1000	kJ m-2 day-1	
CLM_WCL_S06RAD	WorldClimv2	Solar radiation at 1 km Jun	1000	kJ m-2 day-1	
CLM_WCL_S07RAD	WorldClimv2	Solar radiation at 1 km Jul	1000	kJ m-2 day-1	
CLM_WCL_S08RAD	WorldClimv2	Solar radiation at 1 km Aug	1000	kJ m-2 day-1	
CLM_WCL_S09RAD	WorldClimv2	Solar radiation at 1 km Sep	1000	kJ m-2 day-1	
CLM_WCL_S10RAD	WorldClimv2	Solar radiation at 1 km Oct	1000	kJ m-2 day-1	
CLM_WCL_S11RAD	WorldClimv2	Solar radiation at 1 km Nov	1000	kJ m-2 day-1	
CLM_WCL_S12RAD	WorldClimv2	Solar radiation at 1 km Dec	1000	kJ m-2 day-1	
CLM_WCL_SRDYR AVG	WorldClimv2	Average Yearly Solar radiation at 1 km			
CLM_WCL_SRDYR STD	WorldClimv2	SD Yearly Solar radiation at 1 km			
CLM_WCL_SRDYR SUM	WorldClimv2	Total Yearly Solar radiation at 1 km			
CLM_WCL_T01AVG	WorldClimv2	Average monthly temperature at 1 km Jan	1000	Celsius	
CLM_WCL_T01MAX	WorldClimv2	Maximum monthly temperature at 1 km Jan	1000	Celsius	
CLM_WCL_T01MIN	WorldClimv2	Minimum monthly temperature at 1 km Jan	1000	Celsius	
CLM_WCL_T02AVG	WorldClimv2	Average monthly temperature at 1 km Feb	1000	Celsius	

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
CLM_WCL_T02MAX	WorldClimv2	Maximum monthly temperature at 1 km Feb	1000	Celsius	
CLM_WCL_T02MIN	WorldClimv2	Minimum monthly temperature at 1 km Feb	1000	Celsius	
CLM_WCL_T03AVG	WorldClimv2	Average monthly temperature at 1 km Mar	1000	Celsius	
CLM_WCL_T03MAX	WorldClimv2	Maximum monthly temperature at 1 km Mar	1000	Celsius	
CLM_WCL_T03MIN	WorldClimv2	Minimum monthly temperature at 1 km Mar	1000	Celsius	
CLM_WCL_T04AVG	WorldClimv2	Average monthly temperature at 1 km Apr	1000	Celsius	
CLM_WCL_T04MAX	WorldClimv2	Maximum monthly temperature at 1 km Apr	1000	Celsius	
CLM_WCL_T04MIN	WorldClimv2	Minimum monthly temperature at 1 km Apr	1000	Celsius	
CLM_WCL_T05AVG	WorldClimv2	Average monthly temperature at 1 km May	1000	Celsius	
CLM_WCL_T05MAX	WorldClimv2	Maximum monthly temperature at 1 km May	1000	Celsius	
CLM_WCL_T05MIN	WorldClimv2	Minimum monthly temperature at 1 km May	1000	Celsius	
CLM_WCL_T06AVG	WorldClimv2	Average monthly temperature at 1 km Jun	1000	Celsius	
CLM_WCL_T06MAX	WorldClimv2	Maximum monthly temperature at 1 km Jun	1000	Celsius	
CLM_WCL_T06MIN	WorldClimv2	Minimum monthly temperature at 1 km Jun	1000	Celsius	
CLM_WCL_T07AVG	WorldClimv2	Average monthly temperature at 1 km Jul	1000	Celsius	
CLM_WCL_T07MAX	WorldClimv2	Maximum monthly temperature at 1 km Jul	1000	Celsius	
CLM_WCL_T07MIN	WorldClimv2	Minimum monthly temperature at 1 km Jul	1000	Celsius	
CLM_WCL_T08AVG	WorldClimv2	Average monthly temperature at 1 km Aug	1000	Celsius	
CLM_WCL_T08MAX	WorldClimv2	Maximum monthly temperature at 1 km Aug	1000	Celsius	
CLM_WCL_T08MIN	WorldClimv2	Minimum monthly temperature at 1 km Aug	1000	Celsius	
CLM_WCL_T09AVG	WorldClimv2	Average monthly temperature at 1 km Sep	1000	Celsius	
CLM_WCL_T09MAX	WorldClimv2	Maximum monthly temperature at 1 km Sep	1000	Celsius	
CLM_WCL_T09MIN	WorldClimv2	Minimum monthly temperature at 1 km Sep	1000	Celsius	
CLM_WCL_T10AVG	WorldClimv2	Average monthly temperature at 1 km Oct	1000	Celsius	
CLM_WCL_T10MAX	WorldClimv2	Maximum monthly temperature at 1 km Oct	1000	Celsius	
CLM_WCL_T10MIN	WorldClimv2	Minimum monthly temperature at 1 km Oct	1000	Celsius	
CLM_WCL_T11AVG	WorldClimv2	Average monthly temperature at 1 km Nov	1000	Celsius	
CLM_WCL_T11MAX	WorldClimv2	Maximum monthly temperature at 1 km Nov	1000	Celsius	
CLM_WCL_T11MIN	WorldClimv2	Minimum monthly temperature at 1 km Nov	1000	Celsius	
CLM_WCL_T12AVG	WorldClimv2	Average monthly temperature at 1 km Dec	1000	Celsius	
CLM_WCL_T12MAX	WorldClimv2	Maximum monthly temperature at 1 km Dec	1000	Celsius	
CLM_WCL_T12MIN	WorldClimv2	Minimum monthly temperature at 1 km Dec	1000	Celsius	
CLM_WCL_V01APR	WorldClimv2	water vapor pressure at 1 km Jan	1000	kPa	
CLM_WCL_V02APR	WorldClimv2	water vapor pressure at 1 km Feb	1000	kPa	
CLM_WCL_V03APR	WorldClimv2	water vapor pressure at 1 km Mar	1000	kPa	
CLM_WCL_V04APR	WorldClimv2	water vapor pressure at 1 km Apr	1000	kPa	
CLM_WCL_V05APR	WorldClimv2	water vapor pressure at 1 km May	1000	kPa	
CLM_WCL_V06APR	WorldClimv2	water vapor pressure at 1 km Jun	1000	kPa	
CLM_WCL_V07APR	WorldClimv2	water vapor pressure at 1 km Jul	1000	kPa	
CLM_WCL_V08APR	WorldClimv2	water vapor pressure at 1 km Aug	1000	kPa	
CLM_WCL_V09APR	WorldClimv2	water vapor pressure at 1 km Sep	1000	kPa	

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
CLM_WCL_V10APR	WorldClimv2	water vapor pressure at 1 km Oct	1000	kPa	2014
CLM_WCL_V11APR	WorldClimv2	water vapor pressure at 1 km Nov	1000	kPa	
CLM_WCL_V12APR	WorldClimv2	water vapor pressure at 1 km Dec	1000	kPa	
CLM_WCL_W01SPD	WorldClimv2	Wind speed at 1 km Jan	1000	m s-1	
CLM_WCL_W02SPD	WorldClimv2	Wind speed at 1 km Feb	1000	m s-1	
CLM_WCL_W03SPD	WorldClimv2	Wind speed at 1 km Mar	1000	m s-1	
CLM_WCL_W04SPD	WorldClimv2	Wind speed at 1 km Apr	1000	m s-1	
CLM_WCL_W05SPD	WorldClimv2	Wind speed at 1 km May	1000	m s-1	
CLM_WCL_W06SPD	WorldClimv2	Wind speed at 1 km Jun	1000	m s-1	
CLM_WCL_W07SPD	WorldClimv2	Wind speed at 1 km Jul	1000	m s-1	
CLM_WCL_W08SPD	WorldClimv2	Wind speed at 1 km Aug	1000	m s-1	
CLM_WCL_W09SPD	WorldClimv2	Wind speed at 1 km Sep	1000	m s-1	
CLM_WCL_W10SPD	WorldClimv2	Wind speed at 1 km Oct	1000	m s-1	
CLM_WCL_W11SPD	WorldClimv2	Wind speed at 1 km Nov	1000	m s-1	
CLM_WCL_W12SPD	WorldClimv2	Wind speed at 1 km Dec	1000	m s-1	
ECO_USG_BIOCLZ	Global Ecophysiology	Bioclimatic zones	250	factor	
ECO_USG_Z01	Global Ecophysiology	Bioclimatic zones: zone 1			
ECO_USG_Z02	Global Ecophysiology	Bioclimatic zones: zone 2			
ECO_USG_Z03	Global Ecophysiology	Bioclimatic zones: zone 3			
ECO_USG_Z04	Global Ecophysiology	Bioclimatic zones: zone 4			
ECO_USG_Z05	Global Ecophysiology	Bioclimatic zones: zone 5			
ECO_USG_Z06	Global Ecophysiology	Bioclimatic zones: zone 6			
ECO_USG_Z07	Global Ecophysiology	Bioclimatic zones: zone 7			
ECO_USG_Z08	Global Ecophysiology	Bioclimatic zones: zone 8			
ECO_USG_Z09	Global Ecophysiology	Bioclimatic zones: zone 9			
ECO_USG_Z10	Global Ecophysiology	Bioclimatic zones: zone 10			
ECO_USG_Z11	Global Ecophysiology	Bioclimatic zones: zone 11			
ECO_USG_Z12	Global Ecophysiology	Bioclimatic zones: zone 12			
ECO_USG_Z13	Global Ecophysiology	Bioclimatic zones: zone 13			
ECO_USG_Z14	Global Ecophysiology	Bioclimatic zones: zone 14			
ECO_USG_Z15	Global Ecophysiology	Bioclimatic zones: zone 15			
ECO_USG_Z16	Global Ecophysiology	Bioclimatic zones: zone 16			
ECO_USG_Z17	Global Ecophysiology	Bioclimatic zones: zone 17			
ECO_USG_Z18	Global Ecophysiology	Bioclimatic zones: zone 18			
ECO_USG_Z19	Global Ecophysiology	Bioclimatic zones: zone 19			
ECO_USG_Z20	Global Ecophysiology	Bioclimatic zones: zone 20			
ECO_USG_Z21	Global Ecophysiology	Bioclimatic zones: zone 21			
ECO_USG_Z22	Global Ecophysiology	Bioclimatic zones: zone 22			
ECO_USG_Z23	Global Ecophysiology	Bioclimatic zones: zone 23			
ECO_USG_Z24	Global Ecophysiology	Bioclimatic zones: zone 24			
ECO_USG_Z25	Global Ecophysiology	Bioclimatic zones: zone 25			

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
ECO_USG_Z26	Global Ecophysiology	Bioclimatic zones: zone 26			
ECO_USG_Z27	Global Ecophysiology	Bioclimatic zones: zone 27			
ECO_USG_Z28	Global Ecophysiology	Bioclimatic zones: zone 28			
ECO_USG_Z29	Global Ecophysiology	Bioclimatic zones: zone 29			
ECO_USG_Z30	Global Ecophysiology	Bioclimatic zones: zone 30			
ECO_USG_Z31	Global Ecophysiology	Bioclimatic zones: zone 31			
ECO_USG_Z32	Global Ecophysiology	Bioclimatic zones: zone 32			
ECO_USG_Z33	Global Ecophysiology	Bioclimatic zones: zone 33			
ECO_USG_Z34	Global Ecophysiology	Bioclimatic zones: zone 34			
ECO_USG_Z35	Global Ecophysiology	Bioclimatic zones: zone 35			
ECO_USG_Z36	Global Ecophysiology	Bioclimatic zones: zone 36			
ECO_USG_Z37	Global Ecophysiology	Bioclimatic zones: zone 37			
ECO_USG_Z38	Global Ecophysiology	Bioclimatic zones: zone 38			
ECO_USG_Z39	Global Ecophysiology	Bioclimatic zones: zone 39			
GEO_DAC_ASS	DAAC Soil data products	Average soil and sedimentary-deposit thickness	1000	m	2016
GEO_GLM_L01	Global Ecophysiology	Rock type: Acid Plutonics	250	percent	2014
GEO_GLM_L02	Global Ecophysiology	Rock type: Acid Volcanic	250	percent	2014
GEO_GLM_L03	Global Ecophysiology	Rock type: Basic Plutonics	250	percent	2014
GEO_GLM_L04	Global Ecophysiology	Rock type: Basic Volcanics	250	percent	2014
GEO_GLM_L05	Global Ecophysiology	Rock type: Carbonate Sedimentary Rock	250	percent	2014
GEO_GLM_L06	Global Ecophysiology	Rock type: Evaporite	250	percent	2014
GEO_GLM_L07	Global Ecophysiology	Rock type: Ice and Glaciers	250	percent	2014
GEO_GLM_L08	Global Ecophysiology	Rock type: Intermediate Plutonics	250	percent	2014
GEO_GLM_L09	Global Ecophysiology	Rock type: Intermediate Volcanics	250	percent	2014
GEO_GLM_L10	Global Ecophysiology	Rock type: Metamorphics	250	percent	2014
GEO_GLM_L11	Global Ecophysiology	Rock type: Mixed Sedimentary Rock	250	percent	2014
GEO_GLM_L13	Global Ecophysiology	Rock type: Pyroclastics	250	percent	2014
GEO_GLM_L14	Global Ecophysiology	Rock type: Siliciclastic Sedimentary Rock	250	percent	2014
GEO_GLM_L15	Global Ecophysiology	Rock type: Unconsolidated Sediment	250	percent	2014
GEO_GLM_L16	Global Ecophysiology	Rock type: Undefined	250	percent	2014
LUC_ESA_LCE	ESA land cover	ESA land cover map 2010	300	factor	
LUC_ESA_L000	ESA land cover	ESA land cover map 2010 class L000			
LUC_ESA_L010	ESA land cover	ESA land cover map 2010 class L010			
LUC_ESA_L011	ESA land cover	ESA land cover map 2010 class L011			
LUC_ESA_L012	ESA land cover	ESA land cover map 2010 class L012			
LUC_ESA_L020	ESA land cover	ESA land cover map 2010 class L020			
LUC_ESA_L030	ESA land cover	ESA land cover map 2010 class L030			
LUC_ESA_L040	ESA land cover	ESA land cover map 2010 class L040			
LUC_ESA_L050	ESA land cover	ESA land cover map 2010 class L050			
LUC_ESA_L060	ESA land cover	ESA land cover map 2010 class L060			
LUC_ESA_L061	ESA land cover	ESA land cover map 2010 class L061			

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
LUC_ESA_L062	ESA land cover	ESA land cover map 2010 class L062			
LUC_ESA_L070	ESA land cover	ESA land cover map 2010 class L070			
LUC_ESA_L071	ESA land cover	ESA land cover map 2010 class L071			
LUC_ESA_L072	ESA land cover	ESA land cover map 2010 class L072			
LUC_ESA_L080	ESA land cover	ESA land cover map 2010 class L080			
LUC_ESA_L081	ESA land cover	ESA land cover map 2010 class L081			
LUC_ESA_L082	ESA land cover	ESA land cover map 2010 class L082			
LUC_ESA_L090	ESA land cover	ESA land cover map 2010 class L090			
LUC_ESA_L100	ESA land cover	ESA land cover map 2010 class L100			
LUC_ESA_L110	ESA land cover	ESA land cover map 2010 class L110			
LUC_ESA_L120	ESA land cover	ESA land cover map 2010 class L120			
LUC_ESA_L121	ESA land cover	ESA land cover map 2010 class L121			
LUC_ESA_L122	ESA land cover	ESA land cover map 2010 class L122			
LUC_ESA_L130	ESA land cover	ESA land cover map 2010 class L130			
LUC_ESA_L140	ESA land cover	ESA land cover map 2010 class L140			
LUC_ESA_L150	ESA land cover	ESA land cover map 2010 class L150			
LUC_ESA_L152	ESA land cover	ESA land cover map 2010 class L152			
LUC_ESA_L153	ESA land cover	ESA land cover map 2010 class L153			
LUC_ESA_L160	ESA land cover	ESA land cover map 2010 class L160			
LUC_ESA_L170	ESA land cover	ESA land cover map 2010 class L170			
LUC_ESA_L180	ESA land cover	ESA land cover map 2010 class L180			
LUC_ESA_L190	ESA land cover	ESA land cover map 2010 class L190			
LUC_ESA_L200	ESA land cover	ESA land cover map 2010 class L200			
LUC_ESA_L201	ESA land cover	ESA land cover map 2010 class L201			
LUC_ESA_L202	ESA land cover	ESA land cover map 2010 class L202			
LUC_ESA_L220	ESA land cover	ESA land cover map 2010 class L220			
LUC_GFC_BARLY10	30 Meter Global Land Cover	Global 30m Bare Ground	30	percent	2010
LUC_GFC_TRELY10	31 Meter Global Land Cover	Global 30m Tree Cover	30	percent	2010
LUC_GLC_C01	GlobCover30	Cultivated land cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C02	GlobCover30	Forests cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C03	GlobCover30	Grasslands cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C04	GlobCover30	Shrublands cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C05	GlobCover30	Wetland cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C07	GlobCover30	Tundra cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C08	GlobCover30	Artificial Surfaces cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C09	GlobCover30	Bareland cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C01t	GlobCover30	Binary: Cultivated land cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C02t	GlobCover30	Binary: Forests cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C03t	GlobCover30	Binary: Grasslands cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C04t	GlobCover30	Binary: Shrublands cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C05t	GlobCover30	Binary: Wetland cover for year 2010 based on GlobCover30	30	percent	2015

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
LUC_GLC_C07t	GlobCover30	Binary: Tundra cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C08t	GlobCover30	Binary: Artificial Surfaces cover for year 2010 based on GlobCover30	30	percent	2015
LUC_GLC_C09t	GlobCover30	Binary: Bareland cover for year 2010 based on GlobCover30	30	percent	2015
LUC_LDS_MNG	UNEP-WCMC	World distrubution of Mangroves	500	percent	2011
MOR_ENV_DEME	DEM-parameters	Land surface elevation	100	meter	2014
MOR_ENV_DEMM	DEM-parameters	Land surface elevation	100	meter	2014
MOR_MRG_CRD	DEM-parameters	Local downslope Curvature	250	meter x 1000	2014
MOR_MRG_CRU	DEM-parameters	Local upslope Curvature	250	meter x 1000	2014
MOR_MRG_CRV	DEM-parameters	Downslope Curvature	250	meter x 1000	2014
MOR_MRG_DV2	DEM-parameters	Deviation from Mean Value (surface roughness) x13	250	meter x 100	2014
MOR_MRG_DVM	DEM-parameters	Deviation from Mean Value (surface roughness) x9	250	meter x 100	2014
MOR_MRG_MRN	DEM-parameters	Melton Ruggedness Number	250	meter x 10	2014
MOR_MRG_NEG	DEM-parameters	Negative Topographic Openness	250	meter x 1000	2014
MOR_MRG_POS	DEM-parameters	Positive Topographic Openness	250	meter x 1000	2014
MOR_MRG_SLP	DEM-parameters	Terrain slope	250	radians x 100	2014
MOR_MRG_TPI	DEM-parameters	Topographic Position Index	250	meter x 100	2014
MOR_MRG_TWI	DEM-parameters	SAGA Wetness Index	500	meter x 10	2014
MOR_MRG_VBF	DEM-parameters	Multiresolution Index of Valley Bottom Flatness (MRVBF)	250	meter x 100	2014
MOR_MRG_VDP	DEM-parameters	Valley depth	250	meter x 10	2014
MOR_USG_F01	Global Ecophysiology	Landform class: Breaks/Foothills	250	percent	2014
MOR_USG_F02	Global Ecophysiology	Landform class: Flat Plains	250	percent	2014
MOR_USG_F03	Global Ecophysiology	Landform class: High Mountains/Deep Canyons	250	percent	2014
MOR_USG_F04	Global Ecophysiology	Landform class: Hills	250	percent	2014
MOR_USG_F05	Global Ecophysiology	Landform class: Low Hills	250	percent	2014
MOR_USG_F06	Global Ecophysiology	Landform class: Low Mountains	250	percent	2014
MOR_USG_F07	Global Ecophysiology	Landform class: Smooth Plains	250	percent	2014
SAT_L07_B3RED00	Global Forest Change	Landsat Band 3 (red) for year 2000	30		2000
SAT_L07_B3RED14	Global Forest Change	Landsat Band 3 (red) for year 2014	30		2014
SAT_L07_B4NIR00	Global Forest Change	Landsat Band 4 (NIR) for year 2000	30		2000
SAT_L07_B4NIR14	Global Forest Change	Landsat Band 4 (NIR) for year 2014	30		2014
SAT_L07_B5SWIR00	Global Forest Change	Landsat Band 5 (SWIR) for year 2000	30		2000
SAT_L07_B5SWIR14	Global Forest Change	Landsat Band 5 (SWIR) for year 2014	30		2014
SAT_L07_B7SWIR00	Global Forest Change	Landsat Band 7 (SWIR) for year 2000	30		2000
SAT_L07_B7SWIR14	Global Forest Change	Landsat Band 7 (SWIR) for year 2014	30		2014
SAT_MOD_MIR01AVG	MCD43A4	Mean monthly MODIS MIR band 7 Jan	500	Reflectance, no units	2003
SAT_MOD_MIR02AVG	MCD43A4	Mean monthly MODIS MIR band 7 Feb	500	Reflectance, no units	2003
SAT_MOD_MIR03AVG	MCD43A4	Mean monthly MODIS MIR band 7 Mar	500	Reflectance, no units	2003
SAT_MOD_MIR04AVG	MCD43A4	Mean monthly MODIS MIR band 7 Apr	500	Reflectance, no units	2003
SAT_MOD_MIR05AVG	MCD43A4	Mean monthly MODIS MIR band 7 May	500	Reflectance, no units	2003
SAT_MOD_MIR06AVG	MCD43A4	Mean monthly MODIS MIR band 7 Jun	500	Reflectance, no units	2003
SAT_MOD_MIR07AVG	MCD43A4	Mean monthly MODIS MIR band 7 Jul	500	Reflectance, no units	2003

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SAT_MOD_MIR08AVG	MCD43A4	Mean monthly MODIS MIR band 7 Aug	500	Reflectance, no units	2003
SAT_MOD_MIR09AVG	MCD43A4	Mean monthly MODIS MIR band 7 Sep	500	Reflectance, no units	2003
SAT_MOD_MIR10AVG	MCD43A4	Mean monthly MODIS MIR band 7 Oct	500	Reflectance, no units	2003
SAT_MOD_MIR11AVG	MCD43A4	Mean monthly MODIS MIR band 7 Nov	500	Reflectance, no units	2003
SAT_MOD_MIR12AVG	MCD43A4	Mean monthly MODIS MIR band 7 Dec	500	Reflectance, no units	2003
SAT_MOD_MIRYRAVG	MCD43A4	Mean yearly MODIS MIR band 4			
SAT_MOD_NIR01AVG	MCD43A4	Mean monthly MODIS NIR band 4 Jan	500	Reflectance, no units	2003
SAT_MOD_NIR02AVG	MCD43A4	Mean monthly MODIS NIR band 4 Feb	500	Reflectance, no units	2003
SAT_MOD_NIR03AVG	MCD43A4	Mean monthly MODIS NIR band 4 Mar	500	Reflectance, no units	2003
SAT_MOD_NIR04AVG	MCD43A4	Mean monthly MODIS NIR band 4 Apr	500	Reflectance, no units	2003
SAT_MOD_NIR05AVG	MCD43A4	Mean monthly MODIS NIR band 4 May	500	Reflectance, no units	2003
SAT_MOD_NIR06AVG	MCD43A4	Mean monthly MODIS NIR band 4 Jun	500	Reflectance, no units	2003
SAT_MOD_NIR07AVG	MCD43A4	Mean monthly MODIS NIR band 4 Jul	500	Reflectance, no units	2003
SAT_MOD_NIR08AVG	MCD43A4	Mean monthly MODIS NIR band 4 Aug	500	Reflectance, no units	2003
SAT_MOD_NIR09AVG	MCD43A4	Mean monthly MODIS NIR band 4 Sep	500	Reflectance, no units	2003
SAT_MOD_NIR10AVG	MCD43A4	Mean monthly MODIS NIR band 4 Oct	500	Reflectance, no units	2003
SAT_MOD_NIR11AVG	MCD43A4	Mean monthly MODIS NIR band 4 Nov	500	Reflectance, no units	2003
SAT_MOD_NIR12AVG	MCD43A4	Mean monthly MODIS NIR band 4 Dec	500	Reflectance, no units	2003
SAT_MOD_NIRYRAVG	MCD43A4	Mean yearly MODIS NIR band 4			
VEG_L07_NDWIB5Y00	Derived from Global Forest Change Global Forest Change	Normalized Difference Water Index in 2010 with SW1 band	250	unitless	
VEG_L07_NDWIB5Y14	Derived from Global Forest Change Global Forest Change	Normalized Difference Water Index in 2014 with SW1 band	250	unitless	
VEG_L07_NDWIB7Y00	Derived from Global Forest Change Global Forest Change	Normalized Difference Water Index in 2010 with SW2 band	250	unitless	
VEG_L07_NDWIB7Y14	Derived from Global Forest Change Global Forest Change	Normalized Difference Water Index in 2014 with SW2 band	250	unitless	
VEG_MOD_EVI01AVG	MOD13Q1	Mean monthly MODIS EVI JanFeb	250		2003
VEG_MOD_EVI01STD	MOD13Q1	SD monthly MODIS EVI JanFeb	250		2003
VEG_MOD_EVI03AVG	MOD13Q1	Mean monthly MODIS EVI MarApr	250		2003
VEG_MOD_EVI03STD	MOD13Q1	SD monthly MODIS EVI MarApr	250		2003
VEG_MOD_EVI05AVG	MOD13Q1	Mean monthly MODIS EVI MayJun	250		2003
VEG_MOD_EVI05STD	MOD13Q1	SD monthly MODIS EVI MayJun	250		2003
VEG_MOD_EVI07AVG	MOD13Q1	Mean monthly MODIS EVI JulAug	250		2003
VEG_MOD_EVI07STD	MOD13Q1	SD monthly MODIS EVI JulAug	250		2003
VEG_MOD_EVI09AVG	MOD13Q1	Mean monthly MODIS EVI SepOct	250		2003
VEG_MOD_EVI09STD	MOD13Q1	SD monthly MODIS EVI SepOct	250		2003
VEG_MOD_EVI11AVG	MOD13Q1	Mean monthly MODIS EVI NovDec	250		2003
VEG_MOD_EVI11STD	MOD13Q2	SD monthly MODIS EVI NovDec	250		2003
VEG_MOD_EVIENT	EarthEnv Global Habitat Heterogeneity	Entropy MODIS EVI	1000	index	
VEG_MOD_EVIEVN	EarthEnv Global Habitat Heterogeneity	Evenness of MODIS EVI	1000	index	
VEG_MOD_EVIMAX	EarthEnv Global Habitat Heterogeneity	Maximum MODIS EVI	1000	index	
VEG_MOD_EVIRNG	EarthEnv Global Habitat Heterogeneity	Range MODIS EVI	1000	index	
VEG_MOD_EVIYRAVG	MOD13Q1	Mean yearly MODIS EVI			
VEG_MOD_EVIYRSTD	MOD13Q1	SD yearly MODIS EVI			

CODE	SERIES	ATTRIBUTE	RESOLUTION_M	UNIT	PUBL_DATE
VEG_MOD_NPPAVG	MOD17A3	Net Primary Productivity (2000-2015 average)	1000	gC/m2/yr	2016
VEG_MOD_NPPY00	MOD17A3	Net Primary Productivity in 2015	1000	gC/m2/yr	2016
VEG_MOD_NPPY15	MOD17A3	Net Primary Productivity in 2000	1000	gC/m2/yr	2016
WTR_GIE_MSD	GIEMS	Global Inundation Extent	500	grade	2000-2012
WTR_GIE_C00	GIEMS	Global Inundation Extent: class 00			
WTR_GIE_C01	GIEMS	Global Inundation Extent: class 01			
WTR_GIE_C02	GIEMS	Global Inundation Extent: class 02			
WTR_GIE_C03	GIEMS	Global Inundation Extent: class 03			
WTR_GSW_CHA	Global Surface Water	Surface water change	30		2016
WTR_GSW_EXT	Global Surface Water	Global surface water maximum extent: Glaciers	30		2016
WTR_GSW_OCC	Global Surface Water	Occurrence probability	30		2016
WTR_HYS_GTD	Global Water Table Depth	Global Water Table Depth	1000	m	2013

Annex 14. Soil diagnostics for Reference Soil Groups

Page	RSG	Abruptic	Acric	Alic	Andic	Arenic	Argic	Calcic	Cambic	CEC<24	CEC>24	Chernic	Clayic	Duric	Dystric	Eutric	Ferralic	Fluvic	Gleyic	Gypsic	Hortic	Hyperskeletalic	Leptic	Leptosolic
85	Histosols																							
89	Leptosols							0				0		0						0			1	1
90	Solonetz																							
91	Vertisols												1											
92	Solonchaks																							
93	Gleysols																		1					
94	Andosols				1		0										0							
95	Podzols																							
96	Plinthosols																							
97	Nitisols																							
98	Ferralsols																1							
99	Planosols	1																						
100	Stagnosols																							
101	Chernozems							1				1				1								
102	Kastanozems							1								1								
103	Phaeozems															1								
104	Umbrisols																				1			
106	Gypsisols																			1				
107	Calcisols							1																
109	Acrisols		1				1			1					1									
110	Lixisols						1			1						1								
111	Alisols			1			1				1				1									
112	Luvisols						1				1					1								
113	Cambisols								1															
114	Arenosols					1															0			
115	Fluvisols																	1						
116	Regosols																							
Page	RSG	Lixic	Luvic	Mollic	Natric	Nitic	Organic	Petrocalcic	Petrogypsic	Petroplinthic	Pisoplinthic	Plinthic	Reductic	Retic	Salic	ShrinkSwell	Skeletalic	Spodic	Stagnic	Subaquatic	Thionic	Umbric	Vertic	Vitric
85	Histosols						1																	

Annex 14 continued. Rules for simplifying qualifiers

PQSQ	Abruptic	<i>Acric</i>	<i>Alic</i>	Andic	Arenic	Argic	Calcaric	Calcic	Cambic	CEC<24	CEC>24	CF<40	Chernic	Clayic	Dolomitic	Duric	Dystric	Eutric	Ferralic	Fluvic	Gleyic	Gypsic	Hortic	Humic	Leptic	<i>Leptosolic</i>
Abruptic																										
Aceric																										
Acric						1				1							1									
Acroxic																										
Aeolic																										
Albic																										
Alcalic																										
Alic						1					1						1									
Aluandic				1																						
Andic																										
Anofluvic																				1						
Anthraquic																										
Anthric																										
Arenic																										
Argic																										
Aric																										
Aridic																										
Arzic																										
Brunic																										
Calcaric																										
Calcic																										
Cambic																										
Capillalic																										
Carbic																										
Carbonatic																										
Chernic																		1								
Chloridic																										
Chromic																										
Clayic																										
Colluvic																										
Columnic																										
Cutanic																										
Densic																										
Differentic																										
Dolomitic																										

PQSQ	Abruptic	<i>Acric</i>	<i>Alic</i>	Andic	Arenic	Argic	Calcaric	Calcic	Cambic	CEC<24	CEC>24	CF<40	Chernic	Clayic	Dolomitic	Duric	Dystric	Eutric	Ferralic	Fluvic	Gleyic	Gypsic	Hortic	Humic	Leptic	<i>Leptosolic</i>
Drainic																										
Duric																										
Dystric																										
Endocalcaric							1																			
Endocalcic								1																		
Endoclayic														1												
Endodolomitic															1											
Endoeutric																		1								
Endogleyic																					1					
Endosalic																										
Endostagnic																										
Entic																										
Epidystric																										
Epieutric																										
Epileptic																									1	
Escalic																										
Eutric																										
Eutrosilic																										
Evapocrustic																										
Ferralic										1																
Ferric																										
Ferritic																										
Fibric																										
Fluvic																										
Folic																										
Fractic																										
Fragic																										
Fulvic				1																						
Gelic																										
Gelistagnic																										
Geoabruptic	1																									
Geric																										
Gibbsic																										
Gilgaic																										
Gleyic																										
Glossic																										
Greyzemic																										
Grumic																										

PQSQ	Abruptic	<i>Acric</i>	<i>Alic</i>	Andic	Arenic	Argic	Calcaric	Calcic	Cambic	CEC<24	CEC>24	CF<40	Chernic	Clayic	Dolomitic	Duric	Dystric	Eutric	Ferralic	Fluvic	Gleyic	Gypsic	Hortic	Humic	Leptic	<i>Leptosolic</i>
Gypsic																										
Gypsic																										
Haplic																										
Hemic																										
Histic																										
Hortic																										
Humic																										
Hydragric																										
Hydric																										
Hydrophobic																										
Hyperalic			1			1					1						1									
Hypercalcic								1																		
Hyperdystic																	1									
Hypereutric																		1								
Hypergypsic																					1					
Hyperhumic																								1		
Hypernatric																										
Hyperorganic																										
Hypersalic																										
Hyperskeletal																									1	
Hyperspodic																										
Hypocalcic																										
Hypogypsic																										
Inclitic																										
Irragic																										
Isolatic																										
Lamellic																										
Lapiadic																								1	1	
Laxic																										
Leptic																										
<i>Leptosolic</i>																									1	
Lignic																										
Limnic																										
Lithic																								1	1	
Lixic						1				1								1								
Loamic																										
Luvic						1					1							1								
Magnesian																										

PQSQ	Abruptic	<i>Acric</i>	<i>Alic</i>	Andic	Arenic	Argic	Calcaric	Calcic	Cambic	CEC<24	CEC>24	CF<40	Chernic	Clayic	Dolomitic	Duric	Dystric	Eutric	Ferralic	Fluvic	Gleyic	Gypsic	Hortic	Humic	Leptic	<i>Leptosolic</i>
Manganiferlic																										
Mawic																										
Mazic																										
Melanic																										
Mesotrophic																										
Mineralic																										
Mollic																		1								
Murshic																										
Natric																										
Nechic																										
Neocambic																										
Nitic														1												
Novic																										
Nudiargic						1																				
Nudilithic																								1	1	
Nudinatric																										
Ochric																										
Ombric																										
Organic																										
Ornithic																										
Orthofluvic																										
Ortsteinic																										
Oxyaquic																										
Oxygleyic																					1					
Pachic																										
Pantofluvic																				1						
Pellic																										
Petric																										
Petrocalcic								1																		
Petroduric																1										
Petrogypsic																						1				
Petrogleyic																					1					
Petroplinthic																										
Petrosalic																										
Pisoplinthic																										
Placic																										
Plaggic																										
Plinthic																										

PQSQ	Abruptic	<i>Acric</i>	<i>Alic</i>	Andic	Arenic	Argic	Calcaric	Calcic	Cambic	CEC<24	CEC>24	CF<40	Chernic	Clayic	Dolomitic	Duric	Dystric	Eutric	Ferralic	Fluvic	Gleyic	Gypsic	Hortic	Humic	Leptic	<i>Leptosolic</i>
Posic																										
Pretic																										
Profondic																										
Protic																										
Protoandic																										
Protoargic																										
Protocalcic																										
Protospodic																										
Protovertic														1												
Puffic																										
Raptic																										
Reductic																										
Reductigleyic																					1					
Relocatic																										
Rendzic							1											1								
Retic																										
Rheic																										
Rhodic																										
Rockic																										
Rubic																										
Rubtic																										
Rustic																										
Salic																										
Sapric																										
Sideralic										1																
Silandic				1																						
Siltic																										
Skeletal																										
Sodic																										
Sombric																										
Someric																										
Spodic																										
Stagnic																										
Subaquatic																										
Sulfatic																										
Sulfidic																										
Takyric																										
Technic																										

PQSQ		
Technoleptic		
Tephric		
Terric		
Thionic		
Thixotropic		
Tidalic		
Tonguic		
Toxic		
Transportic		
Turbic		
Umbric		1
Uterquic		1
Vermic		
Vertic		1
Vetic		
Vitric		
Yermic		
Xanthic		
PQSQ		
Abruptic	Lithic	
<i>Acric</i>	<i>Lixic</i>	
<i>Alic</i>	<i>Luvic</i>	
Andic	Mollic	
Arenic	Natric	
Argic	Nitic	
Calcaric	<i>Organic</i>	
Calcic	Petrocalcic	
Cambic	Petrogypsic	
CEC<24	Petroplinthic	
CEC>24		
CF<40	Pisoplinthic	
Chernic	Plinthic	
Clayic	Reductic	1
Dolomitic	Retic	
Duric	Salic	
Dystric	Shrinkswell	1
Eutric	Skeletalic	
Ferralic	Spodic	
Fluvic	Stagnic	1
Gleyic	Subaquatic	
Gypsic		
Hortic	Thionic	
Humic	Umbric	
Leptic	Vertic	1
<i>Leptosolic</i>	Vitric	

PQSQ	Lithic	Lixic	Luvic	Mollic	Natric	Nitic	Organic	Petrocalcic	Petrogypsic	Petroplinthic	Pisoplinthic	Plinthic	Reductic	Retic	Salic	ShrinkSwell	Skeletal	Spodic	Stagnic	Subaquatic	Thionic	Umbric	Vertic	Vitric
Argic																								
Aric																								
Aridic																								
Arzic																								
Brunic																								
Calcaric																								
Calcic																								
Cambic																								
Capilllaric																								
Carbic																								
Carbonatic																								
Chernic				1																				
Chloridic																								
Chromic																								
Clayic																								
Colluvic																								
Columnic																								
Cutanic																								
Densic																								
Differentic																								
Dolomitic																								
Drainic																								
Duric																								
Dystric																								
Endocalcaric																								
Endocalcic																								
Endoclayic																								
Endodolomitic																								
Endoeutric																								
Endogleyic																								
Endosalic															1									
Endostagnic																			1					
Entic																								
Epidystric																								
Epieutric																								
Epileptic	1																							
Escalic																								

PQSQ	Lithic	Lixic	Luvic	Mollic	Natric	Nitic	Organic	Petrocalcic	Petrogypsic	Petroplinthic	Pisoplinthic	Plinthic	Reductic	Retic	Salic	ShrinkSwell	Skeletal	Spodic	Stagnic	Subaquatic	Thionic	Umbric	Vertic	Vitric
Eutric																								
Eutrosilic																								
Evapocrustic																								
Ferralic																								
Ferric																								
Ferritic																								
Fibric																								
Fluvic																								
Folic							1																	
Fractic																								
Fragic																								
Fulvic																								
Gelic																								
Gelistagnic																			1					
Geoabruptic																								
Geric																								
Gibbsic																								
Gilgaic																1							1	
Gleyic																								
Glossic																								
Greyzemic																								
Grumic																								
Gypsic																								
Gypsiric																								
Haplic																								
Hemic																								
Histic							1																	
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Hydragric																								
Hydric																								
Hydrophobic																								
Hyperalic																								
Hypercalcic																								
Hyperdystric																								
Hypereutric																								
Hypergypsic																								

PQSQ	Lithic	Lixic	Luvic	Mollic	Natric	Nitic	Organic	Petrocalcic	Petrogypsic	Petroplinthic	Pisoplinthic	Plinthic	Reductic	Retic	Salic	ShrinkSwell	Skeletal	Spodic	Stagnic	Subaquatic	Thionic	Umbric	Vertic	Vitric
Hyperhumic																								
Hypernatric					1																			
Hyperorganic							1																	
Hypersalic															1									
Hyperskeletal																	1							
Hyperspodic																		1						
Hypocalcic																								
Hypogypsic																								
Inclinic																								
Irragric																								
Isolatic																								
Lamellic																								
Lapiadic	1																							
Laxic																								
Leptic																								
Leptosolic																								
Lignic																								
Limnic																								
Lithic																								
Lixic																								
Loamic																								
Luvic																								
Magnesian																								
Manganiferous																								
Mawic																								
Mazic																								
Melanic																								
Mesotrophic																								
Mineralic																								
Mollic																								
Murshic																								
Natric																								
Nechic																								
Neocambic																								
Nitic																								
Novic							1																	
Nudiargic																								

PQSQ	Lithic	Lixic	Luvic	Mollic	Natric	Nitic	Organic	Petrocalcic	Petrogypsic	Petroplinthic	Pisoplinthic	Plinthic	Reductic	Retic	Salic	ShrinkSwell	Skeletal	Spodic	Stagnic	Subaquatic	Thionic	Umbric	Vertic	Vitric
Nudilithic	1																							
Nudinatric					1																			
Ochric																								
Ombric																								
Organic																								
Ornithic																								
Orthofluvic																								
Ortsteinic																								
Oxyaquic																								
Oxygleyic																								
Pachic																								
Pantofluvic																								
Pellic																								
Petric																								
Petrocalcic																								
Petroduric																								
Petrogypsic																								
Petrogleyic																								
Petroplinthic												1												
Petrosalic															1									
Pisoplinthic												1												
Placic												1												
Plaggic																								
Plinthic																								
Posic																								
Pretic																								
Profondic																								
Protic																								
Protoandic																								
Protoargic																								
Protocalcic																								
Protospodic																								
Protovertic																1								
Puffic																								
Raptic																								
Reductic																								
Reductigleyic													1											

PQSQ	Lithic	Lixic	Luvic	Mollic	Natric	Nitic	Organic	Petrocalcic	Petrogypsic	Petroplinthic	Pisoplinthic	Plinthic	Reductic	Retic	Salic	ShrinkSwell	Skeletal	Spodic	Stagnic	Subaquatic	Thionic	Umbric	Vertic	Vitric
Relocatic																								
Rendzic				1																				
Retic																								
Rheic																								
Rhodic																								
Rockic																								
Rubic																								
Rubtic																								
Rustic																								
Salic																								
Sapric																								
Sideralic																								
Silandic																								
Siltic																								
Skeletal																								
Sodic																								
Sombric																								
Someric																								
Spodic																								
Stagnic																								
Subaquatic																								
Sulfatic																								
Sulfidic																								
Takyric																								
Technic																								
Technoleptic																								
Tephric																								
Terric																								
Thionic																								
Thixotropic																								
Tidalic																								
Tonguic																								
Toxic																								
Transportic																								
Turbic																								
Umbric																								
Uterquic																								

1

PQSQ

Vermic
Vertic
Vetic
Vitric
Yermic
Xanthic

Lithic

Lixic

Luvic

Mollic

Natric

Nitic

Organic

Petrocalcic

Petrogypsic

Petroplinthic

Pisoplinthic

Plinthic

Reductic

Retic

Salic

ShrinkSwell

Skeletal

Spodic

Stagnic

Subaquatic

Thionic

Umbric

Vertic

Vitric

Annex 15. Overall accuracy of each pathway at each level of detail

Overall accuracies as reported for the versions of 20201209 and 20201217.

Levels			Version 20201209 : 30 SG covariates and not corrected for mutually exclusive qualifiers				Version 20201217 : selected SG covariates and corrected for mutually exclusive qualifiers			
RSG	PQ	SQ	pathway_1	pathway_2a-i	pathway_2a-ii	pathway_3	pathway_1	pathway_2a-i	pathway_2a-ii	pathway_3
1	0	0	0.62	0.62	0.62	0.6	0.57	0.57	0.57	0.55
1	1	0	0.58	0.44	0.57	0.56	0.53	0.41	0.51	0.51
1	1	1	0.38	0.5	0.64	0.63	0.36	0.48	0.58	0.58
1	1	2	0.29	0.47	0.59	0.58	0.28	0.45	0.53	0.53
<u>1</u>	<u>1</u>	<u>3</u>	0.23	0.43	0.53	0.52	0.34	0.39	0.47	<u>0.47</u>
1	1	4	0.19	0.39	0.47	0.46	0.25	0.35	0.42	0.41
1	2	0	0.4	0.33	0.44	0.43	0.21	0.31	0.4	0.39
1	2	1	0.3	0.4	0.52	0.51	0.17	0.38	0.48	0.47
1	2	2	0.24	0.4	0.5	0.5	0.26	0.38	0.46	0.46
1	2	3	0.2	0.37	0.47	0.46	0.21	0.34	0.42	0.42
1	2	4	0.17	0.35	0.42	0.42	0.17	0.32	0.38	0.38
1	3	0	0.31	0.29	0.35	0.35	0.15	0.27	0.32	0.32
1	3	1	0.24	0.36	0.43	0.43	0.21	0.34	0.4	0.4
1	3	2	0.2	0.36	0.43	0.43	0.18	0.34	0.4	0.4
1	3	3	0.18	0.34	0.41	0.41	0.15	0.32	0.37	0.37
1	3	4	0.15	0.32	0.38	0.38	0.13	0.3	0.34	0.34

RSG: Reference Soil Group

PQ : Principal Qualifiers

SQ : Supplementary Qualifiers

Pathway 1 – direct mapping of recorded soil classes (including RSG, PQs and SQs) by one model

Pathway 2 – mapping of recorded RSGs by one model and separate mapping of recorded qualifiers; combined into classes

i – one model to map all PQs and one model to map all SQs

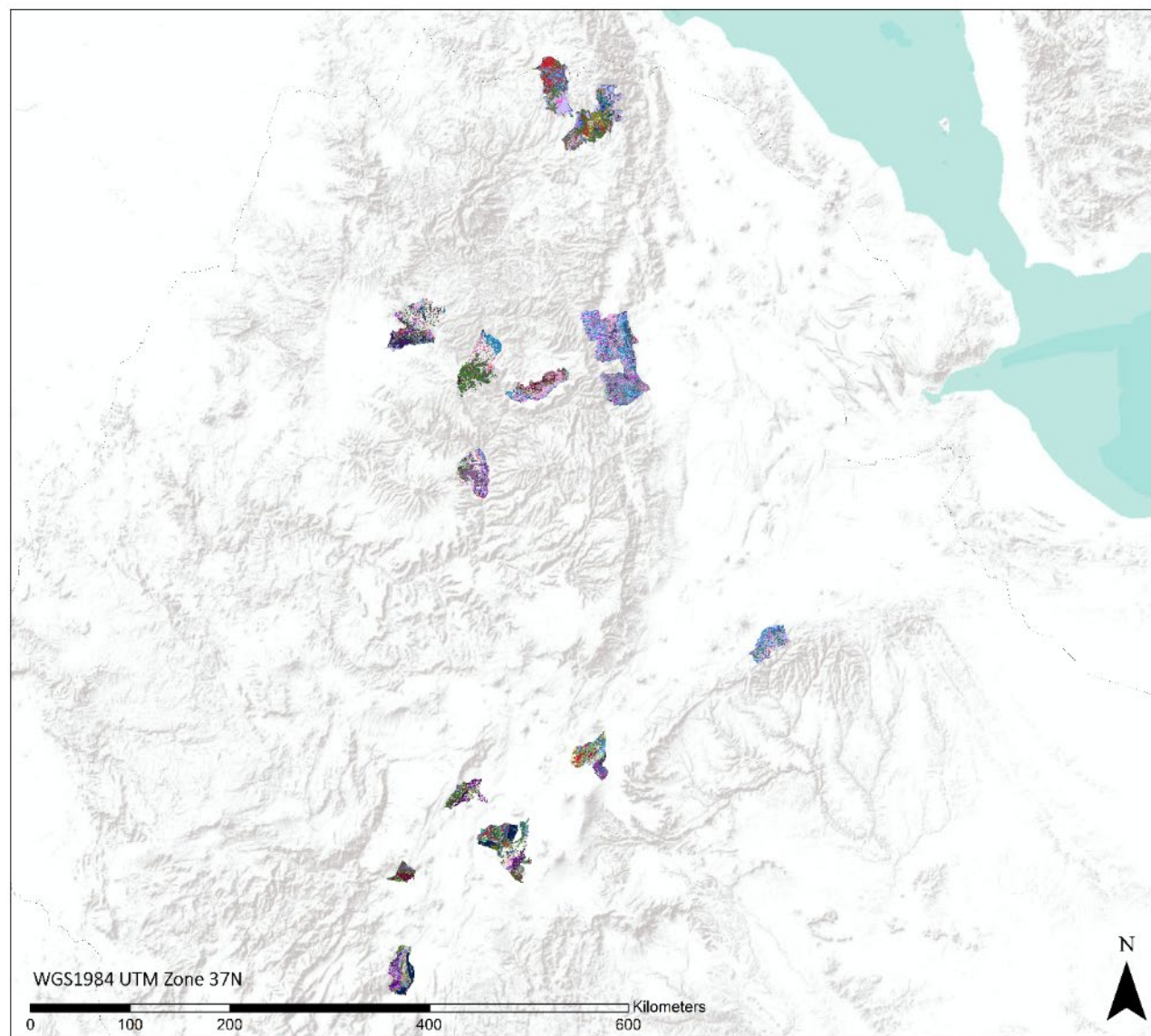
ii – multiple models to map each of the PQs and SQs individually

Pathway 3 – mapping of derived diagnostics, by multiple models, to assess the RSG using the WRB key and separate mapping of recorded qualifiers by multiple models, combined into classes

Annex 16. Soil class raster map at 50 m resolution

Soil resources (RSGs + 1 PQ + 3 SQs) in 15 REALISE woredas. Version of 20201217.

General view



BENEFITREALISE

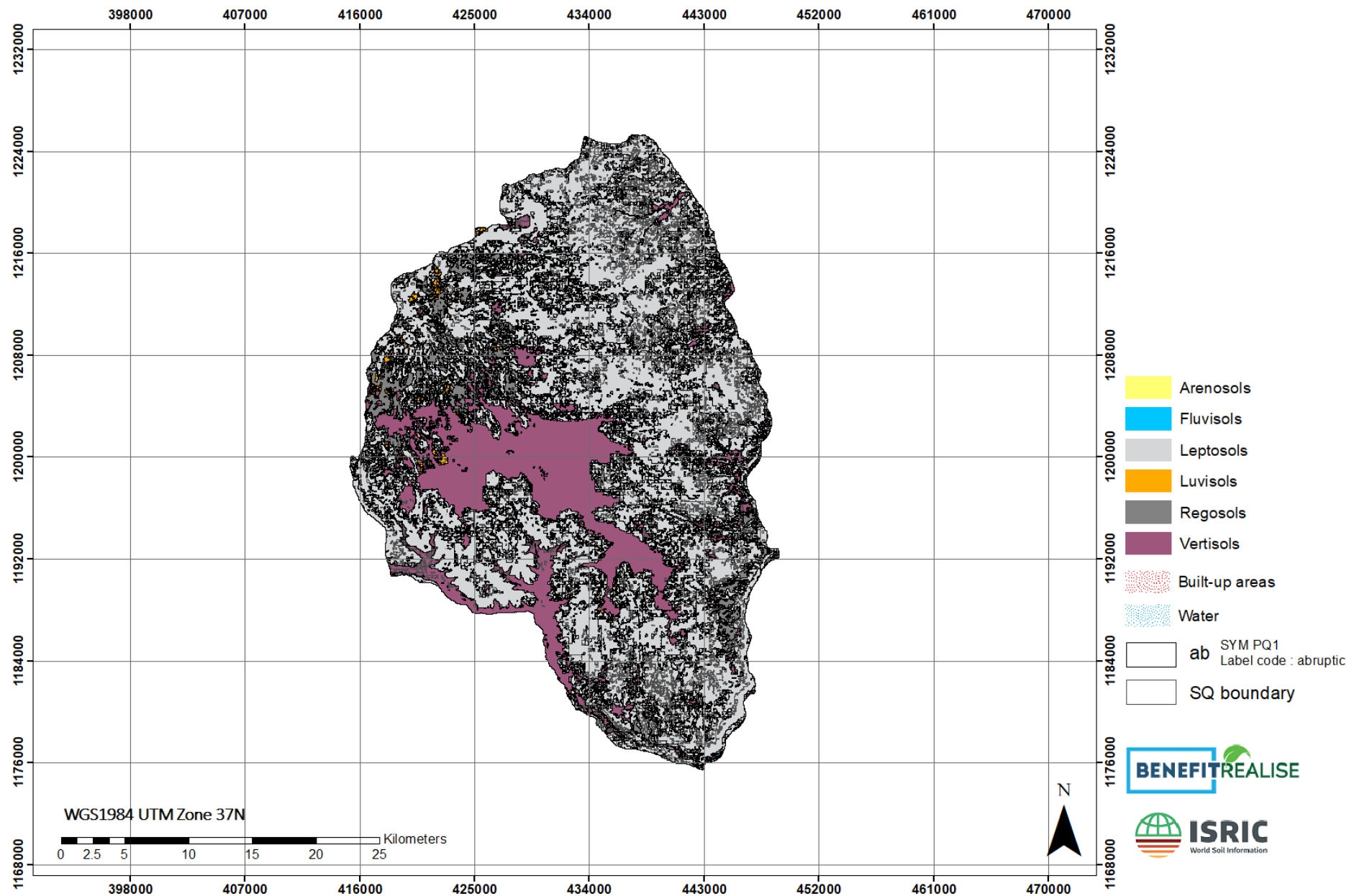


Annex 17. Soil class map generalised at 1: 50,000 scale

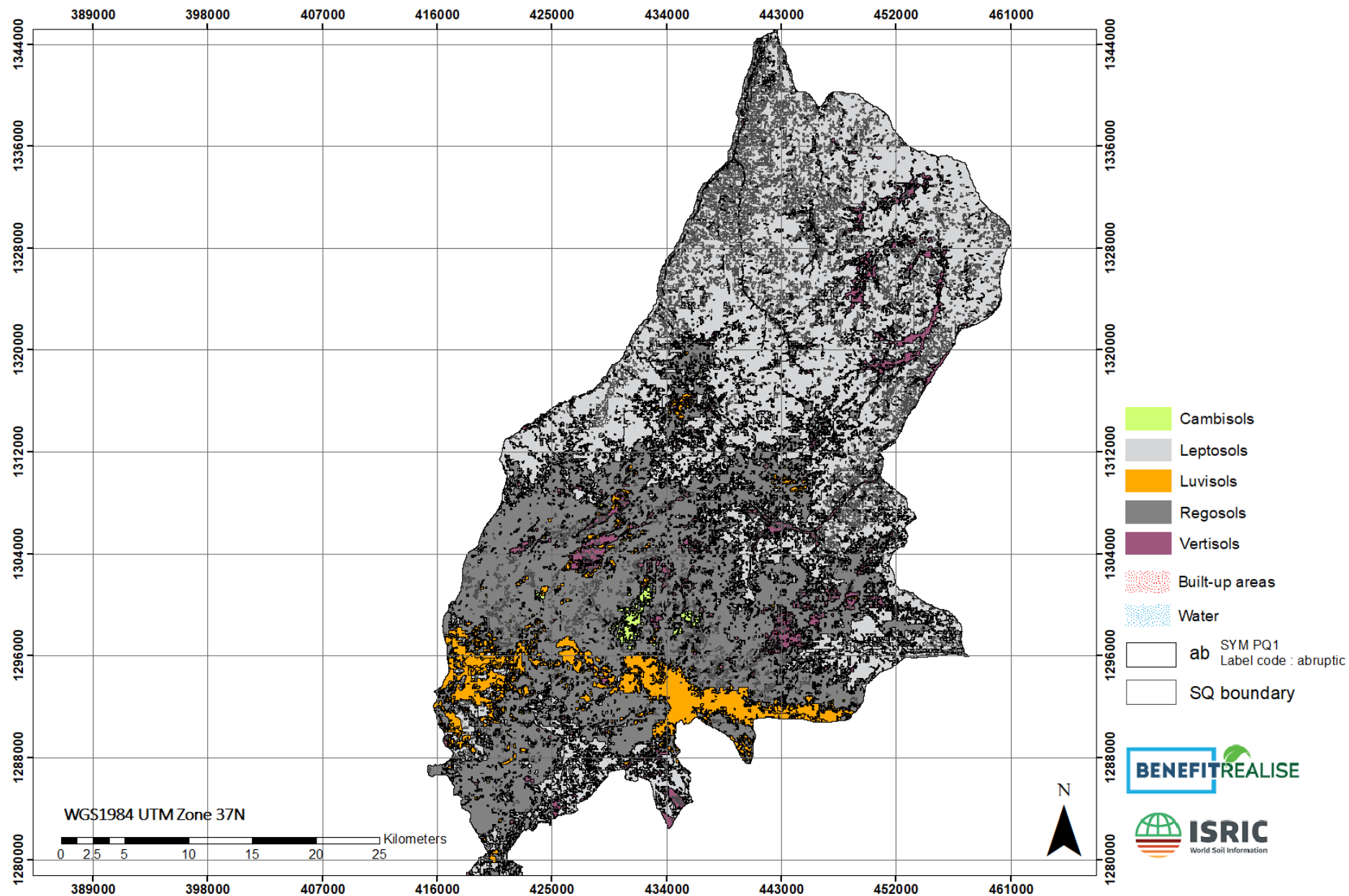
Soil resources (RSGs + 1 PQ + 3 SQs) in each of the 15 REALISE woredas. Version of 20201217. Note that the map legends indicate Reference Soil Groups by colour, principal qualifiers by black delineations and a label and combinations of 3 supplementary qualifiers by grey delineations without label. The use of GIS software is required to query the full information (the full class) per mapping unit as given in Annex 18.

Amhara West
Amhara East
Oromia
SNNP
Tigray

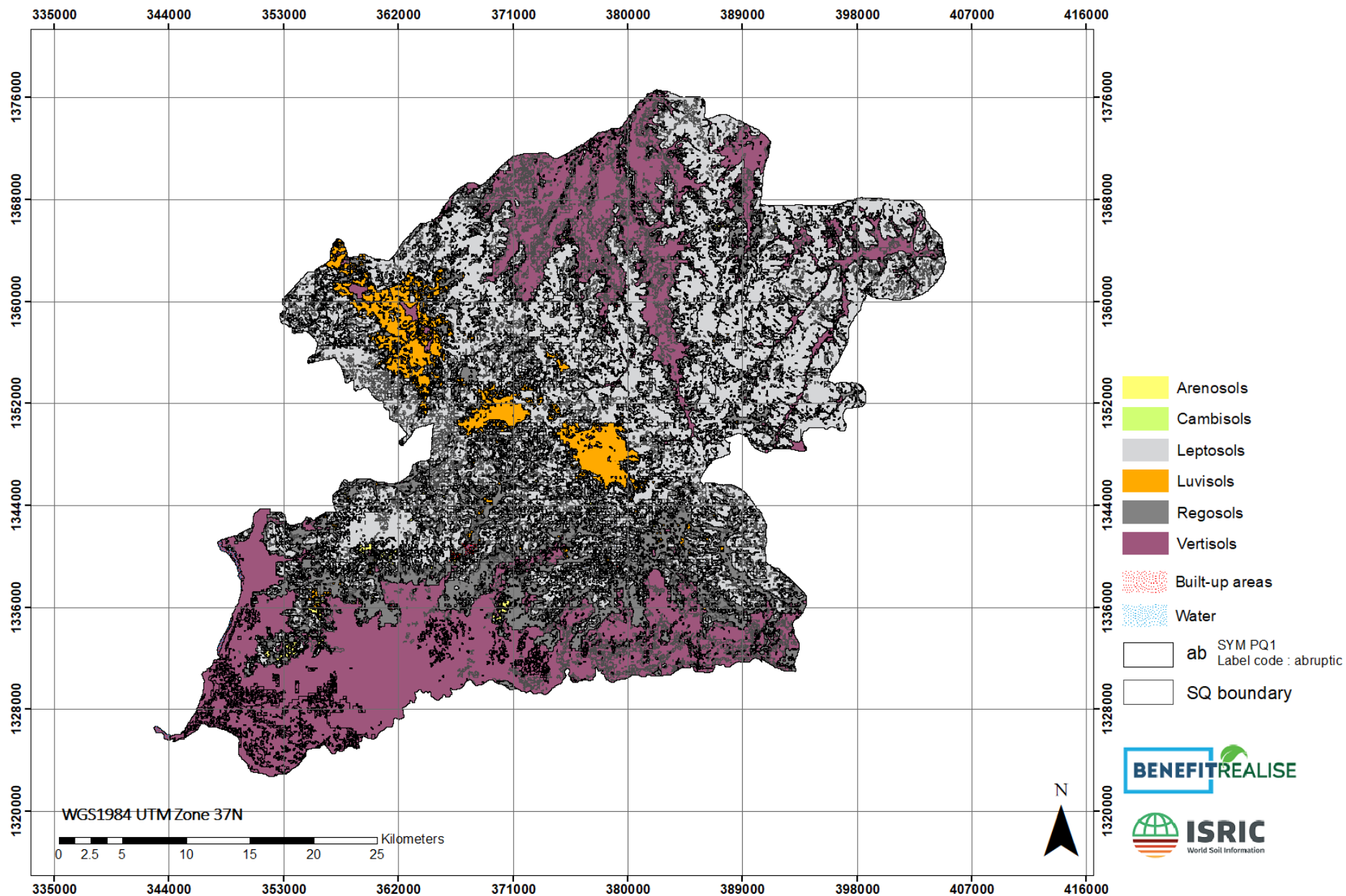
Enebise Sar Midir, Amhara



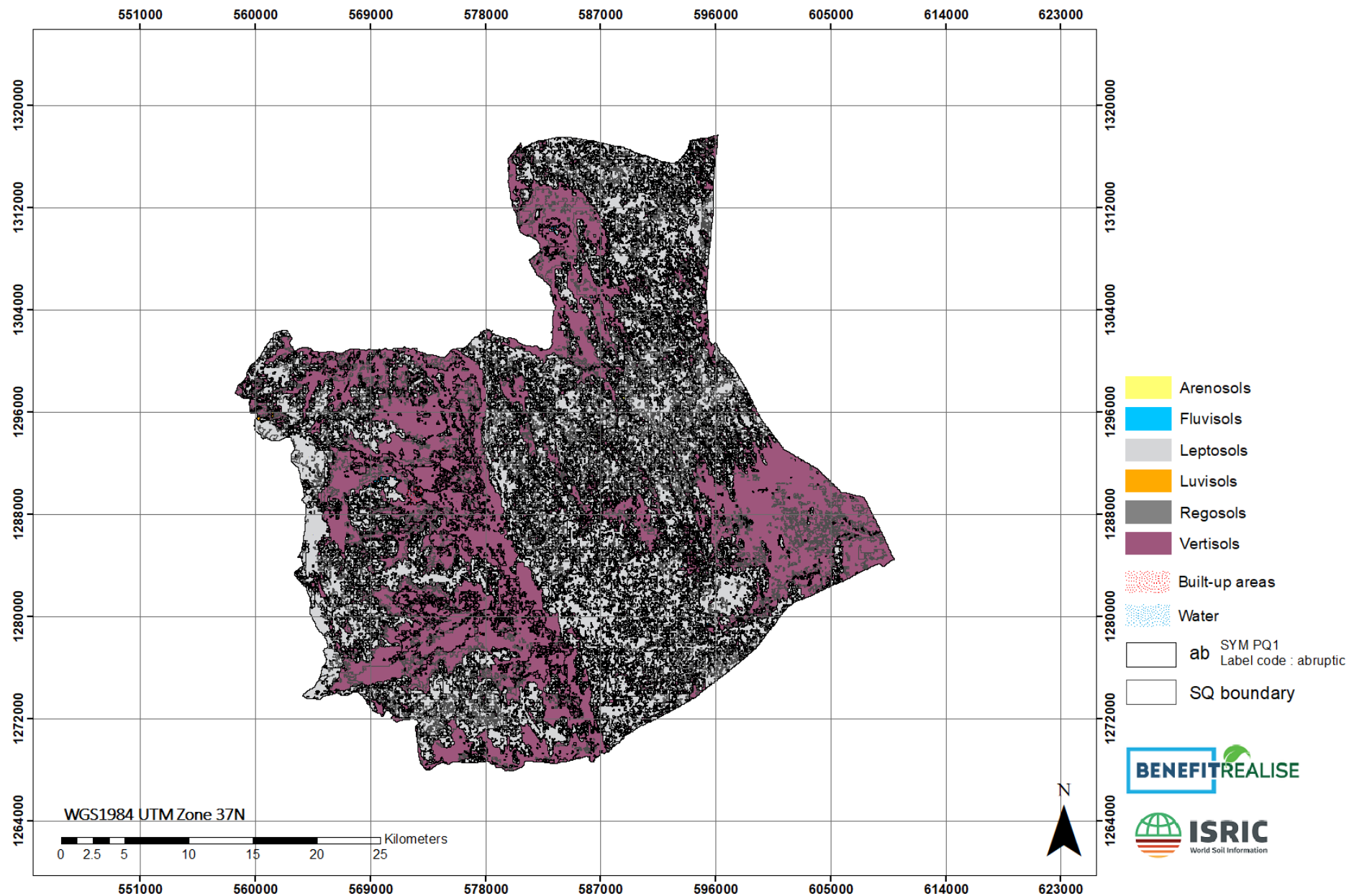
Lay Gayint, Amhara



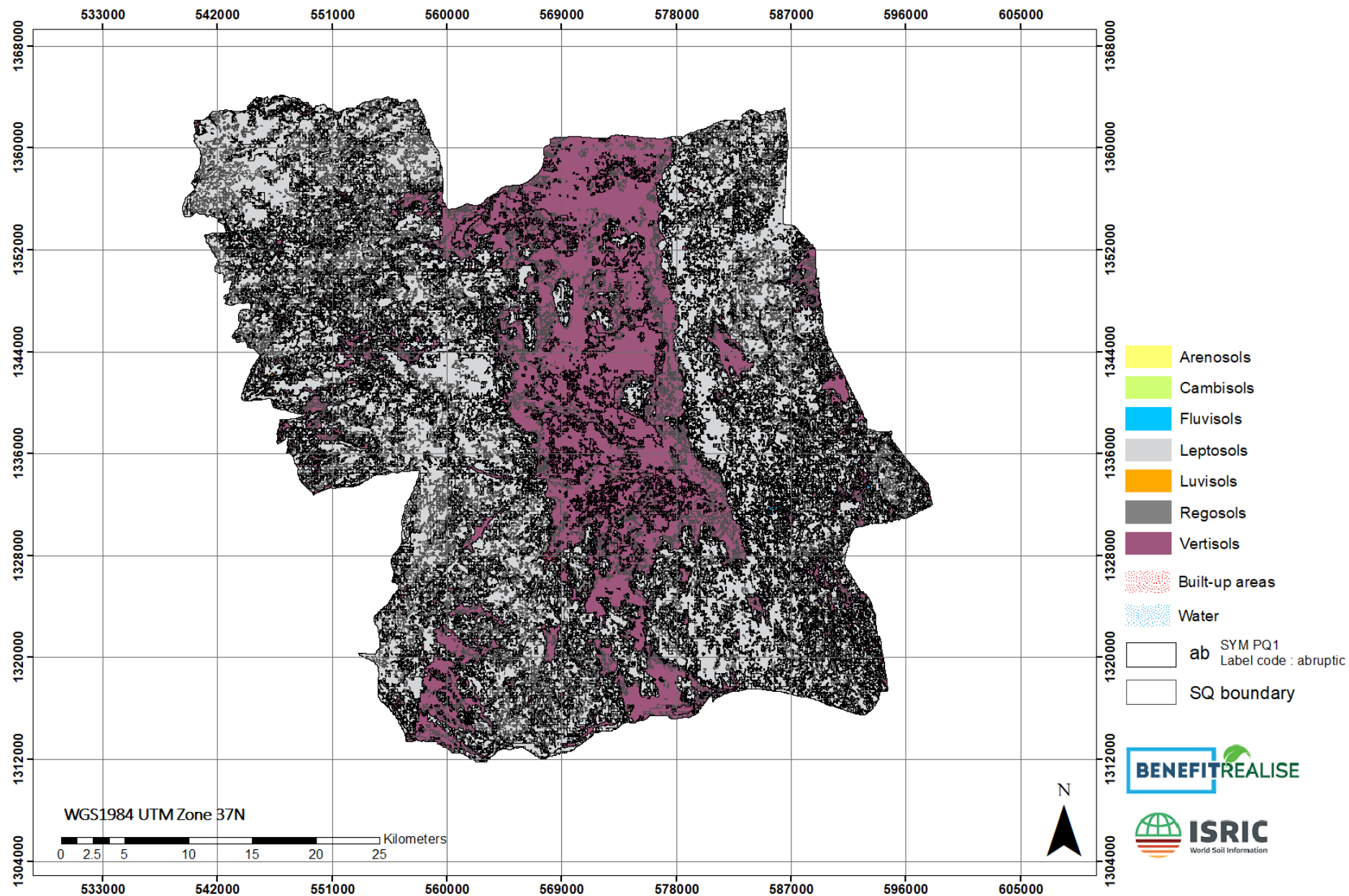
Libokemkem, Amhara



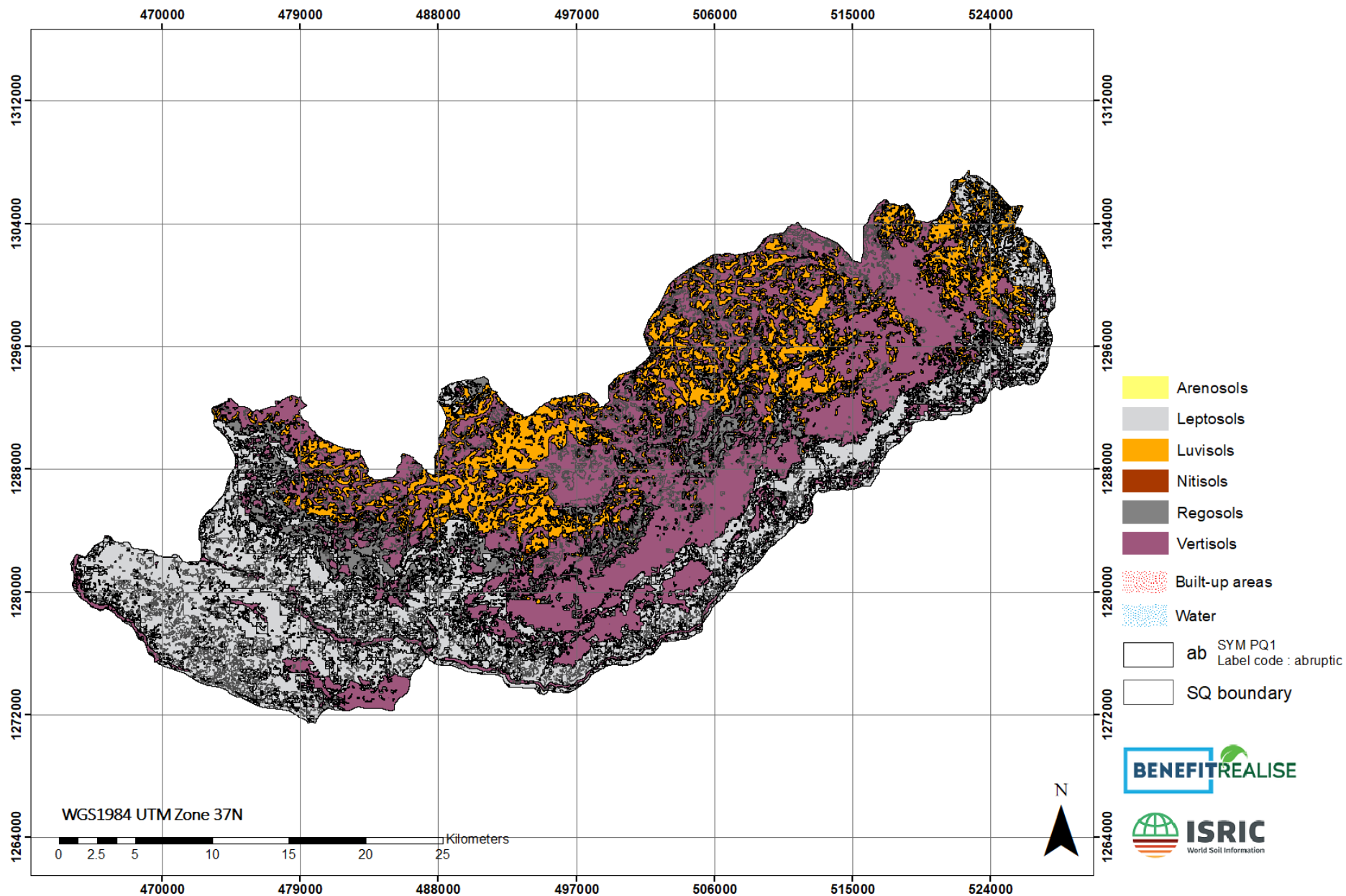
Habru, Amhara



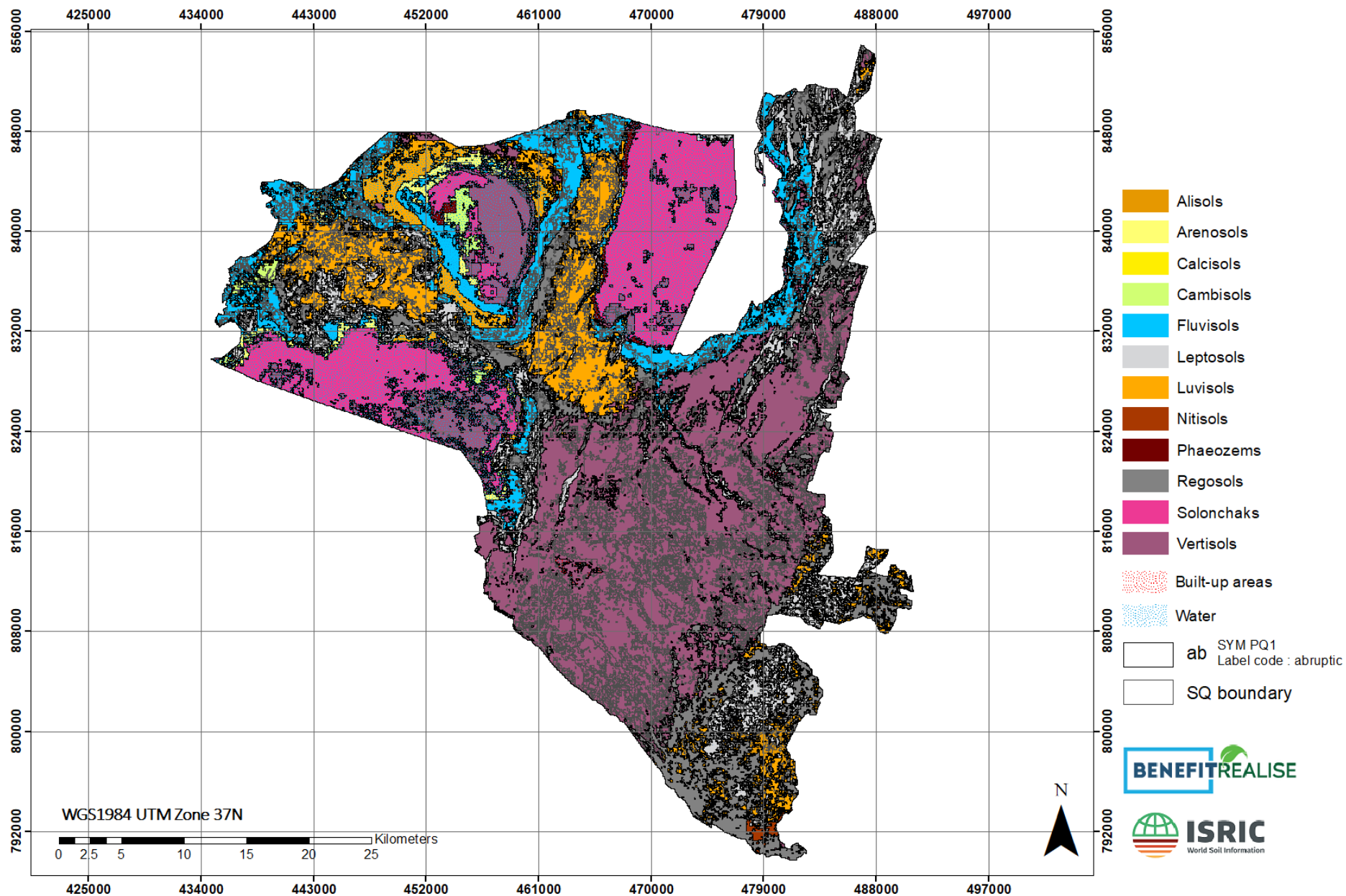
Kobo, Amhara



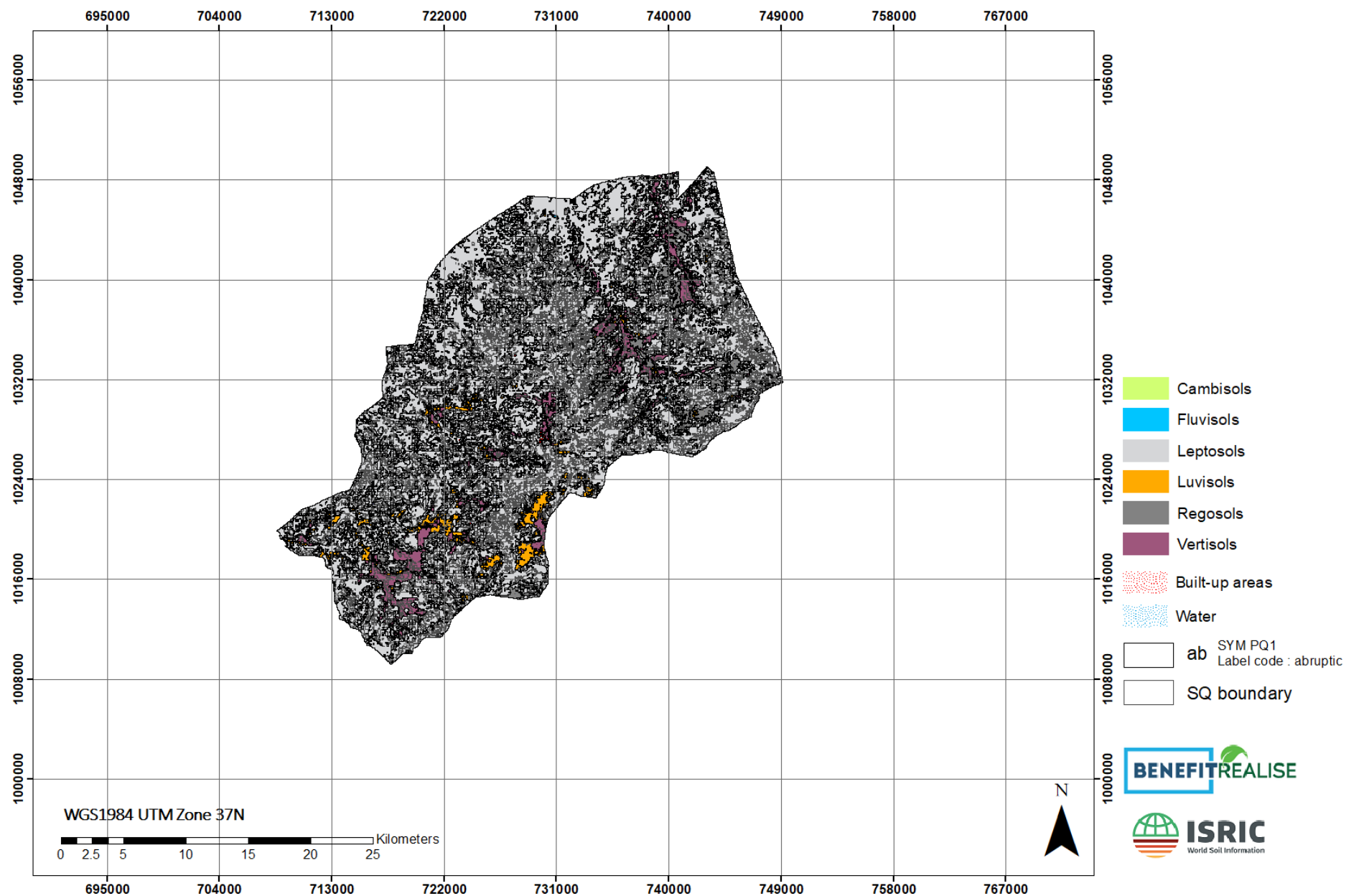
Wadla, Amhara



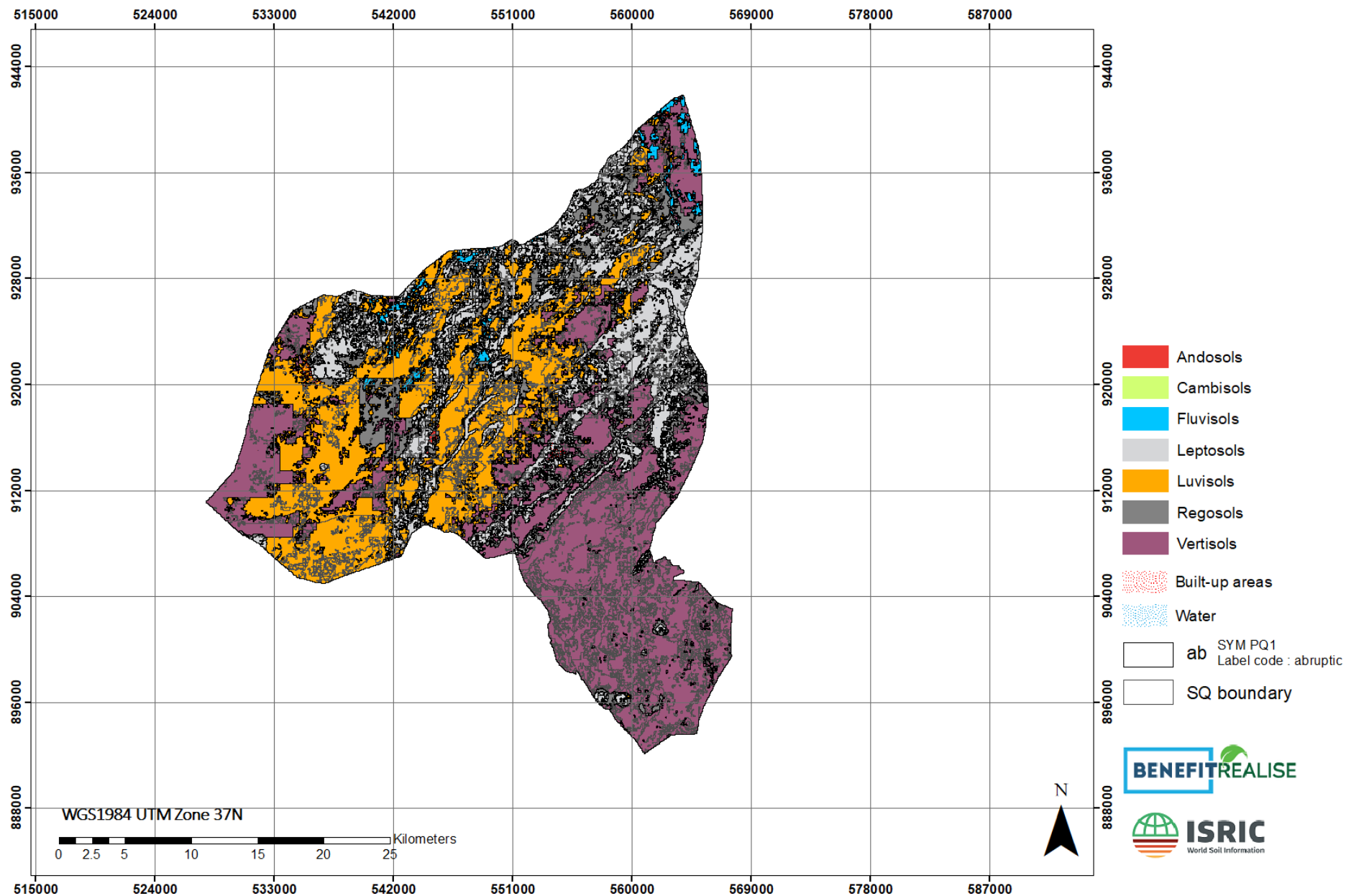
Arsi Negele, Oromia



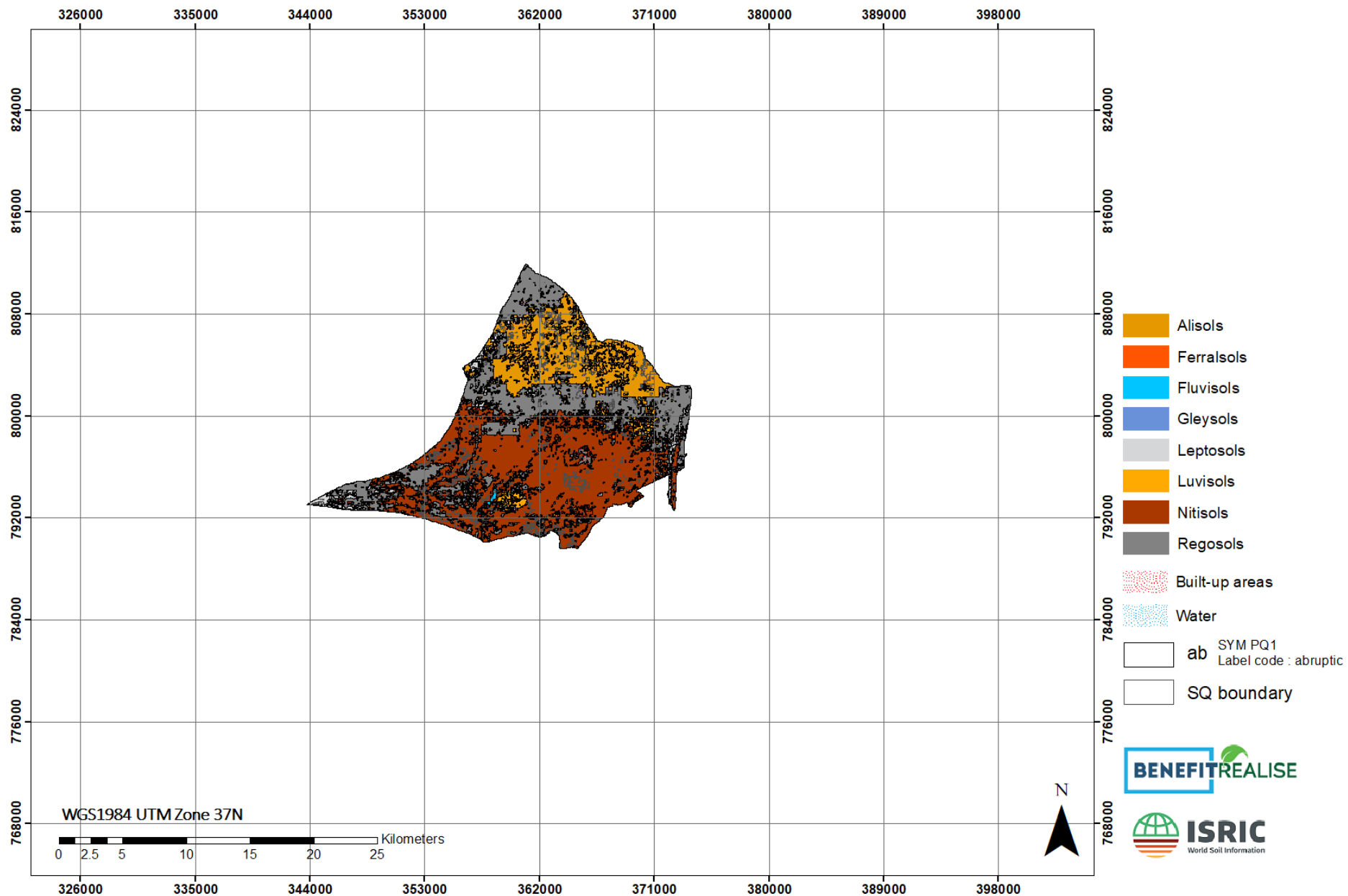
Doba, Oromia



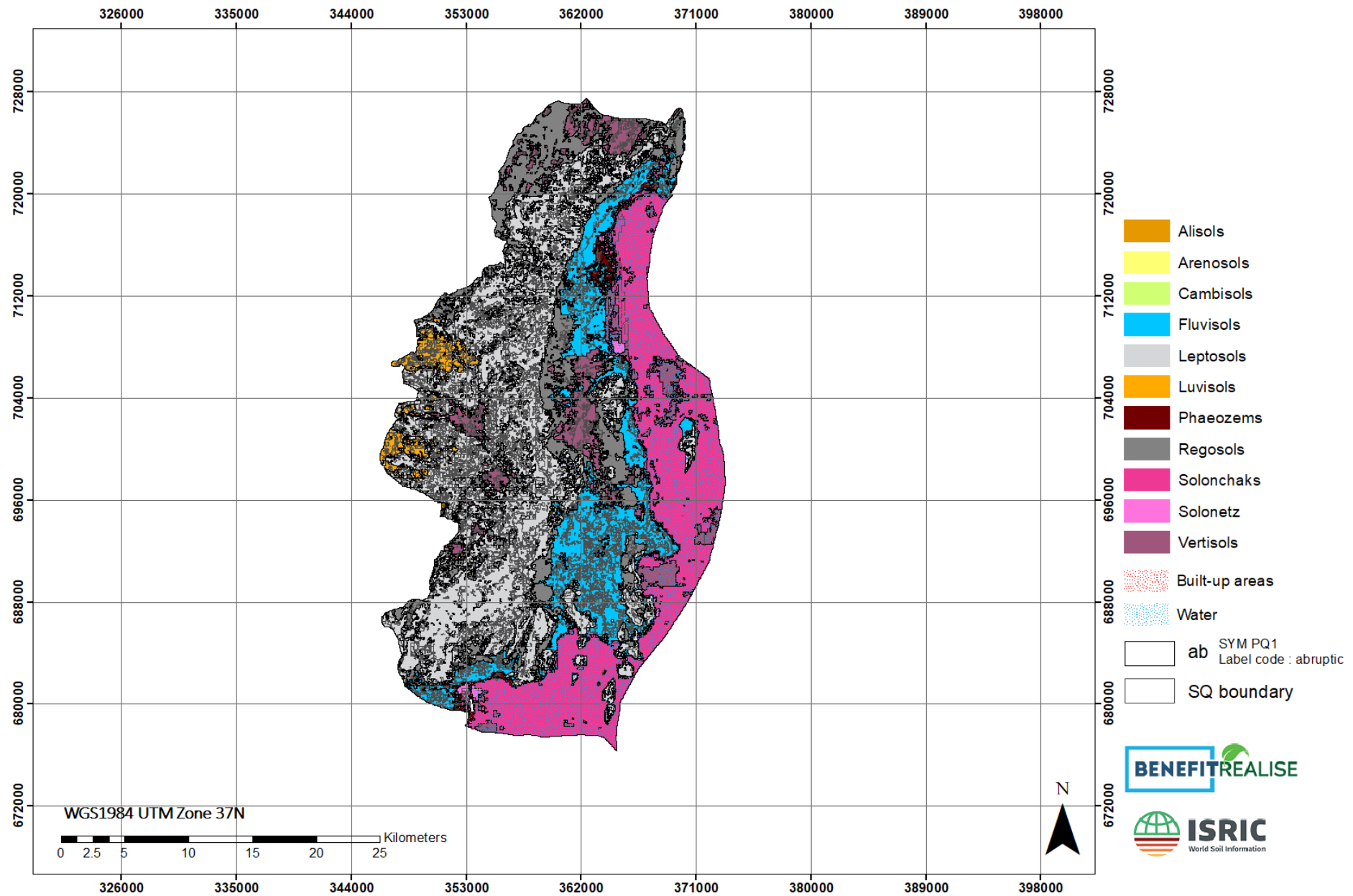
Sire, Oromia



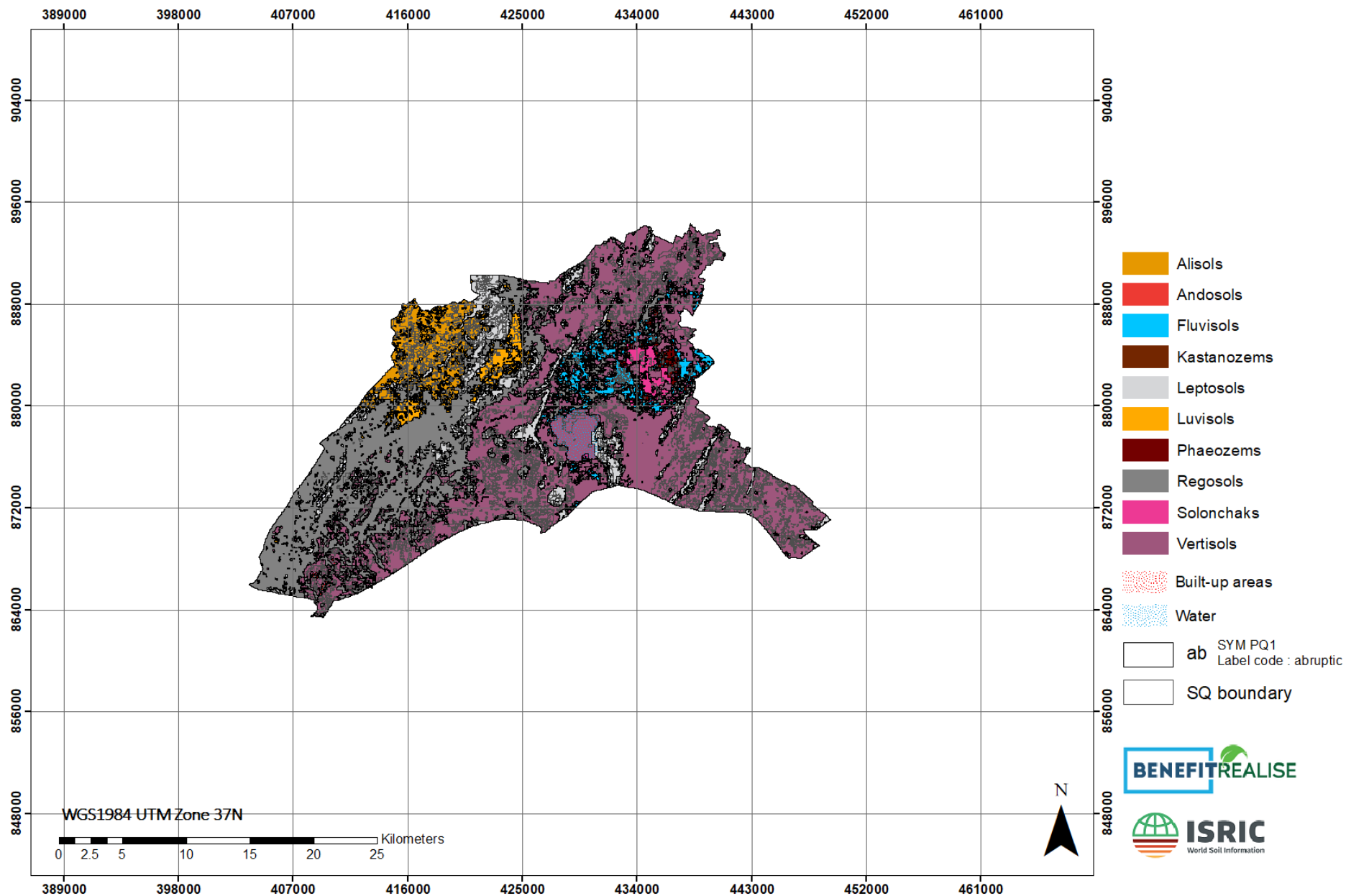
Kacha Bira, SNNP



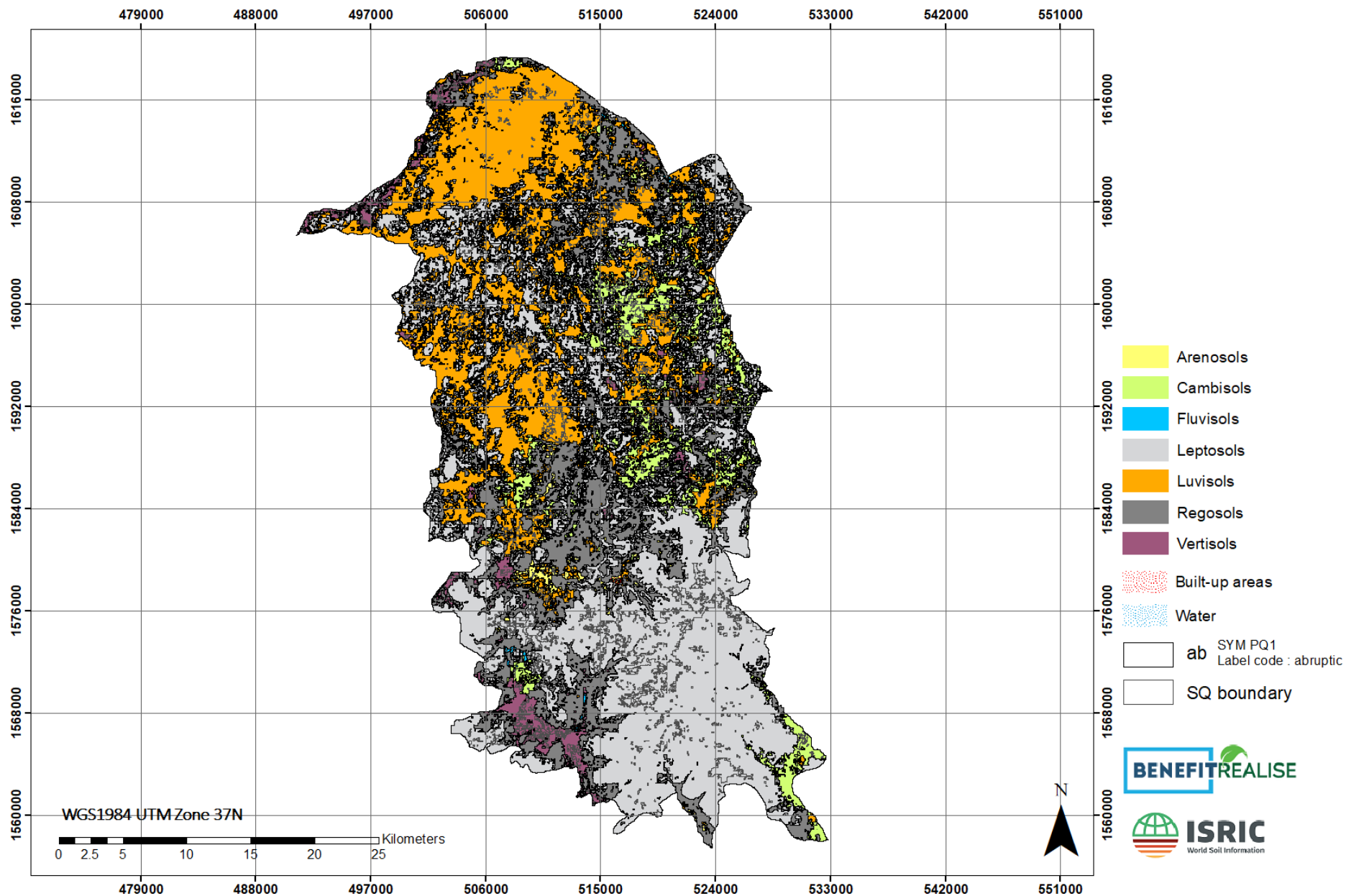
Mirab Abaya, SNNP



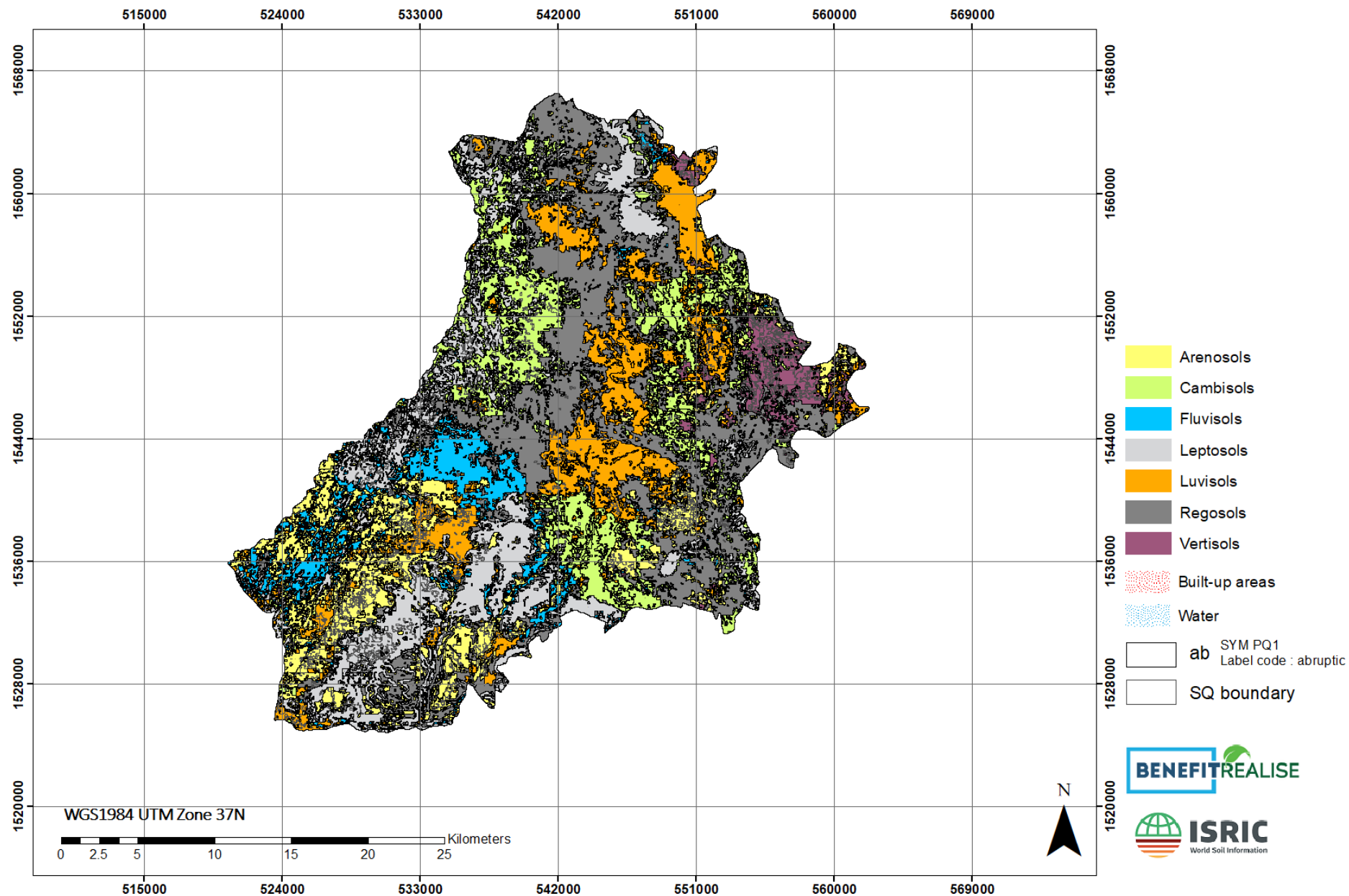
Silite, SNNP



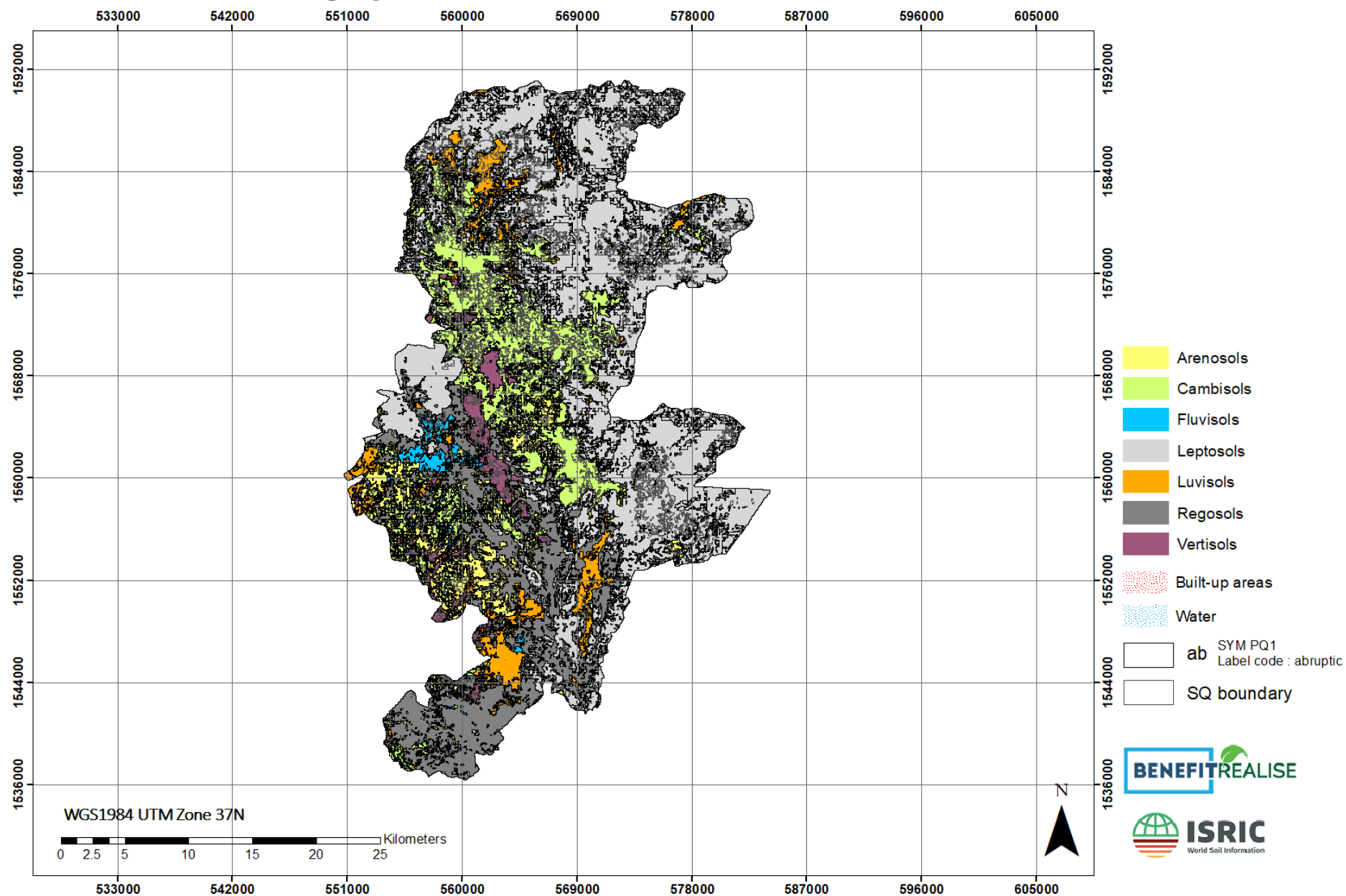
Ahiferom, Tigray



Hawzen, Tigray



Saesi Tsadamba, Tigray



Annex 18. Legend of the soil class map per woreda generalised at 1: 50,000 scale

Soil resources (RSGs + 1 PQ + 3 SQs) in each of the 15 REALISE woredas. Version of 20201217.

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Ahferom	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	45,000
Ahferom	175	Fluvic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	12,500
Ahferom	179	Fluvic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	7,500
Ahferom	182	Fluvic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	1,342,500
Ahferom	410	Fluvic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Fluvic	fv	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	440,000
Ahferom	411	Gleyic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Gleyic	gl	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	255,000
Ahferom	411	Gleyic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Gleyic	gl	Alcalic	ax	Aric	ai	Geoabruptic	go	Built-up	15,000
Ahferom	413	Gleyic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	270,000
Ahferom	414	Gleyic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	7,854,643
Ahferom	414	Gleyic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Geoabruptic	go	Built-up	277,500
Ahferom	415	Gleyic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	3,029,353
Ahferom	416	Gleyic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	278,062
Ahferom	416	Gleyic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Ochric	oh	Built-up	42,500
Ahferom	187	Fluvic Cambisols Alcalic Aric Clayic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Clayic	ce	n/a	10,000
Ahferom	201	Fluvic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	1,260,000
Ahferom	418	Gleyic Cambisols Aric Clayic Colluvic	Cambisols	CM	Gleyic	gl	Aric	ai	Clayic	ce	Colluvic	co	n/a	25,000
Ahferom	419	Gleyic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Gleyic	gl	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	810,000
Ahferom	427	Leptic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Leptic	le	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	160,000
Ahferom	383	Leptic Cambisols Aric Aridic Clayic	Cambisols	CM	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	225,000
Ahferom	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	5,020,737
Ahferom	226	Leptic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	85,790,114
Ahferom	429	Leptic Cambisols Aric Colluvic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	17,500
Ahferom	430	Leptic Cambisols Aric Colluvic Loamic	Cambisols	CM	Leptic	le	Aric	ai	Colluvic	co	Loamic	lo	n/a	117,500
Ahferom	431	Leptic Cambisols Aric Geoabruptic Loamic	Cambisols	CM	Leptic	le	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	6,182,500
Ahferom	473	Vertic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Vertic	vr	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	7,500
Ahferom	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	1,877,500
Ahferom	40	Leptic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	197,500
Ahferom	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,500
Ahferom	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	889,426
Ahferom	17	Cambic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	52,500
Ahferom	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	25,000
Ahferom	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	38,651,950
Ahferom	424	Hyperskeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	1,917,500
Ahferom	210	Hyperskeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	257,500
Ahferom	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	240,000
Ahferom	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	844,915
Ahferom	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	32,507,272
Ahferom	450	Lithic Leptosols Arenic Aric Gleyic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Gleyic	gl	n/a	7,500
Ahferom	451	Lithic Leptosols Arenic Fluvic Gleyic	Leptosols	LP	Lithic	li	Arenic	ar	Fluvic	fv	Gleyic	gl	n/a	15,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Ahferom	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	10,000
Ahferom	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	4,041,943
Ahferom	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	400,318,315
Ahferom	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	9,931,442
Ahferom	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	12,500
Ahferom	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	5,687,505
Ahferom	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	172,500
Ahferom	267	Lithic Leptosols Aric Gleyic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Gleyic	gl	Loamic	lo	n/a	22,500
Ahferom	452	Lithic Leptosols Clayic Colluvic Fluvic	Leptosols	LP	Lithic	li	Clayic	ce	Colluvic	co	Fluvic	fv	n/a	30,000
Ahferom	453	Lithic Leptosols Clayic Fluvic Gleyic	Leptosols	LP	Lithic	li	Clayic	ce	Fluvic	fv	Gleyic	gl	n/a	1,305,000
Ahferom	454	Lithic Leptosols Fluvic Gleyic Loamic	Leptosols	LP	Lithic	li	Fluvic	fv	Gleyic	gl	Loamic	lo	n/a	125,000
Ahferom	272	Mollic Leptosols Aric Clayic Colluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,500
Ahferom	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	8,954,876
Ahferom	457	Mollic Leptosols Aric Clayic Gleyic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Gleyic	gl	n/a	235,000
Ahferom	458	Mollic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Mollic	mo	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	107,500
Ahferom	274	Mollic Leptosols Aric Fluvic Loamic	Leptosols	LP	Mollic	mo	Aric	ai	Fluvic	fv	Loamic	lo	n/a	10,000
Ahferom	459	Mollic Leptosols Aric Gleyic Loamic	Leptosols	LP	Mollic	mo	Aric	ai	Gleyic	gl	Loamic	lo	n/a	10,000
Ahferom	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	722,500
Ahferom	400	Skeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	32,500
Ahferom	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	35,000
Ahferom	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	98,038,330
Ahferom	325	Skeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	8,140,776
Ahferom	140	Skeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	1,865,000
Ahferom	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	457,500
Ahferom	468	Skeletal Leptosols Aric Gleyic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Gleyic	gl	Loamic	lo	n/a	137,500
Ahferom	469	Skeletal Leptosols Clayic Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Clayic	ce	Fluvic	fv	Gleyic	gl	n/a	172,500
Ahferom	3	Abruptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Fluvic	fv	n/a	35,000
Ahferom	420	Gleyic Luvisols Arenic Aric Fluvic	Luvisols	LV	Gleyic	gl	Arenic	ar	Aric	ai	Fluvic	fv	n/a	2,175,000
Ahferom	421	Gleyic Luvisols Aric Clayic Fluvic	Luvisols	LV	Gleyic	gl	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,337,500
Ahferom	422	Gleyic Luvisols Aric Fluvic Loamic	Luvisols	LV	Gleyic	gl	Aric	ai	Fluvic	fv	Loamic	lo	n/a	587,500
Ahferom	41	Leptic Luvisols Andic Aric Clayic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Clayic	ce	n/a	1,632,500
Ahferom	433	Leptic Luvisols Arenic Aric Colluvic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Colluvic	co	n/a	20,000
Ahferom	240	Leptic Luvisols Arenic Aric Fluvic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	n/a	7,757,500
Ahferom	45	Leptic Luvisols Aric Aridic Clayic	Luvisols	LV	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	7,500
Ahferom	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	4,000,000
Ahferom	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	15,000
Ahferom	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	299,481,214
Ahferom	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	37,500
Ahferom	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	220,000
Ahferom	434	Leptic Luvisols Aric Colluvic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Colluvic	co	Fluvic	fv	n/a	12,500
Ahferom	52	Leptic Luvisols Aric Fluvic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Hypereutric	je	n/a	40,000
Ahferom	53	Leptic Luvisols Aric Fluvic Loamic	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	11,950,000
Ahferom	243	Leptic Luvisols Aric Fluvic Ochric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Ochric	oh	n/a	7,500
Ahferom	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	32,500
Ahferom	437	Leptic Regosols Arenic Aric Fluvic	Regosols	RG	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	n/a	55,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Ahferom	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	246,323,552
Ahferom	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	80,000
Ahferom	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	232,500
Ahferom	60	Leptic Regosols Aric Fluvic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Geoabruptic	go	n/a	17,500
Ahferom	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	142,500
Ahferom	439	Leptic Regosols Clayic Fluvic Geoabruptic	Regosols	RG	Leptic	le	Clayic	ce	Fluvic	fv	Geoabruptic	go	n/a	26,027
Ahferom	440	Leptic Vertisols Albic Aric Calcaric	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Calcaric	ca	n/a	25,000
Ahferom	441	Leptic Vertisols Albic Aric Gleyic	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Gleyic	gl	n/a	842,500
Ahferom	444	Leptic Vertisols Albic Aric Mollic	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Mollic	mo	n/a	117,500
Ahferom	63	Leptic Vertisols Aric Calcaric Chernic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Chernic	ch	n/a	80,000
Ahferom	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	15,000
Ahferom	65	Leptic Vertisols Aric Calcaric Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gleyic	gl	n/a	1,238,513
Ahferom	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	954,096
Ahferom	69	Leptic Vertisols Aric Calcaric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mazic	mz	n/a	45,000
Ahferom	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	n/a	2,949,016
Ahferom	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	87,500
Ahferom	446	Leptic Vertisols Aric Chernic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gleyic	gl	n/a	70,000
Ahferom	384	Leptic Vertisols Aric Chernic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Mazic	mz	n/a	42,500
Ahferom	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	1,952,260
Ahferom	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	2,804,956
Ahferom	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	150,000
Ahferom	78	Leptic Vertisols Aric Gilgaic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mollic	mo	n/a	302,500
Ahferom	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	680,000
Ahferom	386	Leptic Vertisols Aric Gleyic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mazic	mz	n/a	1,596,912
Ahferom	82	Leptic Vertisols Aric Gleyic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mollic	mo	n/a	17,189,411
Ahferom	387	Leptic Vertisols Aric Gleyic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Ochric	oh	n/a	1,693,475
Ahferom	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	790,310
Ahferom	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	7,223,447
Ahferom	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	282,380
Ahferom	90	Leptic Vertisols Aric Mazic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Mazic	mz	Mollic	mo	n/a	966,171
Ahferom	448	Leptic Vertisols Aric Mazic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Mazic	mz	Ochric	oh	n/a	12,500
Ahferom	449	Leptic Vertisols Aric Mollic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Mollic	mo	Ochric	oh	n/a	3,144,798
Ahferom	464	Pellic Vertisols Aric Mazic Mollic	Vertisols	VR	Pellic	pe	Aric	ai	Mazic	mz	Mollic	mo	n/a	67,500
Ahferom	310	Salic Vertisols Aric Gleyic Mollic	Vertisols	VR	Salic	sz	Aric	ai	Gleyic	gl	Mollic	mo	n/a	82,500
Arsi Negele	218	Leptic Alisols Aric Clayic Cutanic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	1,490,000
Arsi Negele	219	Leptic Alisols Aric Clayic Fluvic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	5,058,529
Arsi Negele	220	Leptic Alisols Aric Clayic Humic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	1,947,500
Arsi Negele	364	Vertic Alisols Aric Clayic Cutanic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	91,853
Arsi Negele	365	Vertic Alisols Aric Clayic Fluvic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	n/a	177,500
Arsi Negele	366	Vertic Alisols Aric Clayic Humic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Humic	hu	n/a	285,000
Arsi Negele	170	Chromic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Chromic	cr	Alcalic	ax	Aric	ai	Colluvic	co	Water	7,500
Arsi Negele	173	Fluvic Arenosols Alcalic Aric Aridic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Aridic	ad	n/a	1,879,919
Arsi Negele	173	Fluvic Arenosols Alcalic Aric Aridic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Aridic	ad	Water	132,500
Arsi Negele	174	Fluvic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Colluvic	co	n/a	380,000
Arsi Negele	174	Fluvic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Colluvic	co	Water	12,350,553

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Arsi Negele	175	Fluvic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	140,000
Arsi Negele	175	Fluvic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Geoabruptic	go	Water	3,067,409
Arsi Negele	177	Fluvic Arenosols Alcalic Aric Ochric	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Ochric	oh	n/a	45,000
Arsi Negele	178	Fluvic Arenosols Aric Aridic Colluvic	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Colluvic	co	n/a	60,000
Arsi Negele	179	Fluvic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	702,500
Arsi Negele	180	Fluvic Arenosols Aric Aridic Humic	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Humic	hu	n/a	360,000
Arsi Negele	181	Fluvic Arenosols Aric Aridic Ochric	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Ochric	oh	n/a	135,000
Arsi Negele	182	Fluvic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	172,500
Arsi Negele	182	Fluvic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Geoabruptic	go	Water	1,235,000
Arsi Negele	222	Leptic Calcisols Aric Fluvic Loamic	Calcisols	CL	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	20,000
Arsi Negele	185	Fluvic Cambisols Alcalic Arenic Aric	Cambisols	CM	Fluvic	fv	Alcalic	ax	Arenic	ar	Aric	ai	n/a	12,500
Arsi Negele	186	Fluvic Cambisols Alcalic Aric Aridic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Aridic	ad	n/a	2,485,000
Arsi Negele	187	Fluvic Cambisols Alcalic Aric Clayic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Clayic	ce	n/a	112,500
Arsi Negele	187	Fluvic Cambisols Alcalic Aric Clayic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Clayic	ce	Water	1,727,883
Arsi Negele	188	Fluvic Cambisols Alcalic Aric Colluvic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Colluvic	co	n/a	42,500
Arsi Negele	189	Fluvic Cambisols Alcalic Aric Geoabruptic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	185,000
Arsi Negele	190	Fluvic Cambisols Alcalic Aric Humic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Humic	hu	n/a	12,500
Arsi Negele	191	Fluvic Cambisols Alcalic Aric Loamic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Loamic	lo	n/a	337,500
Arsi Negele	192	Fluvic Cambisols Alcalic Aric Ochric	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Ochric	oh	n/a	22,500
Arsi Negele	193	Fluvic Cambisols Arenic Aric Aridic	Cambisols	CM	Fluvic	fv	Arenic	ar	Aric	ai	Aridic	ad	n/a	140,000
Arsi Negele	194	Fluvic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Fluvic	fv	Arenic	ar	Aric	ai	Geoabruptic	go	Water	105,000
Arsi Negele	195	Fluvic Cambisols Aric Aridic Clayic	Cambisols	CM	Fluvic	fv	Aric	ai	Aridic	ad	Clayic	ce	n/a	12,500
Arsi Negele	196	Fluvic Cambisols Aric Aridic Colluvic	Cambisols	CM	Fluvic	fv	Aric	ai	Aridic	ad	Colluvic	co	n/a	22,500
Arsi Negele	197	Fluvic Cambisols Aric Aridic Geoabruptic	Cambisols	CM	Fluvic	fv	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	32,500
Arsi Negele	199	Fluvic Cambisols Aric Aridic Loamic	Cambisols	CM	Fluvic	fv	Aric	ai	Aridic	ad	Loamic	lo	n/a	587,500
Arsi Negele	200	Fluvic Cambisols Aric Clayic Colluvic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Colluvic	co	n/a	102,500
Arsi Negele	200	Fluvic Cambisols Aric Clayic Colluvic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Colluvic	co	Water	7,321,244
Arsi Negele	201	Fluvic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	247,500
Arsi Negele	201	Fluvic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Geoabruptic	go	Water	1,581,171
Arsi Negele	223	Leptic Cambisols Alcalic Aric Clayic	Cambisols	CM	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	Water	25,000
Arsi Negele	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	27,500
Arsi Negele	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	Water	140,000
Arsi Negele	226	Leptic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	25,000
Arsi Negele	226	Leptic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	Water	32,500
Arsi Negele	227	Leptic Fluvisols Alcalic Arenic Aric	Fluvisols	FL	Leptic	le	Alcalic	ax	Arenic	ar	Aric	ai	n/a	1,307,021
Arsi Negele	34	Leptic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Aridic	ad	n/a	19,786,368
Arsi Negele	34	Leptic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Aridic	ad	Water	307,500
Arsi Negele	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	45,460,789
Arsi Negele	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	Water	18,363,097
Arsi Negele	228	Leptic Fluvisols Alcalic Aric Geoabruptic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	690,000
Arsi Negele	229	Leptic Fluvisols Alcalic Aric Humic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Humic	hu	n/a	42,500
Arsi Negele	36	Leptic Fluvisols Alcalic Aric Loamic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Loamic	lo	n/a	4,504,714
Arsi Negele	230	Leptic Fluvisols Alcalic Aric Ochric	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Ochric	oh	n/a	6,254,058
Arsi Negele	231	Leptic Fluvisols Arenic Aric Aridic	Fluvisols	FL	Leptic	le	Arenic	ar	Aric	ai	Aridic	ad	n/a	1,437,419
Arsi Negele	232	Leptic Fluvisols Arenic Aric Geoabruptic	Fluvisols	FL	Leptic	le	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	20,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Arsi Negele	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	19,430,229
Arsi Negele	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	Water	110,000
Arsi Negele	233	Leptic Fluvisols Aric Aridic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	102,500
Arsi Negele	234	Leptic Fluvisols Aric Aridic Humic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Humic	hu	n/a	92,500
Arsi Negele	38	Leptic Fluvisols Aric Aridic Loamic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Loamic	lo	n/a	4,378,824
Arsi Negele	235	Leptic Fluvisols Aric Aridic Ochric	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Ochric	oh	n/a	20,389,140
Arsi Negele	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	12,597,086
Arsi Negele	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	Water	397,810
Arsi Negele	40	Leptic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	585,545
Arsi Negele	237	Leptic Fluvisols Aric Geoabruptic Ochric	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	7,500
Arsi Negele	295	Orthofluvic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Aridic	ad	n/a	40,000
Arsi Negele	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	n/a	1,444,373
Arsi Negele	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	3,253,541
Arsi Negele	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	Water	18,241
Arsi Negele	314	Skeletal Fluvisols Alcalic Arenic Aric	Fluvisols	FL	Skeletal	sk	Alcalic	ax	Arenic	ar	Aric	ai	n/a	10,000
Arsi Negele	315	Skeletal Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Skeletal	sk	Alcalic	ax	Aric	ai	Aridic	ad	n/a	110,000
Arsi Negele	319	Skeletal Fluvisols Alcalic Aric Loamic	Fluvisols	FL	Skeletal	sk	Alcalic	ax	Aric	ai	Loamic	lo	n/a	65,000
Arsi Negele	320	Skeletal Fluvisols Alcalic Aric Ochric	Fluvisols	FL	Skeletal	sk	Alcalic	ax	Aric	ai	Ochric	oh	n/a	15,000
Arsi Negele	323	Skeletal Fluvisols Aric Aridic Ochric	Fluvisols	FL	Skeletal	sk	Aric	ai	Aridic	ad	Ochric	oh	n/a	10,000
Arsi Negele	331	Sodic Fluvisols Alcalic Arenic Aric	Fluvisols	FL	Sodic	so	Alcalic	ax	Arenic	ar	Aric	ai	n/a	2,359,756
Arsi Negele	332	Sodic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Aridic	ad	n/a	6,616,071
Arsi Negele	333	Sodic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Clayic	ce	n/a	5,432,649
Arsi Negele	333	Sodic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Clayic	ce	Water	3,299,809
Arsi Negele	334	Sodic Fluvisols Alcalic Aric Geoabruptic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	85,000
Arsi Negele	335	Sodic Fluvisols Alcalic Aric Humic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Humic	hu	n/a	98,905
Arsi Negele	336	Sodic Fluvisols Alcalic Aric Loamic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Loamic	lo	n/a	3,925,767
Arsi Negele	337	Sodic Fluvisols Alcalic Aric Ochric	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Ochric	oh	n/a	4,616,907
Arsi Negele	338	Sodic Fluvisols Arenic Aric Aridic	Fluvisols	FL	Sodic	so	Arenic	ar	Aric	ai	Aridic	ad	n/a	727,849
Arsi Negele	339	Sodic Fluvisols Arenic Aric Geoabruptic	Fluvisols	FL	Sodic	so	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	17,500
Arsi Negele	340	Sodic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Sodic	so	Aric	ai	Aridic	ad	Clayic	ce	n/a	501,171
Arsi Negele	341	Sodic Fluvisols Aric Aridic Geoabruptic	Fluvisols	FL	Sodic	so	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	15,000
Arsi Negele	342	Sodic Fluvisols Aric Aridic Humic	Fluvisols	FL	Sodic	so	Aric	ai	Aridic	ad	Humic	hu	n/a	227,500
Arsi Negele	343	Sodic Fluvisols Aric Aridic Loamic	Fluvisols	FL	Sodic	so	Aric	ai	Aridic	ad	Loamic	lo	n/a	2,009,570
Arsi Negele	344	Sodic Fluvisols Aric Aridic Ochric	Fluvisols	FL	Sodic	so	Aric	ai	Aridic	ad	Ochric	oh	n/a	890,975
Arsi Negele	345	Sodic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Sodic	so	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	15,000
Arsi Negele	345	Sodic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Sodic	so	Aric	ai	Clayic	ce	Geoabruptic	go	Water	132,500
Arsi Negele	346	Sodic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Sodic	so	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	25,000
Arsi Negele	11	Cambic Leptosols Andic Aric Clayic	Leptosols	LP	Cambic	cm	Andic	an	Aric	ai	Clayic	ce	n/a	119,412
Arsi Negele	167	Cambic Leptosols Aric Aridic Clayic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Clayic	ce	n/a	4,579,488
Arsi Negele	168	Cambic Leptosols Aric Aridic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Fluvic	fv	n/a	5,100,000
Arsi Negele	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	865,000
Arsi Negele	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	8,122,082
Arsi Negele	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	Water	954,140
Arsi Negele	169	Cambic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Colluvic	co	Fluvic	fv	n/a	77,500
Arsi Negele	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	438,709

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Arsi Negele	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	Water	25,000
Arsi Negele	19	Cambic Leptosols Aric Fluvic Ochric	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Ochric	oh	n/a	215,000
Arsi Negele	21	Hyperskeletal Leptosols Andic Aric Clayic	Leptosols	LP	Hyperskeletal	jk	Andic	an	Aric	ai	Clayic	ce	Built-up	52,500
Arsi Negele	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,291,206
Arsi Negele	26	Hyperskeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	3,345,000
Arsi Negele	26	Hyperskeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Fluvic	fv	Water	22,500
Arsi Negele	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	152,500
Arsi Negele	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,722,890
Arsi Negele	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	25,000
Arsi Negele	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	Water	25,000
Arsi Negele	209	Hyperskeletal Leptosols Aric Clayic Salic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Salic	sz	n/a	32,500
Arsi Negele	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	165,000
Arsi Negele	211	Hyperskeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Humic	hu	n/a	225,000
Arsi Negele	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,171,376
Arsi Negele	212	Hyperskeletal Leptosols Aric Fluvic Ochric	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Ochric	oh	n/a	12,500
Arsi Negele	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	60,000
Arsi Negele	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	8,597,280
Arsi Negele	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	6,865,000
Arsi Negele	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,141,354
Arsi Negele	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	39,569,422
Arsi Negele	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	17,500
Arsi Negele	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Water	73,006
Arsi Negele	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	35,000
Arsi Negele	263	Lithic Leptosols Aric Clayic Humic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Humic	hu	n/a	35,000
Arsi Negele	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	596,405
Arsi Negele	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	927,500
Arsi Negele	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	2,413,886
Arsi Negele	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,527,963
Arsi Negele	106	Lithic Leptosols Aric Fluvic Ochric	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Ochric	oh	n/a	415,000
Arsi Negele	267	Lithic Leptosols Aric Gleyic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Gleyic	gl	Loamic	lo	n/a	7,500
Arsi Negele	108	Mollic Leptosols Andic Aric Clayic	Leptosols	LP	Mollic	mo	Andic	an	Aric	ai	Clayic	ce	n/a	312,500
Arsi Negele	108	Mollic Leptosols Andic Aric Clayic	Leptosols	LP	Mollic	mo	Andic	an	Aric	ai	Clayic	ce	Water	17,500
Arsi Negele	270	Mollic Leptosols Aric Aridic Clayic	Leptosols	LP	Mollic	mo	Aric	ai	Aridic	ad	Clayic	ce	n/a	130,000
Arsi Negele	271	Mollic Leptosols Aric Aridic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Aridic	ad	Fluvic	fv	n/a	7,500
Arsi Negele	272	Mollic Leptosols Aric Clayic Colluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Colluvic	co	n/a	282,500
Arsi Negele	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,827,337
Arsi Negele	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	Water	321,709
Arsi Negele	274	Mollic Leptosols Aric Fluvic Loamic	Leptosols	LP	Mollic	mo	Aric	ai	Fluvic	fv	Loamic	lo	n/a	10,000
Arsi Negele	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	82,500
Arsi Negele	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	17,708,068
Arsi Negele	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	7,500
Arsi Negele	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	32,500
Arsi Negele	287	Nudilithic Leptosols Aric Clayic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Humic	hu	n/a	27,500
Arsi Negele	288	Nudilithic Leptosols Aric Clayic Salic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Salic	sz	n/a	20,000
Arsi Negele	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	711,691

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Arsi Negele	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	1,242,806
Arsi Negele	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,572,500
Arsi Negele	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	489,234
Arsi Negele	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	6,718,247
Arsi Negele	135	Skeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	5,037,500
Arsi Negele	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,253,383
Arsi Negele	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	47,473,209
Arsi Negele	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	187,500
Arsi Negele	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	292,500
Arsi Negele	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	722,500
Arsi Negele	328	Skeletal Leptosols Aric Fluvic Ochric	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Ochric	oh	n/a	1,615,000
Arsi Negele	360	Umbric Leptosols Aric Clayic Fluvic	Leptosols	LP	Umbric	um	Aric	ai	Clayic	ce	Fluvic	fv	n/a	22,500
Arsi Negele	3	Abruptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Fluvic	fv	n/a	12,500
Arsi Negele	155	Albic Luvisols Aric Fluvic Loamic	Luvisols	LV	Albic	ab	Aric	ai	Fluvic	fv	Loamic	lo	n/a	70,000
Arsi Negele	156	Albic Luvisols Aridic Fluvic Loamic	Luvisols	LV	Albic	ab	Aridic	ad	Fluvic	fv	Loamic	lo	n/a	12,500
Arsi Negele	213	Irragric Luvisols Arenic Aric Fluvic	Luvisols	LV	Irragric	ir	Arenic	ar	Aric	ai	Fluvic	fv	n/a	22,500
Arsi Negele	213	Irragric Luvisols Arenic Aric Fluvic	Luvisols	LV	Irragric	ir	Arenic	ar	Aric	ai	Fluvic	fv	Water	122,500
Arsi Negele	214	Irragric Luvisols Aric Clayic Fluvic	Luvisols	LV	Irragric	ir	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,058,709
Arsi Negele	214	Irragric Luvisols Aric Clayic Fluvic	Luvisols	LV	Irragric	ir	Aric	ai	Clayic	ce	Fluvic	fv	Water	1,470,000
Arsi Negele	41	Leptic Luvisols Andic Aric Clayic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Clayic	ce	n/a	87,500
Arsi Negele	42	Leptic Luvisols Andic Aric Fluvic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Fluvic	fv	n/a	155,000
Arsi Negele	239	Leptic Luvisols Arenic Aric Aridic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Aridic	ad	n/a	115,000
Arsi Negele	240	Leptic Luvisols Arenic Aric Fluvic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	n/a	225,000
Arsi Negele	240	Leptic Luvisols Arenic Aric Fluvic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	Water	465,000
Arsi Negele	45	Leptic Luvisols Aric Aridic Clayic	Luvisols	LV	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	33,660,000
Arsi Negele	241	Leptic Luvisols Aric Aridic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Aridic	ad	Fluvic	fv	n/a	46,405,000
Arsi Negele	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	995,559
Arsi Negele	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	63,965,460
Arsi Negele	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Water	33,652,070
Arsi Negele	242	Leptic Luvisols Aric Clayic Humic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	5,179,900
Arsi Negele	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	5,284,119
Arsi Negele	50	Leptic Luvisols Aric Clayic Nitic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Nitic	ni	n/a	25,000
Arsi Negele	52	Leptic Luvisols Aric Fluvic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Hypereutric	je	n/a	19,276,209
Arsi Negele	53	Leptic Luvisols Aric Fluvic Loamic	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	5,311,591
Arsi Negele	243	Leptic Luvisols Aric Fluvic Ochric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Ochric	oh	n/a	882,500
Arsi Negele	244	Leptic Luvisols Aric Fluvic Siltic	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Siltic	sl	n/a	3,769,570
Arsi Negele	246	Leptic Luvisols Aridic Fluvic Hypereutric	Luvisols	LV	Leptic	le	Aridic	ad	Fluvic	fv	Hypereutric	je	n/a	25,000
Arsi Negele	247	Leptic Luvisols Aridic Fluvic Loamic	Luvisols	LV	Leptic	le	Aridic	ad	Fluvic	fv	Loamic	lo	n/a	82,070
Arsi Negele	368	Vertic Luvisols Arenic Aric Fluvic	Luvisols	LV	Vertic	vr	Arenic	ar	Aric	ai	Fluvic	fv	n/a	2,140,000
Arsi Negele	368	Vertic Luvisols Arenic Aric Fluvic	Luvisols	LV	Vertic	vr	Arenic	ar	Aric	ai	Fluvic	fv	Water	432,500
Arsi Negele	148	Vertic Luvisols Aric Aridic Clayic	Luvisols	LV	Vertic	vr	Aric	ai	Aridic	ad	Clayic	ce	n/a	10,000
Arsi Negele	369	Vertic Luvisols Aric Aridic Fluvic	Luvisols	LV	Vertic	vr	Aric	ai	Aridic	ad	Fluvic	fv	n/a	430,000
Arsi Negele	149	Vertic Luvisols Aric Clayic Cutanic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	107,500
Arsi Negele	150	Vertic Luvisols Aric Clayic Fluvic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	n/a	6,772,219
Arsi Negele	150	Vertic Luvisols Aric Clayic Fluvic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	Water	3,340,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Arsi Negele	370	Vertic Luvisols Aric Clayic Humic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Humic	hu	n/a	1,856,393
Arsi Negele	151	Vertic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Hypereutric	je	n/a	139,353
Arsi Negele	371	Vertic Luvisols Aric Fluvis Hypereutric	Luvisols	LV	Vertic	vr	Aric	ai	Fluvis	fv	Hypereutric	je	n/a	165,000
Arsi Negele	372	Vertic Luvisols Aric Fluvis Loamic	Luvisols	LV	Vertic	vr	Aric	ai	Fluvis	fv	Loamic	lo	n/a	1,145,000
Arsi Negele	376	Vertic Luvisols Aridic Fluvis Hypereutric	Luvisols	LV	Vertic	vr	Aridic	ad	Fluvis	fv	Hypereutric	je	n/a	42,500
Arsi Negele	304	Rhodic Nitisols Andic Aric Colluvic	Nitisols	NT	Rhodic	ro	Andic	an	Aric	ai	Colluvic	co	n/a	3,130,607
Arsi Negele	305	Rhodic Nitisols Andic Aric Humic	Nitisols	NT	Rhodic	ro	Andic	an	Aric	ai	Humic	hu	n/a	35,000
Arsi Negele	306	Rhodic Nitisols Aric Colluvic Humic	Nitisols	NT	Rhodic	ro	Aric	ai	Colluvic	co	Humic	hu	n/a	77,500
Arsi Negele	361	Umbric Nitisols Andic Aric Colluvic	Nitisols	NT	Umbric	um	Andic	an	Aric	ai	Colluvic	co	n/a	74,766
Arsi Negele	203	Fluvis Phaeozems Aric Chromic Clayic	Phaeozems	PH	Fluvis	fv	Aric	ai	Chromic	cr	Clayic	ce	n/a	60,000
Arsi Negele	203	Fluvis Phaeozems Aric Chromic Clayic	Phaeozems	PH	Fluvis	fv	Aric	ai	Chromic	cr	Clayic	ce	Water	7,020,000
Arsi Negele	204	Fluvis Phaeozems Aric Clayic Colluvic	Phaeozems	PH	Fluvis	fv	Aric	ai	Clayic	ce	Colluvic	co	n/a	78,241
Arsi Negele	204	Fluvis Phaeozems Aric Clayic Colluvic	Phaeozems	PH	Fluvis	fv	Aric	ai	Clayic	ce	Colluvic	co	Water	92,500
Arsi Negele	250	Leptic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Leptic	le	Aric	ai	Chromic	cr	Clayic	ce	Water	97,500
Arsi Negele	251	Leptic Phaeozems Aric Clayic Colluvic	Phaeozems	PH	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	10,000
Arsi Negele	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	1,548,279
Arsi Negele	55	Leptic Regosols Alcalic Aric Fluvis	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Fluvis	fv	n/a	180,000
Arsi Negele	252	Leptic Regosols Arenic Aric Aridic	Regosols	RG	Leptic	le	Arenic	ar	Aric	ai	Aridic	ad	n/a	7,500
Arsi Negele	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	23,876,151
Arsi Negele	57	Leptic Regosols Aric Aridic Fluvis	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Fluvis	fv	n/a	7,596,640
Arsi Negele	58	Leptic Regosols Aric Clayic Fluvis	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvis	fv	n/a	177,386,455
Arsi Negele	58	Leptic Regosols Aric Clayic Fluvis	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvis	fv	Built-up	40,000
Arsi Negele	58	Leptic Regosols Aric Clayic Fluvis	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvis	fv	Water	5,000
Arsi Negele	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	42,500
Arsi Negele	254	Leptic Regosols Aric Fluvis Humic	Regosols	RG	Leptic	le	Aric	ai	Fluvis	fv	Humic	hu	n/a	40,000
Arsi Negele	255	Leptic Regosols Aric Fluvis Lamellic	Regosols	RG	Leptic	le	Aric	ai	Fluvis	fv	Lamellic	ll	n/a	17,500
Arsi Negele	61	Leptic Regosols Aric Fluvis Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvis	fv	Loamic	lo	n/a	65,000
Arsi Negele	62	Leptic Regosols Aric Fluvis Ochric	Regosols	RG	Leptic	le	Aric	ai	Fluvis	fv	Ochric	oh	n/a	1,200,000
Arsi Negele	329	Skeletal Regosols Aric Aridic Fluvis	Regosols	RG	Skeletal	sk	Aric	ai	Aridic	ad	Fluvis	fv	n/a	52,500
Arsi Negele	349	Sodic Regosols Aric Aridic Fluvis	Regosols	RG	Sodic	so	Aric	ai	Aridic	ad	Fluvis	fv	n/a	7,500
Arsi Negele	359	Stagnic Regosols Aric Clayic Fluvis	Regosols	RG	Stagnic	st	Aric	ai	Clayic	ce	Fluvis	fv	n/a	5,954
Arsi Negele	280	Mollic Solonchaks Alcalic Calcaric Clayic	Solonchaks	SC	Mollic	mo	Alcalic	ax	Calcaric	ca	Clayic	ce	n/a	115,055
Arsi Negele	280	Mollic Solonchaks Alcalic Calcaric Clayic	Solonchaks	SC	Mollic	mo	Alcalic	ax	Calcaric	ca	Clayic	ce	Water	2,013,159
Arsi Negele	282	Mollic Solonchaks Calcaric Clayic Colluvic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Colluvic	co	n/a	30,310
Arsi Negele	282	Mollic Solonchaks Calcaric Clayic Colluvic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Colluvic	co	Water	7,006,345
Arsi Negele	283	Mollic Solonchaks Calcaric Clayic Ochric	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Ochric	oh	n/a	135,012
Arsi Negele	283	Mollic Solonchaks Calcaric Clayic Ochric	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Ochric	oh	Water	214,090,739
Arsi Negele	352	Sodic Solonchaks Calcaric Clayic Ochric	Solonchaks	SC	Sodic	so	Calcaric	ca	Clayic	ce	Ochric	oh	Water	927,500
Arsi Negele	157	Calcic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Calcic	cc	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	10,000
Arsi Negele	158	Calcic Vertisols Aric Calcaric Humic	Vertisols	VR	Calcic	cc	Aric	ai	Calcaric	ca	Humic	hu	n/a	385,000
Arsi Negele	159	Calcic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Calcic	cc	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	1,732,500
Arsi Negele	159	Calcic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Calcic	cc	Aric	ai	Calcaric	ca	Hypereutric	je	Water	190,000
Arsi Negele	160	Calcic Vertisols Aric Calcaric Mazic	Vertisols	VR	Calcic	cc	Aric	ai	Calcaric	ca	Mazic	mz	n/a	20,000
Arsi Negele	161	Calcic Vertisols Aric Gilgaic Humic	Vertisols	VR	Calcic	cc	Aric	ai	Gilgaic	gg	Humic	hu	n/a	105,000
Arsi Negele	6	Calcic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Calcic	cc	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	37,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Arsi Negele	162	Calcic Vertisols Aric Humic Hypereutric	Vertisols	VR	Calcic	cc	Aric	ai	Humic	hu	Hypereutric	je	n/a	42,500
Arsi Negele	163	Calcic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Calcic	cc	Aric	ai	Hypereutric	je	Mollic	mo	n/a	7,500
Arsi Negele	215	Irragric Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	15,000
Arsi Negele	63	Leptic Vertisols Aric Calcaric Chernic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Chernic	ch	n/a	185,000
Arsi Negele	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	43,544,793
Arsi Negele	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	Built-up	1,077,500
Arsi Negele	65	Leptic Vertisols Aric Calcaric Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gleyic	gl	n/a	7,500
Arsi Negele	67	Leptic Vertisols Aric Calcaric Humic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Humic	hu	n/a	22,591,171
Arsi Negele	67	Leptic Vertisols Aric Calcaric Humic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Humic	hu	Built-up	72,500
Arsi Negele	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	228,781,997
Arsi Negele	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Built-up	202,500
Arsi Negele	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Water	3,365,000
Arsi Negele	69	Leptic Vertisols Aric Calcaric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mazic	mz	n/a	55,000
Arsi Negele	69	Leptic Vertisols Aric Calcaric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mazic	mz	Water	365,000
Arsi Negele	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	n/a	305,000
Arsi Negele	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	Water	162,500
Arsi Negele	72	Leptic Vertisols Aric Calcaric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Skeletic	sk	n/a	15,000
Arsi Negele	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	6,642,500
Arsi Negele	256	Leptic Vertisols Aric Chernic Humic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Humic	hu	n/a	27,500
Arsi Negele	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	12,786,853
Arsi Negele	258	Leptic Vertisols Aric Gilgaic Humic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Humic	hu	n/a	12,692,500
Arsi Negele	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	80,036,547
Arsi Negele	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	77,500
Arsi Negele	80	Leptic Vertisols Aric Gilgaic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Skeletic	sk	n/a	6,853
Arsi Negele	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	57,500
Arsi Negele	82	Leptic Vertisols Aric Gleyic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mollic	mo	n/a	10,000
Arsi Negele	83	Leptic Vertisols Aric Gleyic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Skeletic	sk	n/a	25,000
Arsi Negele	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	555,000
Arsi Negele	84	Leptic Vertisols Aric Humic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Hypereutric	je	n/a	13,813,152
Arsi Negele	85	Leptic Vertisols Aric Humic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Skeletic	sk	n/a	17,500
Arsi Negele	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	6,407,323
Arsi Negele	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	Built-up	7,500
Arsi Negele	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	94,918,572
Arsi Negele	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	Built-up	7,500
Arsi Negele	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	4,120,000
Arsi Negele	89	Leptic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Skeletic	sk	n/a	10,485,261
Arsi Negele	92	Leptic Vertisols Aric Mollic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Mollic	mo	Skeletic	sk	n/a	25,290
Arsi Negele	299	Pellic Vertisols Aric Calcaric Humic	Vertisols	VR	Pellic	pe	Aric	ai	Calcaric	ca	Humic	hu	n/a	395,000
Arsi Negele	118	Pellic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Pellic	pe	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	207,500
Arsi Negele	300	Pellic Vertisols Aric Gilgaic Humic	Vertisols	VR	Pellic	pe	Aric	ai	Gilgaic	gg	Humic	hu	n/a	612,500
Arsi Negele	120	Pellic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Pellic	pe	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	52,500
Arsi Negele	301	Pellic Vertisols Aric Humic Hypereutric	Vertisols	VR	Pellic	pe	Aric	ai	Humic	hu	Hypereutric	je	n/a	60,000
Arsi Negele	124	Salic Vertisols Aric Calcaric Chernic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Chernic	ch	Water	57,500
Arsi Negele	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	929,368
Arsi Negele	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	Water	18,346,058

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Arsi Negele	128	Salic Vertisols Aric Calcaric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mazic	mz	n/a	20,000
Arsi Negele	128	Salic Vertisols Aric Calcaric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mazic	mz	Water	21,928,755
Arsi Negele	129	Salic Vertisols Aric Calcaric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mollic	mo	n/a	154,271
Arsi Negele	129	Salic Vertisols Aric Calcaric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mollic	mo	Water	50,862,157
Arsi Negele	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	n/a	10,000
Arsi Negele	312	Salic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mollic	mo	n/a	20,000
Arsi Negele	313	Salic Vertisols Aric Mazic Mollic	Vertisols	VR	Salic	sz	Aric	ai	Mazic	mz	Mollic	mo	Water	37,500
Arsi Negele	353	Sodic Vertisols Aric Calcaric Chernic	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Chernic	ch	Water	15,000
Arsi Negele	143	Sodic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	17,500
Arsi Negele	145	Sodic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	1,901,316
Arsi Negele	145	Sodic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Hypereutric	je	Water	952,500
Arsi Negele	354	Sodic Vertisols Aric Calcaric Mazic	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Mazic	mz	Water	615,000
Arsi Negele	355	Sodic Vertisols Aric Calcaric Mollic	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Mollic	mo	n/a	30,000
Deder	682	Chromic Arenosols Aric Colluvic Humic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Humic	hu	n/a	10,000
Deder	381	Chromic Arenosols Aric Colluvic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Ochric	oh	n/a	27,500
Deder	750	Chromic Arenosols Aric Geoabruptic Humic	Arenosols	AR	Chromic	cr	Aric	ai	Geoabruptic	go	Humic	hu	n/a	12,500
Deder	181	Fluvic Arenosols Aric Aridic Ochric	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Ochric	oh	n/a	15,000
Deder	382	Fluvic Arenosols Aric Colluvic Ochric	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Ochric	oh	n/a	42,500
Deder	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	285,000
Deder	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	287,500
Deder	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	n/a	400,000
Deder	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	50,000
Deder	11	Cambic Leptosols Andic Aric Clayic	Leptosols	LP	Cambic	cm	Andic	an	Aric	ai	Clayic	ce	n/a	17,500
Deder	167	Cambic Leptosols Aric Aridic Clayic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Clayic	ce	n/a	65,000
Deder	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	229,353
Deder	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	10,000
Deder	21	Hyperskeletal Leptosols Andic Aric Clayic	Leptosols	LP	Hyperskeletal	jk	Andic	an	Aric	ai	Clayic	ce	n/a	7,500
Deder	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	167,500
Deder	26	Hyperskeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	50,000
Deder	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,500
Deder	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,181,475
Deder	211	Hyperskeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Humic	hu	n/a	35,000
Deder	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	80,000
Deder	388	Lithic Leptosols Andic Arenic Aric	Leptosols	LP	Lithic	li	Andic	an	Arenic	ar	Aric	ai	n/a	7,500
Deder	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	10,536,663
Deder	95	Lithic Leptosols Andic Aric Fluvic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Fluvic	fv	n/a	876,908
Deder	389	Lithic Leptosols Arenic Aric Aridic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Aridic	ad	n/a	40,000
Deder	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	112,500
Deder	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	14,974,514
Deder	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	Built-up	5,000
Deder	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	3,040,000
Deder	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	36,991,439
Deder	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	Built-up	850,463
Deder	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	339,474,818
Deder	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	256,209

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Deder	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	4,946,873
Deder	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	2,536,478
Deder	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	16,528,588
Deder	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	18,407,497
Deder	108	Mollic Leptosols Andic Aric Clayic	Leptosols	LP	Mollic	mo	Andic	an	Aric	ai	Clayic	ce	n/a	32,500
Deder	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	219,119
Deder	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	232,500
Deder	285	Nudilithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Fluvic	fv	n/a	22,500
Deder	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	20,737
Deder	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	3,024,648
Deder	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	82,500
Deder	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	195,000
Deder	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	235,000
Deder	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	341,330
Deder	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	2,288,310
Deder	131	Skeletal Leptosols Andic Aric Fluvic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Fluvic	fv	n/a	15,000
Deder	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	3,873,952
Deder	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	2,413,740
Deder	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	Built-up	12,500
Deder	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	101,705,084
Deder	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	35,000
Deder	140	Skeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	62,500
Deder	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	647,500
Deder	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	600,000
Deder	360	Umbric Leptosols Aric Clayic Fluvic	Leptosols	LP	Umbric	um	Aric	ai	Clayic	ce	Fluvic	fv	n/a	110,000
Deder	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	30,000
Deder	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	8,656,159
Deder	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	12,685,486
Deder	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	280,000
Deder	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,005,945
Deder	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	162,782,384
Deder	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	37,500
Deder	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	15,000
Deder	65	Leptic Vertisols Aric Calcaric Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gleyic	gl	n/a	102,500
Deder	67	Leptic Vertisols Aric Calcaric Humic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Humic	hu	n/a	32,500
Deder	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	2,261,424
Deder	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Built-up	2,500
Deder	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	n/a	350,000
Deder	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	Built-up	30,000
Deder	72	Leptic Vertisols Aric Calcaric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Skeletic	sk	n/a	974,608
Deder	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	57,500
Deder	384	Leptic Vertisols Aric Chernic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Mazic	mz	n/a	27,500
Deder	75	Leptic Vertisols Aric Chernic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Skeletic	sk	n/a	17,500
Deder	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	40,000
Deder	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	795,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Deder	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	10,000
Deder	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	102,500
Deder	78	Leptic Vertisols Aric Gilgaic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mollic	mo	n/a	22,500
Deder	80	Leptic Vertisols Aric Gilgaic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Skeletic	sk	n/a	197,500
Deder	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	1,910,345
Deder	386	Leptic Vertisols Aric Gleyic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mazic	mz	n/a	20,000
Deder	82	Leptic Vertisols Aric Gleyic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mollic	mo	n/a	492,500
Deder	387	Leptic Vertisols Aric Gleyic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Ochric	oh	n/a	10,000
Deder	83	Leptic Vertisols Aric Gleyic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Skeletic	sk	n/a	1,804,774
Deder	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	7,500
Deder	84	Leptic Vertisols Aric Humic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Hypereutric	je	n/a	575,000
Deder	260	Leptic Vertisols Aric Humic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Mollic	mo	n/a	240,000
Deder	85	Leptic Vertisols Aric Humic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Skeletic	sk	n/a	45,000
Deder	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	313,472
Deder	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	1,957,109
Deder	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	42,500
Deder	89	Leptic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Skeletic	sk	n/a	4,448,688
Deder	89	Leptic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Skeletic	sk	Built-up	10,000
Deder	90	Leptic Vertisols Aric Mazic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Mazic	mz	Mollic	mo	n/a	12,500
Deder	91	Leptic Vertisols Aric Mazic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Mazic	mz	Skeletic	sk	n/a	50,000
Deder	449	Leptic Vertisols Aric Mollic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Mollic	mo	Ochric	oh	n/a	7,500
Deder	92	Leptic Vertisols Aric Mollic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Mollic	mo	Skeletic	sk	n/a	1,824,531
Deder	755	Pellic Vertisols Aric Gleyic Skeletic	Vertisols	VR	Pellic	pe	Aric	ai	Gleyic	gl	Skeletic	sk	n/a	35,000
Doba	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	12,500
Doba	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	65,000
Doba	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	35,000
Doba	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	125,000
Doba	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	20,000
Doba	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,877,550
Doba	169	Cambic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Colluvic	co	Fluvic	fv	n/a	215,000
Doba	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,147,500
Doba	28	Hyperskeletic Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	262,070
Doba	388	Lithic Leptosols Andic Arenic Aric	Leptosols	LP	Lithic	li	Andic	an	Arenic	ar	Aric	ai	n/a	3,545,310
Doba	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	14,961,449
Doba	95	Lithic Leptosols Andic Aric Fluvic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Fluvic	fv	n/a	5,266,906
Doba	389	Lithic Leptosols Arenic Aric Aridic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Aridic	ad	n/a	1,415,000
Doba	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	852,500
Doba	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	2,635,000
Doba	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	45,056,295
Doba	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	Built-up	8,237
Doba	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	18,302,307
Doba	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	24,915,106
Doba	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	Built-up	125,000
Doba	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	185,117,813
Doba	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	87,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Doba	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	12,465,148
Doba	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	5,039,414
Doba	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	12,128,646
Doba	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	29,190,079
Doba	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	Built-up	27,500
Doba	110	Nudilithic Leptosols Andic Aric Clayic	Leptosols	LP	Nudilithic	nt	Andic	an	Aric	ai	Clayic	ce	n/a	567,500
Doba	392	Nudilithic Leptosols Andic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Andic	an	Aric	ai	Fluvic	fv	n/a	515,000
Doba	393	Nudilithic Leptosols Arenic Aric Aridic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Aridic	ad	n/a	25,000
Doba	394	Nudilithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Colluvic	co	n/a	7,500
Doba	395	Nudilithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Fluvic	fv	n/a	352,500
Doba	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,529,823
Doba	285	Nudilithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Fluvic	fv	n/a	3,272,500
Doba	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	182,500
Doba	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	5,460,758
Doba	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	137,500
Doba	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	1,025,000
Doba	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	1,040,000
Doba	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,063,893
Doba	397	Skeletal Leptosols Andic Arenic Aric	Leptosols	LP	Skeletal	sk	Andic	an	Arenic	ar	Aric	ai	n/a	37,500
Doba	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	9,203,954
Doba	131	Skeletal Leptosols Andic Aric Fluvic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Fluvic	fv	n/a	165,000
Doba	400	Skeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	82,500
Doba	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	23,388,263
Doba	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	Built-up	25,000
Doba	135	Skeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	1,117,500
Doba	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	24,032,350
Doba	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	Built-up	87,500
Doba	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	249,739,988
Doba	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	62,500
Doba	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	3,482,500
Doba	140	Skeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	817,070
Doba	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	667,500
Doba	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	9,057,768
Doba	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	3,987,500
Doba	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	14,905,829
Doba	150	Vertic Luvisols Aric Clayic Fluvic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	n/a	12,500
Doba	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	50,000
Doba	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,702,500
Doba	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	50,565,271
Doba	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	20,000
Doba	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	149,570
Doba	65	Leptic Vertisols Aric Calcaric Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gleyic	gl	n/a	95,000
Doba	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	19,845,000
Doba	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	862,500
Doba	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	7,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Doba	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	6,152,419
Doba	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	15,000
Doba	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	1,488,706
Doba	82	Leptic Vertisols Aric Gleyic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mollic	mo	n/a	107,500
Doba	83	Leptic Vertisols Aric Gleyic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Skeletic	sk	n/a	7,500
Doba	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	22,500
Doba	84	Leptic Vertisols Aric Humic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Hypereutric	je	n/a	175,000
Doba	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	5,227,500
Doba	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	392,500
Doba	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	4,950,000
Doba	89	Leptic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Skeletic	sk	n/a	192,500
Enbise Sar Midir	407	Chromic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Chromic	cr	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	9,353
Enbise Sar Midir	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	43,706
Enbise Sar Midir	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	126,945
Enbise Sar Midir	40	Leptic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	57,500
Enbise Sar Midir	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	22,500
Enbise Sar Midir	21	Hyperskeletic Leptosols Andic Aric Clayic	Leptosols	LP	Hyperskeletic	jk	Andic	an	Aric	ai	Clayic	ce	n/a	47,500
Enbise Sar Midir	27	Hyperskeletic Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	75,138,291
Enbise Sar Midir	27	Hyperskeletic Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Clayic	ce	Colluvic	co	Built-up	127,500
Enbise Sar Midir	28	Hyperskeletic Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	33,363,094
Enbise Sar Midir	29	Hyperskeletic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	1,484,766
Enbise Sar Midir	671	Hyperskeletic Leptosols Aric Colluvic Loamic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Colluvic	co	Loamic	lo	n/a	252,500
Enbise Sar Midir	211	Hyperskeletic Leptosols Aric Fluvic Humic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Fluvic	fv	Humic	hu	n/a	730,000
Enbise Sar Midir	30	Hyperskeletic Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	8,323,603
Enbise Sar Midir	95	Lithic Leptosols Andic Aric Fluvic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Fluvic	fv	n/a	17,500
Enbise Sar Midir	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	12,500
Enbise Sar Midir	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	184,313,797
Enbise Sar Midir	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	Built-up	115,000
Enbise Sar Midir	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	64,640,224
Enbise Sar Midir	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	105,000
Enbise Sar Midir	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	21,297,369
Enbise Sar Midir	580	Lithic Leptosols Aric Colluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Humic	hu	n/a	40,000
Enbise Sar Midir	581	Lithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Loamic	lo	n/a	100,000
Enbise Sar Midir	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	3,954,847
Enbise Sar Midir	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	20,411,323
Enbise Sar Midir	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	172,500
Enbise Sar Midir	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	31,893,848
Enbise Sar Midir	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	Built-up	7,500
Enbise Sar Midir	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,504,570
Enbise Sar Midir	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	280,000
Enbise Sar Midir	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	1,150,954
Enbise Sar Midir	600	Nudilithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Loamic	lo	n/a	115,000
Enbise Sar Midir	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	30,000
Enbise Sar Midir	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	146,853
Enbise Sar Midir	130	Skeletic Leptosols Andic Aric Clayic	Leptosols	LP	Skeletic	sk	Andic	an	Aric	ai	Clayic	ce	n/a	99,842

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Enbise Sar Midir	131	Skeletal Leptosols Andic Aric Fluvic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Fluvic	fv	n/a	70,000
Enbise Sar Midir	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	70,000
Enbise Sar Midir	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	297,722,199
Enbise Sar Midir	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	50,954,455
Enbise Sar Midir	325	Skeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	72,500
Enbise Sar Midir	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	20,603,159
Enbise Sar Midir	607	Skeletal Leptosols Aric Colluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Humic	hu	n/a	402,500
Enbise Sar Midir	678	Skeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Loamic	lo	n/a	550,000
Enbise Sar Midir	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	47,500
Enbise Sar Midir	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,887,891
Enbise Sar Midir	401	Abruptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Colluvic	co	n/a	1,579,412
Enbise Sar Midir	2	Abruptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Cutanic	ct	n/a	2,478,905
Enbise Sar Midir	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	295,310
Enbise Sar Midir	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	3,504,365
Enbise Sar Midir	242	Leptic Luvisols Aric Clayic Humic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	10,000
Enbise Sar Midir	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	322,500
Enbise Sar Midir	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	65,856,155
Enbise Sar Midir	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	10,000
Enbise Sar Midir	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	75,000
Enbise Sar Midir	253	Leptic Regosols Aric Clayic Humic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	80,000
Enbise Sar Midir	577	Leptic Regosols Aric Clayic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Lamellic	ll	n/a	720,000
Enbise Sar Midir	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	57,500
Enbise Sar Midir	672	Irragric Vertisols Aric Chernic Gilgaic	Vertisols	VR	Irragric	ir	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	110,000
Enbise Sar Midir	673	Irragric Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	64,101
Enbise Sar Midir	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	32,500
Enbise Sar Midir	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	139,063,779
Enbise Sar Midir	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	Built-up	20,000
Enbise Sar Midir	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	3,646,481
Enbise Sar Midir	384	Leptic Vertisols Aric Chernic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Mazic	mz	n/a	168,006
Enbise Sar Midir	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	180,000
Enbise Sar Midir	258	Leptic Vertisols Aric Gilgaic Humic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Humic	hu	n/a	235,000
Enbise Sar Midir	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	43,762,258
Enbise Sar Midir	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	722,500
Enbise Sar Midir	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	9,335
Enbise Sar Midir	84	Leptic Vertisols Aric Humic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Hypereutric	je	n/a	15,000
Enbise Sar Midir	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	3,325,423
Enbise Sar Midir	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	264,191
Enbise Sar Midir	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	426,835
Enbise Sar Midir	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	268,423
Enbise Sar Midir	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	n/a	95,487
Enbise Sar Midir	312	Salic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mollic	mo	n/a	191,411
Habru	170	Chromic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Chromic	cr	Alcalic	ax	Aric	ai	Colluvic	co	n/a	7,500
Habru	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	30,000
Habru	381	Chromic Arenosols Aric Colluvic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Ochric	oh	n/a	152,500
Habru	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	425,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Habru	36	Leptic Fluvisols Alcalic Aric Loamic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Loamic	lo	n/a	50,000
Habru	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	57,500
Habru	38	Leptic Fluvisols Aric Aridic Loamic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Loamic	lo	n/a	285,000
Habru	40	Leptic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	55,000
Habru	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	82,500
Habru	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,337,701
Habru	492	Hyperskeletal Leptosols Arenic Aric Colluvic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Colluvic	co	n/a	20,000
Habru	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	332,500
Habru	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	26,770,127
Habru	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	32,500
Habru	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,333,829
Habru	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	897,500
Habru	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	5,510,000
Habru	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	12,500
Habru	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	25,448,953
Habru	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	171,244,912
Habru	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	16,687,194
Habru	581	Lithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Loamic	lo	n/a	1,036,261
Habru	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	7,500
Habru	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	962,122
Habru	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	62,773,836
Habru	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	10,000
Habru	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	Water	57,500
Habru	395	Nudilithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Fluvic	fv	n/a	27,500
Habru	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	1,655,000
Habru	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	30,356,614
Habru	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	800,000
Habru	600	Nudilithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Loamic	lo	n/a	10,000
Habru	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	32,500
Habru	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	16,222,348
Habru	399	Skeletal Leptosols Arenic Aric Colluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Colluvic	co	n/a	227,500
Habru	400	Skeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	97,500
Habru	135	Skeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	12,500
Habru	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	39,147,075
Habru	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	301,217,726
Habru	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	2,500
Habru	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Water	192,500
Habru	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	10,351,209
Habru	678	Skeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Loamic	lo	n/a	3,602,500
Habru	140	Skeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	10,000
Habru	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	289,140
Habru	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	62,818,202
Habru	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	52,500
Habru	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	87,070
Habru	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	147,880

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Habru	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	21,876,821
Habru	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,065,146
Habru	741	Calcic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Calcic	cc	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	75,000
Habru	6	Calcic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Calcic	cc	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	10,000
Habru	734	Irragric Vertisols Aric Gilgaic Grumic	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	35,052,010
Habru	673	Irragric Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	36,720,074
Habru	673	Irragric Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	7,500
Habru	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	1,578,005
Habru	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	35,000
Habru	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	376,848,624
Habru	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	Built-up	42,500
Habru	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	Water	7,500
Habru	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	128,315,953
Habru	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	1,150,000
Habru	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Water	15,000
Habru	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	22,500
Habru	79	Leptic Vertisols Aric Gilgaic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Ochric	oh	n/a	110,000
Habru	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	525,000
Habru	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	85,000
Habru	125	Salic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	10,000
Habru	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	42,500
Habru	737	Salic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	3,119,247
Habru	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	774,598
Habru	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	Water	210,000
Habru	738	Salic Vertisols Aric Gilgaic Ochric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Ochric	oh	n/a	20,000
Habru	740	Sodic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Sodic	so	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	225,000
Habru	356	Sodic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	117,500
Hawzen	476	Albic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Albic	ab	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	780,000
Hawzen	403	Albic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Albic	ab	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	1,707,841
Hawzen	404	Albic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Albic	ab	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	1,364,766
Hawzen	478	Albic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Albic	ab	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	26,495
Hawzen	407	Chromic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Chromic	cr	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	37,500
Hawzen	479	Chromic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	77,500
Hawzen	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	16,319,833
Hawzen	408	Chromic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Chromic	cr	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	311,835
Hawzen	480	Chromic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	300,000
Hawzen	175	Fluvic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	186,967
Hawzen	179	Fluvic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	502,266
Hawzen	182	Fluvic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	17,958,268
Hawzen	183	Fluvic Arenosols Aric Geoabruptic Humic	Arenosols	AR	Fluvic	fv	Aric	ai	Geoabruptic	go	Humic	hu	n/a	25,000
Hawzen	410	Fluvic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Fluvic	fv	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	242,500
Hawzen	184	Fluvic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Fluvic	fv	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	185,000
Hawzen	411	Gleyic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Gleyic	gl	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	1,820,000
Hawzen	413	Gleyic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	1,992,663
Hawzen	414	Gleyic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	43,845,421

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Hawzen	414	Gleyic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Geoabruptic	go	Built-up	10,000
Hawzen	483	Gleyic Arenosols Aric Geoabruptic Humic	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Humic	hu	n/a	385,000
Hawzen	415	Gleyic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	23,365,263
Hawzen	416	Gleyic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	11,267,500
Hawzen	187	Fluvic Cambisols Alcalic Aric Clayic	Cambisols	CM	Fluvic	fv	Alcalic	ax	Aric	ai	Clayic	ce	n/a	90,000
Hawzen	194	Fluvic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Fluvic	fv	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	762,500
Hawzen	200	Fluvic Cambisols Aric Clayic Colluvic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Colluvic	co	n/a	87,500
Hawzen	201	Fluvic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	39,764,082
Hawzen	485	Gleyic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Gleyic	gl	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	37,500
Hawzen	419	Gleyic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Gleyic	gl	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	11,889,032
Hawzen	427	Leptic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Leptic	le	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	32,500
Hawzen	383	Leptic Cambisols Aric Aridic Clayic	Cambisols	CM	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	145,000
Hawzen	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	4,088,006
Hawzen	226	Leptic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	73,931,008
Hawzen	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	17,500
Hawzen	232	Leptic Fluvisols Arenic Aric Geoabruptic	Fluvisols	FL	Leptic	le	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	135,000
Hawzen	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	15,000
Hawzen	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	52,116,416
Hawzen	237	Leptic Fluvisols Aric Geoabruptic Ochric	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	352,500
Hawzen	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	65,000
Hawzen	423	Hyperskeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	230,000
Hawzen	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	30,000
Hawzen	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	72,500
Hawzen	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	18,661,032
Hawzen	494	Hyperskeletal Leptosols Clayic Fluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Clayic	ce	Fluvic	fv	Gleyic	gl	n/a	100,000
Hawzen	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	22,500
Hawzen	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	57,500
Hawzen	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	4,137,500
Hawzen	451	Lithic Leptosols Arenic Fluvic Gleyic	Leptosols	LP	Lithic	li	Arenic	ar	Fluvic	fv	Gleyic	gl	n/a	230,000
Hawzen	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	142,500
Hawzen	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	4,420,855
Hawzen	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	138,668,916
Hawzen	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	347,500
Hawzen	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	65,000
Hawzen	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	15,000
Hawzen	453	Lithic Leptosols Clayic Fluvic Gleyic	Leptosols	LP	Lithic	li	Clayic	ce	Fluvic	fv	Gleyic	gl	n/a	2,315,000
Hawzen	108	Mollic Leptosols Andic Aric Clayic	Leptosols	LP	Mollic	mo	Andic	an	Aric	ai	Clayic	ce	n/a	10,000
Hawzen	272	Mollic Leptosols Aric Clayic Colluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Colluvic	co	n/a	27,500
Hawzen	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	968,765
Hawzen	395	Nudilithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Fluvic	fv	n/a	12,500
Hawzen	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	225,000
Hawzen	400	Skeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	371,912
Hawzen	504	Skeletal Leptosols Arenic Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Arenic	ar	Fluvic	fv	Gleyic	gl	n/a	92,500
Hawzen	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	15,000
Hawzen	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,502,384

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Hawzen	469	Skeletal Leptosols Clayic Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Clayic	ce	Fluvic	fv	Gleyic	gl	n/a	95,000
Hawzen	486	Gleyic Luvisols Andic Aric Clayic	Luvisols	LV	Gleyic	gl	Andic	an	Aric	ai	Clayic	ce	n/a	7,500
Hawzen	488	Gleyic Luvisols Arenic Aric Colluvic	Luvisols	LV	Gleyic	gl	Arenic	ar	Aric	ai	Colluvic	co	n/a	475,000
Hawzen	420	Gleyic Luvisols Arenic Aric Fluvic	Luvisols	LV	Gleyic	gl	Arenic	ar	Aric	ai	Fluvic	fv	n/a	3,597,500
Hawzen	420	Gleyic Luvisols Arenic Aric Fluvic	Luvisols	LV	Gleyic	gl	Arenic	ar	Aric	ai	Fluvic	fv	Built-up	27,500
Hawzen	490	Gleyic Luvisols Aric Clayic Colluvic	Luvisols	LV	Gleyic	gl	Aric	ai	Clayic	ce	Colluvic	co	n/a	210,000
Hawzen	421	Gleyic Luvisols Aric Clayic Fluvic	Luvisols	LV	Gleyic	gl	Aric	ai	Clayic	ce	Fluvic	fv	n/a	37,955,756
Hawzen	421	Gleyic Luvisols Aric Clayic Fluvic	Luvisols	LV	Gleyic	gl	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	2,500
Hawzen	422	Gleyic Luvisols Aric Fluvic Loamic	Luvisols	LV	Gleyic	gl	Aric	ai	Fluvic	fv	Loamic	lo	n/a	55,000
Hawzen	491	Gleyic Luvisols Aric Fluvic Ochric	Luvisols	LV	Gleyic	gl	Aric	ai	Fluvic	fv	Ochric	oh	n/a	7,500
Hawzen	41	Leptic Luvisols Andic Aric Clayic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Clayic	ce	n/a	65,000
Hawzen	239	Leptic Luvisols Arenic Aric Aridic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Aridic	ad	n/a	155,000
Hawzen	433	Leptic Luvisols Arenic Aric Colluvic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Colluvic	co	n/a	962,500
Hawzen	240	Leptic Luvisols Arenic Aric Fluvic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	n/a	9,396,244
Hawzen	45	Leptic Luvisols Aric Aridic Clayic	Luvisols	LV	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	330,000
Hawzen	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	2,440,741
Hawzen	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	79,758,307
Hawzen	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	7,500
Hawzen	53	Leptic Luvisols Aric Fluvic Loamic	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	162,500
Hawzen	243	Leptic Luvisols Aric Fluvic Ochric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Ochric	oh	n/a	10,000
Hawzen	205	Gleyic Regosols Aric Clayic Fluvic	Regosols	RG	Gleyic	gl	Aric	ai	Clayic	ce	Fluvic	fv	n/a	20,000
Hawzen	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	236,372,246
Hawzen	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	95,000
Hawzen	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	1,345,067
Hawzen	60	Leptic Regosols Aric Fluvic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Geoabruptic	go	n/a	17,500
Hawzen	439	Leptic Regosols Clayic Fluvic Geoabruptic	Regosols	RG	Leptic	le	Clayic	ce	Fluvic	fv	Geoabruptic	go	n/a	3,029,290
Hawzen	498	Leptic Vertisols Albic Aric Gilgaic	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Gilgaic	gg	n/a	7,500
Hawzen	441	Leptic Vertisols Albic Aric Gleyic	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Gleyic	gl	n/a	13,443,629
Hawzen	65	Leptic Vertisols Aric Calcaric Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gleyic	gl	n/a	15,000
Hawzen	69	Leptic Vertisols Aric Calcaric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mazic	mz	n/a	7,500
Hawzen	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	n/a	107,359
Hawzen	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	12,500
Hawzen	446	Leptic Vertisols Aric Chernic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gleyic	gl	n/a	7,500
Hawzen	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	10,683,409
Hawzen	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	97,500
Hawzen	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	644,656
Hawzen	386	Leptic Vertisols Aric Gleyic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mazic	mz	n/a	1,006,634
Hawzen	82	Leptic Vertisols Aric Gleyic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mollic	mo	n/a	6,038,015
Hawzen	387	Leptic Vertisols Aric Gleyic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Ochric	oh	n/a	622,500
Hawzen	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	120,000
Hawzen	449	Leptic Vertisols Aric Mollic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Mollic	mo	Ochric	oh	n/a	80,000
Hawzen	466	Salic Vertisols Aric Gleyic Mazic	Vertisols	VR	Salic	sz	Aric	ai	Gleyic	gl	Mazic	mz	n/a	22,500
Hawzen	310	Salic Vertisols Aric Gleyic Mollic	Vertisols	VR	Salic	sz	Aric	ai	Gleyic	gl	Mollic	mo	n/a	12,500
Hawzen	505	Sodic Vertisols Albic Aric Gleyic	Vertisols	VR	Sodic	so	Albic	ab	Aric	ai	Gleyic	gl	n/a	7,500
Hawzen	506	Sodic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Sodic	so	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	10,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Jarso	174	Fluvic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Colluvic	co	n/a	150,000
Jarso	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	137,500
Jarso	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	7,500
Jarso	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	n/a	15,737
Jarso	11	Cambic Leptosols Andic Aric Clayic	Leptosols	LP	Cambic	cm	Andic	an	Aric	ai	Clayic	ce	n/a	235,349
Jarso	167	Cambic Leptosols Aric Aridic Clayic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Clayic	ce	n/a	180,000
Jarso	168	Cambic Leptosols Aric Aridic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Fluvic	fv	n/a	7,500
Jarso	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	2,679,919
Jarso	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	52,273,505
Jarso	169	Cambic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Colluvic	co	Fluvic	fv	n/a	60,000
Jarso	17	Cambic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	605,000
Jarso	758	Cambic Leptosols Aric Fluvic Humic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Humic	hu	n/a	7,500
Jarso	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,701,853
Jarso	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	17,500
Jarso	26	Hyperskeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	42,500
Jarso	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	280,000
Jarso	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,660,895
Jarso	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	104,353
Jarso	210	Hyperskeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	122,500
Jarso	211	Hyperskeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Humic	hu	n/a	18,348
Jarso	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,023,279
Jarso	388	Lithic Leptosols Andic Arenic Aric	Leptosols	LP	Lithic	li	Andic	an	Arenic	ar	Aric	ai	n/a	117,500
Jarso	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	22,807,968
Jarso	95	Lithic Leptosols Andic Aric Fluvic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Fluvic	fv	n/a	1,002,500
Jarso	389	Lithic Leptosols Arenic Aric Aridic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Aridic	ad	n/a	99,766
Jarso	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	259,771
Jarso	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	412,143
Jarso	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	11,571,334
Jarso	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	1,111,835
Jarso	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	35,230,932
Jarso	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	222,371,255
Jarso	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	9,310,746
Jarso	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	10,228,051
Jarso	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	4,820,299
Jarso	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	7,285,618
Jarso	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	57,500
Jarso	392	Nudilithic Leptosols Andic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Andic	an	Aric	ai	Fluvic	fv	n/a	30,000
Jarso	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	107,500
Jarso	285	Nudilithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Fluvic	fv	n/a	20,000
Jarso	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	82,500
Jarso	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,130,000
Jarso	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	292,500
Jarso	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	24,531
Jarso	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	12,500
Jarso	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	3,500,907

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Jarso	131	Skeletal Leptosols Andic Aric Fluvic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Fluvic	fv	n/a	202,500
Jarso	400	Skeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	10,000
Jarso	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,964,353
Jarso	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	24,301,934
Jarso	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	147,248,491
Jarso	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	47,500
Jarso	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	11,717,849
Jarso	140	Skeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	7,578,548
Jarso	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	218,942
Jarso	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	6,766,950
Jarso	360	Umbric Leptosols Aric Clayic Fluvic	Leptosols	LP	Umbric	um	Aric	ai	Clayic	ce	Fluvic	fv	n/a	40,000
Jarso	41	Leptic Luvisols Andic Aric Clayic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Clayic	ce	n/a	22,500
Jarso	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,500
Jarso	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	9,944,830
Jarso	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	19,953,452
Jarso	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	7,500
Jarso	242	Leptic Luvisols Aric Clayic Humic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	555,000
Jarso	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	3,030,000
Jarso	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	251,619
Jarso	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	484,856
Jarso	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	40,440,715
Jarso	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	1,130,000
Jarso	65	Leptic Vertisols Aric Calcaric Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gleyic	gl	n/a	95,000
Jarso	66	Leptic Vertisols Aric Calcaric Grumic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Grumic	gm	n/a	17,500
Jarso	67	Leptic Vertisols Aric Calcaric Humic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Humic	hu	n/a	7,500
Jarso	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	2,684,426
Jarso	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	n/a	45,000
Jarso	72	Leptic Vertisols Aric Calcaric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Skeletic	sk	n/a	57,500
Jarso	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	12,500
Jarso	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	250,000
Jarso	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	6,722,500
Jarso	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	32,500
Jarso	80	Leptic Vertisols Aric Gilgaic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Skeletic	sk	n/a	32,500
Jarso	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	47,500
Jarso	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	40,000
Jarso	89	Leptic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Skeletic	sk	n/a	557,500
Jarso	91	Leptic Vertisols Aric Mazic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Mazic	mz	Skeletic	sk	n/a	72,500
Jarso	92	Leptic Vertisols Aric Mollic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Mollic	mo	Skeletic	sk	n/a	22,500
Kacha Bira	646	Abruptic Alisols Aric Clayic Humic	Alisols	AL	Abruptic	ap	Aric	ai	Clayic	ce	Humic	hu	n/a	45,000
Kacha Bira	218	Leptic Alisols Aric Clayic Cutanic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	3,355,000
Kacha Bira	219	Leptic Alisols Aric Clayic Fluvic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,865,000
Kacha Bira	220	Leptic Alisols Aric Clayic Humic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	46,208,258
Kacha Bira	221	Leptic Alisols Aric Clayic Nitic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Nitic	ni	n/a	300,000
Kacha Bira	364	Vertic Alisols Aric Clayic Cutanic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	1,035,000
Kacha Bira	365	Vertic Alisols Aric Clayic Fluvic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	n/a	15,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Kacha Bira	366	Vertic Alisols Aric Clayic Humic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Humic	hu	n/a	9,465,000
Kacha Bira	657	Rhodic Ferralsols Aric Clayic Dystric	Ferralsols	FR	Rhodic	ro	Aric	ai	Clayic	ce	Dystric	dy	n/a	375,000
Kacha Bira	658	Rhodic Ferralsols Aric Clayic Eutric	Ferralsols	FR	Rhodic	ro	Aric	ai	Clayic	ce	Eutric	eu	n/a	67,500
Kacha Bira	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	n/a	132,500
Kacha Bira	115	Orthofluvic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Aridic	ad	Clayic	ce	n/a	15,000
Kacha Bira	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	452,500
Kacha Bira	606	Orthofluvic Fluvisols Aric Geoabruptic Humic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Geoabruptic	go	Humic	hu	n/a	17,500
Kacha Bira	661	Umbric Gleysols Abruptic Aric Clayic	Gleysols	GL	Umbric	um	Abruptic	ap	Aric	ai	Clayic	ce	n/a	45,000
Kacha Bira	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	22,500
Kacha Bira	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,334,481
Kacha Bira	208	Hyperskeletal Leptosols Aric Clayic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Humic	hu	n/a	111,677
Kacha Bira	210	Hyperskeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	12,500
Kacha Bira	211	Hyperskeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Humic	hu	n/a	62,500
Kacha Bira	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	35,000
Kacha Bira	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	3,596,350
Kacha Bira	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	289,093
Kacha Bira	263	Lithic Leptosols Aric Clayic Humic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Humic	hu	n/a	145,000
Kacha Bira	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	107,500
Kacha Bira	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	22,500
Kacha Bira	582	Lithic Leptosols Aric Humic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Humic	hu	Loamic	lo	n/a	32,500
Kacha Bira	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	39,335
Kacha Bira	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,505,057
Kacha Bira	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	189,412
Kacha Bira	287	Nudilithic Leptosols Aric Clayic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Humic	hu	n/a	184,467
Kacha Bira	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	42,500
Kacha Bira	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	149,570
Kacha Bira	293	Nudilithic Leptosols Aric Gleyic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Gleyic	gl	Loamic	lo	n/a	22,500
Kacha Bira	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	55,000
Kacha Bira	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,260,463
Kacha Bira	360	Umbric Leptosols Aric Clayic Fluvic	Leptosols	LP	Umbric	um	Aric	ai	Clayic	ce	Fluvic	fv	n/a	87,500
Kacha Bira	647	Abruptic Luvisols Aric Clayic Humic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Humic	hu	n/a	15,000
Kacha Bira	421	Gleyic Luvisols Aric Clayic Fluvic	Luvisols	LV	Gleyic	gl	Aric	ai	Clayic	ce	Fluvic	fv	n/a	7,500
Kacha Bira	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	60,000
Kacha Bira	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	353,475
Kacha Bira	242	Leptic Luvisols Aric Clayic Humic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	8,283,518
Kacha Bira	242	Leptic Luvisols Aric Clayic Humic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	Built-up	7,500
Kacha Bira	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	10,000
Kacha Bira	659	Stagnic Luvisols Aric Clayic Fluvic	Luvisols	LV	Stagnic	st	Aric	ai	Clayic	ce	Fluvic	fv	n/a	40,000
Kacha Bira	660	Stagnic Luvisols Aric Clayic Humic	Luvisols	LV	Stagnic	st	Aric	ai	Clayic	ce	Humic	hu	n/a	577,500
Kacha Bira	149	Vertic Luvisols Aric Clayic Cutanic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	17,500
Kacha Bira	150	Vertic Luvisols Aric Clayic Fluvic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	n/a	272,500
Kacha Bira	370	Vertic Luvisols Aric Clayic Humic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Humic	hu	n/a	1,262,500
Kacha Bira	648	Ferralic Nitisols Andic Aric Colluvic	Nitisols	NT	Ferralic	fl	Andic	an	Aric	ai	Colluvic	co	n/a	2,315,000
Kacha Bira	649	Ferralic Nitisols Andic Aric Humic	Nitisols	NT	Ferralic	fl	Andic	an	Aric	ai	Humic	hu	n/a	222,500
Kacha Bira	650	Ferralic Nitisols Aric Colluvic Humic	Nitisols	NT	Ferralic	fl	Aric	ai	Colluvic	co	Humic	hu	n/a	35,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Kacha Bira	304	Rhodic Nitisols Andic Aric Colluvic	Nitisols	NT	Rhodic	ro	Andic	an	Aric	ai	Colluvic	co	n/a	100,583,773
Kacha Bira	304	Rhodic Nitisols Andic Aric Colluvic	Nitisols	NT	Rhodic	ro	Andic	an	Aric	ai	Colluvic	co	Built-up	150,000
Kacha Bira	305	Rhodic Nitisols Andic Aric Humic	Nitisols	NT	Rhodic	ro	Andic	an	Aric	ai	Humic	hu	n/a	19,542,397
Kacha Bira	306	Rhodic Nitisols Aric Colluvic Humic	Nitisols	NT	Rhodic	ro	Aric	ai	Colluvic	co	Humic	hu	n/a	11,248,690
Kacha Bira	306	Rhodic Nitisols Aric Colluvic Humic	Nitisols	NT	Rhodic	ro	Aric	ai	Colluvic	co	Humic	hu	Built-up	52,500
Kacha Bira	361	Umbric Nitisols Andic Aric Colluvic	Nitisols	NT	Umbric	um	Andic	an	Aric	ai	Colluvic	co	n/a	1,803,118
Kacha Bira	362	Umbric Nitisols Andic Aric Humic	Nitisols	NT	Umbric	um	Andic	an	Aric	ai	Humic	hu	n/a	348,544
Kacha Bira	363	Umbric Nitisols Aric Colluvic Humic	Nitisols	NT	Umbric	um	Aric	ai	Colluvic	co	Humic	hu	n/a	121,853
Kacha Bira	205	Gleyic Regosols Aric Clayic Fluvic	Regosols	RG	Gleyic	gl	Aric	ai	Clayic	ce	Fluvic	fv	n/a	1,109,589
Kacha Bira	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,459,918
Kacha Bira	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	83,375,778
Kacha Bira	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	795,000
Kacha Bira	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	540,000
Kacha Bira	253	Leptic Regosols Aric Clayic Humic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	77,500
Kersa	379	Chromic Arenosols Aric Aridic Colluvic	Arenosols	AR	Chromic	cr	Aric	ai	Aridic	ad	Colluvic	co	n/a	1,010,559
Kersa	479	Chromic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	15,000
Kersa	749	Chromic Arenosols Aric Aridic Humic	Arenosols	AR	Chromic	cr	Aric	ai	Aridic	ad	Humic	hu	n/a	20,000
Kersa	380	Chromic Arenosols Aric Aridic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Aridic	ad	Ochric	oh	n/a	22,500
Kersa	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	272,500
Kersa	682	Chromic Arenosols Aric Colluvic Humic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Humic	hu	n/a	10,000
Kersa	517	Chromic Arenosols Aric Colluvic Hydrophobic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Hydrophobic	hf	n/a	7,500
Kersa	381	Chromic Arenosols Aric Colluvic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Ochric	oh	n/a	1,247,500
Kersa	178	Fluvic Arenosols Aric Aridic Colluvic	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Colluvic	co	n/a	465,000
Kersa	179	Fluvic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	7,500
Kersa	182	Fluvic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	90,559
Kersa	751	Fluvic Arenosols Aric Colluvic Humic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Humic	hu	n/a	10,000
Kersa	382	Fluvic Arenosols Aric Colluvic Ochric	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Ochric	oh	n/a	810,000
Kersa	184	Fluvic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Fluvic	fv	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	15,000
Kersa	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	142,500
Kersa	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	57,500
Kersa	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	57,500
Kersa	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	n/a	182,500
Kersa	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	7,500
Kersa	167	Cambic Leptosols Aric Aridic Clayic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Clayic	ce	n/a	27,500
Kersa	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	125,000
Kersa	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,465,908
Kersa	169	Cambic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Colluvic	co	Fluvic	fv	n/a	112,500
Kersa	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	517,500
Kersa	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	52,500
Kersa	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	7,500
Kersa	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	147,500
Kersa	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	9,068,331
Kersa	95	Lithic Leptosols Andic Aric Fluvic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Fluvic	fv	n/a	50,000
Kersa	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	10,000
Kersa	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	57,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Kersa	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	6,364,114
Kersa	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	Built-up	27,500
Kersa	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	1,235,000
Kersa	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	16,277,202
Kersa	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	Built-up	7,500
Kersa	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	103,349,992
Kersa	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	40,000
Kersa	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	3,244,140
Kersa	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	1,560,225
Kersa	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	221,640
Kersa	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	3,409,091
Kersa	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	40,000
Kersa	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	393,975
Kersa	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	6,619
Kersa	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	10,000
Kersa	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	3,018,472
Kersa	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,348,459
Kersa	135	Skeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	39,353
Kersa	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	3,711,964
Kersa	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	52,857,555
Kersa	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	65,000
Kersa	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	1,412,500
Kersa	140	Skeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	22,500
Kersa	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	12,070
Kersa	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,119,570
Kersa	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	1,565,000
Kersa	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	3,526,802
Kersa	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	137,500
Kersa	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,712,500
Kersa	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	119,171,431
Kersa	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	10,000
Kersa	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	2,827,500
Kersa	66	Leptic Vertisols Aric Calcaric Grumic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Grumic	gm	Built-up	30,000
Kersa	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	16,016,943
Kersa	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Built-up	92,500
Kersa	69	Leptic Vertisols Aric Calcaric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mazic	mz	n/a	585,000
Kersa	71	Leptic Vertisols Aric Calcaric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Ochric	oh	n/a	7,500
Kersa	72	Leptic Vertisols Aric Calcaric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Skeletic	sk	n/a	60,000
Kersa	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	67,500
Kersa	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	5,260,000
Kersa	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	Built-up	10,000
Kersa	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	71,028,475
Kersa	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	5,000
Kersa	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	3,721,853
Kersa	80	Leptic Vertisols Aric Gilgaic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Skeletic	sk	n/a	565,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Kersa	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	162,500
Kersa	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	822,500
Kersa	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	1,050,000
Kersa	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	190,000
Kersa	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	Built-up	2,500
Kersa	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	10,000
Kersa	89	Leptic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Skeletic	sk	n/a	617,500
Lay Gayint	724	Chromic Cambisols Aric Clayic Colluvic	Cambisols	CM	Chromic	cr	Aric	ai	Clayic	ce	Colluvic	co	n/a	40,000
Lay Gayint	383	Leptic Cambisols Aric Aridic Clayic	Cambisols	CM	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	10,000
Lay Gayint	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	97,500
Lay Gayint	613	Vertic Cambisols Aric Aridic Clayic	Cambisols	CM	Vertic	vr	Aric	ai	Aridic	ad	Clayic	ce	n/a	76,261
Lay Gayint	146	Vertic Cambisols Aric Clayic Colluvic	Cambisols	CM	Vertic	vr	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,962,267
Lay Gayint	27	Hyperskeletic Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	10,378,479
Lay Gayint	28	Hyperskeletic Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,110,095
Lay Gayint	29	Hyperskeletic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	20,000
Lay Gayint	671	Hyperskeletic Leptosols Aric Colluvic Loamic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Colluvic	co	Loamic	lo	n/a	251,206
Lay Gayint	30	Hyperskeletic Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletic	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,190,000
Lay Gayint	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	53,595,510
Lay Gayint	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,316,423
Lay Gayint	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	4,547,878
Lay Gayint	538	Lithic Leptosols Aric Colluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Gleyic	gl	n/a	65,000
Lay Gayint	581	Lithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Loamic	lo	n/a	617,500
Lay Gayint	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	517,500
Lay Gayint	272	Mollic Leptosols Aric Clayic Colluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Colluvic	co	n/a	90,000
Lay Gayint	729	Nudilithic Leptosols Andic Aric Aridic	Leptosols	LP	Nudilithic	nt	Andic	an	Aric	ai	Aridic	ad	n/a	22,500
Lay Gayint	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	335,000
Lay Gayint	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	16,606,406
Lay Gayint	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	3,615,972
Lay Gayint	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	305,000
Lay Gayint	287	Nudilithic Leptosols Aric Clayic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Humic	hu	n/a	7,500
Lay Gayint	114	Nudilithic Leptosols Aric Clayic Ochric	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Ochric	oh	n/a	760,000
Lay Gayint	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	1,036,709
Lay Gayint	675	Nudilithic Leptosols Aric Colluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Gleyic	gl	n/a	15,000
Lay Gayint	600	Nudilithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Loamic	lo	n/a	315,000
Lay Gayint	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	27,500
Lay Gayint	130	Skeletic Leptosols Andic Aric Clayic	Leptosols	LP	Skeletic	sk	Andic	an	Aric	ai	Clayic	ce	n/a	497,500
Lay Gayint	134	Skeletic Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletic	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	856,103
Lay Gayint	136	Skeletic Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletic	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	466,326,265
Lay Gayint	137	Skeletic Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletic	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	179,844,411
Lay Gayint	325	Skeletic Leptosols Aric Clayic Gleyic	Leptosols	LP	Skeletic	sk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	242,500
Lay Gayint	138	Skeletic Leptosols Aric Clayic Ochric	Leptosols	LP	Skeletic	sk	Aric	ai	Clayic	ce	Ochric	oh	n/a	140,579
Lay Gayint	640	Skeletic Leptosols Aric Clayic Salic	Leptosols	LP	Skeletic	sk	Aric	ai	Clayic	ce	Salic	sz	n/a	27,500
Lay Gayint	139	Skeletic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletic	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	44,798,202
Lay Gayint	708	Skeletic Leptosols Aric Colluvic Gleyic	Leptosols	LP	Skeletic	sk	Aric	ai	Colluvic	co	Gleyic	gl	n/a	190,000
Lay Gayint	678	Skeletic Leptosols Aric Colluvic Loamic	Leptosols	LP	Skeletic	sk	Aric	ai	Colluvic	co	Loamic	lo	n/a	13,367,826

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Lay Gayint	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	7,500
Lay Gayint	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	20,494,045
Lay Gayint	2	Abrupt Luvisols Aric Clayic Cutanic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Cutanic	ct	n/a	56,722,985
Lay Gayint	681	Abrupt Luvisols Aric Cutanic Hypereutric	Luvisols	LV	Abruptic	ap	Aric	ai	Cutanic	ct	Hypereutric	je	n/a	55,000
Lay Gayint	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	23,387,398
Lay Gayint	149	Vertic Luvisols Aric Clayic Cutanic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	10,587,769
Lay Gayint	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	2,330,000
Lay Gayint	693	Leptic Regosols Alcalic Aric Loamic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Loamic	lo	n/a	37,500
Lay Gayint	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	8,437,850
Lay Gayint	727	Leptic Regosols Aric Aridic Humic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Humic	hu	n/a	25,000
Lay Gayint	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	511,931,856
Lay Gayint	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	75,000
Lay Gayint	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	1,087,500
Lay Gayint	253	Leptic Regosols Aric Clayic Humic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	1,065,000
Lay Gayint	577	Leptic Regosols Aric Clayic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Lamellic	ll	n/a	9,952,266
Lay Gayint	577	Leptic Regosols Aric Clayic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Lamellic	ll	Built-up	15,000
Lay Gayint	254	Leptic Regosols Aric Fluvic Humic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Humic	hu	n/a	1,115,000
Lay Gayint	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,072,500
Lay Gayint	698	Leptic Regosols Aric Humic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Humic	hu	Lamellic	ll	n/a	87,500
Lay Gayint	699	Leptic Regosols Aric Lamellic Loamic	Regosols	RG	Leptic	le	Aric	ai	Lamellic	ll	Loamic	lo	n/a	27,500
Lay Gayint	714	Skeletal Regosols Aric Clayic Fluvic	Regosols	RG	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	47,500
Lay Gayint	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	1,935,000
Lay Gayint	578	Leptic Vertisols Aric Chernic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Grumic	gm	n/a	5,842,500
Lay Gayint	578	Leptic Vertisols Aric Chernic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Grumic	gm	Built-up	40,000
Lay Gayint	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	22,470,080
Lay Gayint	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	Built-up	10,000
Lay Gayint	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	1,015,000
Lay Gayint	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	Built-up	2,500
Lay Gayint	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	21,159,441
Lay Gayint	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	52,500
Lay Gayint	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	12,542,412
Lay Gayint	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	Built-up	37,500
Lay Gayint	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	7,531,666
Lay Gayint	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	1,061,558
Lay Gayint	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	3,764,598
Lay Gayint	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	n/a	10,000
Libo Kemikem	403	Albic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Albic	ab	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	7,500
Libo Kemikem	170	Chromic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Chromic	cr	Alcalic	ax	Aric	ai	Colluvic	co	n/a	10,000
Libo Kemikem	170	Chromic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Chromic	cr	Alcalic	ax	Aric	ai	Colluvic	co	Built-up	20,000
Libo Kemikem	379	Chromic Arenosols Aric Aridic Colluvic	Arenosols	AR	Chromic	cr	Aric	ai	Aridic	ad	Colluvic	co	n/a	325,000
Libo Kemikem	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	3,060,000
Libo Kemikem	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	Built-up	67,500
Libo Kemikem	682	Chromic Arenosols Aric Colluvic Humic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Humic	hu	n/a	15,000
Libo Kemikem	517	Chromic Arenosols Aric Colluvic Hydrophobic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Hydrophobic	hf	n/a	202,500
Libo Kemikem	381	Chromic Arenosols Aric Colluvic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Ochric	oh	n/a	1,867,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Libo Kemikem	381	Chromic Arenosols Aric Colluvic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Ochric	oh	Built-up	22,500
Libo Kemikem	412	Gleyic Arenosols Aric Aridic Colluvic	Arenosols	AR	Gleyic	gl	Aric	ai	Aridic	ad	Colluvic	co	n/a	50,000
Libo Kemikem	414	Gleyic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	705,000
Libo Kemikem	626	Gleyic Arenosols Aric Colluvic Humic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Humic	hu	n/a	22,500
Libo Kemikem	524	Gleyic Arenosols Aric Colluvic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Ochric	oh	n/a	590,000
Libo Kemikem	524	Gleyic Arenosols Aric Colluvic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Ochric	oh	Built-up	22,500
Libo Kemikem	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	135,000
Libo Kemikem	146	Vertic Cambisols Aric Clayic Colluvic	Cambisols	CM	Vertic	vr	Aric	ai	Clayic	ce	Colluvic	co	n/a	12,500
Libo Kemikem	527	Hyperskeletal Leptosols Arenic Aric Aridic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Aridic	ad	n/a	75,000
Libo Kemikem	492	Hyperskeletal Leptosols Arenic Aric Colluvic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Colluvic	co	n/a	23,213,945
Libo Kemikem	423	Hyperskeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	880,000
Libo Kemikem	684	Hyperskeletal Leptosols Arenic Aric Gleyic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Gleyic	gl	n/a	747,500
Libo Kemikem	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	237,500
Libo Kemikem	685	Hyperskeletal Leptosols Aric Aridic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Colluvic	co	n/a	87,500
Libo Kemikem	26	Hyperskeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	47,500
Libo Kemikem	686	Hyperskeletal Leptosols Aric Aridic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Gleyic	gl	n/a	30,000
Libo Kemikem	687	Hyperskeletal Leptosols Aric Aridic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Loamic	lo	n/a	95,000
Libo Kemikem	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	32,131,313
Libo Kemikem	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,389,127
Libo Kemikem	424	Hyperskeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	502,500
Libo Kemikem	669	Hyperskeletal Leptosols Aric Clayic Ochric	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Ochric	oh	n/a	17,500
Libo Kemikem	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	7,072,475
Libo Kemikem	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	Built-up	27,500
Libo Kemikem	688	Hyperskeletal Leptosols Aric Colluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Gleyic	gl	n/a	1,527,500
Libo Kemikem	670	Hyperskeletal Leptosols Aric Colluvic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Humic	hu	n/a	210,562
Libo Kemikem	671	Hyperskeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Loamic	lo	n/a	36,068,178
Libo Kemikem	210	Hyperskeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	110,000
Libo Kemikem	211	Hyperskeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Humic	hu	n/a	25,000
Libo Kemikem	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	4,654,306
Libo Kemikem	425	Hyperskeletal Leptosols Aric Gleyic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Gleyic	gl	Loamic	lo	n/a	368,706
Libo Kemikem	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	115,000
Libo Kemikem	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	52,500
Libo Kemikem	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	62,500
Libo Kemikem	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	44,742,149
Libo Kemikem	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,997,500
Libo Kemikem	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	827,500
Libo Kemikem	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	3,804,335
Libo Kemikem	538	Lithic Leptosols Aric Colluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Gleyic	gl	n/a	312,500
Libo Kemikem	581	Lithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Loamic	lo	n/a	2,637,500
Libo Kemikem	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	801,405
Libo Kemikem	267	Lithic Leptosols Aric Gleyic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Gleyic	gl	Loamic	lo	n/a	12,500
Libo Kemikem	394	Nudilithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Colluvic	co	n/a	581,984
Libo Kemikem	395	Nudilithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Fluvic	fv	n/a	35,000
Libo Kemikem	700	Nudilithic Leptosols Arenic Aric Gleyic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Gleyic	gl	n/a	32,500
Libo Kemikem	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	26,697,692

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Libo Kemikem	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,819,842
Libo Kemikem	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	422,500
Libo Kemikem	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	3,025,000
Libo Kemikem	675	Nudilithic Leptosols Aric Colluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Gleyic	gl	n/a	1,195,000
Libo Kemikem	600	Nudilithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Loamic	lo	n/a	2,326,835
Libo Kemikem	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	332,500
Libo Kemikem	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	325,000
Libo Kemikem	293	Nudilithic Leptosols Aric Gleyic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Gleyic	gl	Loamic	lo	n/a	65,000
Libo Kemikem	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	7,500
Libo Kemikem	398	Skeletal Leptosols Arenic Aric Aridic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Aridic	ad	n/a	60,000
Libo Kemikem	399	Skeletal Leptosols Arenic Aric Colluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Colluvic	co	n/a	29,901,581
Libo Kemikem	400	Skeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	1,782,500
Libo Kemikem	467	Skeletal Leptosols Arenic Aric Gleyic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Gleyic	gl	n/a	477,500
Libo Kemikem	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	447,500
Libo Kemikem	706	Skeletal Leptosols Aric Aridic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Colluvic	co	n/a	172,500
Libo Kemikem	135	Skeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	7,500
Libo Kemikem	707	Skeletal Leptosols Aric Aridic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Loamic	lo	n/a	37,500
Libo Kemikem	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	445,954,699
Libo Kemikem	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	Built-up	80,000
Libo Kemikem	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	28,774,606
Libo Kemikem	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	12,500
Libo Kemikem	325	Skeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	1,105,000
Libo Kemikem	138	Skeletal Leptosols Aric Clayic Ochric	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Ochric	oh	n/a	52,500
Libo Kemikem	640	Skeletal Leptosols Aric Clayic Salic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Salic	sz	n/a	62,500
Libo Kemikem	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	29,982,136
Libo Kemikem	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	Built-up	20,000
Libo Kemikem	708	Skeletal Leptosols Aric Colluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Gleyic	gl	n/a	1,934,140
Libo Kemikem	607	Skeletal Leptosols Aric Colluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Humic	hu	n/a	57,500
Libo Kemikem	678	Skeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Loamic	lo	n/a	75,385,983
Libo Kemikem	678	Skeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Loamic	lo	Built-up	47,500
Libo Kemikem	140	Skeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	35,000
Libo Kemikem	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	20,000
Libo Kemikem	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	5,186,929
Libo Kemikem	468	Skeletal Leptosols Aric Gleyic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Gleyic	gl	Loamic	lo	n/a	82,500
Libo Kemikem	709	Skeletal Leptosols Aric Loamic Ochric	Leptosols	LP	Skeletal	sk	Aric	ai	Loamic	lo	Ochric	oh	n/a	50,000
Libo Kemikem	2	Abruptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Cutanic	ct	n/a	61,980,768
Libo Kemikem	2	Abruptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Cutanic	ct	Built-up	172,500
Libo Kemikem	681	Abruptic Luvisols Aric Cutanic Hypereutric	Luvisols	LV	Abruptic	ap	Aric	ai	Cutanic	ct	Hypereutric	je	n/a	142,500
Libo Kemikem	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	7,500
Libo Kemikem	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	8,046,575
Libo Kemikem	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	Built-up	55,000
Libo Kemikem	252	Leptic Regosols Arenic Aric Aridic	Regosols	RG	Leptic	le	Arenic	ar	Aric	ai	Aridic	ad	n/a	67,500
Libo Kemikem	437	Leptic Regosols Arenic Aric Fluvic	Regosols	RG	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	n/a	9,840,000
Libo Kemikem	437	Leptic Regosols Arenic Aric Fluvic	Regosols	RG	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	Built-up	35,000
Libo Kemikem	696	Leptic Regosols Arenic Aric Lamellic	Regosols	RG	Leptic	le	Arenic	ar	Aric	ai	Lamellic	ll	n/a	117,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Libo Kemikem	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	305,000
Libo Kemikem	697	Leptic Regosols Aric Aridic Loamic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Loamic	lo	n/a	37,500
Libo Kemikem	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	225,905,541
Libo Kemikem	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	350,000
Libo Kemikem	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	1,755,000
Libo Kemikem	253	Leptic Regosols Aric Clayic Humic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	15,055
Libo Kemikem	577	Leptic Regosols Aric Clayic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Lamellic	ll	n/a	1,683,475
Libo Kemikem	60	Leptic Regosols Aric Fluvic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Geoabruptic	go	n/a	50,000
Libo Kemikem	254	Leptic Regosols Aric Fluvic Humic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Humic	hu	n/a	12,500
Libo Kemikem	255	Leptic Regosols Aric Fluvic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Lamellic	ll	n/a	27,500
Libo Kemikem	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	11,827,500
Libo Kemikem	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	Built-up	17,500
Libo Kemikem	438	Leptic Regosols Aric Geoabruptic Loamic	Regosols	RG	Leptic	le	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	12,500
Libo Kemikem	699	Leptic Regosols Aric Lamellic Loamic	Regosols	RG	Leptic	le	Aric	ai	Lamellic	ll	Loamic	lo	n/a	55,000
Libo Kemikem	712	Skeletal Regosols Arenic Aric Fluvic	Regosols	RG	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	22,500
Libo Kemikem	714	Skeletal Regosols Aric Clayic Fluvic	Regosols	RG	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,645,000
Libo Kemikem	716	Skeletal Regosols Aric Clayic Lamellic	Regosols	RG	Skeletal	sk	Aric	ai	Clayic	ce	Lamellic	ll	n/a	62,500
Libo Kemikem	718	Skeletal Regosols Aric Fluvic Lamellic	Regosols	RG	Skeletal	sk	Aric	ai	Fluvic	fv	Lamellic	ll	n/a	52,500
Libo Kemikem	719	Skeletal Regosols Aric Fluvic Loamic	Regosols	RG	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	117,500
Libo Kemikem	690	Irragric Vertisols Aric Chernic Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Chernic	ch	Hypereutric	je	n/a	6,978,650
Libo Kemikem	673	Irragric Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	67,500
Libo Kemikem	560	Irragric Vertisols Aric Hypereutric Mazic	Vertisols	VR	Irragric	ir	Aric	ai	Hypereutric	je	Mazic	mz	n/a	12,500
Libo Kemikem	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	181,475
Libo Kemikem	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	322,245,959
Libo Kemikem	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	Built-up	540,000
Libo Kemikem	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	Water	56,171
Libo Kemikem	384	Leptic Vertisols Aric Chernic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Mazic	mz	n/a	27,500
Libo Kemikem	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	58,526,838
Libo Kemikem	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	83,475
Libo Kemikem	84	Leptic Vertisols Aric Humic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Hypereutric	je	n/a	7,500
Libo Kemikem	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	109,364,482
Libo Kemikem	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	Built-up	22,500
Libo Kemikem	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	Water	2,500
Libo Kemikem	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	1,146,986
Libo Kemikem	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	3,144,254
Libo Kemikem	308	Salic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Chernic	ch	Hypereutric	je	n/a	14,130,925
Libo Kemikem	308	Salic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Chernic	ch	Hypereutric	je	Water	2,048,998
Libo Kemikem	721	Sodic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Chernic	ch	Hypereutric	je	n/a	36,927,878
Libo Kemikem	357	Sodic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Sodic	so	Aric	ai	Hypereutric	je	Mazic	mz	n/a	12,500
Mirab Abaya	218	Leptic Alisols Aric Clayic Cutanic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	15,000
Mirab Abaya	219	Leptic Alisols Aric Clayic Fluvic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	17,500
Mirab Abaya	561	Leptic Alisols Aric Fluvic Loamic	Alisols	AL	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	22,500
Mirab Abaya	182	Fluvic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	22,500
Mirab Abaya	182	Fluvic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvic	fv	Aric	ai	Colluvic	co	Geoabruptic	go	Water	10,000
Mirab Abaya	195	Fluvic Cambisols Aric Aridic Clayic	Cambisols	CM	Fluvic	fv	Aric	ai	Aridic	ad	Clayic	ce	n/a	7,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Mirab Abaya	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	Built-up	17,500
Mirab Abaya	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	140,000
Mirab Abaya	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	Built-up	7,500
Mirab Abaya	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	17,500
Mirab Abaya	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	Built-up	10,000
Mirab Abaya	295	Orthofluvic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Aridic	ad	n/a	632,500
Mirab Abaya	295	Orthofluvic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Aridic	ad	Built-up	22,500
Mirab Abaya	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	n/a	39,150,635
Mirab Abaya	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	Built-up	555,000
Mirab Abaya	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	Water	12,500
Mirab Abaya	297	Orthofluvic Fluvisols Alcalic Aric Loamic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Loamic	lo	n/a	1,652,485
Mirab Abaya	297	Orthofluvic Fluvisols Alcalic Aric Loamic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Loamic	lo	Built-up	122,500
Mirab Abaya	115	Orthofluvic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Aridic	ad	Clayic	ce	n/a	64,565,598
Mirab Abaya	115	Orthofluvic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Aridic	ad	Clayic	ce	Built-up	382,500
Mirab Abaya	115	Orthofluvic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Aridic	ad	Clayic	ce	Water	7,500
Mirab Abaya	605	Orthofluvic Fluvisols Aric Aridic Loamic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Aridic	ad	Loamic	lo	n/a	2,615,400
Mirab Abaya	605	Orthofluvic Fluvisols Aric Aridic Loamic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Aridic	ad	Loamic	lo	Built-up	52,500
Mirab Abaya	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	16,751,893
Mirab Abaya	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	Built-up	595,000
Mirab Abaya	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	Water	107,500
Mirab Abaya	606	Orthofluvic Fluvisols Aric Geoabruptic Humic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Geoabruptic	go	Humic	hu	n/a	15,000
Mirab Abaya	298	Orthofluvic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	551,726
Mirab Abaya	298	Orthofluvic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Geoabruptic	go	Loamic	lo	Built-up	375,000
Mirab Abaya	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	7,500
Mirab Abaya	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	20,000
Mirab Abaya	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	50,000
Mirab Abaya	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	105,000
Mirab Abaya	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	3,222,500
Mirab Abaya	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	Water	455,000
Mirab Abaya	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	10,000
Mirab Abaya	211	Hyperskeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Humic	hu	n/a	7,500
Mirab Abaya	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	705,000
Mirab Abaya	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	Water	267,500
Mirab Abaya	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	52,500
Mirab Abaya	95	Lithic Leptosols Andic Aric Fluvic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Fluvic	fv	n/a	310,000
Mirab Abaya	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	777,500
Mirab Abaya	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	2,622,500
Mirab Abaya	579	Lithic Leptosols Aric Aridic Humic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Humic	hu	n/a	25,000
Mirab Abaya	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	17,791,944
Mirab Abaya	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	105,925,787
Mirab Abaya	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Water	25,000
Mirab Abaya	263	Lithic Leptosols Aric Clayic Humic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Humic	hu	n/a	102,500
Mirab Abaya	102	Lithic Leptosols Aric Clayic Ochric	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Ochric	oh	n/a	22,500
Mirab Abaya	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	13,544,531
Mirab Abaya	580	Lithic Leptosols Aric Colluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Humic	hu	n/a	102,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Mirab Abaya	581	Lithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Loamic	lo	n/a	17,500
Mirab Abaya	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	2,581,601
Mirab Abaya	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	91,967,465
Mirab Abaya	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	69,381,133
Mirab Abaya	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	Water	340,000
Mirab Abaya	540	Lithic Leptosols Aric Gleyic Humic	Leptosols	LP	Lithic	li	Aric	ai	Gleyic	gl	Humic	hu	n/a	25,000
Mirab Abaya	582	Lithic Leptosols Aric Humic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Humic	hu	Loamic	lo	n/a	160,000
Mirab Abaya	271	Mollic Leptosols Aric Aridic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Aridic	ad	Fluvic	fv	n/a	37,500
Mirab Abaya	272	Mollic Leptosols Aric Clayic Colluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Colluvic	co	n/a	45,000
Mirab Abaya	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	2,705,000
Mirab Abaya	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	Water	1,115,000
Mirab Abaya	274	Mollic Leptosols Aric Fluvic Loamic	Leptosols	LP	Mollic	mo	Aric	ai	Fluvic	fv	Loamic	lo	n/a	325,000
Mirab Abaya	274	Mollic Leptosols Aric Fluvic Loamic	Leptosols	LP	Mollic	mo	Aric	ai	Fluvic	fv	Loamic	lo	Water	47,500
Mirab Abaya	285	Nudilithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Fluvic	fv	n/a	355,000
Mirab Abaya	598	Nudilithic Leptosols Aric Aridic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Humic	hu	n/a	17,500
Mirab Abaya	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	122,500
Mirab Abaya	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	9,832,924
Mirab Abaya	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	Water	2,500
Mirab Abaya	114	Nudilithic Leptosols Aric Clayic Ochric	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Ochric	oh	n/a	10,000
Mirab Abaya	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	883,834
Mirab Abaya	599	Nudilithic Leptosols Aric Colluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Humic	hu	n/a	25,000
Mirab Abaya	600	Nudilithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Loamic	lo	n/a	25,000
Mirab Abaya	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	2,741,835
Mirab Abaya	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	Built-up	10,000
Mirab Abaya	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	7,600,518
Mirab Abaya	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	7,435,521
Mirab Abaya	292	Nudilithic Leptosols Aric Gleyic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Gleyic	gl	Humic	hu	n/a	40,000
Mirab Abaya	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	42,500
Mirab Abaya	135	Skeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	22,500
Mirab Abaya	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	1,085,000
Mirab Abaya	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	10,070,758
Mirab Abaya	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Water	2,500
Mirab Abaya	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	17,500
Mirab Abaya	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	372,500
Mirab Abaya	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,062,500
Mirab Abaya	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	Water	15,000
Mirab Abaya	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	110,000
Mirab Abaya	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	4,387,277
Mirab Abaya	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	7,421,862
Mirab Abaya	242	Leptic Luvisols Aric Clayic Humic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	3,351,030
Mirab Abaya	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	6,029,869
Mirab Abaya	50	Leptic Luvisols Aric Clayic Nitic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Nitic	ni	n/a	22,500
Mirab Abaya	564	Leptic Luvisols Aric Cutanic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Cutanic	ct	Fluvic	fv	n/a	15,000
Mirab Abaya	566	Leptic Luvisols Aric Fluvic Humic	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Humic	hu	n/a	7,500
Mirab Abaya	52	Leptic Luvisols Aric Fluvic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Hypereutric	je	n/a	109,140

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Mirab Abaya	53	Leptic Luvisols Aric Fluvic Loamic	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	467,266
Mirab Abaya	568	Leptic Luvisols Aric Humic Loamic	Luvisols	LV	Leptic	le	Aric	ai	Humic	hu	Loamic	lo	n/a	262,500
Mirab Abaya	435	Leptic Luvisols Aric Hypereutric Loamic	Luvisols	LV	Leptic	le	Aric	ai	Hypereutric	je	Loamic	lo	n/a	107,500
Mirab Abaya	151	Vertic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Hypereutric	je	n/a	12,500
Mirab Abaya	544	Chernic Phaeozems Abruptic Aric Chromic	Phaeozems	PH	Chernic	ch	Abruptic	ap	Aric	ai	Chromic	cr	n/a	20,000
Mirab Abaya	545	Chernic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Chernic	ch	Aric	ai	Chromic	cr	Clayic	ce	n/a	30,000
Mirab Abaya	548	Fluvic Phaeozems Abruptic Aric Chromic	Phaeozems	PH	Fluvic	fv	Abruptic	ap	Aric	ai	Chromic	cr	n/a	3,128,872
Mirab Abaya	548	Fluvic Phaeozems Abruptic Aric Chromic	Phaeozems	PH	Fluvic	fv	Abruptic	ap	Aric	ai	Chromic	cr	Water	10,000
Mirab Abaya	549	Fluvic Phaeozems Abruptic Aric Clayic	Phaeozems	PH	Fluvic	fv	Abruptic	ap	Aric	ai	Clayic	ce	n/a	371,929
Mirab Abaya	550	Fluvic Phaeozems Abruptic Aric Loamic	Phaeozems	PH	Fluvic	fv	Abruptic	ap	Aric	ai	Loamic	lo	n/a	285,593
Mirab Abaya	551	Fluvic Phaeozems Albic Aric Chromic	Phaeozems	PH	Fluvic	fv	Albic	ab	Aric	ai	Chromic	cr	n/a	7,500
Mirab Abaya	552	Fluvic Phaeozems Andic Aric Chromic	Phaeozems	PH	Fluvic	fv	Andic	an	Aric	ai	Chromic	cr	n/a	12,500
Mirab Abaya	203	Fluvic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Fluvic	fv	Aric	ai	Chromic	cr	Clayic	ce	n/a	3,261,082
Mirab Abaya	203	Fluvic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Fluvic	fv	Aric	ai	Chromic	cr	Clayic	ce	Water	1,531,596
Mirab Abaya	554	Fluvic Phaeozems Aric Chromic Loamic	Phaeozems	PH	Fluvic	fv	Aric	ai	Chromic	cr	Loamic	lo	n/a	197,500
Mirab Abaya	204	Fluvic Phaeozems Aric Clayic Colluvic	Phaeozems	PH	Fluvic	fv	Aric	ai	Clayic	ce	Colluvic	co	n/a	20,000
Mirab Abaya	204	Fluvic Phaeozems Aric Clayic Colluvic	Phaeozems	PH	Fluvic	fv	Aric	ai	Clayic	ce	Colluvic	co	Water	35,000
Mirab Abaya	555	Fluvic Phaeozems Aric Clayic Ferralic	Phaeozems	PH	Fluvic	fv	Aric	ai	Clayic	ce	Ferralic	fl	n/a	12,500
Mirab Abaya	556	Fluvic Phaeozems Aric Clayic Rhodic	Phaeozems	PH	Fluvic	fv	Aric	ai	Clayic	ce	Rhodic	ro	n/a	67,500
Mirab Abaya	436	Leptic Phaeozems Abruptic Aric Chromic	Phaeozems	PH	Leptic	le	Abruptic	ap	Aric	ai	Chromic	cr	n/a	26,853
Mirab Abaya	436	Leptic Phaeozems Abruptic Aric Chromic	Phaeozems	PH	Leptic	le	Abruptic	ap	Aric	ai	Chromic	cr	Water	10,000
Mirab Abaya	570	Leptic Phaeozems Abruptic Aric Clayic	Phaeozems	PH	Leptic	le	Abruptic	ap	Aric	ai	Clayic	ce	n/a	24,856
Mirab Abaya	250	Leptic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Leptic	le	Aric	ai	Chromic	cr	Clayic	ce	n/a	221,853
Mirab Abaya	250	Leptic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Leptic	le	Aric	ai	Chromic	cr	Clayic	ce	Water	380,975
Mirab Abaya	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	47,500
Mirab Abaya	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,260,000
Mirab Abaya	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	Built-up	5,000
Mirab Abaya	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	118,768,247
Mirab Abaya	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Water	665
Mirab Abaya	577	Leptic Regosols Aric Clayic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Lamellic	ll	n/a	10,000
Mirab Abaya	60	Leptic Regosols Aric Fluvic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Geoabruptic	go	n/a	22,500
Mirab Abaya	254	Leptic Regosols Aric Fluvic Humic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Humic	hu	n/a	2,231,127
Mirab Abaya	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,625,000
Mirab Abaya	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	Built-up	37,500
Mirab Abaya	280	Mollic Solonchaks Alcalic Calcaric Clayic	Solonchaks	SC	Mollic	mo	Alcalic	ax	Calcaric	ca	Clayic	ce	n/a	372,500
Mirab Abaya	280	Mollic Solonchaks Alcalic Calcaric Clayic	Solonchaks	SC	Mollic	mo	Alcalic	ax	Calcaric	ca	Clayic	ce	Water	3,556,206
Mirab Abaya	584	Mollic Solonchaks Alcalic Calcaric Loamic	Solonchaks	SC	Mollic	mo	Alcalic	ax	Calcaric	ca	Loamic	lo	n/a	30,000
Mirab Abaya	282	Mollic Solonchaks Calcaric Clayic Colluvic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Colluvic	co	n/a	20,000
Mirab Abaya	282	Mollic Solonchaks Calcaric Clayic Colluvic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Colluvic	co	Water	1,572,500
Mirab Abaya	585	Mollic Solonchaks Calcaric Clayic Humic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Humic	hu	Water	77,500
Mirab Abaya	283	Mollic Solonchaks Calcaric Clayic Ochric	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Ochric	oh	n/a	167,500
Mirab Abaya	283	Mollic Solonchaks Calcaric Clayic Ochric	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Ochric	oh	Water	179,658,406
Mirab Abaya	284	Mollic Solonchaks Calcaric Clayic Skeletic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Skeletic	sk	n/a	297,500
Mirab Abaya	284	Mollic Solonchaks Calcaric Clayic Skeletic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Skeletic	sk	Water	727,500
Mirab Abaya	587	Mollic Solonchaks Clayic Colluvic Ochric	Solonchaks	SC	Mollic	mo	Clayic	ce	Colluvic	co	Ochric	oh	n/a	12,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Mirab Abaya	587	Mollic Solonchaks Clayic Colluvic Ochric	Solonchaks	SC	Mollic	mo	Clayic	ce	Colluvic	co	Ochric	oh	Water	100,000
Mirab Abaya	611	Stagnic Solonchaks Calcaric Clayic Skeletic	Solonchaks	SC	Stagnic	st	Calcaric	ca	Clayic	ce	Skeletic	sk	n/a	7,500
Mirab Abaya	588	Mollic Solonetz Albic Clayic Fluvic	Solonetz	SN	Mollic	mo	Albic	ab	Clayic	ce	Fluvic	fv	n/a	70,000
Mirab Abaya	588	Mollic Solonetz Albic Clayic Fluvic	Solonetz	SN	Mollic	mo	Albic	ab	Clayic	ce	Fluvic	fv	Water	1,145,000
Mirab Abaya	589	Mollic Solonetz Albic Fluvic Loamic	Solonetz	SN	Mollic	mo	Albic	ab	Fluvic	fv	Loamic	lo	n/a	10,000
Mirab Abaya	591	Mollic Solonetz Clayic Colluvic Fluvic	Solonetz	SN	Mollic	mo	Clayic	ce	Colluvic	co	Fluvic	fv	n/a	380,000
Mirab Abaya	591	Mollic Solonetz Clayic Colluvic Fluvic	Solonetz	SN	Mollic	mo	Clayic	ce	Colluvic	co	Fluvic	fv	Water	1,050,598
Mirab Abaya	592	Mollic Solonetz Clayic Cutanic Fluvic	Solonetz	SN	Mollic	mo	Clayic	ce	Cutanic	ct	Fluvic	fv	n/a	47,500
Mirab Abaya	593	Mollic Solonetz Clayic Fluvic Humic	Solonetz	SN	Mollic	mo	Clayic	ce	Fluvic	fv	Humic	hu	n/a	517,500
Mirab Abaya	593	Mollic Solonetz Clayic Fluvic Humic	Solonetz	SN	Mollic	mo	Clayic	ce	Fluvic	fv	Humic	hu	Water	7,500
Mirab Abaya	594	Mollic Solonetz Clayic Fluvic Ochric	Solonetz	SN	Mollic	mo	Clayic	ce	Fluvic	fv	Ochric	oh	n/a	879,353
Mirab Abaya	594	Mollic Solonetz Clayic Fluvic Ochric	Solonetz	SN	Mollic	mo	Clayic	ce	Fluvic	fv	Ochric	oh	Water	47,500
Mirab Abaya	595	Mollic Solonetz Colluvic Fluvic Loamic	Solonetz	SN	Mollic	mo	Colluvic	co	Fluvic	fv	Loamic	lo	n/a	205,000
Mirab Abaya	597	Mollic Solonetz Fluvic Loamic Ochric	Solonetz	SN	Mollic	mo	Fluvic	fv	Loamic	lo	Ochric	oh	n/a	667,500
Mirab Abaya	440	Leptic Vertisols Albic Aric Calcaric	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Calcaric	ca	n/a	35,000
Mirab Abaya	442	Leptic Vertisols Albic Aric Hypereutric	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Hypereutric	je	n/a	12,500
Mirab Abaya	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	8,284,570
Mirab Abaya	67	Leptic Vertisols Aric Calcaric Humic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Humic	hu	n/a	22,500
Mirab Abaya	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	17,096,084
Mirab Abaya	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Built-up	2,500
Mirab Abaya	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	3,136,520
Mirab Abaya	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	1,145,000
Mirab Abaya	258	Leptic Vertisols Aric Gilgaic Humic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Humic	hu	n/a	15,000
Mirab Abaya	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	15,291,673
Mirab Abaya	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Water	5,000
Mirab Abaya	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	7,500
Mirab Abaya	84	Leptic Vertisols Aric Humic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Hypereutric	je	n/a	2,409,412
Mirab Abaya	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	888,981
Mirab Abaya	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	Water	7,500
Mirab Abaya	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	1,160,055
Mirab Abaya	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	295,000
Mirab Abaya	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	1,538,138
Mirab Abaya	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	Built-up	10,000
Mirab Abaya	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	Water	16,043,635
Mirab Abaya	128	Salic Vertisols Aric Calcaric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mazic	mz	n/a	7,500
Mirab Abaya	128	Salic Vertisols Aric Calcaric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mazic	mz	Water	90,741
Mirab Abaya	129	Salic Vertisols Aric Calcaric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mollic	mo	n/a	35,000
Mirab Abaya	129	Salic Vertisols Aric Calcaric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Mollic	mo	Water	8,522,382
Mirab Abaya	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	17,500
Mirab Abaya	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	n/a	230,000
Mirab Abaya	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	Water	127,500
Mirab Abaya	312	Salic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mollic	mo	n/a	12,500
Mirab Abaya	312	Salic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mollic	mo	Water	1,245,000
Mirab Abaya	145	Sodic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	102,500
Raya Kobo	170	Chromic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Chromic	cr	Alcalic	ax	Aric	ai	Colluvic	co	n/a	80,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Raya Kobo	379	Chromic Arenosols Aric Aridic Colluvic	Arenosols	AR	Chromic	cr	Aric	ai	Aridic	ad	Colluvic	co	n/a	247,500
Raya Kobo	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	7,500
Raya Kobo	381	Chromic Arenosols Aric Colluvic Ochric	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Ochric	oh	n/a	45,000
Raya Kobo	174	Fluvic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Fluvic	fv	Alcalic	ax	Aric	ai	Colluvic	co	n/a	115,000
Raya Kobo	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	135,000
Raya Kobo	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	1,057,500
Raya Kobo	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	120,000
Raya Kobo	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	7,500
Raya Kobo	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	25,000
Raya Kobo	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,422,805
Raya Kobo	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	280,000
Raya Kobo	423	Hyperskeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	215,000
Raya Kobo	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	5,996,640
Raya Kobo	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	63,635,454
Raya Kobo	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	30,000
Raya Kobo	671	Hyperskeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Loamic	lo	n/a	47,500
Raya Kobo	210	Hyperskeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	87,500
Raya Kobo	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	10,902,217
Raya Kobo	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	7,500
Raya Kobo	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	1,562,500
Raya Kobo	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	82,433,901
Raya Kobo	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	434,554,275
Raya Kobo	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	5,000
Raya Kobo	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	14,160,000
Raya Kobo	581	Lithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Loamic	lo	n/a	2,217,064
Raya Kobo	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	55,000
Raya Kobo	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	12,500
Raya Kobo	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	99,326,604
Raya Kobo	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	Built-up	10,000
Raya Kobo	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	7,500
Raya Kobo	395	Nudilithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Fluvic	fv	n/a	17,500
Raya Kobo	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	610,506
Raya Kobo	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	25,581,455
Raya Kobo	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	390,000
Raya Kobo	600	Nudilithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Loamic	lo	n/a	175,000
Raya Kobo	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	5,243,706
Raya Kobo	400	Skeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Skeletal	sk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	90,000
Raya Kobo	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	63,392,543
Raya Kobo	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	Built-up	47,500
Raya Kobo	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	492,851,494
Raya Kobo	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	12,500
Raya Kobo	325	Skeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	10,000
Raya Kobo	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	3,877,057
Raya Kobo	678	Skeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Loamic	lo	n/a	772,500
Raya Kobo	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	70,906,636

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Raya Kobo	141	Skeletal Leptosols Aric Fluvisc Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvisc	fv	Loamic	lo	Built-up	32,500
Raya Kobo	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	160,000
Raya Kobo	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	60,000
Raya Kobo	48	Leptic Luvisols Aric Clayic Fluvisc	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvisc	fv	n/a	80,000
Raya Kobo	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	62,500
Raya Kobo	58	Leptic Regosols Aric Clayic Fluvisc	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvisc	fv	n/a	44,329,618
Raya Kobo	58	Leptic Regosols Aric Clayic Fluvisc	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvisc	fv	Built-up	75,000
Raya Kobo	577	Leptic Regosols Aric Clayic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Lamellic	ll	n/a	75,000
Raya Kobo	61	Leptic Regosols Aric Fluvisc Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvisc	fv	Loamic	lo	n/a	77,500
Raya Kobo	734	Irragric Vertisols Aric Gilgaic Grumic	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	15,524,946
Raya Kobo	673	Irragric Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	91,025,326
Raya Kobo	673	Irragric Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Irragric	ir	Aric	ai	Gilgaic	gg	Hypereutric	je	Water	15,000
Raya Kobo	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	10,514,533
Raya Kobo	66	Leptic Vertisols Aric Calcaric Grumic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Grumic	gm	n/a	20,000
Raya Kobo	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	1,848,544
Raya Kobo	71	Leptic Vertisols Aric Calcaric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Ochric	oh	n/a	22,500
Raya Kobo	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	160,685,323
Raya Kobo	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	Built-up	57,500
Raya Kobo	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	290,482,099
Raya Kobo	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	455,000
Raya Kobo	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Water	85,000
Raya Kobo	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	92,500
Raya Kobo	79	Leptic Vertisols Aric Gilgaic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Ochric	oh	n/a	522,500
Raya Kobo	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	492,500
Raya Kobo	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	150,000
Raya Kobo	125	Salic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	137,500
Raya Kobo	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	295,000
Raya Kobo	737	Salic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	752,085
Raya Kobo	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	4,994,755
Raya Kobo	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	Water	2,500
Raya Kobo	143	Sodic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	27,500
Raya Kobo	145	Sodic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	40,000
Raya Kobo	356	Sodic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	25,000
Saesie Tsaeda Emba	475	Albic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Albic	ab	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	52,500
Saesie Tsaeda Emba	509	Albic Arenosols Aric Aridic Colluvic	Arenosols	AR	Albic	ab	Aric	ai	Aridic	ad	Colluvic	co	n/a	30,000
Saesie Tsaeda Emba	476	Albic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Albic	ab	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	257,500
Saesie Tsaeda Emba	510	Albic Arenosols Aric Aridic Ochric	Arenosols	AR	Albic	ab	Aric	ai	Aridic	ad	Ochric	oh	n/a	20,000
Saesie Tsaeda Emba	403	Albic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Albic	ab	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	2,664,659
Saesie Tsaeda Emba	512	Albic Arenosols Aric Colluvic Hydrophobic	Arenosols	AR	Albic	ab	Aric	ai	Colluvic	co	Hydrophobic	hf	n/a	202,500
Saesie Tsaeda Emba	513	Albic Arenosols Aric Colluvic Ochric	Arenosols	AR	Albic	ab	Aric	ai	Colluvic	co	Ochric	oh	n/a	230,000
Saesie Tsaeda Emba	404	Albic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Albic	ab	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	307,734
Saesie Tsaeda Emba	478	Albic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Albic	ab	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	294,962
Saesie Tsaeda Emba	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	7,500
Saesie Tsaeda Emba	174	Fluvisc Arenosols Alcalic Aric Colluvic	Arenosols	AR	Fluvisc	fv	Alcalic	ax	Aric	ai	Colluvic	co	n/a	32,500
Saesie Tsaeda Emba	182	Fluvisc Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Fluvisc	fv	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	12,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Saesie Tsaeda Emba	519	Gleyic Arenosols Alcalic Aric Aridic	Arenosols	AR	Gleyic	gl	Alcalic	ax	Aric	ai	Aridic	ad	n/a	10,000
Saesie Tsaeda Emba	482	Gleyic Arenosols Alcalic Aric Colluvic	Arenosols	AR	Gleyic	gl	Alcalic	ax	Aric	ai	Colluvic	co	n/a	42,500
Saesie Tsaeda Emba	411	Gleyic Arenosols Alcalic Aric Geoabruptic	Arenosols	AR	Gleyic	gl	Alcalic	ax	Aric	ai	Geoabruptic	go	n/a	265,000
Saesie Tsaeda Emba	412	Gleyic Arenosols Aric Aridic Colluvic	Arenosols	AR	Gleyic	gl	Aric	ai	Aridic	ad	Colluvic	co	n/a	285,000
Saesie Tsaeda Emba	413	Gleyic Arenosols Aric Aridic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Aridic	ad	Geoabruptic	go	n/a	250,000
Saesie Tsaeda Emba	414	Gleyic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	11,467,530
Saesie Tsaeda Emba	523	Gleyic Arenosols Aric Colluvic Hydrophobic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Hydrophobic	hf	n/a	660,000
Saesie Tsaeda Emba	524	Gleyic Arenosols Aric Colluvic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Ochric	oh	n/a	125,000
Saesie Tsaeda Emba	415	Gleyic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Hydrophobic	hf	n/a	31,306,052
Saesie Tsaeda Emba	415	Gleyic Arenosols Aric Geoabruptic Hydrophobic	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Hydrophobic	hf	Water	10,000
Saesie Tsaeda Emba	416	Gleyic Arenosols Aric Geoabruptic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	2,664,191
Saesie Tsaeda Emba	484	Gleyic Arenosols Aric Hydrophobic Ochric	Arenosols	AR	Gleyic	gl	Aric	ai	Hydrophobic	hf	Ochric	oh	n/a	125,000
Saesie Tsaeda Emba	194	Fluvic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Fluvic	fv	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	3,672,500
Saesie Tsaeda Emba	201	Fluvic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	8,304,095
Saesie Tsaeda Emba	201	Fluvic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Fluvic	fv	Aric	ai	Clayic	ce	Geoabruptic	go	Water	17,500
Saesie Tsaeda Emba	518	Fluvic Cambisols Aric Geoabruptic Ochric	Cambisols	CM	Fluvic	fv	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	490,000
Saesie Tsaeda Emba	485	Gleyic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Gleyic	gl	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	1,432,500
Saesie Tsaeda Emba	419	Gleyic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Gleyic	gl	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	9,520,968
Saesie Tsaeda Emba	526	Gleyic Cambisols Aric Geoabruptic Ochric	Cambisols	CM	Gleyic	gl	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	287,500
Saesie Tsaeda Emba	529	Leptic Cambisols Alcalic Arenic Aric	Cambisols	CM	Leptic	le	Alcalic	ax	Arenic	ar	Aric	ai	n/a	60,000
Saesie Tsaeda Emba	223	Leptic Cambisols Alcalic Aric Clayic	Cambisols	CM	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	295,000
Saesie Tsaeda Emba	426	Leptic Cambisols Arenic Aric Aridic	Cambisols	CM	Leptic	le	Arenic	ar	Aric	ai	Aridic	ad	n/a	305,000
Saesie Tsaeda Emba	532	Leptic Cambisols Arenic Aric Colluvic	Cambisols	CM	Leptic	le	Arenic	ar	Aric	ai	Colluvic	co	n/a	18,827,500
Saesie Tsaeda Emba	427	Leptic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Leptic	le	Arenic	ar	Aric	ai	Geoabruptic	go	n/a	54,952,500
Saesie Tsaeda Emba	427	Leptic Cambisols Arenic Aric Geoabruptic	Cambisols	CM	Leptic	le	Arenic	ar	Aric	ai	Geoabruptic	go	Built-up	475,000
Saesie Tsaeda Emba	383	Leptic Cambisols Aric Aridic Clayic	Cambisols	CM	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	775,000
Saesie Tsaeda Emba	33	Leptic Cambisols Aric Clayic Colluvic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	41,596,669
Saesie Tsaeda Emba	226	Leptic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	44,229,318
Saesie Tsaeda Emba	226	Leptic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	Built-up	17,500
Saesie Tsaeda Emba	226	Leptic Cambisols Aric Clayic Geoabruptic	Cambisols	CM	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	Water	5,000
Saesie Tsaeda Emba	535	Leptic Cambisols Aric Geoabruptic Ochric	Cambisols	CM	Leptic	le	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	65,000
Saesie Tsaeda Emba	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	55,000
Saesie Tsaeda Emba	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	15,000
Saesie Tsaeda Emba	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	12,154,412
Saesie Tsaeda Emba	237	Leptic Fluvisols Aric Geoabruptic Ochric	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Ochric	oh	n/a	435,000
Saesie Tsaeda Emba	515	Cambic Leptosols Arenic Aric Aridic	Leptosols	LP	Cambic	cm	Arenic	ar	Aric	ai	Aridic	ad	n/a	280,000
Saesie Tsaeda Emba	516	Cambic Leptosols Arenic Aric Colluvic	Leptosols	LP	Cambic	cm	Arenic	ar	Aric	ai	Colluvic	co	n/a	37,500
Saesie Tsaeda Emba	166	Cambic Leptosols Arenic Aric Fluvic	Leptosols	LP	Cambic	cm	Arenic	ar	Aric	ai	Fluvic	fv	n/a	448,709
Saesie Tsaeda Emba	167	Cambic Leptosols Aric Aridic Clayic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,738,709
Saesie Tsaeda Emba	168	Cambic Leptosols Aric Aridic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Fluvic	fv	n/a	343,706
Saesie Tsaeda Emba	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	1,258,237
Saesie Tsaeda Emba	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	33,544,247
Saesie Tsaeda Emba	405	Cambic Leptosols Aric Clayic Gleyic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Gleyic	gl	n/a	590,000
Saesie Tsaeda Emba	169	Cambic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Colluvic	co	Fluvic	fv	n/a	35,000
Saesie Tsaeda Emba	17	Cambic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	626,206

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Saesie Tsaeda Emba	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	344,353
Saesie Tsaeda Emba	527	Hyperskeletal Leptosols Arenic Aric Aridic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Aridic	ad	n/a	185,506
Saesie Tsaeda Emba	492	Hyperskeletal Leptosols Arenic Aric Colluvic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Colluvic	co	n/a	7,500
Saesie Tsaeda Emba	423	Hyperskeletal Leptosols Arenic Aric Fluvic	Leptosols	LP	Hyperskeletal	jk	Arenic	ar	Aric	ai	Fluvic	fv	n/a	387,070
Saesie Tsaeda Emba	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	769,643
Saesie Tsaeda Emba	26	Hyperskeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	60,000
Saesie Tsaeda Emba	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	732,177
Saesie Tsaeda Emba	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	54,792,626
Saesie Tsaeda Emba	424	Hyperskeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	3,784,074
Saesie Tsaeda Emba	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	67,500
Saesie Tsaeda Emba	210	Hyperskeletal Leptosols Aric Fluvic Gleyic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	338,310
Saesie Tsaeda Emba	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,019,815
Saesie Tsaeda Emba	212	Hyperskeletal Leptosols Aric Fluvic Ochric	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Ochric	oh	n/a	22,500
Saesie Tsaeda Emba	389	Lithic Leptosols Arenic Aric Aridic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Aridic	ad	n/a	127,500
Saesie Tsaeda Emba	390	Lithic Leptosols Arenic Aric Colluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Colluvic	co	n/a	110,000
Saesie Tsaeda Emba	98	Lithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Fluvic	fv	n/a	3,935,000
Saesie Tsaeda Emba	450	Lithic Leptosols Arenic Aric Gleyic	Leptosols	LP	Lithic	li	Arenic	ar	Aric	ai	Gleyic	gl	n/a	112,500
Saesie Tsaeda Emba	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,292,177
Saesie Tsaeda Emba	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	27,500
Saesie Tsaeda Emba	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	5,405,470
Saesie Tsaeda Emba	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	314,496,903
Saesie Tsaeda Emba	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	40,354,961
Saesie Tsaeda Emba	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	252,500
Saesie Tsaeda Emba	538	Lithic Leptosols Aric Colluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Gleyic	gl	n/a	12,500
Saesie Tsaeda Emba	266	Lithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	9,378,778
Saesie Tsaeda Emba	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	52,500
Saesie Tsaeda Emba	106	Lithic Leptosols Aric Fluvic Ochric	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Ochric	oh	n/a	1,380,000
Saesie Tsaeda Emba	541	Lithic Leptosols Aric Gleyic Ochric	Leptosols	LP	Lithic	li	Aric	ai	Gleyic	gl	Ochric	oh	n/a	390,000
Saesie Tsaeda Emba	453	Lithic Leptosols Clayic Fluvic Gleyic	Leptosols	LP	Lithic	li	Clayic	ce	Fluvic	fv	Gleyic	gl	n/a	1,092,500
Saesie Tsaeda Emba	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	60,000
Saesie Tsaeda Emba	395	Nudilithic Leptosols Arenic Aric Fluvic	Leptosols	LP	Nudilithic	nt	Arenic	ar	Aric	ai	Fluvic	fv	n/a	252,500
Saesie Tsaeda Emba	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	3,031,428
Saesie Tsaeda Emba	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	265,000
Saesie Tsaeda Emba	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	17,500
Saesie Tsaeda Emba	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	11,553,134
Saesie Tsaeda Emba	325	Skeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	3,017,149
Saesie Tsaeda Emba	420	Gleyic Luvisols Arenic Aric Fluvic	Luvisols	LV	Gleyic	gl	Arenic	ar	Aric	ai	Fluvic	fv	n/a	82,500
Saesie Tsaeda Emba	421	Gleyic Luvisols Aric Clayic Fluvic	Luvisols	LV	Gleyic	gl	Aric	ai	Clayic	ce	Fluvic	fv	n/a	8,695,080
Saesie Tsaeda Emba	422	Gleyic Luvisols Aric Fluvic Loamic	Luvisols	LV	Gleyic	gl	Aric	ai	Fluvic	fv	Loamic	lo	n/a	70,000
Saesie Tsaeda Emba	491	Gleyic Luvisols Aric Fluvic Ochric	Luvisols	LV	Gleyic	gl	Aric	ai	Fluvic	fv	Ochric	oh	n/a	22,500
Saesie Tsaeda Emba	239	Leptic Luvisols Arenic Aric Aridic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Aridic	ad	n/a	40,000
Saesie Tsaeda Emba	240	Leptic Luvisols Arenic Aric Fluvic	Luvisols	LV	Leptic	le	Arenic	ar	Aric	ai	Fluvic	fv	n/a	4,532,500
Saesie Tsaeda Emba	45	Leptic Luvisols Aric Aridic Clayic	Luvisols	LV	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	27,500
Saesie Tsaeda Emba	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	25,000
Saesie Tsaeda Emba	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	47,375,403

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Saesie Tsaeda Emba	53	Leptic Luvisols Aric Fluvic Loamic	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	315,000
Saesie Tsaeda Emba	243	Leptic Luvisols Aric Fluvic Ochric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Ochric	oh	n/a	2,555,000
Saesie Tsaeda Emba	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	17,500
Saesie Tsaeda Emba	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	174,325,502
Saesie Tsaeda Emba	58	Leptic Regosols Aric Calcaric Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	7,500
Saesie Tsaeda Emba	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Water	7,500
Saesie Tsaeda Emba	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	1,107,433
Saesie Tsaeda Emba	62	Leptic Regosols Aric Fluvic Ochric	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Ochric	oh	n/a	170,000
Saesie Tsaeda Emba	498	Leptic Vertisols Albic Aric Gilgaic	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Gilgaic	gg	n/a	892,500
Saesie Tsaeda Emba	441	Leptic Vertisols Albic Aric Gleyic	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Gleyic	gl	n/a	17,421,371
Saesie Tsaeda Emba	441	Leptic Vertisols Albic Aric Gleyic	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Gleyic	gl	Water	37,500
Saesie Tsaeda Emba	65	Leptic Vertisols Aric Calcaric Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gleyic	gl	n/a	418,923
Saesie Tsaeda Emba	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	15,000
Saesie Tsaeda Emba	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	n/a	6,196,591
Saesie Tsaeda Emba	385	Leptic Vertisols Aric Gilgaic Gleyic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Gleyic	gl	Water	2,500
Saesie Tsaeda Emba	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	561,749
Saesie Tsaeda Emba	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	Water	2,500
Saesie Tsaeda Emba	386	Leptic Vertisols Aric Gleyic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mazic	mz	n/a	365,866
Saesie Tsaeda Emba	386	Leptic Vertisols Aric Gleyic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mazic	mz	Water	245,000
Saesie Tsaeda Emba	82	Leptic Vertisols Aric Gleyic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mollic	mo	n/a	9,431,198
Saesie Tsaeda Emba	82	Leptic Vertisols Aric Gleyic Mollic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Mollic	mo	Water	40,000
Saesie Tsaeda Emba	387	Leptic Vertisols Aric Gleyic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Ochric	oh	n/a	272,500
Saesie Tsaeda Emba	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	Water	7,500
Saesie Tsaeda Emba	310	Salic Vertisols Aric Gleyic Mollic	Vertisols	VR	Salic	sz	Aric	ai	Gleyic	gl	Mollic	mo	n/a	20,000
Silti	628	Leptic Alisols Aric Clayic Colluvic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	22,070
Silti	218	Leptic Alisols Aric Clayic Cutanic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	8,828,171
Silti	219	Leptic Alisols Aric Clayic Fluvic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,787,883
Silti	220	Leptic Alisols Aric Clayic Humic	Alisols	AL	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	24,960,000
Silti	608	Stagnic Alisols Aric Clayic Cutanic	Alisols	AL	Stagnic	st	Aric	ai	Clayic	ce	Cutanic	ct	n/a	7,500
Silti	643	Stagnic Alisols Aric Clayic Humic	Alisols	AL	Stagnic	st	Aric	ai	Clayic	ce	Humic	hu	n/a	50,000
Silti	364	Vertic Alisols Aric Clayic Cutanic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	316,929
Silti	365	Vertic Alisols Aric Clayic Fluvic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	n/a	12,500
Silti	366	Vertic Alisols Aric Clayic Humic	Alisols	AL	Vertic	vr	Aric	ai	Clayic	ce	Humic	hu	n/a	3,622,802
Silti	152	Vitric Andosols Aric Calcaric Clayic	Andosols	AN	Vitric	vi	Aric	ai	Calcaric	ca	Clayic	ce	n/a	19,353
Silti	34	Leptic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Aridic	ad	n/a	95,000
Silti	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	1,800,000
Silti	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	122,500
Silti	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	82,500
Silti	295	Orthofluvic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Aridic	ad	n/a	135,000
Silti	296	Orthofluvic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Orthofluvic	of	Alcalic	ax	Aric	ai	Clayic	ce	n/a	15,783,485
Silti	115	Orthofluvic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,160,000
Silti	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	1,152,500
Silti	332	Sodic Fluvisols Alcalic Aric Aridic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Aridic	ad	n/a	10,000
Silti	333	Sodic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Sodic	so	Alcalic	ax	Aric	ai	Clayic	ce	n/a	42,500
Silti	614	Calcic Kastanozems Andic Aric Cambic	Kastanozems	KS	Calcic	cc	Andic	an	Aric	ai	Cambic	cm	n/a	32,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Silti	615	Calcic Kastanozems Andic Aric Clayic	Kastanozems	KS	Calcic	cc	Andic	an	Aric	ai	Clayic	ce	n/a	12,500
Silti	616	Calcic Kastanozems Aric Cambic Clayic	Kastanozems	KS	Calcic	cc	Aric	ai	Cambic	cm	Clayic	ce	n/a	10,000
Silti	11	Cambic Leptosols Andic Aric Clayic	Leptosols	LP	Cambic	cm	Andic	an	Aric	ai	Clayic	ce	n/a	30,000
Silti	167	Cambic Leptosols Aric Aridic Clayic	Leptosols	LP	Cambic	cm	Aric	ai	Aridic	ad	Clayic	ce	n/a	35,000
Silti	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	201,943
Silti	21	Hyperskeletal Leptosols Andic Aric Clayic	Leptosols	LP	Hyperskeletal	jk	Andic	an	Aric	ai	Clayic	ce	n/a	154,209
Silti	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	272,500
Silti	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	Water	25,000
Silti	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	100,000
Silti	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	503,706
Silti	627	Hyperskeletal Leptosols Aric Clayic Stagnic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Stagnic	st	n/a	57,500
Silti	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	67,500
Silti	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	740,000
Silti	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	275,000
Silti	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	Water	27,500
Silti	261	Lithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Fluvic	fv	n/a	7,500
Silti	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	1,346,421
Silti	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	15,273,787
Silti	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	Water	10,000
Silti	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	17,500
Silti	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	162,500
Silti	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	492,500
Silti	108	Mollic Leptosols Andic Aric Clayic	Leptosols	LP	Mollic	mo	Andic	an	Aric	ai	Clayic	ce	n/a	410,000
Silti	270	Mollic Leptosols Aric Aridic Clayic	Leptosols	LP	Mollic	mo	Aric	ai	Aridic	ad	Clayic	ce	n/a	35,000
Silti	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	447,500
Silti	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	Water	317,500
Silti	636	Mollic Leptosols Aric Clayic Salic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Salic	sz	n/a	7,500
Silti	110	Nudilithic Leptosols Andic Aric Clayic	Leptosols	LP	Nudilithic	nt	Andic	an	Aric	ai	Clayic	ce	n/a	185,000
Silti	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	330,000
Silti	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	Water	7,500
Silti	285	Nudilithic Leptosols Aric Aridic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Fluvic	fv	n/a	145,000
Silti	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	4,075,559
Silti	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	21,268,588
Silti	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	Water	502,500
Silti	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	107,500
Silti	287	Nudilithic Leptosols Aric Clayic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Humic	hu	n/a	7,500
Silti	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	420,000
Silti	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	Water	2,500
Silti	289	Nudilithic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	515,000
Silti	290	Nudilithic Leptosols Aric Fluvic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Humic	hu	n/a	5,595,614
Silti	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,841,709
Silti	292	Nudilithic Leptosols Aric Gleyic Humic	Leptosols	LP	Nudilithic	nt	Aric	ai	Gleyic	gl	Humic	hu	n/a	30,000
Silti	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	876,853
Silti	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	25,000
Silti	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	175,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Silti	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	6,250,976
Silti	641	Skeletal Leptosols Aric Clayic Stagnic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Stagnic	st	n/a	42,500
Silti	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	37,500
Silti	3	Abruptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Fluvic	fv	n/a	12,500
Silti	41	Leptic Luvisols Andic Aric Clayic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Clayic	ce	n/a	7,500
Silti	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	7,500
Silti	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	7,385,000
Silti	242	Leptic Luvisols Aric Clayic Humic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	485,000
Silti	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	5,904,570
Silti	370	Vertic Luvisols Aric Clayic Humic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Humic	hu	n/a	42,500
Silti	151	Vertic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Hypereutric	je	n/a	210,000
Silti	618	Chernic Phaeozems Andic Aric Clayic	Phaeozems	PH	Chernic	ch	Andic	an	Aric	ai	Clayic	ce	n/a	12,500
Silti	620	Fluvic Phaeozems Abruptic Albic Aric	Phaeozems	PH	Fluvic	fv	Abruptic	ap	Albic	ab	Aric	ai	n/a	10,000
Silti	548	Fluvic Phaeozems Abruptic Aric Chromic	Phaeozems	PH	Fluvic	fv	Abruptic	ap	Aric	ai	Chromic	cr	n/a	57,500
Silti	549	Fluvic Phaeozems Abruptic Aric Clayic	Phaeozems	PH	Fluvic	fv	Abruptic	ap	Aric	ai	Clayic	ce	n/a	25,000
Silti	621	Fluvic Phaeozems Albic Andic Aric	Phaeozems	PH	Fluvic	fv	Albic	ab	Andic	an	Aric	ai	n/a	20,000
Silti	622	Fluvic Phaeozems Albic Aric Clayic	Phaeozems	PH	Fluvic	fv	Albic	ab	Aric	ai	Clayic	ce	n/a	57,500
Silti	552	Fluvic Phaeozems Andic Aric Chromic	Phaeozems	PH	Fluvic	fv	Andic	an	Aric	ai	Chromic	cr	n/a	75,000
Silti	623	Fluvic Phaeozems Andic Aric Clayic	Phaeozems	PH	Fluvic	fv	Andic	an	Aric	ai	Clayic	ce	n/a	1,867,500
Silti	203	Fluvic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Fluvic	fv	Aric	ai	Chromic	cr	Clayic	ce	n/a	657,500
Silti	204	Fluvic Phaeozems Aric Clayic Colluvic	Phaeozems	PH	Fluvic	fv	Aric	ai	Clayic	ce	Colluvic	co	n/a	107,500
Silti	625	Fluvic Phaeozems Aric Clayic Sodic	Phaeozems	PH	Fluvic	fv	Aric	ai	Clayic	ce	Sodic	so	n/a	562,500
Silti	569	Leptic Phaeozems Abruptic Albic Aric	Phaeozems	PH	Leptic	le	Abruptic	ap	Albic	ab	Aric	ai	n/a	25,000
Silti	436	Leptic Phaeozems Abruptic Aric Chromic	Phaeozems	PH	Leptic	le	Abruptic	ap	Aric	ai	Chromic	cr	n/a	12,500
Silti	570	Leptic Phaeozems Abruptic Aric Clayic	Phaeozems	PH	Leptic	le	Abruptic	ap	Aric	ai	Clayic	ce	n/a	80,000
Silti	631	Leptic Phaeozems Albic Aric Clayic	Phaeozems	PH	Leptic	le	Albic	ab	Aric	ai	Clayic	ce	n/a	7,500
Silti	632	Leptic Phaeozems Andic Aric Chromic	Phaeozems	PH	Leptic	le	Andic	an	Aric	ai	Chromic	cr	n/a	20,000
Silti	633	Leptic Phaeozems Andic Aric Clayic	Phaeozems	PH	Leptic	le	Andic	an	Aric	ai	Clayic	ce	n/a	410,000
Silti	250	Leptic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Leptic	le	Aric	ai	Chromic	cr	Clayic	ce	n/a	1,180,000
Silti	250	Leptic Phaeozems Aric Chromic Clayic	Phaeozems	PH	Leptic	le	Aric	ai	Chromic	cr	Clayic	ce	Water	5,000
Silti	634	Leptic Phaeozems Aric Clayic Sodic	Phaeozems	PH	Leptic	le	Aric	ai	Clayic	ce	Sodic	so	n/a	442,500
Silti	634	Leptic Phaeozems Aric Clayic Sodic	Phaeozems	PH	Leptic	le	Aric	ai	Clayic	ce	Sodic	so	Water	7,500
Silti	644	Stagnic Phaeozems Abruptic Albic Aric	Phaeozems	PH	Stagnic	st	Abruptic	ap	Albic	ab	Aric	ai	n/a	10,000
Silti	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	979,766
Silti	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,535,000
Silti	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	169,678,691
Silti	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	332,500
Silti	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	40,000
Silti	253	Leptic Regosols Aric Clayic Humic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	30,000
Silti	254	Leptic Regosols Aric Fluvic Humic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Humic	hu	n/a	7,500
Silti	348	Sodic Regosols Aric Aridic Clayic	Regosols	RG	Sodic	so	Aric	ai	Aridic	ad	Clayic	ce	n/a	15,000
Silti	350	Sodic Regosols Aric Clayic Fluvic	Regosols	RG	Sodic	so	Aric	ai	Clayic	ce	Fluvic	fv	n/a	27,500
Silti	280	Mollic Solonchaks Alcalic Calcaric Clayic	Solonchaks	SC	Mollic	mo	Alcalic	ax	Calcaric	ca	Clayic	ce	n/a	3,027,500
Silti	638	Mollic Solonchaks Aridic Calcaric Clayic	Solonchaks	SC	Mollic	mo	Aridic	ad	Calcaric	ca	Clayic	ce	n/a	85,000
Silti	585	Mollic Solonchaks Calcaric Clayic Humic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Humic	hu	n/a	25,000

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Silti	283	Mollic Solonchaks Calcaric Clayic Ochric	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Ochric	oh	n/a	32,500
Silti	283	Mollic Solonchaks Calcaric Clayic Ochric	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Ochric	oh	Water	132,500
Silti	284	Mollic Solonchaks Calcaric Clayic Skeletic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Skeletic	sk	n/a	4,387,500
Silti	284	Mollic Solonchaks Calcaric Clayic Skeletic	Solonchaks	SC	Mollic	mo	Calcaric	ca	Clayic	ce	Skeletic	sk	Water	27,500
Silti	159	Calcic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Calcic	cc	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	67,500
Silti	617	Calcic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Calcic	cc	Aric	ai	Hypereutric	je	Mazic	mz	n/a	25,000
Silti	440	Leptic Vertisols Albic Aric Calcaric	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Calcaric	ca	n/a	30,000
Silti	442	Leptic Vertisols Albic Aric Hypereutric	Vertisols	VR	Leptic	le	Albic	ab	Aric	ai	Hypereutric	je	n/a	152,500
Silti	63	Leptic Vertisols Aric Calcaric Chernic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Chernic	ch	n/a	40,000
Silti	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	3,237,469
Silti	66	Leptic Vertisols Aric Calcaric Grumic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Grumic	gm	n/a	10,000
Silti	67	Leptic Vertisols Aric Calcaric Humic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Humic	hu	n/a	98,834
Silti	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	99,527,299
Silti	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Built-up	67,500
Silti	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Water	32,500
Silti	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	342,500
Silti	578	Leptic Vertisols Aric Chernic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Grumic	gm	n/a	10,000
Silti	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	4,288,796
Silti	258	Leptic Vertisols Aric Gilgaic Humic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Humic	hu	n/a	25,000
Silti	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	27,661,080
Silti	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	27,500
Silti	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Water	17,500
Silti	81	Leptic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	212,500
Silti	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	47,500
Silti	84	Leptic Vertisols Aric Humic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Hypereutric	je	n/a	90,000
Silti	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	11,385,934
Silti	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	Built-up	12,500
Silti	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	Water	65,000
Silti	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	138,844,789
Silti	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	Built-up	97,500
Silti	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	1,332,500
Silti	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	9,777,576
Silti	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	Water	9,067,500
Silti	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	42,500
Silti	465	Salic Vertisols Aric Gleyic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gleyic	gl	Hypereutric	je	n/a	65,000
Silti	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	n/a	1,225,000
Silti	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	Water	885,000
Silti	312	Salic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mollic	mo	n/a	3,781,853
Silti	312	Salic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mollic	mo	Built-up	45,000
Silti	312	Salic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mollic	mo	Water	812,500
Silti	145	Sodic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	215,000
Silti	357	Sodic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Sodic	so	Aric	ai	Hypereutric	je	Mazic	mz	n/a	20,000
Silti	358	Sodic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Sodic	so	Aric	ai	Hypereutric	je	Mollic	mo	n/a	35,000
Sire	152	Vitric Andosols Aric Calcaric Clayic	Andosols	AN	Vitric	vi	Aric	ai	Calcaric	ca	Clayic	ce	n/a	247,500
Sire	153	Vitric Andosols Aric Calcaric Fluvic	Andosols	AN	Vitric	vi	Aric	ai	Calcaric	ca	Fluvic	fv	n/a	267,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Sire	146	Vertic Cambisols Aric Clayic Colluvic	Cambisols	CM	Vertic	vr	Aric	ai	Clayic	ce	Colluvic	co	n/a	32,500
Sire	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	12,468,531
Sire	35	Leptic Fluvisols Alcalic Aric Clayic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	Built-up	32,500
Sire	36	Leptic Fluvisols Alcalic Aric Loamic	Fluvisols	FL	Leptic	le	Alcalic	ax	Aric	ai	Loamic	lo	n/a	35,000
Sire	37	Leptic Fluvisols Aric Aridic Clayic	Fluvisols	FL	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,735,000
Sire	39	Leptic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	165,000
Sire	40	Leptic Fluvisols Aric Geoabruptic Loamic	Fluvisols	FL	Leptic	le	Aric	ai	Geoabruptic	go	Loamic	lo	n/a	10,000
Sire	116	Orthofluvic Fluvisols Aric Clayic Geoabruptic	Fluvisols	FL	Orthofluvic	of	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	7,500
Sire	11	Cambic Leptosols Andic Aric Clayic	Leptosols	LP	Cambic	cm	Andic	an	Aric	ai	Clayic	ce	n/a	19,408,355
Sire	12	Cambic Leptosols Andic Aric Fluvic	Leptosols	LP	Cambic	cm	Andic	an	Aric	ai	Fluvic	fv	n/a	2,330,000
Sire	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	n/a	72,500
Sire	15	Cambic Leptosols Aric Clayic Colluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Colluvic	co	Built-up	7,500
Sire	16	Cambic Leptosols Aric Clayic Fluvic	Leptosols	LP	Cambic	cm	Aric	ai	Clayic	ce	Fluvic	fv	n/a	7,802,499
Sire	17	Cambic Leptosols Aric Fluvic Gleyic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Gleyic	gl	n/a	10,000
Sire	18	Cambic Leptosols Aric Fluvic Loamic	Leptosols	LP	Cambic	cm	Aric	ai	Fluvic	fv	Loamic	lo	n/a	390,349
Sire	21	Hyperskeletal Leptosols Andic Aric Clayic	Leptosols	LP	Hyperskeletal	jk	Andic	an	Aric	ai	Clayic	ce	n/a	5,250,000
Sire	22	Hyperskeletal Leptosols Andic Aric Fluvic	Leptosols	LP	Hyperskeletal	jk	Andic	an	Aric	ai	Fluvic	fv	n/a	1,595,000
Sire	23	Hyperskeletal Leptosols Andic Aric Loamic	Leptosols	LP	Hyperskeletal	jk	Andic	an	Aric	ai	Loamic	lo	n/a	815,000
Sire	24	Hyperskeletal Leptosols Andic Aric Siltic	Leptosols	LP	Hyperskeletal	jk	Andic	an	Aric	ai	Siltic	sl	n/a	357,500
Sire	25	Hyperskeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Aridic	ad	Clayic	ce	n/a	10,000
Sire	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	27,500
Sire	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	Built-up	70,000
Sire	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	5,367,941
Sire	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	2,626,128
Sire	31	Hyperskeletal Leptosols Aric Fluvic Siltic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Siltic	sl	n/a	52,500
Sire	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	n/a	15,027,038
Sire	94	Lithic Leptosols Andic Aric Clayic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Clayic	ce	Built-up	7,500
Sire	95	Lithic Leptosols Andic Aric Fluvic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Fluvic	fv	n/a	340,000
Sire	96	Lithic Leptosols Andic Aric Loamic	Leptosols	LP	Lithic	li	Andic	an	Aric	ai	Loamic	lo	n/a	15,000
Sire	99	Lithic Leptosols Aric Aridic Clayic	Leptosols	LP	Lithic	li	Aric	ai	Aridic	ad	Clayic	ce	n/a	315,362
Sire	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	5,350,435
Sire	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	Built-up	227,500
Sire	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	38,390,346
Sire	102	Lithic Leptosols Aric Clayic Ochric	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Ochric	oh	n/a	40,000
Sire	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	422,500
Sire	111	Nudilithic Leptosols Aric Aridic Clayic	Leptosols	LP	Nudilithic	nt	Aric	ai	Aridic	ad	Clayic	ce	n/a	17,500
Sire	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	212,500
Sire	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	4,668,867
Sire	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	24,028,945
Sire	131	Skeletal Leptosols Andic Aric Fluvic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Fluvic	fv	n/a	1,942,500
Sire	132	Skeletal Leptosols Andic Aric Loamic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Loamic	lo	n/a	7,500
Sire	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	2,896,316
Sire	135	Skeletal Leptosols Aric Aridic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Fluvic	fv	n/a	7,500
Sire	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	18,795,864
Sire	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	Built-up	227,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Sire	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	74,119,463
Sire	138	Skeletal Leptosols Aric Clayic Ochric	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Ochric	oh	n/a	10,000
Sire	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	7,500
Sire	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,060,115
Sire	1	Abruptic Luvisols Andic Aric Clayic	Luvisols	LV	Abruptic	ap	Andic	an	Aric	ai	Clayic	ce	n/a	287,500
Sire	2	Abruptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Cutanic	ct	n/a	117,500
Sire	3	Abruptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Fluvic	fv	n/a	105,000
Sire	4	Abruptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Abruptic	ap	Aric	ai	Clayic	ce	Hypereutric	je	n/a	80,000
Sire	41	Leptic Luvisols Andic Aric Clayic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Clayic	ce	n/a	107,178,719
Sire	41	Leptic Luvisols Andic Aric Clayic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Clayic	ce	Built-up	135,000
Sire	42	Leptic Luvisols Andic Aric Fluvic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Fluvic	fv	n/a	237,500
Sire	44	Leptic Luvisols Andic Aric Siltic	Luvisols	LV	Leptic	le	Andic	an	Aric	ai	Siltic	sl	n/a	32,500
Sire	45	Leptic Luvisols Aric Aridic Clayic	Luvisols	LV	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,521,551
Sire	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	16,755,000
Sire	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	106,319,453
Sire	48	Leptic Luvisols Aric Clayic Fluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	845,000
Sire	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	32,588,142
Sire	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	Built-up	27,500
Sire	51	Leptic Luvisols Aric Clayic Ochric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Ochric	oh	n/a	17,500
Sire	52	Leptic Luvisols Aric Fluvic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Fluvic	fv	Hypereutric	je	n/a	7,500
Sire	147	Vertic Luvisols Andic Aric Clayic	Luvisols	LV	Vertic	vr	Andic	an	Aric	ai	Clayic	ce	n/a	1,367,500
Sire	149	Vertic Luvisols Aric Clayic Cutanic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	960,000
Sire	150	Vertic Luvisols Aric Clayic Fluvic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Fluvic	fv	n/a	402,500
Sire	151	Vertic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Hypereutric	je	n/a	860,000
Sire	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	n/a	2,465,000
Sire	54	Leptic Regosols Alcalic Aric Clayic	Regosols	RG	Leptic	le	Alcalic	ax	Aric	ai	Clayic	ce	Built-up	67,500
Sire	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,896,316
Sire	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	83,405,143
Sire	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	Built-up	270,000
Sire	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	7,500
Sire	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	62,500
Sire	62	Leptic Regosols Aric Fluvic Ochric	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Ochric	oh	n/a	67,500
Sire	10	Calcic Vertisols Aric Mollic Skeletic	Vertisols	VR	Calcic	cc	Aric	ai	Mollic	mo	Skeletal	sk	n/a	238,102
Sire	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	59,414,156
Sire	64	Leptic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Gilgaic	gg	Built-up	75,000
Sire	66	Leptic Vertisols Aric Calcaric Grumic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Grumic	gm	n/a	1,299,570
Sire	66	Leptic Vertisols Aric Calcaric Grumic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Grumic	gm	Built-up	17,500
Sire	67	Leptic Vertisols Aric Calcaric Humic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Humic	hu	n/a	130,000
Sire	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	86,715,859
Sire	68	Leptic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Hypereutric	je	Built-up	50,000
Sire	69	Leptic Vertisols Aric Calcaric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mazic	mz	n/a	245,000
Sire	70	Leptic Vertisols Aric Calcaric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Mollic	mo	n/a	405,000
Sire	71	Leptic Vertisols Aric Calcaric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Ochric	oh	n/a	25,000
Sire	72	Leptic Vertisols Aric Calcaric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Calcaric	ca	Skeletal	sk	n/a	42,648,600
Sire	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	9,017,935

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Sire	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	70,000
Sire	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	40,000
Sire	80	Leptic Vertisols Aric Gilgaic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Skeletic	sk	n/a	91,248,490
Sire	83	Leptic Vertisols Aric Gleyic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Gleyic	gl	Skeletic	sk	n/a	75,000
Sire	85	Leptic Vertisols Aric Humic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Humic	hu	Skeletic	sk	n/a	262,500
Sire	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	730,000
Sire	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	315,000
Sire	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	27,500
Sire	89	Leptic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Skeletic	sk	n/a	48,337,356
Sire	91	Leptic Vertisols Aric Mazic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Mazic	mz	Skeletic	sk	n/a	415,000
Sire	92	Leptic Vertisols Aric Mollic Skeletic	Vertisols	VR	Leptic	le	Aric	ai	Mollic	mo	Skeletic	sk	n/a	8,354,717
Sire	118	Pellic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Pellic	pe	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	117,500
Sire	119	Pellic Vertisols Aric Calcaric Skeletic	Vertisols	VR	Pellic	pe	Aric	ai	Calcaric	ca	Skeletic	sk	n/a	95,000
Sire	120	Pellic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Pellic	pe	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	10,000
Sire	121	Pellic Vertisols Aric Gilgaic Skeletic	Vertisols	VR	Pellic	pe	Aric	ai	Gilgaic	gg	Skeletic	sk	n/a	747,500
Sire	122	Pellic Vertisols Aric Hypereutric Skeletic	Vertisols	VR	Pellic	pe	Aric	ai	Hypereutric	je	Skeletic	sk	n/a	197,500
Sire	123	Pellic Vertisols Aric Mollic Skeletic	Vertisols	VR	Pellic	pe	Aric	ai	Mollic	mo	Skeletic	sk	n/a	492,500
Sire	125	Salic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	145,000
Sire	125	Salic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Gilgaic	gg	Built-up	2,500
Sire	126	Salic Vertisols Aric Calcaric Grumic	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Grumic	gm	n/a	254,570
Sire	127	Salic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	1,756,754
Sire	143	Sodic Vertisols Aric Calcaric Gilgaic	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Gilgaic	gg	n/a	117,500
Sire	145	Sodic Vertisols Aric Calcaric Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Calcaric	ca	Hypereutric	je	n/a	95,000
Wadla	171	Chromic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	25,000
Wadla	517	Chromic Arenosols Aric Colluvic Hydrophobic	Arenosols	AR	Chromic	cr	Aric	ai	Colluvic	co	Hydrophobic	hf	n/a	155,000
Wadla	414	Gleyic Arenosols Aric Colluvic Geoabruptic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Geoabruptic	go	n/a	20,000
Wadla	523	Gleyic Arenosols Aric Colluvic Hydrophobic	Arenosols	AR	Gleyic	gl	Aric	ai	Colluvic	co	Hydrophobic	hf	n/a	40,000
Wadla	27	Hyperskeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Colluvic	co	n/a	4,114,029
Wadla	28	Hyperskeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	13,063,095
Wadla	29	Hyperskeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	105,000
Wadla	671	Hyperskeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Colluvic	co	Loamic	lo	n/a	10,000
Wadla	30	Hyperskeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Hyperskeletal	jk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	1,578,727
Wadla	100	Lithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Colluvic	co	n/a	60,516,600
Wadla	101	Lithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Fluvic	fv	n/a	55,318,012
Wadla	262	Lithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Lithic	li	Aric	ai	Clayic	ce	Gleyic	gl	n/a	32,500
Wadla	103	Lithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Fluvic	fv	n/a	5,527,500
Wadla	580	Lithic Leptosols Aric Colluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Humic	hu	n/a	10,000
Wadla	581	Lithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Colluvic	co	Loamic	lo	n/a	154,353
Wadla	104	Lithic Leptosols Aric Fluvic Humic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Humic	hu	n/a	7,500
Wadla	105	Lithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Lithic	li	Aric	ai	Fluvic	fv	Loamic	lo	n/a	4,916,279
Wadla	272	Mollic Leptosols Aric Clayic Colluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Colluvic	co	n/a	256,765
Wadla	109	Mollic Leptosols Aric Clayic Fluvic	Leptosols	LP	Mollic	mo	Aric	ai	Clayic	ce	Fluvic	fv	n/a	97,143
Wadla	112	Nudilithic Leptosols Aric Clayic Colluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Colluvic	co	n/a	9,367,220
Wadla	113	Nudilithic Leptosols Aric Clayic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Fluvic	fv	n/a	10,533,328
Wadla	286	Nudilithic Leptosols Aric Clayic Gleyic	Leptosols	LP	Nudilithic	nt	Aric	ai	Clayic	ce	Gleyic	gl	n/a	97,500

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Wadla	396	Nudilithic Leptosols Aric Colluvic Fluvic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Fluvic	fv	n/a	297,500
Wadla	600	Nudilithic Leptosols Aric Colluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Colluvic	co	Loamic	lo	n/a	37,500
Wadla	291	Nudilithic Leptosols Aric Fluvic Loamic	Leptosols	LP	Nudilithic	nt	Aric	ai	Fluvic	fv	Loamic	lo	n/a	255,090
Wadla	130	Skeletal Leptosols Andic Aric Clayic	Leptosols	LP	Skeletal	sk	Andic	an	Aric	ai	Clayic	ce	n/a	22,500
Wadla	134	Skeletal Leptosols Aric Aridic Clayic	Leptosols	LP	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	7,500
Wadla	136	Skeletal Leptosols Aric Clayic Colluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Colluvic	co	n/a	85,110,437
Wadla	137	Skeletal Leptosols Aric Clayic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	84,100,858
Wadla	325	Skeletal Leptosols Aric Clayic Gleyic	Leptosols	LP	Skeletal	sk	Aric	ai	Clayic	ce	Gleyic	gl	n/a	85,000
Wadla	139	Skeletal Leptosols Aric Colluvic Fluvic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Fluvic	fv	n/a	3,262,500
Wadla	678	Skeletal Leptosols Aric Colluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Colluvic	co	Loamic	lo	n/a	285,000
Wadla	327	Skeletal Leptosols Aric Fluvic Humic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Humic	hu	n/a	85,000
Wadla	141	Skeletal Leptosols Aric Fluvic Loamic	Leptosols	LP	Skeletal	sk	Aric	ai	Fluvic	fv	Loamic	lo	n/a	3,519,688
Wadla	46	Leptic Luvisols Aric Clayic Colluvic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Colluvic	co	n/a	37,500
Wadla	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	n/a	156,166,249
Wadla	47	Leptic Luvisols Aric Clayic Cutanic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Cutanic	ct	Built-up	22,500
Wadla	49	Leptic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Hypereutric	je	n/a	5,090,071
Wadla	50	Leptic Luvisols Aric Clayic Nitic	Luvisols	LV	Leptic	le	Aric	ai	Clayic	ce	Nitic	ni	n/a	40,000
Wadla	149	Vertic Luvisols Aric Clayic Cutanic	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Cutanic	ct	n/a	5,281,640
Wadla	151	Vertic Luvisols Aric Clayic Hypereutric	Luvisols	LV	Vertic	vr	Aric	ai	Clayic	ce	Hypereutric	je	n/a	80,000
Wadla	304	Rhodic Nitisols Andic Aric Colluvic	Nitisols	NT	Rhodic	ro	Andic	an	Aric	ai	Colluvic	co	n/a	722,500
Wadla	307	Rhodic Nitisols Aric Colluvic Ochric	Nitisols	NT	Rhodic	ro	Aric	ai	Colluvic	co	Ochric	oh	n/a	12,500
Wadla	361	Umbric Nitisols Andic Aric Colluvic	Nitisols	NT	Umbric	um	Andic	an	Aric	ai	Colluvic	co	n/a	12,500
Wadla	56	Leptic Regosols Aric Aridic Clayic	Regosols	RG	Leptic	le	Aric	ai	Aridic	ad	Clayic	ce	n/a	1,247,500
Wadla	58	Leptic Regosols Aric Clayic Fluvic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Fluvic	fv	n/a	82,131,853
Wadla	59	Leptic Regosols Aric Clayic Geoabruptic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	2,877,500
Wadla	253	Leptic Regosols Aric Clayic Humic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Humic	hu	n/a	17,500
Wadla	577	Leptic Regosols Aric Clayic Lamellic	Regosols	RG	Leptic	le	Aric	ai	Clayic	ce	Lamellic	ll	n/a	3,692,500
Wadla	61	Leptic Regosols Aric Fluvic Loamic	Regosols	RG	Leptic	le	Aric	ai	Fluvic	fv	Loamic	lo	n/a	7,500
Wadla	745	Skeletal Regosols Aric Aridic Clayic	Regosols	RG	Skeletal	sk	Aric	ai	Aridic	ad	Clayic	ce	n/a	25,000
Wadla	714	Skeletal Regosols Aric Clayic Fluvic	Regosols	RG	Skeletal	sk	Aric	ai	Clayic	ce	Fluvic	fv	n/a	360,000
Wadla	715	Skeletal Regosols Aric Clayic Geoabruptic	Regosols	RG	Skeletal	sk	Aric	ai	Clayic	ce	Geoabruptic	go	n/a	157,500
Wadla	716	Skeletal Regosols Aric Clayic Lamellic	Regosols	RG	Skeletal	sk	Aric	ai	Clayic	ce	Lamellic	ll	n/a	27,500
Wadla	741	Calcic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Calcic	cc	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	7,500
Wadla	725	Irragric Vertisols Aric Chernic Grumic	Vertisols	VR	Irragric	ir	Aric	ai	Chernic	ch	Grumic	gm	n/a	15,000
Wadla	73	Leptic Vertisols Aric Chernic Gilgaic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Gilgaic	gg	n/a	35,000
Wadla	578	Leptic Vertisols Aric Chernic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Grumic	gm	n/a	30,000
Wadla	74	Leptic Vertisols Aric Chernic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Chernic	ch	Hypereutric	je	n/a	40,000
Wadla	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	78,440,469
Wadla	257	Leptic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Grumic	gm	Built-up	60,000
Wadla	258	Leptic Vertisols Aric Gilgaic Humic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Humic	hu	n/a	445,000
Wadla	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	315,004,535
Wadla	76	Leptic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Hypereutric	je	Built-up	5,000
Wadla	77	Leptic Vertisols Aric Gilgaic Mazic	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Mazic	mz	n/a	57,500
Wadla	79	Leptic Vertisols Aric Gilgaic Ochric	Vertisols	VR	Leptic	le	Aric	ai	Gilgaic	gg	Ochric	oh	n/a	45,000
Wadla	259	Leptic Vertisols Aric Grumic Hypereutric	Vertisols	VR	Leptic	le	Aric	ai	Grumic	gm	Hypereutric	je	n/a	1,719,140

Woreda	Value	Class	RSG	Sym RSG	PQ1	Sym PQ1	SQ1	Sym SQ1	SQ2	Sym SQ2	SQ3	Sym SQ3	Other	Area m2
Wadla	86	Leptic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mazic	mz	n/a	2,727,398
Wadla	87	Leptic Vertisols Aric Hypereutric Mollic	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Mollic	mo	n/a	70,000
Wadla	88	Leptic Vertisols Aric Hypereutric Ochric	Vertisols	VR	Leptic	le	Aric	ai	Hypereutric	je	Ochric	oh	n/a	8,588,286
Wadla	744	Pellic Vertisols Aric Gilgaic Grumic	Vertisols	VR	Pellic	pe	Aric	ai	Gilgaic	gg	Grumic	gm	n/a	47,500
Wadla	309	Salic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Salic	sz	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	296,048
Wadla	311	Salic Vertisols Aric Hypereutric Mazic	Vertisols	VR	Salic	sz	Aric	ai	Hypereutric	je	Mazic	mz	n/a	17,500
Wadla	356	Sodic Vertisols Aric Gilgaic Hypereutric	Vertisols	VR	Sodic	so	Aric	ai	Gilgaic	gg	Hypereutric	je	n/a	25,000

Annex 19. Training programme November 2020

BENEFIT – REALISE/ISRIC, capacity building to MoA, Ethiopia

TRAINING: Introduction to Digital Soil Mapping (DSM) with focus on WRB soil class mapping

OBJECTIVE: To provide introductory hands-on training Digital Soil Mapping (DSM) with focus on WRB soil class mapping

INSTITUTION: Soil Information and mapping directorate, MoA

PARTICIPANTS: 9 geospatial experts and 10 soil surveyors, 1 national coordinator

DURATION: 5 days

DATE: from Monday 23 Nov. till Tuesday 01 Dec., 2020

TIME: 11:00 – 18:00 EAT (is two hours ahead of CET), first day 10:30 – 18:00

VENUE: Online; Zoom

MATERIALS and prerequisites: High capacity computer (RAM and CPU). Internet connection at venue. Prerequisites: proficiency in R and proficiency in GIS (for the geospatial experts); R software installed (latest version); GIS software installed (e.g. QGIS); ZOOM communication software installed; adequate computers; adequate internet connection; webcam and microphone; training materials downloaded on forehand.

AGENDA (final):

WHEN	WHAT	HOW	WHO
DAY 1 Monday, 23 Nov. 2020			
10:45-11:00	Welcome speech	-	Dr Tewodros Tefera, (REALISE manager)
11:00-11:15	Opening speech	-	H.E. Dr Mandefro, MoA state minister
11:15-12:00	Introductory round	Discussion	Participants
12:00-12:30	Overview of the training	Presentation	Johan Leenaars
LUNCH			
13:30-14:15	Recapitulate soil class survey protocol	Lecture	Johan Leenaars
14:15-14:30	Q&A	Discussion	Participants
14:30-15:00	Continued (incl. base map)	Lecture	Johan Leenaars
15:00-15:15	Discussion	Discussion	Participants
Break			
15:30-16:30	Intro to Spatial R	Lecture	Bas Kempen
16:30-17:45	Continued	Exercise	Participants
17:45-18:00	Q&A	Discussion	Participants
Gap (Tuesday, Wednesday)			
DAY 2 Thursday, 26 Nov. 2020			
11:00-12:30	Introduction to DSM (incl. geo-statistics and machine learning)	Lecture	Bas Kempen
LUNCH			
13:30-14:30	Data preparation (soil profiles data and covariates) for DSM	Lecture	Bas Kempen
14:30-14:45	Q&A	Discussion	Participants
14:45-15:30	Continued	Exercise	Participants

Break			
15:45-17:45	Continued	Exercise	Participants
17:45-18:00	Q&A	Discussion	Participants
DAY 3 Friday, 27 Nov.2020			
11:00-12:30	Modelling and mapping soil classes using Random Forest (DSM)	Lecture	Bas Kempen
LUNCH			
13:30-13:45	Q&A	Discussion	Participants
13:45-15:30	Continued	Exercise	Participants
Break			
15:45-16:45	Prepare soil class diagnostics and qualifiers as input to modelling and mapping using RF	Lecture	Johan Leenaars
16:45-17:00	Q&A	Discussion	Participants
DAY 4 Monday, 30 Nov. 2020			
11:00-11:15	Recapitulate modelling and mapping soil classes, incl. diagnostics and qualifiers, using RF (DSM)	Lecture	Bas Kempen
11:30-12:30	Continued	Exercise	Participants
LUNCH			
12:30-15:15	Continued	Exercise	Participants
15:15-15:30	Q&A	Discussion	Participants
Break			
15:45-16:45	Model validation (DSM)	Lecture	Bas Kempen
16:45-17:45	Continued	Exercise	Participants
17:45-18:00	Q&A	Discussion	Participants
DAY 5 Tuesday, 1 Dec. 2020			
11:00-12:15	DSM continued	Exercise	Participants
12:15-12:30	Q&A	Discussion	Participants
LUNCH			
13:30-15:00	Contents presentations	Presentation/Discussion	Participants
15:00-15:30	Discussion	Discussion	Participants
Break			
15:45-16:15	Handover covariate stack	Presentation/Discussion	ISRIC
16:15-17:15	General discussion and feedback	Presentation/Discussion	Participation
17:15-18:00	Closing (and certification)	-	REALISE/ISRIC

Participants (21)

Name	Role	Organization
Mr. KIFLU GUDETA WAKE	Director	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. ABEBE YIRDAW DEJENIE	GIS expert	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. TEREFE MEKETE ZEMEDKUN	Soil surveyor	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. TESSEMA ADMAS AYNALEM	Soil surveyor	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. YISMAW AREGAW DESTA	Soil surveyor	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. ADDISU MERA KEFALE	IT expert	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. AWGACHEW LEGESSE DEGEFU	Soil surveyor	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. NESRU HUSSIEN SULEIMAN	Soil surveyor	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mrs. NIGAT TESSEMA BILATE	GIS expert	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mrs. SIMRET GEBREMARIAM GEBRU	GIS expert	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mr. EPHREM MESFINE HABTU	GIS expert	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
Mrs. EHTEMARIAM BEZABIH ARGAW	GIS expert	Ministry of Agriculture, Soil Resource Information and Mapping Directorate
DEMEKE TAFESSE KEBEDE	Senior Transformation Agenda Specialist	Ministry of Agriculture, Ethiopian Agricultural Transformation Agency (ATA)
MEKONNEN GETAHUN SISAY	Senior Soil Surveyor	Amhara Design and Supervision Works Enterprise
WONDWOSEN TENA BIRKU (PhD)	Senior Soil Surveyor	Debre Berhan University
ESTIFANOS LEMA GOSHU (PhD)	Remote Sensing & GIS expert	Debre Berhan University
GEBEYEHU BELAY EJIGU	Private Consultant	Private Consultant - Soil Science
DEMEKE NIGUSSIE ALEMU		Ministry of Agriculture, Ethiopian Institute of Agricultural Research (EIAR)
DIRIBA TADESE GUDATA		Ministry of Agriculture, Ethiopian Institute of Agricultural Research (EIAR)
ASHENAFI ALI ABDULJELIL	National Soil Coordinator	BENEFIT-REALISE
TAGEL AMOGNE DEGIFE	Soil surveyor	Ministry of Agriculture, National Soil Testing Center (NSTC)

Annex 20. Overview of delivered products

DeliveryRealise/

- 1SurveyBaseMapR18W/
 - R18W_shp/
 - R18W_BaseMap_AggrGeoFinal_mp.shp
 - R18W_BaseMap_AggrGeoFinal_GMK_legendColours.lyr
 - R18W_BaseMap_AggrGeoFinal_GMK_legendDescription.xlsx
 - R18W_tif/
 - GMK.tif
 - GMK.tif.lyr
 - DEM.tif
 - slopeClass.tif
 - TCI_low.tif
- 2SoilProfilesDataset/
 - SoilProfilesDataset_PlanB_Isric_Realise.xlsx
 - SoilProfilesDistributedOverAggrBasemap.xlsx
 - WRB_diagnostics.xlsx
- 3Covariates50mCountryWide/
 - Covariates_description.xlsx
 - GEE_50m/
 - 13 files.tif
 - GMK/
 - 6 files.tif
 - Copernicus/
 - 1 file.tif
 - SoilGrids_select/
 - 168 files.tif
- 4SoilClassMap/
 - 41PredictedRasterMaps/
 - RSG.tif
 - RSG_1pq_3sq.tif
 - RSG_1ps_3sq_legend.xlsx
 - Validation_OOB.xlsx
 - levels_pathway3/
 - rsg.tif
 - rsg_1pq_0sq.tif
 - rsg_1pq_1sq.tif
 - rsg_1pq_2sq.tif
 - rsg_1pq_3sq.tif
 - rsg_1pq_4sq.tif
 - rsg_2pq_0sq.tif
 - rsg_2pq_1sq.tif
 - rsg_2pq_2sq.tif
 - rsg_2pq_3sq.tif
 - rsg_2pq_4sq.tif
 - rsg_3pq_0sq.tif
 - rsg_3pq_1sq.tif
 - rsg_3pq_2sq.tif
 - rsg_3pq_3sq.tif
 - rsg_3pq_4sq.tif
 - probabilitiesDiagnosticsAndQualifiers/
 - 66 files.tif
 - 42GeneralisedPolygonMaps/
 - RSG_1pq_3sq.shp
 - RSG_1pq_3sq.lyr
 - RSG_1pq_3sq_legend.xlsx
 - RSG_1pq_3sq_multipart.shp
 - RSG_1pq_3sq_multipart_legend.xlsx
 - RSG_legend.lyr
 - Validation_correspondence.xlsx
- 5LayoutSoilClassMap/
 - Lr/
 - 15 files.png
 - Hr/
 - 15 files.png
- 6FinalProjectReport/
 - 20201231_Benefit-Realise-Isric_FinalReport.docx
 - 20201231_Benefit-Realise-Isric_Annex12FinalReport.docx
 - 20201231_Benefit-Realise-Isric_FinalReport.pdf
 - 20201231_Benefit-Realise-Isric_Annex12FinalReport.pdf

Together with our partners we produce, gather, compile and serve quality-assessed soil information at global, national and regional levels. We stimulate the use of this information to address global challenges through capacity building, awareness raising and direct cooperation with users and clients.

