

Survey_Site4_anonym.xlsx – Data collected in Site 4, Zambia

- **Title:** Social Metabolism and Material Flow Analysis: Household Resource Use and Throughput in one Village in the Liuwa Plain National Park, Zambia.
- **Description:** The data was collected in the context of the ELNAC project (Enhanced Livelihoods and Natural Resource Management under Accelerated Climate Change: A large landscape social-ecological systems approach; <https://sasscal.org/sasscal-ii-research-portfolio/>). This dataset was collected in a village located in the Mishulundu Area of Liuwa Plain National Park, Western Province, Zambia, using the KoboToolbox application (<https://www.kobotoolbox.org/>). The data were gathered to support a Material and Energy Flow Analysis (MEFA) within the context of Community-Based Natural Resource Management (CBNRM). The dataset includes information on biomass stocks and flows, resource extraction, agricultural production, fisheries, livestock, household artefacts, cash flows, food consumption, and other livelihood activities. In addition, it contains data relevant to the estimation of waste generation and emissions, including solid waste, wastewater, and CO₂ emissions. Household surveys were conducted in 42 households, covering the entire village population. Four similar data collection were undertaken in the KAZA region within the year. The corresponding datasets are linked to this one.
- **Number of Assistant: 1**
- **Number of enumerators: 2**
- **Estimation of enumerator bias:** Enumerators come from the villages around and one of the enumerators is the grandson of the chief of the area. There is a limitation in communication clarity as the researcher did not understand Lozi and the enumerators spoke limited English. Therefore, a significant portion of the communication had to go through the assistant, who helped in ensuring the delivery of the final product to the highest quality possible.
- **Data collection period:** 01.10.2024 – 20.11.2024
- **Geographic Coverage:** One whole village in Liuwa Plain National Park, Zambia.
- **Temporal Coverage:** The dataset captures information on resource extraction, consumption, and waste generation for the reference period Nov. 2023 to Nov. 2024, as reported by surveyed households.
- **Respondents:** The dataset covers all 42 households in the village, comprising 199 residents. Households represent a predominantly young rural population with diverse livelihood strategies. The principal livelihood activities include crop farming, fishing, livestock keeping, natural resource collection (e.g., firewood, reeds, fruits, and thatching grass), wage employment, and small-scale trade. Household sizes range from 1 to 13 members, reflecting the diversity of family structures within the village.
- **Sample and coverage:** Complete census of the village: all 42 households were surveyed, providing full household coverage of the village population.
- **Potential sample coverage bias:** As the dataset represents a complete census of the village, sampling bias within the village is minimal. However, the village is a single case study. Consequently, the results are not statistically representative of all villages in the park or other CBNRM systems in Zambia. Furthermore, fieldwork was conducted during the severe 2024 drought, which substantially influenced livelihood activities, agricultural production, fishing patterns, and resource availability.

- **Anonymity:** No names or other direct personal identifiers are included in the shared dataset. GPS coordinates and other potentially identifying information should not be shared publicly. Given the relatively small size of the village, additional care should be taken when publishing or disseminating the data to avoid indirect identification of individual households.
- **Keywords:** Material and Energy Flow Analysis (MEFA), Social Metabolism, Community-Based Natural Resource Management (CBNRM), Household Survey, Biomass Flows, Rural Livelihoods, Zambia, Liuwa Plain National Park, Natural Resource Management, conservation.
- **Data Format:** XLSX
- **Data Completeness:** Some variables contain missing values resulting from non-responses or unavailable information during fieldwork. Missing responses are recorded as "NA". Data quality was checked through consistency checks and cross-validation with field notes wherever possible. No systematic imputation was applied to the shared raw dataset. Observations with excessive missing values were excluded from statistical analysis but kept in the raw dataset for reference.
- **Data Collection Method:** Field surveys, Kobo toolbox application (<https://www.kobotoolbox.org/>), face-to-face questionnaires.
- **Licensing:** dataset is made available under the Creative Commons Attribution 4.0 International (CC BY SA 4.0) license. Users are free to share, distribute, and adapt the dataset, provided proper attribution is given to the original authors. Any modifications or derivative works must also include proper citation.
- **Project:** The Enhanced Livelihoods and Natural Resource Management under Accelerated Climate Change (ELNAC; <https://sasscal.org/sasscal-ii-research-portfolio/>) is implemented under the Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL) 2.0 initiative and is funded by the Federal Ministry of Education and Research (BMBF), Germany. ELNAC addresses the vivid and on-going human-wildlife conflict (HWC) in the KaZa Transfrontier Conservation Area. It assumes the conflict to be caused by the current conservation paradigm, which stigmatizes local communities (LCs) as degrading agents and excludes them from managing the natural resources around them. Not only livelihoods but also conservation outcomes are jeopardized through this process. ELNAC proposes that conservation, development and food security can be synergetic goals if managed under another (agroecological) paradigm. It proposes to integrate landscape analysis with the functional resource heterogeneity and Social-Ecological Systems frameworks to improve the governance of conservation areas and increase the self-determination of LCs in the conservation and food security objectives.

JLU Subproject: Socio-metabolism of CBNRM - Resource use and livelihoods under CBNRM schemes and in cooperatives: Central to the fair use of resources for multi-purpose goals and to the integration of various sources of knowledge is the question of power and power relations. By introducing concepts of political and social ecology in the analysis of communities-conservation systems, JLU addresses the political aspect by answering the following question: Who has or attempts to access which resources, and how are livelihood and conservation land uses integrated? Furthermore, JLU explores relations between the distribution of natural resource flows, the trade-offs between livelihood and conservation, and communities'

food security by comparing results across sites in Angola and Namibia. The social metabolism approach, which combines resource usage in quantity, the sustainability of resource use and the power relations revealed by the usage, will be applied to measure the biomass, food and money flows. JLU will also map property rights and access to resources, and characterize the sites from a historical political ecology perspective. Material flows will be interpreted to identify key HWCs and trade-offs.

- **Funding:** Grant number 01LG2062B allocated by the German Federal Ministry of Research, Technology and Space in cooperation with the SASSCAL 2.0 program.
- **Citation Guidelines:** Asar T., Chbib H., Ume C., Fuhrmann J., Domptail S.E., (2026). Social Metabolism and Material Flow Analysis: Household Resource Use and Throughput in one Village in the Liuwa Plain National Park, Zambia Justus Liebig University Giessen.
- **Double publication:** The data is published under the SASSCAL repository (http://data.sasscal.org/metadata/overview.php?global_search) as well as in the JLU repository (<https://doi.org/10.22029/jlupub-21369>).
- **Contact Information:** For inquiries, further details, or collaboration requests, please contact: Dr. Stéphanie Domptail, Justus Liebig University Giessen, Email: stephanie.domptail@agrar.uni-giessen.de

- **Variables and description:** To be adjusted from Kobo

Variable	Description
respondent_id	Unique respondent ID assigned in this dataset.
start	Interview start timestamp.
end	Interview end timestamp.
deviceid	Enumerator device identifier from Kobo/ODK.
phonenumber	Respondent phone number as recorded.
gps_latitude	Latitude in decimal degrees.
gps_longitude	Longitude in decimal degrees.
gps_altitude_m	Elevation above sea level in metres.
gps_accuracy_m	Reported GPS accuracy in metres.
gps_manual_string	Text form of the GPS location if entered manually.
enumerator_id	Code/initials of the enumerator who conducted the interview.
household_id	Survey household code.
data_use_ok	data use ok (Yes/No).
info_card_read	info card read (Yes/No).

consent	consent (Yes/No).
consent_reason_no	Reason provided if consent was not granted.
location_villa	Village/settlement of the household.
hh_gender	Gender of the household head.
hh_dob	Household head's date of birth.
hh_nationality	Household head's nationality.
hh_nationality_other	If 'Other' nationality, specify.
hh_ethnicity	Household head's ethnicity.
hh_ethnicity_other	If 'Other' ethnicity, specify.
hh_marital_status	Household head's marital status.
hh_act_farming	Household head engages in farming activities (0/1).
hh_act_fishing	Household head engages in fishing activities (0/1).
hh_act_livestock	Household head engages in livestock activities (0/1).
hh_act_gathering	Household head engages in gathering activities (0/1).
hh_act_builder	Household head engages in builder activities (0/1).
hh_act_lumbering	Household head engages in lumbering activities (0/1).
hh_act_employee	Household head engages in employee activities (0/1).
hh_act_unemployed	Household head engages in unemployed activities (0/1).
hh_act_pensioner	Household head engages in pensioner activities (0/1).
hh_act_childcare	Household head engages in childcare activities (0/1).
hh_act_cooking	Household head engages in cooking activities (0/1).
hh_act_house_chores	Household head engages in house chores activities (0/1).
hh_act_other	Household head engages in other activities (0/1).
hh_act_other_specify	Household head engages in other specify activities (0/1).
hh_adults_count	Number of adults in the household.
hh_children_count	Number of children in the household.
electricity_spend_last_month_kz	Cash spent on electricity last month (Kz).

hfi_week_a	Household food insecurity experience item over the last week (0/1).
hfi_week_b	Household food insecurity experience item over the last week (0/1).
hfi_week_c	Household food insecurity experience item over the last week (0/1).
hfi_week_d	Household food insecurity experience item over the last week (0/1).
hfi_week_e	Household food insecurity experience item over the last week (0/1).
hfi_week_f	Household food insecurity experience item over the last week (0/1).
hfi_week_g	Household food insecurity experience item over the last week (0/1).
hfi_week_h	Household food insecurity experience item over the last week (0/1).
hfi_month_a	Household food insecurity experience item over the last month (0/1).
hfi_month_b	Household food insecurity experience item over the last month (0/1).
hfi_month_c	Household food insecurity experience item over the last month (0/1).
hfi_month_d	Household food insecurity experience item over the last month (0/1).
hfi_month_e	Household food insecurity experience item over the last month (0/1).
hfi_month_f	Household food insecurity experience item over the last month (0/1).
hfi_month_g	Household food insecurity experience item over the last month (0/1).
hfi_month_h	Household food insecurity experience item over the last month (0/1).
hfi_year_a	Household food insecurity experience item over the last year (0/1).
hfi_year_b	Household food insecurity experience item over the last year (0/1).
hfi_year_c	Household food insecurity experience item over the last year (0/1).

hfi_year_d	Household food insecurity experience item over the last year (0/1).
hfi_year_e	Household food insecurity experience item over the last year (0/1).
hfi_year_f	Household food insecurity experience item over the last year (0/1).
hfi_year_g	Household food insecurity experience item over the last year (0/1).
hfi_year_h	Household food insecurity experience item over the last year (0/1).
dd_yesterday_cereals	Household consumed cereals yesterday (0/1).
dd_yesterday_roots_tubers	Household consumed roots tubers yesterday (0/1).
dd_yesterday_vegetables	Household consumed vegetables yesterday (0/1).
dd_yesterday_fruits	Household consumed fruits yesterday (0/1).
dd_yesterday_meat	Household consumed meat yesterday (0/1).
dd_yesterday_eggs	Household consumed eggs yesterday (0/1).
dd_yesterday_fish	Household consumed fish yesterday (0/1).
dd_yesterday_legumes_nuts	Household consumed legumes nuts yesterday (0/1).
dd_yesterday_dairy	Household consumed dairy yesterday (0/1).
dd_yesterday_oil_fats	Household consumed oil fats yesterday (0/1).
dd_yesterday_sweets	Household consumed sweets yesterday (0/1).
dd_yesterday_condiments_beverages	Household consumed condiments beverages yesterday (0/1).
fields_count	Number of crop fields cultivated by the household.
field1_area_ha	Area of field 1 in hectares.
field2_area_ha	Area of field 2 in hectares.
field3_area_ha	Area of field 3 in hectares.
field4_area_ha	Area of field 4 in hectares.
fencing_built_any	fencing built any (Yes/No).
fence_type_wood_temp	Temporary wood fencing present (0/1).
fence_type_wire	Wire fencing present (0/1).
new_fences_fields_wood	Number of fields newly fenced with wood.
new_fences_fields_wire	Number of fields newly fenced with wire.

fencing_repaired_any	fencing repaired any (Yes/No).
fencing_repair_pct_total	Percent of total fencing length that was repaired.
fence_repaired_m_field1	Metres of fence repaired on field 1.
fence_repaired_m_field2	Metres of fence repaired on field 2.
fence_repaired_m_field3	Metres of fence repaired on field 3.
fence_repaired_m_field4	Metres of fence repaired on field 4.
mem1_manure_bags_field1	Bags of manure used by member 1 on field 1.
mem1_manure_paid_kz_field1	Cash paid for manure by member 1 on field 1 (Kz).
mem1_manure_bags_field2	Bags of manure used by member 1 on field 2.
mem1_manure_paid_kz_field2	Cash paid for manure by member 1 on field 2 (Kz).
mem1_manure_bags_field3	Bags of manure used by member 1 on field 3.
mem1_manure_paid_kz_field3	Cash paid for manure by member 1 on field 3 (Kz).
mem1_manure_barter_goods	Goods/services bartered for manure by member 1.
mem1_manure_bag_size_kg	Manure bag size (kg) for member 1.
mem1_manure_unit_price_kz	Manure unit price (Kz) for member 1.
mem1_manure_src_own_bags	Survey field from the questionnaire.
mem1_manure_src_coop_bags	Bags of manure sourced from the coop by member 1.
mem1_manure_src_villa_bags	Bags of manure sourced from the village by member 1.
mem1_manure_src_Site 2_bags	Bags of manure sourced from the Site 2 by member 1.
mem1_manure_src_outside_bags	Bags of manure sourced from the outside by member 1.
mem1_inorg_bags_field1	Bags of inorg used by member 1 on field 1.
mem1_inorg_paid_kz_field1	Cash paid for inorg by member 1 on field 1 (Kz).
mem1_inorg_bags_field2	Bags of inorg used by member 1 on field 2.
mem1_inorg_paid_kz_field2	Cash paid for inorg by member 1 on field 2 (Kz).
mem1_inorg_bags_field3	Bags of inorg used by member 1 on field 3.
mem1_inorg_paid_kz_field3	Cash paid for inorg by member 1 on field 3 (Kz).
mem1_inorg_barter_goods	Goods/services bartered for inorg by member 1.
mem1_inorg_bag_size_kg	Inorg bag size (kg) for member 1.
mem1_inorg_src_coop_bags	Bags of inorg sourced from the coop by member 1.

mem1_inorg_src_villa_bags	Bags of inorg sourced from the village by member 1.
mem1_inorg_src_Site 2_bags	Bags of inorg sourced from the Site 2 by member 1.
mem1_inorg_src_outside_bags	Bags of inorg sourced from the outside by member 1.
mem1_ownseeds_bags_field1	Bags of ownseeds used by member 1 on field 1.
mem1_ownseeds_bags_field2	Bags of ownseeds used by member 1 on field 2.
mem1_ownseeds_bags_field3	Bags of ownseeds used by member 1 on field 3.
mem1_ownseeds_bag_size_kg	Ownseeds bag size (kg) for member 1.
mem1_ownseeds_sold_coop_bags	Bags of own seed sold to the coop by member 1.
mem1_ownseeds_sold_villa_bags	Bags of own seed sold to the village by member 1.
mem1_ownseeds_sold_Site 2_bags	Bags of own seed sold to the Site 2 by member 1.
mem1_ownseeds_sold_outside_bags	Bags of own seed sold to the outside by member 1.
mem1_ownseeds_bought_coop_bags	Bags of own seed bought from the coop by member 1.
mem1_ownseeds_bought_villa_bags	Bags of own seed bought from the village by member 1.
mem1_ownseeds_bought_Site 2_bags	Bags of own seed bought from the Site 2 by member 1.
mem1_ownseeds_bought_outside_bags	Bags of own seed bought from the outside by member 1.
mem1_ownseeds_income_total_kz	Total income from own seed sales by member 1 (Kz).
mem1_improved_bags_field1	Bags of improved used by member 1 on field 1.
mem1_improved_paid_kz_field1	Cash paid for improved by member 1 on field 1 (Kz).
mem1_improved_bags_field2	Bags of improved used by member 1 on field 2.
mem1_improved_paid_kz_field2	Cash paid for improved by member 1 on field 2 (Kz).
mem1_improved_bags_field3	Bags of improved used by member 1 on field 3.
mem1_improved_paid_kz_field3	Cash paid for improved by member 1 on field 3 (Kz).
mem1_improved_barter_goods	Goods/services bartered for improved by member 1.
mem1_improved_bag_size_kg	Improved bag size (kg) for member 1.
mem1_improved_src_coop_bags	Bags of improved sourced from the coop by member 1.
mem1_improved_src_villa_bags	Bags of improved sourced from the village by member 1.

mem1_improved_src_Site 2_bags	Bags of improved sourced from the Site 2 by member 1.
mem1_improved_src_outside_bags	Bags of improved sourced from the outside by member 1.
mem2_manure_bags_field1	Bags of manure used by member 2 on field 1.
mem2_manure_paid_kz_field1	Cash paid for manure by member 2 on field 1 (Kz).
mem2_manure_bags_field2	Bags of manure used by member 2 on field 2.
mem2_manure_paid_kz_field2	Cash paid for manure by member 2 on field 2 (Kz).
mem2_manure_bags_field3	Bags of manure used by member 2 on field 3.
mem2_manure_paid_kz_field3	Cash paid for manure by member 2 on field 3 (Kz).
mem2_manure_barter_goods	Goods/services bartered for manure by member 2.
mem2_manure_bag_size_kg	Manure bag size (kg) for member 2.
mem2_manure_unit_price_kz	Manure unit price (Kz) for member 2.
mem2_manure_src_own_bags	Survey field from the questionnaire.
mem2_manure_src_coop_bags	Bags of manure sourced from the coop by member 2.
mem2_manure_src_villa_bags	Bags of manure sourced from the village by member 2.
mem2_manure_src_Site 2_bags	Bags of manure sourced from the Site 2 by member 2.
mem2_manure_src_outside_bags	Bags of manure sourced from the outside by member 2.
mem2_inorg_bags_field1	Bags of inorg used by member 2 on field 1.
mem2_inorg_paid_kz_field1	Cash paid for inorg by member 2 on field 1 (Kz).
mem2_inorg_bags_field2	Bags of inorg used by member 2 on field 2.
mem2_inorg_paid_kz_field2	Cash paid for inorg by member 2 on field 2 (Kz).
mem2_inorg_bags_field3	Bags of inorg used by member 2 on field 3.
mem2_inorg_paid_kz_field3	Cash paid for inorg by member 2 on field 3 (Kz).
mem2_inorg_barter_goods	Goods/services bartered for inorg by member 2.
mem2_inorg_bag_size_kg	Inorg bag size (kg) for member 2.
mem2_inorg_src_coop_bags	Bags of inorg sourced from the coop by member 2.
mem2_inorg_src_villa_bags	Bags of inorg sourced from the village by member 2.
mem2_inorg_src_Site 2_bags	Bags of inorg sourced from the Site 2 by member 2.

mem2_inorg_src_outside_bags	Bags of inorg sourced from the outside by member 2.
mem2_ownseeds_bags_field1	Bags of ownseeds used by member 2 on field 1.
mem2_ownseeds_bags_field2	Bags of ownseeds used by member 2 on field 2.
mem2_ownseeds_bags_field3	Bags of ownseeds used by member 2 on field 3.
mem2_ownseeds_bag_size_kg	Ownseeds bag size (kg) for member 2.
mem2_ownseeds_sold_coop_bags	Bags of own seed sold to the coop by member 2.
mem2_ownseeds_sold_villa_bags	Bags of own seed sold to the village by member 2.
mem2_ownseeds_sold_Site 2_bags	Bags of own seed sold to the Site 2 by member 2.
mem2_ownseeds_sold_outside_bags	Bags of own seed sold to the outside by member 2.
mem2_ownseeds_bought_coop_bags	Bags of own seed bought from the coop by member 2.
mem2_ownseeds_bought_villa_bags	Bags of own seed bought from the village by member 2.
mem2_ownseeds_bought_Site 2_bags	Bags of own seed bought from the Site 2 by member 2.
mem2_ownseeds_bought_outside_bags	Bags of own seed bought from the outside by member 2.
mem2_ownseeds_income_total_kz	Total income from own seed sales by member 2 (Kz).
mem2_improved_bags_field1	Bags of improved used by member 2 on field 1.
mem2_improved_paid_kz_field1	Cash paid for improved by member 2 on field 1 (Kz).
mem2_improved_bags_field2	Bags of improved used by member 2 on field 2.
mem2_improved_paid_kz_field2	Cash paid for improved by member 2 on field 2 (Kz).
mem2_improved_bags_field3	Bags of improved used by member 2 on field 3.
mem2_improved_paid_kz_field3	Cash paid for improved by member 2 on field 3 (Kz).
mem2_improved_barter_goods	Goods/services bartered for improved by member 2.
mem2_improved_bag_size_kg	Improved bag size (kg) for member 2.
mem2_improved_src_coop_bags	Bags of improved sourced from the coop by member 2.
mem2_improved_src_villa_bags	Bags of improved sourced from the village by member 2.
mem2_improved_src_Site 2_bags	Bags of improved sourced from the Site 2 by member 2.

mem2_improved_src_outside_bags	Bags of improved sourced from the outside by member 2.
mem3_manure_bags_field1	Bags of manure used by member 3 on field 1.
mem3_manure_paid_kz_field1	Cash paid for manure by member 3 on field 1 (Kz).
mem3_manure_bags_field2	Bags of manure used by member 3 on field 2.
mem3_manure_paid_kz_field2	Cash paid for manure by member 3 on field 2 (Kz).
mem3_manure_bags_field3	Bags of manure used by member 3 on field 3.
mem3_manure_paid_kz_field3	Cash paid for manure by member 3 on field 3 (Kz).
mem3_manure_barter_goods	Goods/services bartered for manure by member 3.
mem3_manure_bag_size_kg	Manure bag size (kg) for member 3.
mem3_manure_unit_price_kz	Manure unit price (Kz) for member 3.
mem3_manure_src_own_bags	Survey field from the questionnaire.
mem3_manure_src_coop_bags	Bags of manure sourced from the coop by member 3.
mem3_manure_src_villa_bags	Bags of manure sourced from the village by member 3.
mem3_manure_src_Site 2_bags	Bags of manure sourced from the Site 2 by member 3.
mem3_manure_src_outside_bags	Bags of manure sourced from the outside by member 3.
mem3_inorg_bags_field1	Bags of inorg used by member 3 on field 1.
mem3_inorg_paid_kz_field1	Cash paid for inorg by member 3 on field 1 (Kz).
mem3_inorg_bags_field2	Bags of inorg used by member 3 on field 2.
mem3_inorg_paid_kz_field2	Cash paid for inorg by member 3 on field 2 (Kz).
mem3_inorg_bags_field3	Bags of inorg used by member 3 on field 3.
mem3_inorg_paid_kz_field3	Cash paid for inorg by member 3 on field 3 (Kz).
mem3_inorg_barter_goods	Goods/services bartered for inorg by member 3.
mem3_inorg_bag_size_kg	Inorg bag size (kg) for member 3.
mem3_inorg_src_coop_bags	Bags of inorg sourced from the coop by member 3.
mem3_inorg_src_villa_bags	Bags of inorg sourced from the village by member 3.
mem3_inorg_src_Site 2_bags	Bags of inorg sourced from the Site 2 by member 3.
mem3_inorg_src_outside_bags	Bags of inorg sourced from the outside by member 3.

mem3_ownseeds_bags_field1	Bags of ownseeds used by member 3 on field 1.
mem3_ownseeds_bags_field2	Bags of ownseeds used by member 3 on field 2.
mem3_ownseeds_bags_field3	Bags of ownseeds used by member 3 on field 3.
mem3_ownseeds_bag_size_kg	Ownseeds bag size (kg) for member 3.
mem3_ownseeds_sold_coop_bags	Bags of own seed sold to the coop by member 3.
mem3_ownseeds_sold_villa_bags	Bags of own seed sold to the village by member 3.
mem3_ownseeds_sold_Site 2_bags	Bags of own seed sold to the Site 2 by member 3.
mem3_ownseeds_sold_outside_bags	Bags of own seed sold to the outside by member 3.
mem3_ownseeds_bought_coop_bags	Bags of own seed bought from the coop by member 3.
mem3_ownseeds_bought_villa_bags	Bags of own seed bought from the village by member 3.
mem3_ownseeds_bought_Site 2_bags	Bags of own seed bought from the Site 2 by member 3.
mem3_ownseeds_bought_outside_bags	Bags of own seed bought from the outside by member 3.
mem3_ownseeds_income_total_kz	Total income from own seed sales by member 3 (Kz).
mem3_improved_bags_field1	Bags of improved used by member 3 on field 1.
mem3_improved_paid_kz_field1	Cash paid for improved by member 3 on field 1 (Kz).
mem3_improved_bags_field2	Bags of improved used by member 3 on field 2.
mem3_improved_paid_kz_field2	Cash paid for improved by member 3 on field 2 (Kz).
mem3_improved_bags_field3	Bags of improved used by member 3 on field 3.
mem3_improved_paid_kz_field3	Cash paid for improved by member 3 on field 3 (Kz).
mem3_improved_barter_goods	Goods/services bartered for improved by member 3.
mem3_improved_bag_size_kg	Improved bag size (kg) for member 3.
mem3_improved_src_coop_bags	Bags of improved sourced from the coop by member 3.
mem3_improved_src_villa_bags	Bags of improved sourced from the village by member 3.
mem3_improved_src_Site 2_bags	Bags of improved sourced from the Site 2 by member 3.
mem3_improved_src_outside_bags	Bags of improved sourced from the outside by member 3.
fodder_bales_harvested	Number of fodder bales harvested.

fodder_from_own_bales	Fodder bales obtained from own.
fodder_from_coop_bales	Fodder bales obtained from coop.
fodder_from_villa_bales	Fodder bales obtained from village.
fodder_from_Site 2_bales	Fodder bales obtained from Site 2.
fodder_from_outside_bales	Fodder bales obtained from outside.
fodder_bales_field1	Fodder bales produced on field 1.
fodder_bales_field2	Fodder bales produced on field 2.
fodder_bales_field3	Fodder bales produced on field 3.
salt_stones_count	Number of salt stones acquired.
salt_stone_size_kg	Average size of a salt stone (kg).
salt_stones_paid_kz	Cash paid for salt stones (Kz).
salt_stones_barter	Goods/services bartered for salt stones.
tractors_payment_kz	Cash paid for tractor services (Kz).
tractors_barter	Goods/services bartered for tractor services.
irrigation_payment_kz	Cash paid for irrigation services (Kz).
irrigation_barter	Goods/services bartered for irrigation services.
wildlife_damage_hectares	Estimated cropland area damaged by wildlife (ha).
wildlife_damage_foros	Number of foros/plots reported damaged by wildlife.
mem1_maize_field1_bags	Bags of maize harvested by member 1 on field 1.
mem1_maize_field2_bags	Bags of maize harvested by member 1 on field 2.
mem1_maize_field3_bags	Bags of maize harvested by member 1 on field 3.
mem1_maize_from_coop_bags	Bags of maize obtained from the cooperative by member 1.
mem1_maize_bag_size_kg	Standard bag size for maize used by member 1 (kg).
mem1_maize_sold_outside_villa_bags	Bags of maize sold outside the village by member 1.
mem1_maize_sold_within_villa_bags	Bags of maize sold within the village by member 1.
mem1_maize_sold_to_coop_bags	Bags of maize sold to the cooperative by member 1.
mem1_maize_sold_outside_Site 2_bags	Bags of maize sold outside Site 2 by member 1.
mem1_maize_income_total_kz	Total income from maize sales by member 1 (Kz).
mem1_maize_exchanged_bags	Bags of maize exchanged/bartered by member 1.
mem1_maize_left_on_field_bags	Bags of maize left in the field by member 1.

mem1_groundnuts_field1_bags	Bags of groundnuts harvested by member 1 on field 1.
mem1_groundnuts_field2_bags	Bags of groundnuts harvested by member 1 on field 2.
mem1_groundnuts_field3_bags	Bags of groundnuts harvested by member 1 on field 3.
mem1_groundnuts_from_coop_bags	Bags of groundnuts obtained from the cooperative by member 1.
mem1_groundnuts_bag_size_kg	Standard bag size for groundnuts used by member 1 (kg).
mem1_groundnuts_sold_outside_villa_bags	Bags of groundnuts sold outside the village by member 1.
mem1_groundnuts_sold_within_villa_bags	Bags of groundnuts sold within the village by member 1.
mem1_groundnuts_sold_to_coop_bags	Bags of groundnuts sold to the cooperative by member 1.
mem1_groundnuts_sold_outside_Site 2_bags	Bags of groundnuts sold outside Site 2 by member 1.
mem1_groundnuts_income_total_kz	Total income from groundnuts sales by member 1 (Kz).
mem1_groundnuts_exchanged_bags	Bags of groundnuts exchanged/bartered by member 1.
mem1_groundnuts_left_on_field_bags	Bags of groundnuts left in the field by member 1.
mem1_sweetcane_field1_bundles	Bundles of sweetcane harvested by member 1 on field 1.
mem1_sweetcane_field2_bundles	Bundles of sweetcane harvested by member 1 on field 2.
mem1_sweetcane_field3_bundles	Bundles of sweetcane harvested by member 1 on field 3.
mem1_sweetcane_from_coop_bundles	Bundles of sweetcane obtained from the cooperative by member 1.
mem1_sweetcane_sold_outside_Site 2_bundles	Bundles of sweetcane sold outside Site 2 by member 1.
mem1_sweetcane_sold_within_Site 2_bundles	Survey field from the questionnaire.
mem1_sweetcane_sold_within_villa_bundles	Bundles of sweetcane sold within the village by member 1.

mem1_sweetcane_sold_to_coop_bundles	Bundles of sweetcane sold to the cooperative by member 1.
mem1_sweetcane_income_total_kz	Total income from sweetcane sales by member 1 (Kz).
mem1_sweetcane_exchanged_bundles	Bundles of sweetcane exchanged/bartered by member 1.
mem1_mangetti_field1_bags	Bags of mangetti harvested by member 1 on field 1.
mem1_mangetti_field2_bags	Bags of mangetti harvested by member 1 on field 2.
mem1_mangetti_field3_bags	Bags of mangetti harvested by member 1 on field 3.
mem1_mangetti_from_coop_bags	Bags of mangetti obtained from the cooperative by member 1.
mem1_mangetti_bag_size_kg	Standard bag size for mangetti used by member 1 (kg).
mem1_mangetti_sold_outside_villa_bags	Bags of mangetti sold outside the village by member 1.
mem1_mangetti_sold_outside_Site 2_bags	Bags of mangetti sold outside Site 2 by member 1.
mem1_mangetti_sold_within_villa_bags	Bags of mangetti sold within the village by member 1.
mem1_mangetti_sold_to_coop_bags	Bags of mangetti sold to the cooperative by member 1.
mem1_mangetti_income_total_kz	Total income from mangetti sales by member 1 (Kz).
mem1_mangetti_exchanged_bags	Bags of mangetti exchanged/bartered by member 1.
mem1_mangetti_left_on_field_bags	Bags of mangetti left in the field by member 1.
mem1_mangetti_bought_within_Site 2_bags	Bags of mangetti bought within Site 2 bags by member 1.
mem1_mangetti_bought_within_coop_bags	Bags of mangetti bought within coop bags by member 1.
mem1_mangetti_bought_outside_villa_bags	Bags of mangetti bought outside village bags by member 1.
mem1_mangetti_bought_outside_villa_outside_Site 2_bags	Bags of mangetti bought outside village outside Site 2 bags by member 1.
mem2_maize_field1_bags	Bags of maize harvested by member 2 on field 1.
mem2_maize_field2_bags	Bags of maize harvested by member 2 on field 2.
mem2_maize_field3_bags	Bags of maize harvested by member 2 on field 3.
mem2_maize_from_coop_bags	Bags of maize obtained from the cooperative by member 2.

mem2_maize_bag_size_kg	Standard bag size for maize used by member 2 (kg).
mem2_maize_sold_outside_villa_bags	Bags of maize sold outside the village by member 2.
mem2_maize_sold_within_villa_bags	Bags of maize sold within the village by member 2.
mem2_maize_sold_to_coop_bags	Bags of maize sold to the cooperative by member 2.
mem2_maize_sold_outside_Site 2_bags	Bags of maize sold outside Site 2 by member 2.
mem2_maize_income_total_kz	Total income from maize sales by member 2 (Kz).
mem2_maize_exchanged_bags	Bags of maize exchanged/bartered by member 2.
mem2_maize_left_on_field_bags	Bags of maize left in the field by member 2.
mem2_groundnuts_field1_bags	Bags of groundnuts harvested by member 2 on field 1.
mem2_groundnuts_field2_bags	Bags of groundnuts harvested by member 2 on field 2.
mem2_groundnuts_field3_bags	Bags of groundnuts harvested by member 2 on field 3.
mem2_groundnuts_from_coop_bags	Bags of groundnuts obtained from the cooperative by member 2.
mem2_groundnuts_bag_size_kg	Standard bag size for groundnuts used by member 2 (kg).
mem2_groundnuts_sold_outside_villa_bags	Bags of groundnuts sold outside the village by member 2.
mem2_groundnuts_sold_within_villa_bags	Bags of groundnuts sold within the village by member 2.
mem2_groundnuts_sold_to_coop_bags	Bags of groundnuts sold to the cooperative by member 2.
mem2_groundnuts_sold_outside_Site 2_bags	Bags of groundnuts sold outside Site 2 by member 2.
mem2_groundnuts_income_total_kz	Total income from groundnuts sales by member 2 (Kz).
mem2_groundnuts_exchanged_bags	Bags of groundnuts exchanged/bartered by member 2.
mem2_groundnuts_left_on_field_bags	Bags of groundnuts left in the field by member 2.
mem2_sweetcane_field1_bundles	Bundles of sweetcane harvested by member 2 on field 1.
mem2_sweetcane_field2_bundles	Bundles of sweetcane harvested by member 2 on field 2.

mem2_sweetcane_field3_bundles	Bundles of sweetcane harvested by member 2 on field 3.
mem2_sweetcane_from_coop_bundles	Bundles of sweetcane obtained from the cooperative by member 2.
mem2_sweetcane_sold_outside_Site 2_bundles	Bundles of sweetcane sold outside Site 2 by member 2.
mem2_sweetcane_sold_within_Site 2_bundles	Survey field from the questionnaire.
mem2_sweetcane_sold_within_villa_bundles	Bundles of sweetcane sold within the village by member 2.
mem2_sweetcane_sold_to_coop_bundles	Bundles of sweetcane sold to the cooperative by member 2.
mem2_sweetcane_income_total_kz	Total income from sweetcane sales by member 2 (Kz).
mem2_sweetcane_exchanged_bundles	Bundles of sweetcane exchanged/bartered by member 2.
mem2_mangetti_field1_bags	Bags of mangetti harvested by member 2 on field 1.
mem2_mangetti_field2_bags	Bags of mangetti harvested by member 2 on field 2.
mem2_mangetti_field3_bags	Bags of mangetti harvested by member 2 on field 3.
mem2_mangetti_from_coop_bags	Bags of mangetti obtained from the cooperative by member 2.
mem2_mangetti_bag_size_kg	Standard bag size for mangetti used by member 2 (kg).
mem2_mangetti_sold_outside_villa_bags	Bags of mangetti sold outside the village by member 2.
mem2_mangetti_sold_outside_Site 2_bags	Bags of mangetti sold outside Site 2 by member 2.
mem2_mangetti_sold_within_villa_bags	Bags of mangetti sold within the village by member 2.
mem2_mangetti_sold_to_coop_bags	Bags of mangetti sold to the cooperative by member 2.
mem2_mangetti_income_total_kz	Total income from mangetti sales by member 2 (Kz).
mem2_mangetti_exchanged_bags	Bags of mangetti exchanged/bartered by member 2.
mem2_mangetti_left_on_field_bags	Bags of mangetti left in the field by member 2.
mem2_mangetti_bought_within_Site 2_bags	Bags of mangetti bought within Site 2 bags by member 2.
mem2_mangetti_bought_within_coop_bags	Bags of mangetti bought within coop bags by member 2.

mem2_mangetti_bought_outside_villa_bags	Bags of mangetti bought outside village bags by member 2.
mem2_mangetti_bought_outside_villa_outside_Site 2_bags	Bags of mangetti bought outside village outside Site 2 bags by member 2.
mem3_maize_field1_bags	Bags of maize harvested by member 3 on field 1.
mem3_maize_field2_bags	Bags of maize harvested by member 3 on field 2.
mem3_maize_field3_bags	Bags of maize harvested by member 3 on field 3.
mem3_maize_from_coop_bags	Bags of maize obtained from the cooperative by member 3.
mem3_maize_bag_size_kg	Standard bag size for maize used by member 3 (kg).
mem3_maize_sold_outside_villa_bags	Bags of maize sold outside the village by member 3.
mem3_maize_sold_within_villa_bags	Bags of maize sold within the village by member 3.
mem3_maize_sold_to_coop_bags	Bags of maize sold to the cooperative by member 3.
mem3_maize_sold_outside_Site 2_bags	Bags of maize sold outside Site 2 by member 3.
mem3_maize_income_total_kz	Total income from maize sales by member 3 (Kz).
mem3_maize_exchanged_bags	Bags of maize exchanged/bartered by member 3.
mem3_maize_left_on_field_bags	Bags of maize left in the field by member 3.
mem3_groundnuts_field1_bags	Bags of groundnuts harvested by member 3 on field 1.
mem3_groundnuts_field2_bags	Bags of groundnuts harvested by member 3 on field 2.
mem3_groundnuts_field3_bags	Bags of groundnuts harvested by member 3 on field 3.
mem3_groundnuts_from_coop_bags	Bags of groundnuts obtained from the cooperative by member 3.
mem3_groundnuts_bag_size_kg	Standard bag size for groundnuts used by member 3 (kg).
mem3_groundnuts_sold_outside_villa_bags	Bags of groundnuts sold outside the village by member 3.
mem3_groundnuts_sold_within_villa_bags	Bags of groundnuts sold within the village by member 3.
mem3_groundnuts_sold_to_coop_bags	Bags of groundnuts sold to the cooperative by member 3.
mem3_groundnuts_sold_outside_Site 2_bags	Bags of groundnuts sold outside Site 2 by member 3.

mem3_groundnuts_income_total_kz	Total income from groundnuts sales by member 3 (Kz).
mem3_groundnuts_exchanged_bags	Bags of groundnuts exchanged/bartered by member 3.
mem3_groundnuts_left_on_field_bags	Bags of groundnuts left in the field by member 3.
mem3_sweetcane_field1_bundles	Bundles of sweetcane harvested by member 3 on field 1.
mem3_sweetcane_field2_bundles	Bundles of sweetcane harvested by member 3 on field 2.
mem3_sweetcane_field3_bundles	Bundles of sweetcane harvested by member 3 on field 3.
mem3_sweetcane_from_coop_bundles	Bundles of sweetcane obtained from the cooperative by member 3.
mem3_sweetcane_sold_outside_Site 2_bundles	Bundles of sweetcane sold outside Site 2 by member 3.
mem3_sweetcane_sold_within_Site 2_bundles	Survey field from the questionnaire.
mem3_sweetcane_sold_within_villa_bundles	Bundles of sweetcane sold within the village by member 3.
mem3_sweetcane_sold_to_coop_bundles	Bundles of sweetcane sold to the cooperative by member 3.
mem3_sweetcane_income_total_kz	Total income from sweetcane sales by member 3 (Kz).
mem3_sweetcane_exchanged_bundles	Bundles of sweetcane exchanged/bartered by member 3.
mem3_mangetti_field1_bags	Bags of mangetti harvested by member 3 on field 1.
mem3_mangetti_field2_bags	Bags of mangetti harvested by member 3 on field 2.
mem3_mangetti_field3_bags	Bags of mangetti harvested by member 3 on field 3.
mem3_mangetti_from_coop_bags	Bags of mangetti obtained from the cooperative by member 3.
mem3_mangetti_bag_size_kg	Standard bag size for mangetti used by member 3 (kg).
mem3_mangetti_sold_outside_villa_bags	Bags of mangetti sold outside the village by member 3.
mem3_mangetti_sold_outside_Site 2_bags	Bags of mangetti sold outside Site 2 by member 3.
mem3_mangetti_sold_within_villa_bags	Bags of mangetti sold within the village by member 3.

mem3_mangetti_sold_to_coop_bags	Bags of mangetti sold to the cooperative by member 3.
mem3_mangetti_income_total_kz	Total income from mangetti sales by member 3 (Kz).
mem3_mangetti_exchanged_bags	Bags of mangetti exchanged/bartered by member 3.
mem3_mangetti_left_on_field_bags	Bags of mangetti left in the field by member 3.
mem3_mangetti_bought_within_Site 2_bags	Bags of mangetti bought within Site 2 bags by member 3.
mem3_mangetti_bought_within_coop_bags	Bags of mangetti bought within coop bags by member 3.
mem3_mangetti_bought_outside_villa_bags	Bags of mangetti bought outside village bags by member 3.
mem3_mangetti_bought_outside_villa_outside_Site 2_bags	Bags of mangetti bought outside village outside Site 2 bags by member 3.
poles_harvest_within_villa	Quantity of poles harvested within the village.
poles_harvest_within_Site 2	Quantity of poles harvested within Site 2 area.
poles_harvest_outside_Site 2	Quantity of poles harvested outside Site 2.
poles_sold_outside_villa	Quantity of poles sold outside the village.
poles_sold_within_villa	Quantity of poles sold within the village.
poles_bought_outside_villa	Quantity of poles bought outside the village.
poles_bought_within_villa	Quantity of poles bought within the village.
reeds_harvest_within_villa	Quantity of reeds harvested within the village.
reeds_harvest_within_Site 2	Quantity of reeds harvested within Site 2 area.
reeds_harvest_outside_Site 2	Quantity of reeds harvested outside Site 2.
reeds_sold_outside_villa	Quantity of reeds sold outside the village.
reeds_sold_within_villa	Quantity of reeds sold within the village.
reeds_bought_outside_villa	Quantity of reeds bought outside the village.
reeds_bought_within_villa	Quantity of reeds bought within the village.
thatch_harvest_within_villa	Quantity of thatch harvested within the village.
thatch_harvest_within_Site 2	Quantity of thatch harvested within Site 2 area.
thatch_harvest_outside_Site 2	Quantity of thatch harvested outside Site 2.
thatch_sold_outside_villa	Quantity of thatch sold outside the village.
thatch_sold_within_villa	Quantity of thatch sold within the village.
thatch_bought_outside_villa	Quantity of thatch bought outside the village.

thatch_bought_within_villa	Quantity of thatch bought within the village.
palm_harvest_within_villa	Quantity of palm harvested within the village.
palm_harvest_within_Site 2	Quantity of palm harvested within Site 2 area.
palm_harvest_outside_Site 2	Quantity of palm harvested outside Site 2.
palm_sold_outside_villa	Quantity of palm sold outside the village.
palm_sold_within_villa	Quantity of palm sold within the village.
palm_bought_outside_villa	Quantity of palm bought outside the village.
palm_bought_within_villa	Quantity of palm bought within the village.
cogumelo_harvest_within_villa	Quantity of cogumelo harvested within the village.
cogumelo_harvest_within_Site 2	Quantity of cogumelo harvested within Site 2 area.
cogumelo_harvest_outside_Site 2	Quantity of cogumelo harvested outside Site 2.
cogumelo_sold_outside_villa	Quantity of cogumelo sold outside the village.
cogumelo_sold_within_villa	Quantity of cogumelo sold within the village.
cogumelo_bought_outside_villa	Quantity of cogumelo bought outside the village.
cogumelo_bought_within_villa	Quantity of cogumelo bought within the village.
fruits_bags_collected	Bags of wild fruits collected.
fruits_bag_size_grams	Typical bag size for wild fruits (grams).
fruits_sold_outside_villa_bags	Bags of wild fruits sold outside the village.
fruits_sold_within_villa_bags	Bags of wild fruits sold within the village.
fruits_bought_outside_villa_bags	Bags of wild fruits bought outside the village.
fruits_bought_within_villa_bags	Bags of wild fruits bought within the village.
handicraft_made_any	Whether the household produced any handicrafts (0/1).
handicraft_sold_outside_villa	Number of handicraft items sold outside the village.
handicraft_sold_within_villa	Number of handicraft items sold within the village.
handicraft_income_kz	Income earned from handicraft sales (Kz).
handicraft_kept_count	Number of handicraft items kept by the household.
own_car	Whether the household owns a car (0/1).
other_car	Whether the household uses someone else's car (0/1).
own_sledge	Whether the household owns a sledge (0/1).

other_sledge	Whether the household uses someone else's sledge (0/1).
own_bicycle	Whether the household owns a bicycle (0/1).
other_bicycle	Whether the household uses someone else's bicycle (0/1).
transport_other	Whether the household uses another transport type (0/1).
own_car_fuel_liters_pm	Estimated liters of fuel used per month for the household car.
own_car_fuel_cash_kz_pm	Cash spent on car fuel per month (Kz).
pay_other_car_mode	Main way the household pays for others' car transport (cash/in-kind/none).
pay_other_car_cash_kz_pm	Monthly cash paid for others' car transport (Kz).
pay_other_sledge_mode	Main way the household pays for others' sledge transport.
pay_other_bicycle_mode	Main way the household pays for others' bicycle transport.
coop_member_household	Whether anyone in the household is a cooperative member (Yes/No).
coop_nonmember_reason	Reason for not joining the cooperative (if not a member).
coop_exec_any	Whether any member serves in a cooperative executive role.
coop_membership_duration	Duration of cooperative membership.
coop_meeting_participation	Frequency of attending cooperative meetings.
mot_finance	Motivation for cooperative membership: finance (0/1).
mot_ag_support	Motivation for cooperative membership: ag support (0/1).
mot_training	Motivation for cooperative membership: training (0/1).
mot_land	Motivation for cooperative membership: land (0/1).
mot_market	Motivation for cooperative membership: market (0/1).
mot_other	Motivation for cooperative membership: other (0/1).
res_inputs	Resources/services received from cooperative: inputs (0/1).

res_savings	Resources/services received from cooperative: savings (0/1).
res_equipment	Resources/services received from cooperative: equipment (0/1).
res_marketing	Resources/services received from cooperative: marketing (0/1).
res_support	Resources/services received from cooperative: support (0/1).
res_exchange	Resources/services received from cooperative: exchange (0/1).
res_other	Resources/services received from cooperative: other (0/1).
ex_food	Type of exchange within cooperative networks: food (0/1).
ex_inputs	Type of exchange within cooperative networks: inputs (0/1).
ex_knowledge	Type of exchange within cooperative networks: knowledge (0/1).
ex_labour	Type of exchange within cooperative networks: labour (0/1).
ex_finance	Type of exchange within cooperative networks: finance (0/1).
cattle_total	Cattle: total.
cattle_owned_self	Cattle: owned self.
cattle_owned_for_others	Cattle: owned for others.
cattle_adult_count	Cattle: adult count.
cattle_young_count	Cattle: young count.
cattle_killed_by_wildlife_adult	Cattle: killed by wildlife adult.
cattle_killed_by_wildlife_young	Cattle: killed by wildlife young.
cattle_compensation_kz	Cattle: compensation kz.
cattle_slaughtered_adult	Cattle: slaughtered adult.
cattle_slaughtered_young	Cattle: slaughtered young.
cattle_beef_income_kz	Cattle: beef income kz.
cattle_live_sold_outside_adult	Cattle: live sold outside adult.
cattle_live_sold_outside_young	Cattle: live sold outside young.

natural_deaths_cattle_adult	Survey field from the questionnaire.
natural_deaths_cattle_young	Survey field from the questionnaire.
milk_liters_per_day	Milk liters per day.
milk_sold_pm_villa_l	Milk sold pm village l.
milk_sold_pm_Site 2_l	Milk sold pm Site 2 l.
milk_sold_pm_outside_l	Milk sold pm outside l.
goats_total	Goats: total.
goats_adult_count	Goats: adult count.
goats_young_count	Goats: young count.
goats_natural_deaths_adult	Goats: natural deaths adult.
goats_natural_deaths_young	Goats: natural deaths young.
goatmilk_days_per_month	Survey field from the questionnaire.
goatmilk_liters_per_day	Survey field from the questionnaire.
goatmilk_sold_within_l	Survey field from the questionnaire.
goatmilk_sold_outside_l	Survey field from the questionnaire.
donkeys_total	Donkeys: total.
donkeys_adult_count	Donkeys: adult count.
donkeys_young_count	Donkeys: young count.
donkeys_live_sold_outside_adult	Donkeys: live sold outside adult.
chickens_slaughtered	Survey field from the questionnaire.
chicken_meat_sold_outside	Chicken meat sold outside.
chicken_meat_sold_within	Chicken meat sold within.
chicken_income_meat_kz	Chicken income meat kz.
live_chicken_sold_outside	Live chicken sold outside.
live_chicken_sold_within	Live chicken sold within.
live_chicken_income_kz	Live chicken income kz.
hens_laid_eggs	Hens laid eggs.
hut_trad_small	Number of traditional huts of small size.
hut_trad_medium	Number of traditional huts of medium size.
hut_trad_large	Number of traditional huts of large size.
brick_small_zinc_roof	Number of small brick houses with zinc roof.

brick_med_zinc_roof	Number of medium brick houses with zinc roof.
brick_large_zinc_roof	Number of large brick houses with zinc roof.
fence_type_reeds	Homestead fencing made of reeds present (0/1).
fence_type_wood_wire	Homestead fencing with wood and wire present (0/1).
fence_type_brick_wall	Homestead fenced by brick wall present (0/1).
courtyard_size_small	Homestead courtyard marked as small (0/1).
courtyard_size_medium	Homestead courtyard marked as medium (0/1).
courtyard_size_large	Homestead courtyard marked as large (0/1).
mem1_income_total_kz	Amount in Angolan Kwanza.
mem1_src_employee	Survey field from the questionnaire.
mem1_src_self_employed	Survey field from the questionnaire.
mem1_src_pension	Survey field from the questionnaire.
mem1_src_remittances	Survey field from the questionnaire.
mem1_src_grants	Survey field from the questionnaire.
mem1_src_transfers	Survey field from the questionnaire.
mem1_src_other	Survey field from the questionnaire.
mem1_use_food	Survey field from the questionnaire.
mem1_use_education	Survey field from the questionnaire.
mem1_use_savings	Survey field from the questionnaire.
mem1_use_personal	Survey field from the questionnaire.
mem1_use_other	Survey field from the questionnaire.
mem2_income_total_kz	Amount in Angolan Kwanza.
mem2_src_employee	Survey field from the questionnaire.
mem2_src_self_employed	Survey field from the questionnaire.
mem2_src_pension	Survey field from the questionnaire.
mem2_src_remittances	Survey field from the questionnaire.
mem2_src_grants	Survey field from the questionnaire.
mem2_src_transfers	Survey field from the questionnaire.
mem2_src_other	Survey field from the questionnaire.
mem2_use_food	Survey field from the questionnaire.
mem2_use_education	Survey field from the questionnaire.

mem2_use_savings	Survey field from the questionnaire.
mem2_use_personal	Survey field from the questionnaire.
mem2_use_other	Survey field from the questionnaire.
mem3_income_total_kz	Amount in Angolan Kwanza.
mem3_src_employee	Survey field from the questionnaire.
mem3_src_self_employed	Survey field from the questionnaire.
mem3_src_pension	Survey field from the questionnaire.
mem3_src_remittances	Survey field from the questionnaire.
mem3_src_grants	Survey field from the questionnaire.
mem3_src_transfers	Survey field from the questionnaire.
mem3_src_other	Survey field from the questionnaire.
mem3_use_food	Survey field from the questionnaire.
mem3_use_education	Survey field from the questionnaire.
mem3_use_savings	Survey field from the questionnaire.
mem3_use_personal	Survey field from the questionnaire.
mem3_use_other	Survey field from the questionnaire.
mem4_income_total_kz	Amount in Angolan Kwanza.
mem4_src_employee	Survey field from the questionnaire.
mem4_src_self_employed	Survey field from the questionnaire.
mem4_src_pension	Survey field from the questionnaire.
mem4_src_remittances	Survey field from the questionnaire.
mem4_src_grants	Survey field from the questionnaire.
mem4_src_transfers	Survey field from the questionnaire.
mem4_src_other	Survey field from the questionnaire.
mem4_use_food	Survey field from the questionnaire.
mem4_use_education	Survey field from the questionnaire.
mem4_use_savings	Survey field from the questionnaire.
mem4_use_personal	Survey field from the questionnaire.
mem4_use_other	Survey field from the questionnaire.
mem5_income_total_kz	Amount in Angolan Kwanza.
mem5_src_employee	Survey field from the questionnaire.

mem5_src_self_employed	Survey field from the questionnaire.
mem5_src_pension	Survey field from the questionnaire.
mem5_src_remittances	Survey field from the questionnaire.
mem5_src_grants	Survey field from the questionnaire.
mem5_src_transfers	Survey field from the questionnaire.
mem5_src_other	Survey field from the questionnaire.
mem5_use_food	Survey field from the questionnaire.
mem5_use_education	Survey field from the questionnaire.
mem5_use_savings	Survey field from the questionnaire.
mem5_use_personal	Survey field from the questionnaire.
mem5_use_other	Survey field from the questionnaire.
mem6_income_total_kz	Amount in Angolan Kwanza.
mem6_src_employee	Survey field from the questionnaire.
mem6_src_self_employed	Survey field from the questionnaire.
mem6_src_pension	Survey field from the questionnaire.
mem6_src_remittances	Survey field from the questionnaire.
mem6_src_grants	Survey field from the questionnaire.
mem6_src_transfers	Survey field from the questionnaire.
mem6_src_other	Survey field from the questionnaire.
mem6_use_food	Survey field from the questionnaire.
mem6_use_education	Survey field from the questionnaire.
mem6_use_savings	Survey field from the questionnaire.
mem6_use_personal	Survey field from the questionnaire.
mem6_use_other	Survey field from the questionnaire.