

# Annual Agricultural Sample Survey 2022-2023

**National Bureau of Statistics, Office of the Chief Government Statistician**

report\_generated\_on: May 1, 2025

visit\_data\_catalog\_at: <https://microdata.worldbank.org/index.php>

## Identification

### SURVEY ID NUMBER

TZA\_2022-2023\_AASS\_v01\_M\_v01\_A\_ESS

### TITLE

Annual Agricultural Sample Survey 2022-2023

### ABBREVIATION OR ACRONYM

AASS 2022-23

### TRANSLATED TITLE

Utafiti wa Kilimo wa Mwaka 2022-2023

### COUNTRY/ECONOMY

Name	Country code
Tanzania	TZA

### STUDY TYPE

Agricultural Survey [ag/oth]

### SERIES INFORMATION

The Annual Agriculture Sample Survey (AASS) for the 2022/23 agricultural year is the third in a series of annual agricultural surveys conducted in Tanzania. It is the new series which have been implemented by the Government of United Republic of Tanzania under the 50x2030 Initiative.

Previous surveys in this series were conducted in the 2014/15 and 2016/17 agricultural years. The earlier surveys primarily relied on identifying GPS data points followed by household interviews. In contrast, the current 2022/23 survey employs a household-based methodology, directly interviewing sampled agricultural households.

### ABSTRACT

The Annual Agricultural Sample Survey (AASS) for the year 2022/23 aimed to enhance the understanding of agricultural activities across the United Republic of Tanzania by collecting comprehensive data on various aspects of the agricultural sector. This survey is crucial for policy formulation, development planning, and service delivery, providing reliable data to monitor and evaluate national and international development frameworks.

The 2022/23 survey is particularly significant as it informs the monitoring and evaluation of key agricultural development strategies and frameworks. The collected data will contribute to the Tanzania Development Vision 2025, Zanzibar Development Vision 2020, the Five-Year Development Plan 2021/22–2025/26, the National Strategy for Growth and Reduction of Poverty (NSGRP) known as MKUKUTA, and the Zanzibar Strategy for Growth and Reduction of Poverty (ZSGRP) known as MKUZA. The survey data also supports the evaluation of Sustainable Development Goals (SDGs) and Comprehensive Africa Agriculture Development Programme (CAADP). Key indicators for agricultural performance and poverty monitoring are directly measured from the survey data.

The 2022/23 AASS provides a detailed descriptive analysis and related tables on the main thematic areas. These areas include household members and holder identification, field roster, seasonal plot and crop rosters (Vuli, Masika, and Dry Season), permanent crop production, crop harvest use, seed and seedling acquisition, input use and acquisition (fertilizers and pesticides), livestock inventory and changes, livestock production costs, milk and eggs production, other livestock products, aquaculture production, and labor dynamics. The 2022/23 AASS offers an extensive dataset essential for understanding the current state of agriculture in Tanzania. The insights gained will support the development of policies and interventions aimed at enhancing agricultural productivity, sustainability, and the livelihoods of farming communities. This data is indispensable for stakeholders addressing challenges in the agricultural sector and promoting sustainable agricultural development.

Statistical Disclosure Control (SDC) methods have been applied to the microdata, to protect the confidentiality of the individual data collected. Users must be aware that these anonymization or SDC methods modify the data, including suppression of some data points. This affects the aggregated values derived from the anonymized microdata, and may have other unwanted consequences, such as sampling error and bias. Additional details about the SDC methods and data access conditions are provided in the data processing and data access conditions below.

## KIND OF DATA

Sample survey data [ssd]

## UNIT OF ANALYSIS

Households for Smallholder Farmers and Farm for Large Scale Farms

## Version

## VERSION DESCRIPTION

Version 1.0: Edited, anonymized dataset for public distribution (Public Use File).

## VERSION DATE

2024-07-05

## Scope

## NOTES

The Annual Agriculture Survey 2022/23 covered both large-scale and household farming. The main topics covered for both types of farming were as follows:

- a) Household Members and Holder Identification
- b) Field Roster
- c) Vuli Plot Roster
- d) Vuli Crop Roster
- e) Masika and Dry Season Plot Roster
- f) Masika and Dry Season Crop Roster
- g) Permanent Crop Production
- h) Crop Harvest Use
- i) Seed and Seedling Acquisition
- j) Input Use and Acquisition (Fertilizer and Pesticides)
- k) Livestock in Stock and Change in Stock
- l) Livestock Production Costs
- m) Milk Production
- n) Eggs Production
- o) Other Livestock Products
- p) Aquaculture Production
- q) Labour

## TOPICS

Topic	Vocabulary	URI
Agriculture Production	ELSST Thesaurus (Version 4 - 2023)	<a href="#">Link</a>
Food production	ELSST Thesaurus (Version 4 - 2023)	<a href="#">Link</a>
Crops	ELSST Thesaurus (Version 4 - 2023)	<a href="#">Link</a>

## Coverage

## GEOGRAPHIC COVERAGE

National, Mainland Tanzania and Zanzibar, Regions

## UNIVERSE

The survey covered agricultural households and large-scale farms.

Agricultural households are those that meet one or more of the following two conditions:

- a) Have or operate at least 25 square meters of arable land,
- b) Own or keep at least one head of cattle or five goats/sheep/pigs or fifty chicken/ducks/turkeys during the agriculture year.

Large-scale farms are those farms with at least 20 hectares of cultivated land, or 50 herds of cattle, or 100 goats/sheep/pigs, or 1,000 chickens.

In addition to this, they should fulfill all of the following four conditions:

- i) The greater part of the produce should go to the market,
- ii) Operation of farm should be continuous,
- iii) There should be application of machinery / implements on the farm, and
- iv) There should be at least one permanent employee.

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name	Affiliation
National Bureau of Statistics	Government of Tanzania
Office of the Chief Government Statistician	The Revolutionary Government of Zanzibar

### PRODUCERS

Name	Abbreviation	Affiliation	Role
Food and Agriculture Organization of the United Nations	FAO	United Nations	Technical assistance in the design, implementation and dissemination of AASS 2022/23
Ministry of Agriculture	MOA	Government of Tanzania	Technical assistance
Ministry of Livestock and Fisheries	MLF	Government of Tanzania	Technical assistance
Ministry of Industry and Trade	MIT	Government of Tanzania	Technical assistance
Ministry of Agriculture, Irrigation, Natural Resources and Livestock		The Revolutionary Government of Zanzibar	Technical assistance

### FUNDING AGENCY/SPONSOR

Name	Abbreviation
The Government of United Republic of Tanzania	
World Bank's IDA project	WB
International Fund for Agricultural Development	IFAD
Food and Agriculture Organization of the United Nations	FAO

## Sampling

### SAMPLING PROCEDURE

The frame used to extract the sample for the Annual Agricultural Sample Survey (AASS-2022/23) in Tanzania was derived from the 2022 Population and Housing Census (PHC-2022) Frame that lists all the Enumeration Areas (EAs/Hamlets) of the country. The AASS 2022/23 used a stratified two-stage sampling design which allows to produce reliable estimates at regional level for both Mainland Tanzania and Zanzibar.

In the first stage, the EAs (primary sampling units) were stratified into 2-3 strata within each region and then selected by using a systematic sampling procedure with probability proportional to size (PPS), where the measure of size is the number of agricultural households in the EA. Before the selection, within each stratum and domain (region), the Enumeration Areas (EAs) were ordered according to the codes of District and Council which reflect the geographical proximity, and then ordered according to the codes of Constituency, Division, Wards, and Village. An implicit stratification was also performed, ordering by Urban/Rural type at Ward level.

In the second stage, a simple random sampling selection was conducted. In hamlets with more than 200 households, twelve (12) agricultural households were drawn from the PHC 2022 list with a simple random sampling without replacement

procedure in each sampled hamlet. In hamlets with 200 households or less, a listing exercise was carried out in each sampled hamlet, and twelve (12) agricultural households were selected with a simple random sampling without replacement procedure. A total of 1,352 PSUs were selected from the 2022 Population and Housing Census frame, of which 1,234 PSUs were from Mainland Tanzania and 118 from Zanzibar. A total number of 16,224 agricultural households were sampled (14,808 households from Mainland Tanzania and 1,416 from Zanzibar).

#### RESPONSE RATE

Out of 1,352 sampled EAs, 11 EAs could not be accessed due to bad weather conditions, particularly floods. The first-stage sampling weights relative to these 11 EAs were redistributed among the EAs in the same stratum and domain (i.e. Region).

In the accessed EAs, there are:

- 14,548 complete interviews,
- 1,428 ineligible households (they moved outside the EA or do not practice anymore agriculture), and
- 58 non-responses.

The second-stage sampling weights of the ineligible households have not been redistributed and they have been dropped from the AASS 2023 dataset. The second-stage weights of the non-responses were redistributed among the eligible households that live in the same EA.

As a result:

- The rate of non-response is very low, i.e. 0.03%.
- The rate of ineligibility is around 8.8%.

#### WEIGHTING

The basic sampling weights as computed according to the sampling design have been adjusted for non-response and then calibrated by using as a source the frame (version of March 2024) derived from the Population and Housing Census 2022 (PHC 2022) and from which the AASS23 sample has been extracted. The below table shows the number of agricultural households as estimated from the sample by using the adjusted weights and the number of agricultural households in the updated frame by Region. The calibration coefficient in each Region R is computed dividing the latter by the former, i.e.

$$\text{Calibration coefficient}_r = (\text{AgHH frame}_r) / (\text{Sum}[W_{ir}] \text{ from } i = 1 \text{ to } N_r)$$

where:

r is the region,

i is the i-th household in region r,

AgHH frame<sub>r</sub> is the number of households in the frame in region r,

W<sub>ir</sub> is the final adjusted weight of household i in region r, and

N<sub>r</sub> is the number of households in the sample in region r

The calibrated sampling weights were computed multiplying the calibration coefficient by the adjusted sampling weights. In the dataset the variable indicating the calibrated sampling weight for each household is weight<sub>final\_calibrated</sub>.

Table. Agricultural Households as computed from the sample and frame, by Region, and the associated calibration coefficients.

REGION.....Ag. hold. estim. from sample....Ag. hold. computed from frame....Calibration Coefficient

Dodoma.....	396,605.....	553,124.....	1.3946
Arusha.....	242,699.....	337,598.....	1.3910
Kilimanjaro.....	247,528.....	335,627.....	1.3559
Tanga.....	296,941.....	462,923.....	1.5590
Morogoro.....	356,382.....	560,248.....	1.5720
Pwani.....	208,561.....	261,038.....	1.2516
Dar es Salaam.....	170,923.....	240,681.....	1.4081
Lindi.....	216,160.....	278,215.....	1.2871
Mtwara.....	353,817.....	394,048.....	1.1137
Ruvuma.....	259,448.....	376,275.....	1.4503
Iringa.....	178,157.....	236,483.....	1.3274
Mbeya.....	273,363.....	392,725.....	1.4366
Singida.....	252,748.....	308,882.....	1.2221
Tabora.....	272,964.....	444,349.....	1.6279
Rukwa.....	180,602.....	247,649.....	1.3712

Kigoma.....	293,863.....	319,151.....	1.0861
Shinyanga.....	249,449.....	275,456.....	1.1043
Kagera.....	422,230.....	548,229.....	1.2984
Mwanza.....	310,293.....	401,578.....	1.2942
Mara.....	241,573.....	322,464.....	1.3349
Manyara.....	227,148.....	306,858.....	1.3509
Njombe.....	131,523.....	195,146.....	1.4837
Katavi.....	110,230.....	150,583.....	1.3661
Simiyu.....	182,080.....	257,261.....	1.4129
Geita.....	231,333.....	362,130.....	1.5654
Songwe.....	190,007.....	246,468.....	1.2972
Kaskazini Unguja.....	23,311.....	27,489.....	1.1792
Kusini Unguja.....	18,035.....	27,506.....	1.5252
Mjini Magharibi.....	33,035.....	38,983.....	1.1801
Kaskazini Pemba.....	27,273.....	32,207.....	1.1809
Kusini Pemba.....	32,401.....	29,265.....	0.9032
TOTAL.....	6,630,682.....	8,970,639	

## Data collection

### DATES OF DATA COLLECTION

Start	End	Cycle
2023-11-05	2024-02-10	Single visit

### TIME PERIODS

Start date	End date
2022-10-01	2023-09-30

### DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

### SUPERVISION

The oversight of the data collection process is crucial to ensure the quality and accuracy of the information gathered during the Annual Agriculture Sample Survey for the agriculture year 2022/23. The supervision strategy involved a structured hierarchy of enumerators, controllers, and supervisors, with additional oversight by NBS/OCGS management. This approach helped maintain the integrity of the data collection process and supervision, ensuring that the final dataset was reliable and accurately represented the agricultural activities in the surveyed regions. Here is a detailed description of the supervision process:

#### (i) Organization of Enumerators in Teams

Enumerators were organized into teams, each consisting of a group of interviewers, a quality controller, and a supervisor. This hierarchical structure ensured effective oversight and support throughout the data collection process. Typically, each team had one supervisor for every five to ten enumerators. The quality controller was responsible for overseeing both the regional supervisors and the work of the interviewers. This specialization allowed for adequate supervision and support, ensuring that any issues encountered by the enumerators could be promptly addressed.

#### (ii) Roles of Controllers/Supervisors

- Supervisors/Controllers closely monitored the data collected by enumerators, reviewing questionnaires for completeness and accuracy according to survey guidelines.
- Provided immediate feedback to enumerators on any errors or inconsistencies found in the data, offering guidance on how to correct and avoid such issues in the future.
- Assisted enumerators with any technical issues encountered during data collection, including difficulties with tables or specific question interpretation
- Supervisors were in charge of managing the overall team operations. They coordinated daily activities, ensuring that enumerators adhered to their schedules and completed their assigned tasks.
- Supervisors conducted regular field visits to observe enumerators during interviews, providing real-time coaching and support. They ensured that enumerators followed the proper protocols and maintained standards of data collection.
- Supervisors addressed any logistical or operational challenges faced by the teams, such as transportation issues,

respondent availability, or environmental factors affecting data collection.

- Supervisors compiled regular reports on the progress and challenges of the data collection process and communicated these to upper management for further action.

### (iii) Visits by NBS/OCGS Management

NBS/OCGS management conducted periodic field visits to monitor the data collection process and ensure adherence to the survey plan. These visits typically occurred at key stages of the survey, such as the beginning, mid-point, and before the end of the data collection period. During these visits, the management

- Assessed and reviewed data quality checks and validation processes to ensure standards were maintained.
- Interacted with enumerators, controllers, and supervisors to understand the challenges they faced and to provide additional support and motivation.
- Checked that all teams were complying with survey guidelines and protocols, addressing any deviations promptly.
- Offered strategic and extra guidance based on observations and feedback from the field, helping to refine data collection techniques and improve efficiency.

### DATA COLLECTION NOTES

Field work supervisors and enumerators were trained before the start of the Survey. They were taught on the importance of collecting quality data. The issue of consistency checks to enhance the quality of the data was also emphasized. The trainers were from the National Bureau of Statistics, Office of the Chief Government Statistician, and Agriculture Sector Lead Ministries.

Data collection activities for the Survey took three months to complete from November, 2023 to early February, 2024. The method used for data collection was face to face interview. Field work was monitored through a hierarchical system of supervisors, starting with the National Team at the top, followed by the regional supervisors and enumerator team supervisors. The National Team included two senior supervisors who were responsible for overall direction of field operations and responded to queries raised outside the scope of the training exercise.

### DATA COLLECTORS

Name	Abbreviation	Affiliation
National Bureau of Statistics	NBS	Government of Tanzania
Office of the Chief Government Statistician	OCGS	The Revolutionary Government of Zanzibar

## questionnaires

### QUESTIONNAIRES

The 2022/23 Annual Agricultural Survey used two main questionnaires consolidated into a single questionnaire within the CAPIthe CAPI System, Smallholder Farmers and Large-Scale Farms Questionnaire. Smallholder Farmers questionnaire captured information at household level while Large Scale Farms questionnaire captured information at establishment/holding level. These questionnaires were used for data collection that covered core agricultural activities (crops, livestock, and fish farming) in both short and long rainy seasons. The 2022/23 AASS questionnaire covered 23 sections which are:

1. **COVER:** The cover page included the title of the survey, survey year (2022/23), general instructions for both the interviewers and respondents. It sets the context for the survey and also it shows the survey covers the United Republic of Tanzania.
2. **SCREENING:** Included preliminary questions designed to determine if the respondent or household is eligible to participate in the survey. It checks for core criteria such as involvement in agricultural activities.
3. **START INTERVIEW:** The introductory section where basic details about the interview are recorded, such as the date, location, and interviewer's information. This helped in the identification and tracking of the interview process.
4. **HOUSEHOLD MEMBERS AND HOLDER IDENTIFICATION:** Collected information about all household members, including age, gender, relationship to the household head, and the identification of the main agricultural holder. This section helped in understanding the demographic composition of the agriculture household.
5. **FIELD ROSTER:** Provided the details of the various agricultural fields operated by the agriculture household. Information includes the size, location, and identification of each field. This section provided a comprehensive overview of the land resources available to the household.
6. **VULI PLOT ROSTER:** Focused on plots used during the Vuli season (short rainy season). It includes details on the crops planted, plot sizes, and any specific characteristics of these plots. This helps in assessing seasonal agricultural activities.
7. **VULI CROP ROSTER:** Provided detailed information on the types of crops grown during the Vuli season, including quantities produced and intended use (e.g., consumption, sale, storage). This section captures the output of short rainy season

farming.

8. **MASIKA PLOT ROSTER:** Similar to Section 4 but focuses on the Masika season (long rainy season). It collects data on plot usage, crop types, and sizes. This helps in understanding the agricultural practices during the primary growing season.

9. **MASIKA CROP ROSTER:** Provided detailed information on crops grown during the Masika season, including production quantities and uses. This section captures the output from the main agricultural season.

10. **PERMANENT CROP PRODUCTION:** Focuses on perennial or permanent crops (e.g., fruit trees, tea, coffee). It includes data on the types of permanent crops, area under cultivation, production volumes, and uses. This section tracks long-term agricultural investments.

11. **CROP HARVEST USE:** In this, provided the details how harvested crops are utilized within the household. Categories included consumption, sale, storage, and other uses. This section helps in understanding food security and market engagement.

12. **SEED AND SEEDLINGS ACQUISITION:** Collected information on how the agriculture household acquires seeds and seedlings, including sources (e.g., purchased, saved, gifted) and types (local, improved, etc). This section provided insights into input supply chains and planting decisions based on the households, or head.

13. **INPUT USE AND ACQUISITION (FERTILIZERS AND PESTICIDES):** It provided the details of the use and acquisition of agricultural inputs such as fertilizers and pesticides. It included information on quantities used, sources, and types of inputs. This section assessed the input dependency and agricultural practices.

14. **LIVESTOCK IN STOCK AND CHANGE IN STOCK:** The questionnaire recorded the types and numbers of livestock held by the household simply livestock population (cattle, goat, sheep, pig, and poultry, etc) , including any changes in stock due to births, deaths, sales, or purchases. This section helps in understanding livestock dynamics and economic value.

15. **LIVESTOCK PRODUCTION COSTS:** Provided data on the costs associated with livestock production, including expenses for feed, veterinary services, housing, and labor. This section helps in assessing the economic viability of livestock farming.

16. **MILK PRODUCTION:** This section captured dairy farming activities. Collected information on milk production, including the types of animals producing milk, quantities produced, and how the milk is used (e.g., consumption, sale).

17. **EGG PRODUCTION:** This section assessed poultry farming and its contribution to household nutrition and income, included the details of production of eggs by type of chicken, number of laying, quantities of eggs produced, and their uses.

18. **OTHER LIVESTOCK PRODUCTS:** This section provided a complete picture of livestock contributions beyond meat and dairy. It focused on other products obtained from livestock, such as hides, skin, hives, wool, and manure etc. It includes quantities produced and uses.

19. **AQUACULTURE PRODUCTION:** Data collected on aquaculture activities, included types of aquatic species farmed, production methods, quantities produced, and uses. This section assessed the role of fish farming in household economies.

20. **LABOR:** This section helps in understanding labor dynamics and contributions that is information on labor used in agricultural activities, included both household and hired labor. It also looks at the gender distribution of labor.

21. **OTHER ECONOMICS:** Details other economic activities related to agriculture, such as off-farm income, remittances, and other sources of revenue. This section provides a holistic view of household economic activities and diversification.

22. **FARM REGISTRATION:** This part, provided the information on the legal status and registration of farms, including certifications and compliance with agricultural regulations. This section assessed formal recognition and regulation of farming activities mostly in large scale farms.

23. **END OF INTERVIEW:** Show the concluding remarks and any final questions to wrap up the interview. This section ensured all necessary information that has been collected and provided an opportunity for respondents to add any additional comments.

## data\_processing

### DATA EDITING

The data processing and data editing phases were critical components of the Annual Agriculture Sample Survey for the agriculture year 2022/23. These phases ensure that the collected data is of high quality, consistent, coherent, and ready for analysis and reporting. The technical team responsible for these tasks included members from the National Bureau of Statistics (NBS), the Office of the Chief Government Statistician (OCGS), Agricultural Sector Lead Ministries (ASLMs), and academia, with technical support from FAO experts at various levels.

#### A. Data Processing

##### A.1. Data Entry:

- Enumerators entered data directly into tablets during interviews, eliminating the need for a separate data entry activity. This method minimized errors associated with manual data entry. Data collected in the field was periodically synchronized with a central database, ensuring that the information was securely stored and readily accessible for processing.

##### A.2. Data Cleaning:

- Upon synchronization, the data underwent initial automated checks to identify and flag obvious errors, such as missing values, out-of-range responses, and inconsistencies.



- Technical staff conducted a manual review of flagged entries, correcting errors based on predefined rules and protocols. This step ensured that all data was accurate and complete before further processing.

### A.3. Data Integration:

- Data from different sections of the questionnaire (e.g., household information, crop production, livestock data) were integrated into a unified dataset. This process involved matching and merging records to ensure consistency across all sections by data scientists/ data programmers.
- The technical team harmonized data formats and units of measurement to ensure consistency. This step was important for maintaining coherence in subsequent analyses.

## B. Data Editing

### B.1. Consistency Checks:

- The data editing phase included rigorous checks for internal consistency within the dataset. This involved ensuring that related variables were logically consistent (e.g., the number of chicken reported matched the eggs production data).
- The team conducted cross-sectional checks to verify consistency across different sections of the questionnaire. For example, crop production data were cross-referenced with input use and labor data to identify and correct discrepancies.

### B.2. Outlier Detection and Treatment:

- Statistical techniques were employed to identify outliers in the dataset. Outliers could indicate data entry errors or exceptional cases that required further investigation.
- Identified outliers were validated through additional checks by using STATA program or, if necessary, follow-up with the respondents. This ensured that the outliers were genuine and not due to errors.

### B.3. Imputation of Missing Data:

- For instances where data was missing, the team used imputation techniques to estimate the missing values. Imputation methods included statistical techniques such as mean substitution, regression imputation, or hot-deck imputation, where necessary. All imputed values were documented by do files (STATA files). This transparency ensured that subsequent analyses accounted for the imputed data appropriately.

### B.4. Data Validation:

- The dataset was validated against external data sources, such as previous surveys, administrative records, and satellite imagery (limited), to ensure accuracy and reliability.
- The validation process included a feedback loop where any identified issues were communicated back to the data collection teams for clarification and correction.
- Technical online meetings between FAO, NBS, OCGS and ASLMs related to data validation were conducted professionally to ensure accountability of data along the value chain.

## C. Statistical Disclosure Control (SDC)

- Microdata are disseminated as Public Use Files under the terms indicated in Appendix A of the NBS Dissemination and Pricing Policy (<https://www.nbs.go.tz/publications/policies-and-legislations>). These access conditions are also indicated in the "data access" section below.
- Statistical Disclosure Control (SDC) methods have been applied to the microdata, to protect the confidentiality of the individual data collected. These methods include: i) removal of information that may directly identify a respondent (name, address, etc.), ii) grouping values of some variables into categories (e.g. age), iii) limiting geographical information to the region level or higher, iv) suppression of some data points for variables that, in combination with others, may pose a relevant risk of identification of a statistical unit, v) adding noise to continuous variables, vi) censoring the highest values (top-coding) and replacing them with less extreme values from other respondents, or vii) rounding numerical values.
- Users must be aware that these anonymization or SDC methods modify the data, including suppression of some data points. This affects the aggregated values derived from the anonymized microdata, and may have other unwanted consequences, such as sampling error and bias. The impact of anonymization is generally stronger on the smaller subpopulations (lower frequencies). For instance, data from large-scale farms are often more distorted than data from agricultural households as result of the sdc process, because large-scale farms appear in smaller number in the sample than the agricultural households.

## D. Continuous Improvement

- After the completion of the survey, the entire process was reviewed to identify areas for improvement. Feedback from all team members and stakeholders was gathered to refine the methodologies and protocols for future agriculture surveys in series under 50x20230 initiatives.
- Detailed documentation of all processes, decisions, and methodologies was maintained. This documentation served as a reference for future surveys and contributed to the transparency and re-productibility of the survey process.

## Access policy

### CONFIDENTIALITY

1. Confidentiality Ensuring the confidentiality of respondents is paramount not only in the Annual Agriculture Sample Survey for the agriculture year 2022/23 but also for all individual data collected by NBS/OCGS for statistical purposes. The UN Fundamental Principles of Official Statistics (<http://unstats.un.org/unsd/dnss/gp/FP-New-E.pdf>) indicate, under principle 6, that "individual data collected by statistical agencies for statistical compilation, whether they refer to natural or legal persons, are to be strictly confidential and used exclusively for statistical purposes". Protecting respondents' privacy fosters trust, encourages participation, and upholds legal and ethical standards.

2. Legal Framework and Agreements (i) National Statistics Act, [Cap 351 R.E 2019] The confidentiality of respondent data is protected under the National Statistics Act Cap 351 R.E 2019. This legislation mandates that all personal data collected through surveys be kept confidential and used solely for statistical purposes. The Act includes provisions for penalties against individuals or organizations that breach confidentiality agreements, ensuring strict adherence to privacy standards. (ii) Data Protection and Privacy Regulations: The survey adheres to national data protection and privacy regulations, which outline specific requirements for the handling, storage, and sharing of personal data. These regulations ensure that respondent information is not disclosed without consent. Additionally, respondents were briefed on the confidentiality and were required to listen to the consent information and confirm their understanding and agreement before participating in the survey. Confidentiality Agreements: All enumerators and other staff along the value chain involved in the data collection were required to sign confidentiality agreements. These agreements legally bind them to protect the privacy of respondents and prohibit the unauthorized sharing of data.

3. Instructions for Data Access: (i) Restricted Access: Access to the survey data is restricted. Only authorized personnel, who have undergone necessary training on data confidentiality, are allowed to handle the raw data. In addition, access levels are assigned based on roles, ensuring that individuals only have access to the data necessary for their specific tasks. For example, enumerators have access to the data they collect, while analysts have access to aggregated datasets. (ii) User Agreements for Data Access: Users who wish to access the survey data online must formally agree to specific terms and conditions (must sign it) to protect the confidentiality of respondents. This Data Use Agreement (DUA) outlines the permissible uses of the data, restrictions on sharing, and requirements for data security. The Non-Disclosure Agreement (NDA) legally binds data users to maintain the confidentiality of the data and to not disclose any personally identifiable information. (iii) Data Anonymization: Before any data is shared or published, it undergoes an anonymization process (Statistical Disclosure Control). This includes removing or masking personally identifiable information (PII) such as names, addresses, GPS coordinates and contact details. Among other measures, geographic information is limited to the region level or higher, to protect individual respondents from identification in the published results. (iv) Data Security Measures: Data is stored on secured servers with robust encryption protocols to prevent unauthorized access. NBS, OCGS, and FAO have the survey's data secured on their respective servers. Physical and digital security measures are implemented to protect the data from breaches. (v) Training and Awareness: All personnel involved in the survey process undergo comprehensive training on data confidentiality, emphasizing the importance of protecting respondent information. Continuous awareness programs and refresher training sessions were conducted to keep staff updated on best practices and legal requirements related to data confidentiality.

### ACCESS CONDITIONS

The dataset has been anonymized and is available as a Public Use Dataset. It is accessible to all for statistical and research purposes only, under the following terms and conditions, as per Appendix A of the NBS Dissemination and Pricing Policy (<https://www.nbs.go.tz/publications/policies-and-legislations>):

1. The data and other materials will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement of the National Bureau of Statistics.
2. The data will be used for statistical and scientific research purposes only. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations.
3. No attempt will be made to re-identify respondents, and no use will be made of the identity of any person or establishment discovered inadvertently. Any such discovery would immediately be reported to the National Bureau of Statistics.
4. No attempt will be made to produce links among datasets provided by the National Bureau of Statistics, or among data from the National Bureau of Statistics and other datasets that could identify individuals or organizations.
5. Any books, articles, conference papers, theses, dissertations, reports, or other publications that employ data obtained from the National Bureau of Statistics will cite the source of data in accordance with the Citation Requirement provided with each dataset.
6. An electronic copy of all reports and publications based on the requested data will be sent to the National Bureau of Statistics.

The original collector of the data, the Tanzania NBS, and the relevant funding agencies bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

## CITATION REQUIREMENTS

Tanzania National Bureau of Statistics. Annual Agriculture Sample Survey 2022/23 (AASS 2023), Version 1.1 of the public use dataset (June 2024), available at the National Data Archive: (<https://www.nbs.go.tz/tnada/index.php/home>).

## ACCESS AUTHORITY

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## Metadata production

## DDI DOCUMENT ID

DDI\_TZA\_2022-2023\_AASS\_v01\_M\_v01\_A\_ESS

## PRODUCERS

Name	Abbreviation	Affiliation	Role
National Bureau of Statistics	NBS	Government of Tanzania	Documentation of the study
Office of the Chief Government Statistician of Zanzibar	OCGS	The Revolutionary Government of Zanzibar	Documentation of the study
Food and Agriculture Organization	FAO	United Nations	Technical assistance/Metadata adapted for FAM
Development Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

## DATE OF METADATA PRODUCTION

2024-11-13

## DDI DOCUMENT VERSION

Identical to a metadata (TZA\_2022-2023\_AASS\_v01\_EN\_M\_V01\_A\_ESS) published on FAO microdata repository (<https://microdata.fao.org/index.php/catalog>). Some of the metadata fields have been edited.

**data\_dictionary**

<b>Data file</b>	<b>Cases</b>	<b>variables</b>
<b>AASS2023</b>	0	46
<b>aquaculture</b>	0	13
<b>crop_use</b>	0	23
<b>external_labor_activities</b>	0	14
<b>field</b>	0	7
<b>household</b>	0	25
<b>inputs</b>	0	23
<b>items_services</b>	0	9
<b>masika_use</b>	0	7
<b>masikacrop</b>	0	33
<b>masikaplot</b>	0	36
<b>otherproducts</b>	0	15
<b>permanent_crop</b>	0	20
<b>seeds</b>	0	25
<b>vuli_use</b>	0	7
<b>vulicrop</b>	0	32
<b>vuliplot</b>	0	36



**Data file: AASS2023**

Cases: 0

variables: 46

**variables**

ID	Name	Label	Question
V1	holding_id	Holding ID	
V2	Weight	Weight	
V3	holding_type	Household or Farm	
V4	region	Region	
V5	holding_head_sex	Sex of holding head	
V6	holding_head_age	Age of holding head	
V7	s2q10__1	Household participated in Tanzania Agricultural Inputs Support Project (TAISP)	
V8	s2q10__2	Household participated in Agriculture and Fisheries Development Program (AFDP)	
V9	s2q10__3	Household participated in Initiative for Preventing Aflatoxin Contamination	
V10	s2q10__4	Household received Caricides And Vaccines Subsidies	
V11	s2q10__5	Household participated in Irrigation Schemes	
V12	s2q10__6	Household participated in Productive Social Safety Net (PSSN)	
V13	s2q10__7	Household participated in none of the above	
V14	s3q06	Total amount earned from renting/sharecropping land during ag year (TZS)	
V15	s19q04a	Did the farm access to or avail formal/informal credit?	
V16	s19q04b__0	Household member ID with access to credit	
V17	s19q04b__1	Household member ID with access to credit	
V18	s19q04b__2	Household member ID with access to credit	
V19	s19q05	Did the farm access to or avail insurance?	
V20	s19q06a	Did the farm take any loan for farming?	
V21	s19q06b__0	Household member ID taking the loan	
V22	s19q06b__1	Household member ID taking the loan	
V23	s19q06b__2	Household member ID taking the loan	
V24	s19q06c_cash	Total cash amount received? (TZS)	
V25	s19q06c_kind	Total in-kind amount received? (TZS)	
V26	loan	Total amount received? (TZS)	
V27	s19q06d	What was the loan yearly interest rate?	
V28	s19q06e	Who was the main loan provider?	
V29	s19q07__1	Three main reason for loans? Pay for laborers	
V30	s19q07__2	Three main reason for loans? Purchase seeds, fertilisers, etc	
V31	s19q07__3	Three main reason for loans? Buy/repair farm equipment, etc	
V32	s19q07__4	Three main reason for loans? Draught power	
V33	s19q07__5	Three main reason for loans? Purchase animals	
V34	s19q07__6	Three main reason for loans? Purchase animal input	
V35	s19q07__7	Three main reason for loans? Aquaculture	
V36	s19q07__8	Three main reason for loans? Apiculture	
V37	s19q07__9	Three main reason for loans? Trading produce	
V38	s19q07__10	Three main reason for loans? Purchase land	

ID	Name	Label	Question
V39	s19q07__99	Three main reason for loans? Other	
V40	s19q08	Why hasn't the household/farm taken loans?	
V41	s19q09a	Did the farm repaid any loan?	
V42	s19q09b_cash	Total cash amount repaid? (TZS)	
V43	s19q09b_kind	Total in-kind amount repaid? (TZS)	
V44	payback	Total amount reimbursed (TZS)	
V45	s20q01	Is the farm recorded in an official register?	
V46	s20q02a	Type of Register	

total: 46

**Data file: aquaculture**

Cases:	0
variables:	13

**variables**

ID	Name	Label	Question
V47	holding_id	Holding ID	
V48	Weight	Weight	
V49	holding_type	Household or Farm	
V50	region	Region	
V51	s17_aquaculture__id	Acquaculture product ID	
V52	s17q01b	Main source of fingerlings for this product collected from Oct-22 to Sep-23?	
V53	s17q02	What was the total quantity of this product collected from Oct-22 to Sep-23? (kg)©\$us17q02	
V54	s17q03_kg	Quantity of this product consumed by this farm (kg)	
V55	s17q04	Did the farm sell any of this product collected from Oct-22 to Sep-23?	
V56	s17q05_kg	Quantity of this product sold (kg)	
V57	s17q06a	Total revenue or unit price?	
V58	s17q06b	Total amount earned from this product sold from Oct-22 to Sep-23? (TZS)	
V59	s17q06c	Average unit price of this product in the agric year 22/23? (TZS per kg)	

total: 13



**Data file: crop\_use**

Cases:	0
variables:	23

**variables**

ID	Name	Label	Question
V60	holding_id	Holding ID	
V61	Weight	Weight	
V62	holding_type	Household or Farm	
V63	region	Region	
V64	crop_id	Crop	
V65	s9q01	Did you store any of the crop harvested in the past 2022/23 agricultural year?	
V66	s9q02__1	Using production: for sale	
V67	s9q02__2	Using production: for self-consumption	
V68	s9q02__3	Using production: for giving out as gift to other households	
V69	s9q02__4	Using production: for paying for land, lab our or inputs	
V70	s9q02__5	Using production: for animal feed	
V71	s9q02__6	Using production: for seeds for next season	
V72	s9q02__7	Using production: for processing and sale	
V73	s9q02__99	Using production for: other	
V74	s9q03	What was the percentage or proportion of the harvest use in the 2022/23 season?	
V75	s9q04	Total value of all unprocessed harvest sales or intended sales? (TZS)	
V76	s9q05	Percentage of past harvest consumed (or intended to) by household members	
V77	s9q06	Percentage of past harvest gifted (or intended to)	
V78	s9q07	Percentage of past harvest used to pay for land, labor, inputs in storage	
V79	s9q08	Percentage of past harvest was used (or intended to) for animal feed	
V80	s9q09	Percentage of past harvest was used (or intended to) for seeds in next season	
V81	s9q10	Percentage of past harvest was processed (or intended to) for sale	
V82	s9q11	Percentage of past harvest was used (or intended to) for any other purposes	

total: 23

**Data file: external\_labor\_activities**

Cases:	0
variables:	14

**variables**

ID	Name	Label	Question
V83	holding_id	Holding ID	
V84	Weight	Weight	
V85	holding_type	Household or Farm	
V86	region	Region	
V87	External_labor__id	Work category	
V88	External_labor_activities__id	Activity type	
V89	s18q06b	Did any external labor work on this activity in the 2022/23 ag year?	
V90	s18q07	How many external workers were involved in this activity?	
V91	s18q08	How many months did external workers work on this activity?	
V92	s18q09	How many days per month did external workers work on this activity?	
V93	s18q10	How many hours per day did external workers work on this activity?	
V94	s18q11	Did you pay external workers for this activity?	
V95	s18q12	Total in-cash payment? (TZS)	
V96	s18q13	Total in-kind payment? (TZS)	

total: 14

**Data file: field**

Cases: 0

variables: 7

**variables**

ID	Name	Label	Question
V97	holding_id	Holding ID	
V98	Weight	Weight	
V99	holding_type	Household or Farm	
V100	region	Region	
V101	FIELD__id	Field ID	
V102	s3q03	What type of tenure rights do the farm have on this field?	
V103	s3q04a_acres	Area of the field in acres	

total: 7

**Data file: household**

Cases:	0
variables:	25

**variables**

ID	Name	Label	Question
V104	holding_id	Holding ID	
V105	Weight	Weight	
V106	holding_type	Household or Farm	
V107	region	Region	
V108	member_id	Household member	
V109	s2q02	Sex	
V110	s2q03	In this household, what is member's relationship to the head?	
V111	s2q04	Household member age	
V112	s2q05	Did household member work on agricultural activities in the past ag year?	
V113	s2q06	Does household member take economic or routine decisions concerning farms?	
V114	s2q07	Has household member ever attended school?	
V115	s2q08	What is household member's highest completed educational level?	
V116	s2q09	Has household member ever received any formal training in agriculture?	
V117	s18q04__1	Did household member worked on crop production?	
V118	s18q04__2	Did household member work on livestock?	
V119	s18q04__3	Did household member work on aquaculture?	
V120	s18q05a	Number of months household member worked on crop activities	
V121	s18q05b	Days per month household member worked on crops	
V122	s18q05c	Hours per day household member worked on crops, on average	
V123	s18q05d	Number of months household member worked on livestock	
V124	s18q05e	Days per month household member worked on livestock	
V125	s18q05f	Hours per day on average household member worked on livestock	
V126	s18q05g	Number of months household member worked on aquaculture	
V127	s18q05h	Days per month household member worked on aquaculture	
V128	s18q05i	Hours per day on average household member worked on aquaculture	

total: 25

**Data file: inputs**

Cases:	0
variables:	23

**variables**

ID	Name	Label	Question
V129	holding_id	Holding ID	
V130	Weight	Weight	
V131	holding_type	Household or Farm	
V132	region	Region	
V133	InputRoster_id	Input	
V134	s11q01	The quantity of input that household used during the past 22/23 ag year	
V135	s11q01_unit	Unit of measurement by the respondent	
V136	s11q02__1	Sources of input used: Gift from neighbors, Friends, relatives	
V137	s11q02__2	Sources of input used: Donations from governmental institutions	
V138	s11q02__3	Sources of input used: Donations from non gov organizations	
V139	s11q02__4	Sources of input used: Purchase from local merchant/grocery	
V140	s11q02__5	Sources of input used: Purchase from government agency	
V141	s11q02__6	Sources of input used: Purchase from farmer association	
V142	s11q02__7	Sources of input used: Own source	
V143	s11q02__99	Sources of input used: Other	
V144	s11q03	Input purchase subsidy in the past 2022/23 ag year	
V145	s11q04a	Total non-subsidized input for past 2022/23 ag year	
V146	s11q04a_unit	Unit of total non-subsidized input for past 2022/23 ag year	
V147	s11q04b	Total subsidized inputs for past 2022/23 ag year	
V148	s11q06a	Total non-subsidized value of inputs for past 2022/23 ag year (TZS)	
V149	s11q06b	Total subsidized value of inputs for past 2022/23 ag year (TZS)	
V150	s11q07a	Average non-subsidized unit price of the input for past 2022/23 ag year	
V151	s11q07b	Average subsidized unit price of the input for past 2022/23 ag year	

total: 23

**Data file: items\_services**

Cases: 0

variables: 9

**variables**

ID	Name	Label	Question
V152	holding_id	Holding ID	
V153	Weight	Weight	
V154	holding_type	Household or Farm	
V155	region	Region	
V156	items_service_id	Item or service	
V157	s19q01b	Did the farm pay for this item or service?	
V158	s19q02	What was the total amount paid for this item or service? (TZS)	
V159	s19q03	What period of time does this payment cover?	
V160	s19q03_unit	Unit mentioned by the respondent?	

total: 9

**Data file: masika\_use**

Cases: 0

variables: 7

**variables**

ID	Name	Label	Question
V161	holding_id	Holding ID	
V162	Weight	Weight	
V163	holding_type	Household or Farm	
V164	region	Region	
V165	FIELD__id	Field ID	
V166	masika_use_roster__id	Field use ID	
V167	s3q05b_1	Percentage of the field used for Masika/dry season farming	

total: 7

**Data file: masakacrop**

Cases:	0
variables:	33

**variables**

ID	Name	Label	Question
V168	holding_id	Holding ID	
V169	Weight	Weight	
V170	holding_type	Household or Farm	
V171	region	Region	
V172	FIELD__id	Field ID	
V173	MASIKAPLOT__id	Plot ID	
V174	TEMP_PERM	Is this crop a temporary or permanent?	
V175	crop_id	Crop	
V176	areaPlanted	Area planted (acres)	
V177	s7q02a	Was this crop under greenhouse/high shelter during 22/23 Masika/dry seasons?	
V178	s7q03	When was this crop planted on this plot during the current masika/dry season?	
V179	s7q04__1	Crop seeds used in the 22/23 Masika/dry season?: Improved	
V180	s7q04__2	Crop seeds used in the 22/23 Masika/dry season?: Traditional	
V181	s7q04__3	Crop seeds used in the 22/23 Masika/dry season?: Improved, recycled	
V182	s7q05	Harvested any of this crop on this plot in past 2022/2023 Masika/dry?	
V183	s7q06	Why didn't you harvest this crop from this plot during 22/23 Masika/dry season?	
V184	s7q07	When did you harvest this crop during the past masika/dry season?	
V185	areaHarvested	Area harvested (acres)	
V186	s7q10__1	Why not harvesting all planted crop? Too little rain/drought	
V187	s7q10__2	Why not harvesting all planted crop? Rain/flood damage	
V188	s7q10__3	Why not harvesting all planted crop? Rain too early/too late	
V189	s7q10__4	Why not harvesting all planted crop? Wind/frost damage	
V190	s7q10__5	Why not harvesting all planted crop? Plant pest/disease	
V191	s7q10__6	Why not harvesting all planted crop? Fire damage	
V192	s7q10__7	Why not harvesting all planted crop? Crop theft	
V193	s7q10__8	Why not harvesting all planted crop? No available labor	
V194	s7q10__9	Why not harvesting all planted crop? Animal/birds damage	
V195	s7q10__99	Why not harvesting all planted crop? Other	
V196	s7q11	Is this crop on this plot cultivated in a compact or scattered planting?	
V197	s7q12	How many this crop plants/trees are on this plot?	
V198	s7q13	How many of them are in the production age?	
V199	s7q14	Have you planted any of this crop during the ongoing masika season?	
V200	production_kg	Production (kg)	

total: 33



**Data file: masikaplot**

Cases:	0
variables:	36

**variables**

ID	Name	Label	Question
V201	holding_id	Holding ID	
V202	Weight	Weight	
V203	holding_type	Household or Farm	
V204	region	Region	
V205	FIELD_id	Field ID	
V206	MASIKAPLOT_id	Masika plot ID	
V207	s6q02	During the past 2022/2023 masika & dry seasons, how was this plot used?	
V208	s6q03_acres	Plot area (acres)	
V209	s6q04	Pure stand or mixed	
V210	s6q05a	Any irrigation structures on this plot in the 22/23 masika/dry season?	
V211	s6q05b	Percentage of this plot was irrigated in past 2022/23 masika/dry season?	
V212	s6q06	Main irrigation method on this plot in past 2022/23 masika/dry season	
V213	s6q07	Any organic fertilizers on this plot in past 2022/23 masika/dry season?	
V214	s6q08__1	Organic fertilizers in past masika/dry?_Solid manure/farm yard manure	
V215	s6q08__2	Organic fertilizers in past masika/dry?_Liquid manure/slurry	
V216	s6q08__3	Organic fertilizers in past masika/dry?_Green manure (crop residues)	
V217	s6q08__4	Organic fertilizers in past masika/dry?_Compost	
V218	s6q08__5	Organic fertilizers in past masika/dry?_Stabilized sewage sludge	
V219	s6q08__6	Organic fertilizers in past masika/dry?_Biofertilizers	
V220	s6q08__7	Organic fertilizers in past masika/dry?_Other	
V221	s6q09	Any inorganic fertilizers on this plot in past 2022/23 masika/dry season?	
V222	s6q10__8	Inorganic fertilizers in past masika/dry? Urea	
V223	s6q10__9	Inorganic fertilizers in past masika/dry? Diammonium phosphate (DAP)	
V224	s6q10__10	Inorganic fertilizers in past masika/dry? Calcium ammonium nitrate (CAN)	
V225	s6q10__11	Inorganic fertilizers in past masika/dry? Ammonium sulphate (SA)	
V226	s6q10__12	Inorganic fertilizers in past masika/dry? NPK	
V227	s6q10__13	Inorganic fertilizers in past masika/dry? Minjingu nafaka plus	
V228	s6q10__14	Inorganic fertilizers in past masika/dry? Nps zinc	
V229	s6q10__15	Inorganic fertilizers in past masika/dry? Other	
V230	s6q11	Any pesticides on this plot in past 2022/23 vuli season?	
V231	s6q12__16	Pesticides in past masika/dry? Insecticides	
V232	s6q12__17	Pesticides in past masika/dry? Herbicides (solid)	
V233	s6q12__18	Pesticides in past masika/dry? Herbicides (liquid)	
V234	s6q12__19	Pesticides in past masika/dry? Fungicides	
V235	s6q12__20	Pesticides in past masika/dry? Rodenticides	
V236	s6q12__21	Pesticides in past masika/dry? Other	

total: 36

**Data file: otherproducts**

Cases: 0

variables: 15

**variables**

ID	Name	Label	Question
V237	holding_id	Holding ID	
V238	Weight	Weight	
V239	holding_type	Household or Farm	
V240	region	Region	
V241	sec16_otherproducts__id	Id in sec16_otherproducts	
V242	s16q02a	How many local bee hives in this household/farm as of 1st October 2023?	
V243	s16q02b	How many improved bee hives in this household/farm as of 1st October 2023?	
V244	s16q03	What is the quantity of product produced from October 2022 to September 2023?	
V245	s16q03_unit	What is the unit of measurement of livestock product type produced?	
V246	s16q04	Did this household/farm sell any livestock product type produced?	
V247	s16q05	What is the quantity of product sold from Oct 2022 to Sep 2023?	
V248	s16q06a	What do you prefer giving the total value of earnings or the unit price?	
V249	s16q06b	Total earnings from selling/renting draught animals Oct 22 - Sep 23? (TZS)	
V250	s16q06c	Total value of product sold from Oct-22 to Sept-23? (TZS)	
V251	s16q06d	Average price of the product per unit sold? (TZS per unit)	

total: 15

**Data file: permanent\_crop**

Cases: 0

variables: 20

**variables**

ID	Name	Label	Question
V252	holding_id	Holding ID	
V253	Weight	Weight	
V254	holding_type	Household or Farm	
V255	region	Region	
V256	FIELD_id	Field ID	
V257	crop_id	Crop	
V258	s8q01	Did you harvest any of this crop on this field in the past 22/23 Ag year?	
V259	s8q02	Why didn't you harvest this crop from this field in the past 22/23 Ag year?	
V260	s8q03__1	When was this crop harvested from this field in the 22/23 Ag year?: Jan 2023	
V261	s8q03__2	When was this crop harvested from this field in the 22/23 Ag year?: Feb 2023	
V262	s8q03__3	When was this crop harvested from this field in the 22/23 Ag year?: March 2023	
V263	s8q03__4	When was this crop harvested from this field in the 22/23 Ag year?: April 2023	
V264	s8q03__5	When was this crop harvested from this field in the 22/23 Ag year?: May 2023	
V265	s8q03__6	When was this crop harvested from this field in the 22/23 Ag year?: June 2023	
V266	s8q03__7	When was this crop harvested from this field in the 22/23 Ag year?: July 2023	
V267	s8q03__8	When was this crop harvested from this field in the 22/23 Ag year?: August 2023	
V268	s8q03__9	When was this crop harvested from this field in the 22/23 Ag year?: Sept 2023	
V269	s8q03__10	When was this crop harvested from this field in the 22/23 Ag year?: Oct 2022	
V270	s8q03__11	When was this crop harvested from this field in the 22/23 Ag year?: Nov 2022	
V271	s8q03__12	When was this crop harvested from this field in the 22/23 Ag year?: Dec 2022	

total: 20

**Data file: seeds**

Cases:	0
variables:	25

**variables**

ID	Name	Label	Question
V272	holding_id	Holding ID	
V273	Weight	Weight	
V274	holding_type	Household or Farm	
V275	region	Region	
V276	crop_id	Crop	
V277	TEMP_PERM		
V278	s10q01	Quantity of crop seed planted during the past vuli season?	
V279	s10q01_unit	Unit mentioned by the respondent?	
V280	s10q02	Quantity of crop seed planted during the past masika season?	
V281	s10q02_unit	Unit mentioned by the respondent?	
V282	s10q03__1	Sources of seeds?:From previous holding's harvest	
V283	s10q03__2	Sources of seeds?:Gift from neighbors, Friends, relatives	
V284	s10q03__3	Sources of seeds?:Donations from governmental institutions	
V285	s10q03__4	Sources of seeds?:Donations from non gov organizations	
V286	s10q03__5	Sources of seeds?:Purchase from local merchant/grocery	
V287	s10q03__6	Sources of seeds?:Purchase from government agency	
V288	s10q03__7	Sources of seeds?:Purchase from farmer association	
V289	s10q03__99	Sources of seeds?:Other	
V290	s10q04	Were seeds and seedlings purchased in 2022/23 all subsidized?	
V291	s10q05a	Total non-subsidized seeds purchased?	
V292	s10q05a_unit	Unit mentioned by the respondent?	
V293	s10q05b	Total subsidized seeds purchased?	
V294	s10q05b_unit	Unit mentioned by the respondent?	
V295	s10q06a	Average non-subsidized unit price of the seeds? (TZS per unit selected)	
V296	s10q06b	Average subsidized unit price of the seeds? (TZS per unit selected)	

total: 25

**Data file: vuli\_use**

Cases: 0

variables: 7

**variables**

ID	Name	Label	Question
V297	holding_id	Holding ID	
V298	Weight	Weight	
V299	holding_type	Household or Farm	
V300	region	Region	
V301	FIELD__id	Field ID	
V302	vuli_use_roster__id	Field use ID	
V303	s3q05a_1	Percentage of the field used for vuli season farming	

total: 7

**Data file: vulicrop**

Cases: 0

variables: 32

**variables**

ID	Name	Label	Question
V304	holding_id	Holding ID	
V305	Weight	Weight	
V306	holding_type	Household or Farm	
V307	region	Region	
V308	FIELD_id	Field ID	
V309	VULILOT_id	Plot ID	
V310	TEMP_PERM	Is this crop a temporary or permanent?	
V311	crop_id	Crop	
V312	areaPlanted	Area planted (acres)	
V313	s5q03	When was this crop planted on this plot during the past 2022/23 vuli?	
V314	s5q04__1	Which crop seeds used in the 22/23 Vuli season?: Improved	
V315	s5q04__2	Which crop seeds used in the 22/23 Vuli season?: Traditional	
V316	s5q04__3	Which crop seeds used in the 22/23 Vuli season?: Improved, recycled	
V317	s5q05	Harvested any crop from this plot in past 22/23 Vuli?	
V318	s5q06	Why didn't you harvest this crop from this plot during 22/23 Vuli season?	
V319	s5q07	When was this crop harvested from this plot during the 2022/23 vuli season?	
V320	areaHarvested	Area harvested (acres)	
V321	s5q10__1	Why wasn't the entire crop harvested? Too little rain/drought	
V322	s5q10__2	Why wasn't the entire crop harvested? Rain/flood damage	
V323	s5q10__3	Why wasn't the entire crop harvested? Rain too early/too late	
V324	s5q10__4	Why wasn't the entire crop harvested? Wind/frost damage	
V325	s5q10__5	Why wasn't the entire crop harvested? Plant pest/disease	
V326	s5q10__6	Why wasn't the entire crop harvested? Fire damage	
V327	s5q10__7	Why wasn't the entire crop harvested? Crop theft	
V328	s5q10__8	Why wasn't the entire crop harvested? No available labor	
V329	s5q10__9	Why wasn't the entire crop harvested? Animal/birds damage	
V330	s5q10__99	Why wasn't the entire crop harvested? Other	
V331	s5q11	Was the crop on this plot cultivated compactly or with scattered planting?	
V332	s5q12	How many plants/trees are on this plot?	
V333	s5q13	How many productive plants/trees are on this plot?	
V334	s5q14	Have you planted any of this crop during the past 2022/23 vuli season?	
V335	production_kg	Production (kg)	

total: 32

**Data file: vuliplot**

Cases:	0
variables:	36

**variables**

ID	Name	Label	Question
V336	holding_id	Holding ID	
V337	Weight	Weight	
V338	holding_type	Household or Farm	
V339	region	Region	
V340	FIELD__id	Field ID	
V341	VULILOT__id	Vuli plot ID	
V342	s4q02	During the past vuli season, how was this plot used?	
V343	s4q03_acres	Vuli plot area (acres)	
V344	s4q04	Pure Stand or Mixed	
V345	s4q05a	Any irrigation structures on this plot in past 2022/23 vuli season?	
V346	s4q05b	Percentage of plot irrigated in past 2022/23 vuli season?	
V347	s4q06	Main irrigation method on this plot in past 2022/23 vuli season?	
V348	s4q07	Any organic fertilizers on this plot in past 2022/23 vuli season?	
V349	s4q08__1	Organic fertilizers in past vuli? Solid manure/farm yard manure	
V350	s4q08__2	Organic fertilizers in past vuli? Liquid manure/slurry	
V351	s4q08__3	Organic fertilizers in past vuli? Green manure (crop residues)	
V352	s4q08__4	Organic fertilizers in past vuli? Compost	
V353	s4q08__5	Organic fertilizers in past vuli? Stabilized sewage sludge	
V354	s4q08__6	Organic fertilizers in past vuli? Biofertilizers	
V355	s4q08__7	Organic fertilizers in past vuli? Other	
V356	s4q09	Any inorganic fertilizers on this plot in past 2022/23 vuli season?	
V357	s4q10__8	Inorganic fertilizers in past vuli? Urea	
V358	s4q10__9	Inorganic fertilizers in past vuli? DAP	
V359	s4q10__10	Inorganic fertilizers in past vuli? CAN	
V360	s4q10__11	Inorganic fertilizers in past vuli? SA	
V361	s4q10__12	Inorganic fertilizers in past vuli? NPKs	
V362	s4q10__13	Inorganic fertilizers in past vuli? Minjingu Nafaka Plus	
V363	s4q10__14	Inorganic fertilizers in past vuli? NPS Zinc	
V364	s4q10__15	Inorganic fertilizers in past vuli? Other	
V365	s4q11	Any pesticides on this this plot in past 2022/23 vuli season?	
V366	s4q12__16	Pesticides in past vuli? Insecticides	
V367	s4q12__17	Pesticides in past vuli? Herbicides (solid)	
V368	s4q12__18	Pesticides in past vuli? Herbicides (liquid)	
V369	s4q12__19	Pesticides in past vuli? Fungicides	
V370	s4q12__20	Pesticides in past vuli? Rodenticides	
V371	s4q12__21	Pesticides in past vuli? Other	

total: 36





**HOLDING\_ID: Holding ID****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 9 Range: - Format: character

**S2Q10\_\_4: Household received Caricides And Vaccines Subsidies****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**WEIGHT: Weight****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 16 Range: 1 - 2624.52480757643 Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file: AASS2023****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro
4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja

52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## HOLDING\_HEAD\_SEX: Sex of holding head

Data file: AASS2023

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	Female
1	Male

## HOLDING\_HEAD\_AGE: Age of holding head

Data file: AASS2023

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	<35
2	35-54
3	55-64
4	65+

## S2Q10\_\_1: Household participated in Tanzania Agricultural Inputs Support Project (TAISP)

Data file: AASS2023

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S2Q10\_\_2: Household participated in Agriculture and Fisheries Development Program (AFDP)**

Data file: AASS2023

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S2Q10\_\_3: Household participated in Initiative for Preventing Aflatoxin Contamination**

Data file: AASS2023

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S2Q10\_\_5: Household participated in Irrigation Schemes****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S2Q10\_\_6: Household participated in Productive Social Safety Net (PSSN)****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S2Q10\_\_7: Household participated in none of the above****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S3Q06: Total amount earned from renting/sharecropping land during ag year (TZS)****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

**S19Q04A: Did the farm access to or avail formal/informal credit?****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S19Q04B\_\_0: Household member ID with access to credit****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 10 Format: Numeric

**S19Q04B\_\_1: Household member ID with access to credit****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 2 - 3 Format: Numeric

**S19Q04B\_\_2: Household member ID with access to credit****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: - Format: Numeric

**S19Q05: Did the farm access to or avail insurance?****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S19Q06A: Did the farm take any loan for farming?****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No

1	Yes
---	-----

**S19Q06B\_\_0: Household member ID taking the loan****Data file: AASS2023****Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 10    Format: Numeric

**S19Q06B\_\_1: Household member ID taking the loan****Data file: AASS2023****Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 1    Range: 2 - 2    Format: Numeric

**S19Q06B\_\_2: Household member ID taking the loan****Data file: AASS2023****Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 1    Range: -    Format: Numeric

**S19Q06C\_CASH: Total cash amount received? (TZS)****Data file: AASS2023****Overview**

Valid: 0    Invalid: 0  
 Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 7    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )



7	1 000 000 +
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## S19Q06C\_KIND: Total in-kind amount received? (TZS)

Data file: AASS2023

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

## LOAN: Total amount received? (TZS)

Data file: AASS2023

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

**S19Q06D: What was the loan yearly interest rate?****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: -99 - 100 Format: Numeric

**S19Q06E: Who was the main loan provider?****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Public banks or other gov. Institutions
2	Commercial banks
3	Insurance companies
4	Microfinance institutions
5	NGOs
6	Production cooperatives
7	Private money lender
8	Friends or family - living in the country
9	Friends or family - living abroad
99	Other

**S19Q07\_\_1: Three main reason for loans? Pay for laborers****Data file: AASS2023****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
-------	----------

0	No
1	Yes

### S19Q07\_\_2: Three main reason for loans? Purchase seeds, fertilisers, etc

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S19Q07\_\_3: Three main reason for loans? Buy/repair farm equipment, etc

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S19Q07\_\_4: Three main reason for loans? Draught power

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S19Q07\_\_5: Three main reason for loans? Purchase animals

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S19Q07\_\_6: Three main reason for loans? Purchase animal input

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S19Q07\_\_7: Three main reason for loans? Aquaculture

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S19Q07\_\_8: Three main reason for loans? Apiculture

Data file: AASS2023

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S19Q07\_\_9: Three main reason for loans? Trading produce

Data file: AASS2023

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S19Q07\_\_10: Three main reason for loans? Purchase land

Data file: AASS2023

### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## **S19Q07\_\_99: Three main reason for loans? Other**

Data file: AASS2023

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## **S19Q08: Why hasn't the household/farm taken loans?**

Data file: AASS2023

### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 99    Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Did not request
2	Request was refused
3	Impossible to request, no access
4	Investment activity not accepted
5	Not enough income
6	Bad credit history
7	Inadequate collateral

8	Interest rate too high
99	Other

### S19Q09A: Did the farm repaid any loan?

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S19Q09B\_CASH: Total cash amount repaid? (TZS)

Data file: AASS2023

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

### S19Q09B\_KIND: Total in-kind amount repaid? (TZS)

Data file: AASS2023

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

**PAYBACK: Total amount reimbursed (TZS)**

Data file: AASS2023

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

**S20Q01: Is the farm recorded in an official register?**

Data file: AASS2023

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric



## Questions and instructions

---

### CATEGORIES

Value	Category
0	No
1	Yes

---

### S20Q02A: Type of Register

Data file: AASS2023

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

## Questions and instructions

---

### CATEGORIES

Value	Category
1	Registration of Business name
2	Registration of Company limited by Shares

---

**HOLDING\_ID: Holding ID****Data file: aquaculture****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 9 Range: - Format: character

**WEIGHT: Weight****Data file: aquaculture****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 16 Range: 1 - 1653.02959802839 Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file: aquaculture****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file: aquaculture****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 56 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## S17\_AQUACULTURE\_\_ID: Acquaculture product ID

Data file: aquaculture

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 3 Range: 1 - 999 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Milkfish
2	Tilapia
8	Seaweed
999	Other

### S17Q01B: Main source of fingerlings for this product collected from Oct-22 to Sep-23?

Data file: aquaculture

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Own source
2	Neighbor
3	Government institution
4	Private trade
5	NGO/project
6	Natural pond
99	Other

### S17Q02: What was the total quantity of this product collected from Oct-22 to Sep-23? (kg)©\$us17q02

Data file: aquaculture

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 5 Range: 0 - 14500 Format: Numeric

### S17Q03\_KG: Quantity of this product consumed by this farm (kg)

Data file: aquaculture

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 560 Format: Numeric

**S17Q04: Did the farm sell any of this product collected from Oct-22 to Sep-23?****Data file: aquaculture****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S17Q05\_KG: Quantity of this product sold (kg)****Data file: aquaculture****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 5 Range: 0 - 15000 Format: Numeric

**S17Q06A: Total revenue or unit price?****Data file: aquaculture****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Total value
2	Unit Price

**S17Q06B: Total amount earned from this product sold from Oct-22 to Sep-23? (TZS)****Data file: aquaculture****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 8    Range: 20000 - 24000000    Format: Numeric

---

**S17Q06C: Average unit price of this product in the agric year 22/23? (TZS per kg)****Data file: aquaculture****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 5    Range: 200 - 12000    Format: Numeric

---

**HOLDING\_ID: Holding ID****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## CROP\_ID: Crop

Data file: crop\_use

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 4 Range: 11 - 9970 Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category
11	Maize
12	Paddy
13	Sorghum
14	Bulrush Millet
15	Finger Millet
18	Black Pepper
21	Cassava
22	Sweet potatoes
23	Irish potatoes
25	Cocoyams
26	Onion
27	Ginger
28	Garlic
31	Beans
32	Cowpeas
34	Pigeon pea
35	Chick peas
41	Sunflower
42	Sesame
43	Groundnut
46	Cashew nut
50	Cotton
51	Tobacco
54	Coffee
60	Sugar cane
61	Cardamom
64	Cinnamon
66	Clove
71	Banana
72	Avocado
73	Mango
75	Pineapple
76	Orange
78	Grapes
86	Cabbage

88	Spinach
89	Carrot
91	Amaranths
93	Cucumber
95	Watermelon
100	Okra
852	Lemon
871	Tomatoes
872	Bitter tomato
901	Sweet/bell pepper
998	Other
9910	Other cereals
9920	Other fruits
9930	Other leguminous crops
9940	Other oil seeds and nuts
9950	Other permanent/cash crops
9960	Other roots and tubers
9970	Other vegetables

### S9Q01: Did you store any of the crop harvested in the past 2022/23 agricultural year?

Data file: crop\_use

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S9Q02\_\_1: Using production: for sale

Data file: crop\_use

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S9Q02\_\_2: Using production: for self-consumption

Data file: crop\_use

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S9Q02\_\_3: Using production: for giving out as gift to other households

Data file: crop\_use

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S9Q02\_\_4: Using production: for paying for land, lab our or inputs

Data file: crop\_use

### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S9Q02\_\_5: Using production: for animal feed**

Data file: crop\_use

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S9Q02\_\_6: Using production: for seeds for next season**

Data file: crop\_use

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S9Q02\_\_7: Using production: for processing and sale**

Data file: crop\_use

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

**S9Q02\_\_99: Using production for: other****Data file:** crop\_use**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

**S9Q03: What was the percentage or proportion of the harvest use in the 2022/23 season?****Data file:** crop\_use**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 100 Format: Numeric

**S9Q04: Total value of all unprocessed harvest sales or intended sales? (TZS)****Data file:** crop\_use**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 100 - 7264399870 Format: Numeric

**S9Q05: Percentage of past harvest consumed (or intended to) by household members****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

**S9Q06: Percentage of past harvest gifted (or intended to)****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

**S9Q07: Percentage of past harvest used to pay for land, labor, inputs in storage****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 2 - 100    Format: Numeric

**S9Q08: Percentage of past harvest was used (or intended to) for animal feed****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

**S9Q09: Percentage of past harvest was used (or intended to) for seeds in next season****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

**S9Q10: Percentage of past harvest was processed (or intended to) for sale****Data file:** crop\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

**S9Q11: Percentage of past harvest was used (or intended to) for any other purposes****Data file: crop\_use****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

---

**HOLDING\_ID: Holding ID****Data file:** external\_labor\_activities**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** external\_labor\_activities**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** external\_labor\_activities**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** external\_labor\_activities**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro



4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## EXTERNAL\_LABOR\_ID: Work category

Data file: external\_labor\_activities

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Free workers
2	Exchange workers
3	Hired workers

### EXTERNAL\_LABOR\_ACTIVITIES\_ID: Activity type

Data file: external\_labor\_activities

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Crop
2	Livestock
3	Aquaculture

### S18Q06B: Did any external labor work on this activity in the 2022/23 ag year?

Data file: external\_labor\_activities

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S18Q07: How many external workers were involved in this activity?

Data file: external\_labor\_activities

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 105 Format: Numeric

**S18Q08: How many months did external workers work on this activity?****Data file:** external\_labor\_activities**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

**S18Q09: How many days per month did external workers work on this activity?****Data file:** external\_labor\_activities**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 31 Format: Numeric

**S18Q10: How many hours per day did external workers work on this activity?****Data file:** external\_labor\_activities**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 18 Format: Numeric

**S18Q11: Did you pay external workers for this activity?****Data file:** external\_labor\_activities**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S18Q12: Total in-cash payment? (TZS)****Data file:** external\_labor\_activities**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 7    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

**S18Q13: Total in-kind payment? (TZS)****Data file:** external\_labor\_activities**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 7    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

**REGION: Region****Data file: field****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro
4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi

54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

**FIELD\_ID: Field ID****Data file: field****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric

**S3Q03: What type of tenure rights do the farm have on this field?****Data file: field****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 91 - 98 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
91	Customary or granted right of occupancy
92	Purchased
93	Rented or leased
94	Borrowed for free
98	Other

**S3Q04A\_ACRES: Area of the field in acres****Data file: field****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 11 Range: 0.00012 - 93900.04688 Format: Numeric

**HOLDING\_ID: Holding ID****Data file: field****Overview**

Valid: 0 Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

---

## **WEIGHT: Weight**

**Data file: field**

### **Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

---

## **HOLDING\_TYPE: Household or Farm**

**Data file: field**

### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

### **Questions and instructions**

---

#### CATEGORIES

Value	Category
1	Large farm
2	Household

---

**HOLDING\_ID: Holding ID****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 9 Range: - Format: character

**WEIGHT: Weight****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 16 Range: 10.8687514347868 - 2624.52480757643 Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 56 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro



4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## MEMBER\_ID: Household member

Data file: household

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 30 Format: Numeric

**S2Q02: Sex****Data file: household****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	Female
1	Male

**S2Q03: In this household, what is member's relationship to the head?****Data file: household****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 10 - 11    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
10	Head of household
11	Member of household

**S2Q04: Household member age****Data file: household****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 4    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	<35
2	35-54
3	55-64

4

65+

**S2Q05: Did household member work on agricultural activities in the past ag year?****Data file:** household**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S2Q06: Does household member take economic or routine decisions concerning farms?****Data file:** household**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S2Q07: Has household member ever attended school?****Data file:** household**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
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0	No
1	Yes

**S2Q08: What is household member's highest completed educational level?****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 90 - 95 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
90	Preprimary education
91	Primary education
92	Secondary education
93	Vocational education
94	College education
95	University

**S2Q09: Has household member ever received any formal training in agriculture?****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S18Q04\_\_1: Did household member worked on crop production?****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S18Q04\_\_2: Did household member work on livestock?**

Data file: household

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S18Q04\_\_3: Did household member work on aquaculture?**

Data file: household

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S18Q05A: Number of months household member worked on crop activities**

Data file: household

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

**S18Q05B: Days per month household member worked on crops****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 31 Format: Numeric

**S18Q05C: Hours per day household member worked on crops, on average****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 18 Format: Numeric

**S18Q05D: Number of months household member worked on livestock****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

**S18Q05E: Days per month household member worked on livestock****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 31 Format: Numeric

**S18Q05F: Hours per day on average household member worked on livestock****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 18 Format: Numeric

**S18Q05G: Number of months household member worked on aquaculture****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

---

**S18Q05H: Days per month household member worked on aquaculture****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 30 Format: Numeric

---

**S18Q05I: Hours per day on average household member worked on aquaculture****Data file: household****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 15 Format: Numeric

---

**HOLDING\_ID: Holding ID****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro



4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## INPUTROSTER\_ID: Input

Data file: inputs

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 21 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Solid manure / farm yard manure
2	Liquid manure / slurry
3	Green manure (crop residues) and compost
4	Compost
5	Stabilized sewage sludge
6	Biofertilizers
7	Other organic fertilizer
8	Urea
9	Diammonium phosphate (DAP)
10	Calcium ammonium nitrate (CAN)
11	Ammonium sulphate (SA)
12	Nitrogen, phosphorus, potassium (NPK)
13	Minjingu nafaka plus
14	NPS zinc
15	Other inorganic fertilizer
16	Insecticides
17	Herbicides (solid)
18	Herbicides (liquid)
19	Fungicides
20	Rodenticides
21	Other

### S11Q01: The quantity of input that household used during the past 22/23 ag year

Data file: inputs

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 7 Range: 0.1 - 3628000 Format: Numeric

### S11Q01\_UNIT: Unit of measurement by the respondent

Data file: inputs

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Gram
2	Kilogram
3	Milliliter
4	Liter
99	Other

### S11Q02\_\_1: Sources of input used: Gift from neighbors, Friends, relatives

Data file: inputs

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S11Q02\_\_2: Sources of input used: Donations from governmental institutions

Data file: inputs

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

**S11Q02\_\_3: Sources of input used: Donations from non gov organizations****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S11Q02\_\_4: Sources of input used: Purchase from local merchant/grocery****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S11Q02\_\_5: Sources of input used: Purchase from government agency****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S11Q02\_\_6: Sources of input used: Purchase from farmer association****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S11Q02\_\_7: Sources of input used: Own source****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S11Q02\_\_99: Sources of input used: Other****Data file: inputs****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No

1	Yes
---	-----

### S11Q03: Input purchase subsidy in the past 2022/23 ag year

Data file: inputs

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 98 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	All purchases were subsidized
2	Some purchases were subsidized
3	No purchase was subsidized
98	Don't know

### S11Q04A: Total non-subsidized input for past 2022/23 ag year

Data file: inputs

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 6 Range: 0.04 - 420000 Format: Numeric

### S11Q04A\_UNIT: Unit of total non-subsidized input for past 2022/23 ag year

Data file: inputs

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 99 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
1	Gram
2	Kilogram
3	Milliliter
4	Liter

99

Other

**S11Q04B: Total subsidized inputs for past 2022/23 ag year****Data file: inputs****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 7 Range: 0.4 - 3500000 Format: Numeric

**S11Q06A: Total non-subsidized value of inputs for past 2022/23 ag year (TZS)****Data file: inputs****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 8 Range: 1 - 40501575 Format: Numeric

**S11Q06B: Total subsidized value of inputs for past 2022/23 ag year (TZS)****Data file: inputs****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 8 Range: 1 - 47565000 Format: Numeric

**S11Q07A: Average non-subsidized unit price of the input for past 2022/23 ag year****Data file: inputs****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 6 Range: 1 - 140000 Format: Numeric

**S11Q07B: Average subsidized unit price of the input for past 2022/23 ag year****Data file: inputs****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 5 Range: 0 - 75000 Format: Numeric

**HOLDING\_ID: Holding ID****Data file:** items\_services**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** items\_services**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** items\_services**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** items\_services**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro



4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## ITEMS\_SERVICE\_ID: Item or service

Data file: items\_services

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	None of the above
1	Animal traction rental (rent-in)
2	Post-harvest labor
3	Transport related to agricultural activities
4	Rental of machinery, equipment and vehicles
5	Repair and maintenance of machinery, equipment, vehicles
6	Rentals or leasing of farm lands and buildings
7	Repairs and maintenance of farm buildings
8	Agricultural insurance
9	Agricultural extension services
10	Water for crop cultivation
11	Taxes and licensing fees for agricultural activities
12	Contractual services
13	Hired workers for simple and routine tasks on the farm
14	Fuel for vehicles, machinery for farming
15	Electricity for farming activity
99	Other

### S19Q01B: Did the farm pay for this item or service?

Data file: items\_services

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S19Q02: What was the total amount paid for this item or service? (TZS)

Data file: items\_services

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 1 - 224614592 Format: Numeric

**S19Q03: What period of time does this payment cover?****Data file:** items\_services**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 1 - 360 Format: Numeric

**S19Q03\_UNIT: Unit mentioned by the respondent?****Data file:** items\_services**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Year
2	Month
3	Day
4	Agriculture season

**HOLDING\_ID: Holding ID****Data file:** masika\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** masika\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** masika\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** masika\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## FIELD\_ID: Field ID

Data file: masika\_use

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric

**MASIKA\_USE\_ROSTER\_ID: Field use ID****Data file:** masika\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 99    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Residential
2	Kitchen garden/farmyard
3	Crop production
4	Temporary grazing (livestock/poultry)
5	Permanent grazing (livestock/poultry)
6	Temporarily fallow
7	Farm buildings
8	Aquaculture
9	Forest/wooded land
10	Business/commercial
11	Unused
12	Rented/sharecropped out for ag
13	Rented out for non-agriculture
14	Gave out for free
99	Other

**S3Q05B\_1: Percentage of the field used for Masika/dry season farming****Data file:** masika\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

**HOLDING\_ID: Holding ID****Data file:** masakacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** masakacrop**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** masakacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** masakacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## FIELD\_ID: Field ID

Data file: masikacrop

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric



**MASIKAPLOT\_ID: Plot ID****Data file:** masikacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 27    Format: Numeric

**TEMP\_PERM: Is this crop a temporary or permanent?****Data file:** masikacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Temporary
2	Permanent

**CROP\_ID: Crop****Data file:** masikacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 4    Range: 11 - 9970    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
11	Maize
12	Paddy
13	Sorghum
14	Bulrush Millet
15	Finger Millet
18	Black Pepper
21	Cassava
22	Sweet potatoes
23	Irish potatoes

25	Cocoyams
26	Onion
27	Ginger
28	Garlic
31	Beans
32	Cowpeas
34	Pigeon pea
35	Chick peas
41	Sunflower
42	Sesame
43	Groundnut
46	Cashew nut
50	Cotton
51	Tobacco
54	Coffee
60	Sugar cane
61	Cardamom
64	Cinnamon
66	Clove
71	Banana
72	Avocado
73	Mango
75	Pineapple
76	Orange
78	Grapes
86	Cabbage
88	Spinach
89	Carrot
91	Amaranths
93	Cucumber
95	Watermelon
100	Okra
852	Lemon
871	Tomatoes
872	Bitter tomato
901	Sweet/bell pepper
998	Other
9910	Other cereals
9920	Other fruits

9930	Other leguminous crops
9940	Other oil seeds and nuts
9950	Other permanent/cash crops
9960	Other roots and tubers
9970	Other vegetables

## AREAPLANTED: Area planted (acres)

Data file: masakacrop

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 18 Range: 1.161395292909e-06 - 39635.703187788 Format: Numeric

## S7Q02A: Was this crop under greenhouse/high shelter during 22/23 Masika/dry seasons?

Data file: masakacrop

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

## S7Q03: When was this crop planted on this plot during the current masika/dry season?

Data file: masakacrop

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	January_2023
2	February_2023

3	March_2023
4	April_2023
5	May_2023
6	June_2023
7	July_2023
8	August_2023
9	September_2023
12	December_2022

### S7Q04\_\_1: Crop seeds used in the 22/23 Masika/dry season?: Improved

Data file: masikacrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S7Q04\_\_2: Crop seeds used in the 22/23 Masika/dry season?: Traditional

Data file: masikacrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S7Q04\_\_3: Crop seeds used in the 22/23 Masika/dry season?: Improved, recycled

Data file: masikacrop

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S7Q05: Harvested any of this crop on this plot in past 2022/2023 Masika/dry?****Data file: masikacrop****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S7Q06: Why didn't you harvest this crop from this plot during 22/23 Masika/dry season?****Data file: masikacrop****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Too little rain/drought
2	Rain/flood damage
3	Rain came too early ot too late
4	Wind/frost damage
5	Plant pest/disease

6	Fire damage
7	Crop theft
8	No available labor
9	Animal/birds damage
99	Other

### S7Q07: When did you harvest this crop during the past masika/dry season?

Data file: masakacrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
1	January_2023
2	February_2023
3	March_2023
4	April_2023
5	May_2023
6	June_2023
7	July_2023
8	August_2023
9	September_2023
10	October_2022
11	November_2022
12	December_2022

### AREAHARVESTED: Area harvested (acres)

Data file: masakacrop

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 6 Range: 0 - 8648.7 Format: Numeric

### S7Q10\_\_1: Why not harvesting all planted crop? Too little rain/drought

Data file: masakacrop

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S7Q10\_\_2: Why not harvesting all planted crop? Rain/flood damage****Data file:** masakacrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S7Q10\_\_3: Why not harvesting all planted crop? Rain too early/too late****Data file:** masakacrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S7Q10\_\_4: Why not harvesting all planted crop? Wind/frost damage****Data file:** masakacrop**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 1   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S7Q10\_\_5: Why not harvesting all planted crop? Plant pest/disease****Data file:** masakacrop**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 1   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S7Q10\_\_6: Why not harvesting all planted crop? Fire damage****Data file:** masakacrop**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 1   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes



**S7Q10\_\_7: Why not harvesting all planted crop? Crop theft****Data file:** masakacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S7Q10\_\_8: Why not harvesting all planted crop? No available labor****Data file:** masakacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S7Q10\_\_9: Why not harvesting all planted crop? Animal/birds damage****Data file:** masakacrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No

1	Yes
---	-----

**S7Q10\_\_99: Why not harvesting all planted crop? Other****Data file:** masakacrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S7Q11: Is this crop on this plot cultivated in a compact or scattered planting?****Data file:** masakacrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Compact
2	Scattered

**S7Q12: How many this crop plants/trees are on this plot?****Data file:** masakacrop**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 8 Range: -99 - 36784000 Format: Numeric

**S7Q13: How many of them are in the production age?****Data file:** masakacrop

**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 7 Range: -99 - 9301734 Format: Numeric

**S7Q14: Have you planted any of this crop during the ongoing masika season?****Data file: masakacrop****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**PRODUCTION\_KG: Production (kg)****Data file: masakacrop****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 14 Range: 0 - 284761225.1829 Format: Numeric

**HOLDING\_ID: Holding ID****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## FIELD\_ID: Field ID

Data file: masikaplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric

**MASIKAPLOT\_ID: Masika plot ID****Data file:** masikaplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 27 Format: Numeric

**S6Q02: During the past 2022/2023 masika & dry seasons, how was this plot used?****Data file:** masikaplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	A kitchen garden/backyard
2	Cultivated with crops
3	Temporarily left fallow

**S6Q03\_ACRES: Plot area (acres)****Data file:** masikaplot**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 12 Range: 2.5e-06 - 24710.538147 Format: Numeric

**S6Q04: Pure stand or mixed****Data file:** masikaplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Pure stand
2	Mixed/intercropped

**S6Q05A: Any irrigation structures on this plot in the 22/23 masika/dry season?****Data file:** masakplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S6Q05B: Percentage of this plot was irrigated in past 2022/23 masika/dry season?****Data file:** masakplot**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 100 Format: Numeric

**S6Q06: Main irrigation method on this plot in past 2022/23 masika/dry season****Data file:** masakplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 99 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Irrigation by using watering cans or buckets
2	Sprinkler irrigation
3	Drip irrigation
4	Flooding/SURFACE irrigation
99	Other

**S6Q07: Any organic fertilizers on this plot in past 2022/23 masika/dry season?****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S6Q08\_\_1: Organic fertilizers in past masika/dry?\_Solid manure/farm yard manure****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S6Q08\_\_2: Organic fertilizers in past masika/dry?\_Liquid manure/slurry****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes



**S6Q08\_\_3: Organic fertilizers in past masika/dry?\_Green manure (crop residues)****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S6Q08\_\_4: Organic fertilizers in past masika/dry?\_Compost****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S6Q08\_\_5: Organic fertilizers in past masika/dry?\_Stabilized sewage sludge****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No

1	Yes
---	-----

## S6Q08\_\_6: Organic fertilizers in past masika/dry?\_Biofertilizers

Data file: masikaplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

## S6Q08\_\_7: Organic fertilizers in past masika/dry?\_Other

Data file: masikaplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

## S6Q09: Any inorganic fertilizers on this plot in past 2022/23 masika/dry season?

Data file: masikaplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
-------	----------

0	No
1	Yes

### S6Q10\_\_8: Inorganic fertilizers in past masika/dry? Urea

Data file: masikaplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q10\_\_9: Inorganic fertilizers in past masika/dry? Diammonium phosphate (DAP)

Data file: masikaplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q10\_\_10: Inorganic fertilizers in past masika/dry? Calcium ammonium nitrate (CAN)

Data file: masikaplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q10\_\_11: Inorganic fertilizers in past masika/dry? Ammonium sulphate (SA)

Data file: masakplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q10\_\_12: Inorganic fertilizers in past masika/dry? NPK

Data file: masakplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q10\_\_13: Inorganic fertilizers in past masika/dry? Minjingu nafaka plus

Data file: masakplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S6Q10\_\_14: Inorganic fertilizers in past masika/dry? Nps zinc

Data file: masikaplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S6Q10\_\_15: Inorganic fertilizers in past masika/dry? Other

Data file: masikaplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

## S6Q11: Any pesticides on this plot in past 2022/23 vuli season?

Data file: masikaplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q12\_\_16: Pesticides in past masika/dry? Insecticides

Data file: masikaplot

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q12\_\_17: Pesticides in past masika/dry? Herbicides (solid)

Data file: masikaplot

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S6Q12\_\_18: Pesticides in past masika/dry? Herbicides (liquid)

Data file: masikaplot

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S6Q12\_\_19: Pesticides in past masika/dry? Fungicides****Data file:** masikaplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S6Q12\_\_20: Pesticides in past masika/dry? Rodenticides****Data file:** masikaplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S6Q12\_\_21: Pesticides in past masika/dry? Other****Data file:** masikaplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---



**HOLDING\_ID: Holding ID****Data file: otherproducts****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 9 Range: - Format: character

**WEIGHT: Weight****Data file: otherproducts****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 16 Range: 1 - 2624.52480757643 Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file: otherproducts****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file: otherproducts****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 56 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## SEC16\_OTHERPRODUCTS\_ID: Id in sec16\_otherproducts

Data file: otherproducts

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	None of the above
1	Sting bee honey
2	Stingless bee honey
3	Animal skins
4	Animal hides
5	Animal dung
6	Draught animal power (e.g. oxen)
7	Animals rent out for breeding
99	Other

### S16Q02A: How many local bee hives in this household/farm as of 1st October 2023?

Data file: otherproducts

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 300 Format: Numeric

### S16Q02B: How many improved bee hives in this household/farm as of 1st October 2023?

Data file: otherproducts

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 300 Format: Numeric

### S16Q03: What is the quantity of product produced from October 2022 to September 2023?

Data file: otherproducts

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 8 Range: 0 - 35000000 Format: Numeric

### S16Q03\_UNIT: What is the unit of measurement of livestock product type produced?

Data file: otherproducts

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Number/pieces
2	Kg
3	Litre
4	Other

**S16Q04: Did this household/farm sell any livestock product type produced?****Data file: otherproducts****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S16Q05: What is the quantity of product sold from Oct 2022 to Sep 2023?****Data file: otherproducts****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 4 Range: 1 - 9000 Format: Numeric

**S16Q06A: What do you prefer giving the total value of earnings or the unit price?****Data file: otherproducts****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Total value
2	Unit Price

## S16Q06B: Total earnings from selling/renting draught animals Oct 22 - Sep 23? (TZS)

Data file: otherproducts

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )
4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

## S16Q06C: Total value of product sold from Oct-22 to Sept-23? (TZS)

Data file: otherproducts

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 7 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	[ 0 - 50 000 )
2	[ 50 000 - 100 000 )
3	[ 100 000 - 250 000 )

4	[ 250 000 - 500 000 )
5	[ 500 000 - 750 000 )
6	[ 750 000 - 1 000 000 )
7	1 000 000 +

### **S16Q06D: Average price of the product per unit sold? (TZS per unit)**

**Data file: otherproducts**

#### **Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 5    Range: 20 - 30000    Format: Numeric

**HOLDING\_ID: Holding ID****Data file:** permanent\_crop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** permanent\_crop**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** permanent\_crop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** permanent\_crop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

**FIELD\_ID: Field ID****Data file: permanent\_crop****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 20    Format: Numeric



**CROP\_ID: Crop****Data file: permanent\_crop****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 4    Range: 11 - 9970    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
11	Maize
12	Paddy
13	Sorghum
14	Bulrush Millet
15	Finger Millet
18	Black Pepper
21	Cassava
22	Sweet potatoes
23	Irish potatoes
25	Cocoyams
26	Onion
27	Ginger
28	Garlic
31	Beans
32	Cowpeas
34	Pigeon pea
35	Chick peas
41	Sunflower
42	Sesame
43	Groundnut
46	Cashew nut
50	Cotton
51	Tobacco
54	Coffee
60	Sugar cane
61	Cardamom
64	Cinnamon
66	Clove
71	Banana
72	Avocado

73	Mango
75	Pineapple
76	Orange
78	Grapes
86	Cabbage
88	Spinach
89	Carrot
91	Amaranth
93	Cucumber
95	Watermelon
100	Okra
852	Lemon
871	Tomatoes
872	Bitter tomato
901	Sweet/bell pepper
998	Other
9910	Other cereals
9920	Other fruits
9930	Other leguminous crops
9940	Other oil seeds and nuts
9950	Other permanent/cash crops
9960	Other roots and tubers
9970	Other vegetables

### **S8Q01: Did you harvest any of this crop on this field in the past 22/23 Ag year?**

**Data file:** permanent\_crop

#### **Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

#### **Questions and instructions**

##### CATEGORIES

Value	Category
0	No
1	Yes

**S8Q02: Why didn't you harvest this crop from this field in the past 22/23 Ag year?****Data file:** permanent\_crop**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 2   Range: 1 - 99   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Too little rain/drought
2	Rain/flood damage
3	Rain came too early or too late
4	Wind/frost damage
5	Plant pest/disease
6	Fire damage
7	Crop theft
8	No available labor
9	Crops still in the farm
10	Animal/bird damage
99	Other

**S8Q03\_\_1: When was this crop harvested from this field in the 22/23 Ag year?: Jan 2023****Data file:** permanent\_crop**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 1   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S8Q03\_\_2: When was this crop harvested from this field in the 22/23 Ag year?: Feb 2023****Data file:** permanent\_crop

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S8Q03\_\_3: When was this crop harvested from this field in the 22/23 Ag year?: March 2023****Data file:** permanent\_crop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S8Q03\_\_4: When was this crop harvested from this field in the 22/23 Ag year?: April 2023****Data file:** permanent\_crop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S8Q03\_\_5: When was this crop harvested from this field in the 22/23 Ag year?: May 2023****Data file:** permanent\_crop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S8Q03\_\_6: When was this crop harvested from this field in the 22/23 Ag year?: June 2023****Data file:** permanent\_crop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S8Q03\_\_7: When was this crop harvested from this field in the 22/23 Ag year?: July 2023****Data file:** permanent\_crop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S8Q03\_\_8: When was this crop harvested from this field in the 22/23 Ag year?: August 2023****Data file:** permanent\_crop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S8Q03\_\_9: When was this crop harvested from this field in the 22/23 Ag year?: Sept 2023****Data file:** permanent\_crop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S8Q03\_\_10: When was this crop harvested from this field in the 22/23 Ag year?: Oct 2022****Data file:** permanent\_crop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No

1	Yes
---	-----

**S8Q03\_\_11: When was this crop harvested from this field in the 22/23 Ag year?: Nov 2022****Data file:** permanent\_crop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S8Q03\_\_12: When was this crop harvested from this field in the 22/23 Ag year?: Dec 2022****Data file:** permanent\_crop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**HOLDING\_ID: Holding ID****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro



4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## CROP\_ID: Crop

Data file: seeds

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 4 Range: 11 - 9970 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
11	Maize
12	Paddy
13	Sorghum
14	Bulrush Millet
15	Finger Millet
18	Black Pepper
21	Cassava
22	Sweet potatoes
23	Irish potatoes
25	Cocoyams
26	Onion
27	Ginger
28	Garlic
31	Beans
32	Cowpeas
34	Pigeon pea
35	Chick peas
41	Sunflower
42	Sesame
43	Groundnut
46	Cashew nut
50	Cotton
51	Tobacco
54	Coffee
60	Sugar cane
61	Cardamom
64	Cinnamon
66	Clove
71	Banana
72	Avocado
73	Mango
75	Pineapple
76	Orange
78	Grapes
86	Cabbage

88	Spinach
89	Carrot
91	Amaranths
93	Cucumber
95	Watermelon
100	Okra
852	Lemon
871	Tomatoes
872	Bitter tomato
901	Sweet/bell pepper
998	Other
9910	Other cereals
9920	Other fruits
9930	Other leguminous crops
9940	Other oil seeds and nuts
9950	Other permanent/cash crops
9960	Other roots and tubers
9970	Other vegetables

**TEMP\_PERM:****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Temporary
2	Permanent

**S10Q01: Quantity of crop seed planted during the past vuli season?****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 7    Range: 0.00012 - 1000000    Format: Numeric

**S10Q01\_UNIT: Unit mentioned by the respondent?****Data file: seeds****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Kilogram
2	Seedlings
3	Cuttings
4	Gram

**S10Q02: Quantity of crop seed planted during the past masika season?****Data file: seeds****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 7 Range: 0 - 1112000 Format: Numeric

**S10Q02\_UNIT: Unit mentioned by the respondent?****Data file: seeds****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Kilogram
2	Seedlings
3	Cuttings
4	Gram

**S10Q03\_\_1: Sources of seeds?:From previous holding's harvest****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S10Q03\_\_2: Sources of seeds?:Gift from neighbors, Friends, relatives****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S10Q03\_\_3: Sources of seeds?:Donations from governmental institutions****Data file: seeds****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S10Q03\_\_4: Sources of seeds?:Donations from non gov organizations****Data file: seeds****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S10Q03\_\_5: Sources of seeds?:Purchase from local merchant/grocery****Data file: seeds****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S10Q03\_\_6: Sources of seeds?:Purchase from government agency****Data file: seeds****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No

1	Yes
---	-----

### S10Q03\_\_7: Sources of seeds?:Purchase from farmer association

Data file: seeds

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S10Q03\_\_99: Sources of seeds?:Other

Data file: seeds

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S10Q04: Were seeds and seedlings purchased in 2022/23 all subsidized?

Data file: seeds

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 98 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
-------	----------

1	All purchases were subsidized
2	Some purchases were subsidized
3	No purchase was subsidized
98	Don't know

### S10Q05A: Total non-subsidized seeds purchased?

Data file: seeds

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 5 Range: 0 - 76000 Format: Numeric

### S10Q05A\_UNIT: Unit mentioned by the respondent?

Data file: seeds

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
1	Kilogram
2	Seedlings
3	Cuttings
4	Gram

### S10Q05B: Total subsidized seeds purchased?

Data file: seeds

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 2 - 240 Format: Numeric

### S10Q05B\_UNIT: Unit mentioned by the respondent?

Data file: seeds

#### Overview

Valid: 0 Invalid: 0



Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 4    Format: Numeric

## Questions and instructions

---

### CATEGORIES

Value	Category
1	Kilogram
2	Seedlings
3	Cuttings
4	Gram

---

### **S10Q06A: Average non-subsidized unit price of the seeds? (TZS per unit selected)**

Data file: seeds

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 6    Range: 1 - 120000    Format: Numeric

---

### **S10Q06B: Average subsidized unit price of the seeds? (TZS per unit selected)**

Data file: seeds

#### Overview

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 4    Range: 3200 - 8000    Format: Numeric

---

**HOLDING\_ID: Holding ID****Data file:** vuli\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** vuli\_use**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** vuli\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** vuli\_use**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## FIELD\_ID: Field ID

Data file: vuli\_use

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric

**VULI\_USE\_ROSTER\_ID: Field use ID****Data file:** vuli\_use**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 2   Range: 1 - 99   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Residential
2	Kitchen garden/farmyard
3	Crop production
4	Temporary grazing (livestock/poultry)
5	Permanent grazing (livestock/poultry)
6	Temporarily fallow
7	Farm buildings
8	Aquaculture
9	Forest/wooded land
10	Business/commercial
11	Unused
12	Rented/sharecropped out for ag
13	Rented out for non-agriculture
14	Gave out for free
99	Other

**S3Q05A\_1: Percentage of the field used for vuli season farming****Data file:** vuli\_use**Overview**

Valid: 0   Invalid: 0

Type: Continuous   Decimal: 0   Width: 3   Range: 1 - 100   Format: Numeric

**HOLDING\_ID: Holding ID****Data file: vulicrop****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 9 Range: - Format: character

**WEIGHT: Weight****Data file: vulicrop****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 16 Range: 1 - 2624.52480757643 Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file: vulicrop****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file: vulicrop****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 56 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## FIELD\_ID: Field ID

Data file: vulicrop

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric

**VULILOT\_ID: Plot ID****Data file:** vulicrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 23    Format: Numeric

**TEMP\_PERM: Is this crop a temporary or permanent?****Data file:** vulicrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Temporary
2	Permanent

**CROP\_ID: Crop****Data file:** vulicrop**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 4    Range: 11 - 9970    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
11	Maize
12	Paddy
13	Sorghum
14	Bulrush Millet
15	Finger Millet
18	Black Pepper
21	Cassava
22	Sweet potatoes
23	Irish potatoes

25	Cocoyams
26	Onion
27	Ginger
28	Garlic
31	Beans
32	Cowpeas
34	Pigeon pea
35	Chick peas
41	Sunflower
42	Sesame
43	Groundnut
46	Cashew nut
50	Cotton
51	Tobacco
54	Coffee
60	Sugar cane
61	Cardamom
64	Cinnamon
66	Clove
71	Banana
72	Avocado
73	Mango
75	Pineapple
76	Orange
78	Grapes
86	Cabbage
88	Spinach
89	Carrot
91	Amaranths
93	Cucumber
95	Watermelon
100	Okra
852	Lemon
871	Tomatoes
872	Bitter tomato
901	Sweet/bell pepper
998	Other
9910	Other cereals
9920	Other fruits



9930	Other leguminous crops
9940	Other oil seeds and nuts
9950	Other permanent/cash crops
9960	Other roots and tubers
9970	Other vegetables

## AREAPLANTED: Area planted (acres)

Data file: vulicrop

### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 13 Range: 1.5e-06 - 19768.4305176 Format: Numeric

## S5Q03: When was this crop planted on this plot during the past 2022/23 vuli?

Data file: vulicrop

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
1	January_2023
2	February_2023
10	October_2022
11	November_2022
12	December_2022

## S5Q04\_\_1: Which crop seeds used in the 22/23 Vuli season?: Improved

Data file: vulicrop

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q04\_\_2: Which crop seeds used in the 22/23 Vuli season?: Traditional

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q04\_\_3: Which crop seeds used in the 22/23 Vuli season?: Improved, recycled

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q05: Harvested any crop from this plot in past 22/23 Vuli?

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q06: Why didn't you harvest this crop from this plot during 22/23 Vuli season?

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 99 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
1	Too little rain/drought
2	Rain/flood damage
3	Rain came too early ot too late
4	Wind/frost damage
5	Plant pest/disease
6	Fire damage
7	Crop theft
8	No available labor
9	Animal/birds damage
99	Other

### S5Q07: When was this crop harvested from this plot during the 2022/23 vuli season?

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 12 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
-------	----------

1	January_2023
2	February_2023
3	March_2023
4	April_2023
5	May_2023
6	June_2023
7	July_2023
8	August_2023
9	September_2023
10	October_2022
11	November_2022
12	December_2022

### AREAHARVESTED: Area harvested (acres)

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 6 Range: 0 - 7413.2 Format: Numeric

### S5Q10\_\_1: Why wasn't the entire crop harvested? Too little rain/drought

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q10\_\_2: Why wasn't the entire crop harvested? Rain/flood damage

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q10\_\_3: Why wasn't the entire crop harvested? Rain too early/too late

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q10\_\_4: Why wasn't the entire crop harvested? Wind/frost damage

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S5Q10\_\_5: Why wasn't the entire crop harvested? Plant pest/disease

Data file: vulicrop

#### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S5Q10\_\_6: Why wasn't the entire crop harvested? Fire damage**

Data file: vulicrop

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S5Q10\_\_7: Why wasn't the entire crop harvested? Crop theft**

Data file: vulicrop

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### **S5Q10\_\_8: Why wasn't the entire crop harvested? No available labor**

Data file: vulicrop

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S5Q10\_\_9: Why wasn't the entire crop harvested? Animal/birds damage****Data file:** vulicrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S5Q10\_\_99: Why wasn't the entire crop harvested? Other****Data file:** vulicrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

---

**S5Q11: Was the crop on this plot cultivated compactly or with scattered planting?****Data file:** vulicrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Compact
2	Scattered

**S5Q12: How many plants/trees are on this plot?****Data file:** vulicrop**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 8 Range: -99 - 14549800 Format: Numeric

**S5Q13: How many productive plants/trees are on this plot?****Data file:** vulicrop**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 7 Range: -99 - 6972000 Format: Numeric

**S5Q14: Have you planted any of this crop during the past 2022/23 vuli season?****Data file:** vulicrop**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes



**PRODUCTION\_KG: Production (kg)****Data file: vulicrop****Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 15    Range: 0 - 115238779.29688    Format: Numeric

---

**HOLDING\_ID: Holding ID****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Width: 9    Range: -    Format: character

**WEIGHT: Weight****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 16    Range: 1 - 2624.52480757643    Format: Numeric

**HOLDING\_TYPE: Household or Farm****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Large farm
2	Household

**REGION: Region****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 56    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Dodoma
2	Arusha
3	Kilimanjaro

4	Tanga
5	Morogoro
6	Pwani
7	Dar es Salaam
8	Lindi
9	Mtwara
10	Ruvuma
11	Iringa
12	Mbeya
13	Singida
14	Tabora
15	Rukwa
16	Kigoma
17	Shinyanga
18	Kagera
19	Mwanza
20	Mara
21	Manyara
22	Njombe
23	Katavi
24	Simiyu
25	Geita
26	Songwe
27	Mainland
51	Kaskazini Unguja
52	Kusini Unguja
53	Mjini Magharibi
54	Kaskazini Pemba
55	Kusini Pemba
56	Zanzibar

## FIELD\_ID: Field ID

Data file: vuliplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric

**VULILOT\_ID: Vuli plot ID****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 23    Format: Numeric

**S4Q02: During the past vuli season, how was this plot used?****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 3    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	A kitchen garden/backyard
2	Cultivated with crops
3	Temporarily left fallow

**S4Q03\_ACRES: Vuli plot area (acres)****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 11    Range: 2.5e-06 - 22723.81088    Format: Numeric

**S4Q04: Pure Stand or Mixed****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 1 - 2    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Pure stand
2	Mixed/intercropped

**S4Q05A: Any irrigation structures on this plot in past 2022/23 vuli season?****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q05B: Percentage of plot irrigated in past 2022/23 vuli season?****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 3    Range: 1 - 100    Format: Numeric

**S4Q06: Main irrigation method on this plot in past 2022/23 vuli season?****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 2    Range: 1 - 99    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
1	Irrigation by using watering cans or buckets
2	Sprinkler irrigation
3	Drip irrigation
4	Flooding/SURFACE irrigation
99	Other

**S4Q07: Any organic fertilizers on this plot in past 2022/23 vuli season?****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q08\_\_1: Organic fertilizers in past vuli? Solid manure/farm yard manure****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q08\_\_2: Organic fertilizers in past vuli? Liquid manure/slurry****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q08\_\_3: Organic fertilizers in past vuli? Green manure (crop residues)****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q08\_\_4: Organic fertilizers in past vuli? Compost****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q08\_\_5: Organic fertilizers in past vuli? Stabilized sewage sludge****Data file:** vuliplot**Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No

1	Yes
---	-----

## S4Q08\_\_6: Organic fertilizers in past vuli? Biofertilizers

Data file: vuliplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

## S4Q08\_\_7: Organic fertilizers in past vuli? Other

Data file: vuliplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

## S4Q09: Any inorganic fertilizers on this plot in past 2022/23 vuli season?

Data file: vuliplot

### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
-------	----------



0	No
1	Yes

**S4Q10\_\_8: Inorganic fertilizers in past vuli? Urea****Data file:** vuliplot**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 1   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q10\_\_9: Inorganic fertilizers in past vuli? DAP****Data file:** vuliplot**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 1   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q10\_\_10: Inorganic fertilizers in past vuli? CAN****Data file:** vuliplot**Overview**

Valid: 0   Invalid: 0

Type: Discrete   Decimal: 0   Width: 1   Range: 0 - 1   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category
0	No
1	Yes

### S4Q10\_\_11: Inorganic fertilizers in past vuli? SA

Data file: vuliplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q10\_\_12: Inorganic fertilizers in past vuli? NPKs

Data file: vuliplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

#### Questions and instructions

##### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q10\_\_13: Inorganic fertilizers in past vuli? Minjingu Nafaka Plus

Data file: vuliplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q10\_\_14: Inorganic fertilizers in past vuli? NPS Zinc

Data file: vuliplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q10\_\_15: Inorganic fertilizers in past vuli? Other

Data file: vuliplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q11: Any pesticides on this this plot in past 2022/23 vuli season?

Data file: vuliplot

#### Overview

Valid: 0 Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q12\_\_16: Pesticides in past vuli? Insecticides

Data file: vuliplot

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q12\_\_17: Pesticides in past vuli? Herbicides (solid)

Data file: vuliplot

#### Overview

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category
0	No
1	Yes

### S4Q12\_\_18: Pesticides in past vuli? Herbicides (liquid)

Data file: vuliplot

**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q12\_\_19: Pesticides in past vuli? Fungicides****Data file:** vuliplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q12\_\_20: Pesticides in past vuli? Rodenticides****Data file:** vuliplot**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

**Questions and instructions**

---

## CATEGORIES

Value	Category
0	No
1	Yes

**S4Q12\_\_21: Pesticides in past vuli? Other****Data file: vuliplot****Overview**

Valid: 0    Invalid: 0

Type: Discrete    Decimal: 0    Width: 1    Range: 0 - 1    Format: Numeric

**Questions and instructions**

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## CATEGORIES

Value	Category
0	No
1	Yes

---

